

452 on

1977-78

THE PRESIDENT'S REPORT

FOR THE ACADEMIC YEAR ENDED

JUNE 30, 1977

THE UNIVERSITY OF WESTERN ONTARIO
LONDON CANADA

C O N T E N T S

	<u>Page</u>
Report of the President and Vice-Chancellor	1
Report of the Acting Vice-President, Health Sciences	16
Report of the Registrar	20
Report of the Dean, Faculty of Graduate Studies	25
Report of the Dean, Faculty of Arts	38
Report of the Dean, School of Business Administration	54
Report of the Dean, Faculty of Dentistry	68
Report of the Dean, Faculty of Education	82
Report of the Dean, Faculty of Engineering Science	87
Report of the Dean, School of Journalism	105
Report of the Dean, Faculty of Law	109
Report of the Dean, School of Library and Information Science	114
Report of the Dean, Faculty of Medicine	129
Report of the Dean, Faculty of Music	139
Report of the Dean, Faculty of Nursing	151
Report of the Dean, Faculty of Physical Education	156
Report of the Dean, Faculty of Science	178
Report of the Dean, Faculty of Social Science	190
Report of the Principal, Brescia College	224
Report of the Principal, Huron College	227
Report of the Principal, King's College	230
Report of the Director of Libraries and Chief Librarian	233
Report of the Director, Student Services	249
Report of the Director, Alumni Affairs	262
Report of the Director, Centre for Radio Science	264
Report of the Director, Computing Centre	266
Report of the Director, Council on Animal Care	268
Report of the Director, Department of Finance	269
Report of the Director, Information Analysis and Systems	277
Report of the University Art Curator, McIntosh Gallery	281
Report of the Artist-in-Residence, McIntosh Gallery	287
Report of the Executive Secretary, Office of International Education	290
Report of the Director, Personnel Department	296
Report of the Director, Physical Plant Department	300
Report of the Director, University Relations and Information	306
Publications of Members of Faculty and Staff	309

REPORT OF THE PRESIDENT AND VICE-CHANCELLOR

Dr. D.C. Williams

Excerpts from "The Lively Decade", a lecture given by President Williams on March 9, 1978.

Being President of The University of Western Ontario may be hectic, but during my ten-year tenure it was never dull and the title, "The Lively Decade" captures something of that sense of adventure of uncertainty, of knowing that, like Mr. Micawber "something will turn up". And during those years something did turn up, every day: something bad or good, or ridiculous or alarming, frustrating, toxic, funny or wonderful. That which you knew about you provided for, but there has always been as well a generous element of the unexpected ranging from the whims of government to the vagaries of the Senate, from the brilliant insight of a colleague to an unexpected headline in the London Free Press. Whatever it is, the President is supposed to be able to respond instantly and, with luck, appropriately.

Now, since there are ten years to talk about, I have decided to say a little bit about each of ten themes, one as it were for each year, and then at the end try to show how, despite their diversity, they fit together.

In talking about these, I wish to record in advance my debt to Sir Eric (now Lord) Ashby, Master of Clare College, Cambridge, who has written much on these matters; to Clark Kerr, the former President of the University of California, who you will remember said that he left his job as he entered it, fired with enthusiasm; and to my old friend and colleague Marshall McLuhan, the debt to whom you will perceive as we go along.

My first theme has to do with democracy in the University. I could talk about the governance of the university ad infinitum, or of the Duff-Berdahl Report of 1966 and the evolution of The UWO Act of 1967 and of its successor of 1974. I could discuss at length Western as leading in the field of making participatory management work; the translation of the good intentions of these two acts into the warp and woof of the daily operation and the life of this university. I could expound upon the drama and paranoia that surrounded those achievements and the gradual realization that power had, in fact, largely migrated to the Senate, and the further fact that that fundamental change did not destroy the concept of two-tier government. There remains a critical role in participatory management for the Board of Governors. Clearly one of Western's great achievements in the decade has been the establishment of this kind of democratic participatory government. Our Acts have been models for others to follow and indeed our success in jointly making them work has avoided the crippling strikes and long-lasting bad feeling that their absence has produced elsewhere.

Another theme that it would be easy to dilate on for an hour's lecture is that of the role of the President. I remember the freshman who said to me "I know

you are the President, but what do you *do*?" I thought back to the early days of my tenure ten years ago and I remember the isolation of that office, because at that time I discovered to my astonishment that I was by-passed, that the Board of Governors was here and that the Faculty Association was there and they attempted to deal with each other directly, ignoring the President as a communication link back and forth between them. This led me to the first conception I had of the job of the President; at least one of his jobs is that of being the honest broker, of mediating between or among the various groups that make up a complex institution like this, and of striving as best he can to achieve the kind of solution to the head-on collisions that often seem to be imminent or at least threatening on the horizon. Another job that the President has is that of being a tie-breaker. You remember that famous sign that the late President Truman had that said, "The Buck Stops Here". And what that means, among other things, is that when a President gets two strong members of cabinet mounted on a collision course or when I find myself facing two strong deans whose ambitions for their own faculties are mutually exclusive, then somebody has to break the tie.

This is one of the tasks that the President must face. Another more obvious one is that he is in the very literal sense the front man for the University he serves. This means, of course, that he is the principal target for any criticisms that may come either from within the University community or without it, and he has to be, it seems to me, free to play that role because he has undertaken by virtue of the office, if not in his person, to symbolize the University to the community. A more important task is that of a sort of moral leader. What does the University stand for? What are the things it is prepared to mount the barricades over? How are these to be articulated? How are they to be made operative in the daily life of the University? And I think closely connected with this is that, whether he likes it or not, the President ends up imposing something of his own style of management on the institution. The kinds of things he finds himself doing and the manner in which he does them, unconsciously on his part, nonetheless have this further kind of ripple effect.

The President and the Chancellor are the only ones in the institution who swear by public oath to protect and advance the welfare of the University as a whole. The President must, therefore, in a democracy have a certain amount of power, and as Clark Kerr said, that power is the power to persuade. I found very early that if you are to have the power to persuade, you must then have equal access to all groups who need persuading. This, I think becomes critical to the definition of the task of the President. President Coleman of Haverford College spoke for many of us when he said:

I know how lucky I am to be President here. I can cite more instances of pure joy from these years than from anything else I have done. ... Organization charts show the President on top, just a step below the financial angels. In actuality, a President is at the centre of a web of conflicting interest groups, none of which can ever be fully satisfied. He is, by definition, almost always wrong. If he spends much time meeting

with students, he is neglecting the faculty. If he spends much time with the Faculty, he is being dictated to by them. If he is off campus, he should be back minding the store. If he is on campus, he should be out raising money. If he pushes his pet educational thoughts, he is trying to run the show. If he doesn't, he is not interested enough in education. If he changes his mind on an issue, he is wishy-washy. If he doesn't, he is pigheaded. If his name isn't in the paper, he is letting the University down. If it is, he is a publicity hound. If he smiles a lot, he is naive on the problems of the University. If he frowns, he has given up too soon.

"It's all very interesting," says Dr. Coleman, "and not hard to take once he gets over wanting to be right and settles instead for doing the best he can."

As Lord Ashby remarked, "Since all administrators are regarded as evil by all right-thinking Faculty, every President should look at himself in the mirror every morning and say: 'I am an evil. Am I a necessary one?'"

What about the problem of change and the great importance of an institution adapting to it? McLuhan is right when he points out that the rate of change in the past 75 years outstrips the previous 2000. It took thousands of years before that to invent the Greek alphabet, then 2000 more to invent the moveable type which made the modern university possible. But the last 75 years have seen the advent of the daily paper, equivalent in length to a novel a day, of photography, the motion picture, the talking picture, radio and the union of all these in television, now externalized and simultaneous through satellite transmission. No wonder we now find McLuhan's concept of the "Global Village" a simple, accurate description rather than the flight of poetic imagination it used to be mistaken for.

I vividly recall the first time McLuhan used the phrase "classroom without walls". It was about 20 years ago and no one knew what he meant! The last time I heard it, it was used by an Ontario Cabinet Minister, and every member of his audience knew what he meant! Such is the speed of change and adaptation of our times. Now part of the University fall-out of all this speed of change comes, for example, in term appointments for academic administrators, in the increasing questioning of tenure as a legitimate academic device, and in the growing insecurity among faculty members. I now begin to understand Tennyson's lines which always puzzled me where he says in *Morte d'Arthur*:

The old order changeth yielding place to new,
And God fulfills himself in many ways,
Lest one good custom should corrupt the world.

On the topic of growth I could go on at length again. How Western has grown is what Western has become, compared to what it was. For example, when I came here there were 34 buildings and 9 additions providing 1.5 million square feet of usable space. Now there are 63 buildings and 24 additions, providing 4.1 million square feet of usable space.

In 1967 there were 8,000 students in all; now there are 18,000. Then our faculty numbered 700. Now there are 1,300. Similarly, the full-time staff rose from 1,350 to 2,500 in the same time. In 1967 our revenues were \$32.5 million; now they are \$107.5 million. If you had wanted to buy Western in 1967, our land, buildings and equipment were valued at cost at \$67 million. Now we wouldn't sell them for \$170 million, still at cost. Such has been our growth in this last decade that half of our Alumni have graduated since I became President!

On the question of teaching, research and scholarship at Western, it would be easy to deliver another long lecture. Western is famous for many different things in different parts of Canada and the world. Indeed it is not possible to designate an area of the University that cannot produce its examples of the successful pursuit of excellence. We have come a long way from the country club image we used to project. Those few detractors who try to invoke it now, do so out of envy, betraying thereby the paucity of their own intellectual accomplishments rather than describing the Western of today. Now there are few who dare condescend to us.

In a different vein I would suggest to you the importance of laughter in our midst. I suggest to you that amid all this change we have managed to keep our good temper - most of the time - because we have been willing to laugh at ourselves. People tend to regard laughter as the icing on the cake of human relations rather than as the essence of personal communications that it really is. Through the gift of laughter we can assert our independence without affront, as well as provide the basis of our growing interdependence within and without the University community. I remember an early occasion when the budget of the University was presented to the Senate for approval. It was a solemn moment and most of us were doing our best to cope with the unfamiliar schedules and endless columns of numbers. I recall one earnest student asking, "What is the Meek Laboratory?" and receiving the answer from a quick-witted Dean: "That's where we teach you to inherit the earth!"

I have mentioned independence and interdependence. Let me also say a word about these two sides of the same coin because, again, it would be easy to use either as a topic for a full lecture. Would you consider this set of propositions: Every university is like:

- (a) All other universities
- (b) Some other universities
- (c) No other university

All three assertions to this multiple choice question are of course true. The first two assert our interdependence on each other and on the societies whose support keeps us alive. The third asserts the style and flavor that each university develops in the course of its history that is unique to it. Our independence is reflected in the guarantees we have built in to protect ourselves from improper interference from without and from within. It carries with it the responsibility, as Tennyson once said, "To strive, to seek, to find and not to yield".

Our interdependence is reflected in our participation in the wide intellectual community, as symbolized by our memberships in the Council of Ontario Universities, the Association of Universities and Colleges of Canada, the Association of Commonwealth Universities, which is the oldest international university association in the world, and the International Association of Universities, which is one of the youngest.

Western is an amalgam of administrators, masters and scholars. By scholars, I mean the students, the sine qua non of a university. Their de jure status, as Lord Ashby says, "is that of members of a corporation, not customers in a shop, or patients in a hospital or passengers on a ship." They are, in short, part of us.

The other members of this trinity are, of course, first the masters (that is the faculty) and second, the administration. The faculty are the senior members of the academic corporation, without whose good offices and dedication the standards of the University would collapse, and the administrators are all the rest who keep the place running, whether by cleaning the floors, typing the reports, maintaining the labs and libraries, or coordinating and managing the whole enterprise. Much of the reform of 1967 was inspired by the faculty. As the Duff-Berdahl Report predicted, the faculty pressed for control over decisions that affected their jobs, their working conditions and their teaching. The early granting of these rights has, ever after, carried with it the heavy and time-consuming responsibility to exercise them in the best interests of the University. It was not surprising at first to find the heady wine of power tempting Senators to construe their committee duties as containing executive as well as policy authority. This fortunately was relatively short-lived and we have a better balance now.

Now a word or two on the topic of administration. The administration consists of two parts: the "civil service" or "pure administration" being those functionaries who provide administrative support for the academic adventure, and "academic administration", those hard-working professors who the moment they are elected to office, be it as Deans or Department Chairmen, instantly become objects of mistrust and suspicion in the minds of the very people who voted them into office! The mythology by which these persons are sharply distinguished from "pure" faculty members - that is those whose responsibilities end in the lab, the library, and the classroom - is elaborate, indestructible, illogical and vigorous. The wonder is that so many of the pure are so anxious to exchange their academic virginity for administrative power!

In theory the University is a community in which administrators, masters and scholars work harmoniously together in the common pursuit of excellence. The past ten years at Western have demonstrated that if, as I think, sustained tension among these three components is a sign of health, we are as healthy as can be! We have had our share of student and faculty unrest and, as President, I have claimed the privilege of making my full quota of mistakes. But all of this has been maintained within bounds which, though frequently strained have never been shattered. We are mutually interdependent internally even as we are interdependent partners with our sister universities externally.

It is about our wider external relations that I would like to speak in bringing this lecture to a close. Western has prided itself on being responsive to the challenge of international education as evidenced by our involvement with universities in many lands. But we cannot function properly abroad without being concerned with our national role as a necessary precursor to our international commitments.

Nationally Western has seen itself as the one Canadian anglophone university that, for 43 years, has taken the francophone fact seriously through our famous cours d'ete a Trois-Pistoles in Quebec. But recent political events in that province have altered profoundly the whole conception of Canada. What now is Western's role? What are we - what are you - going to do about it? Surely not sit and wring your hands. This, I think, is Western's newest and gravest challenge. Do we sit back and watch our country fall apart? If not what do you, here, at Western now propose to do about it? Can we, indeed, have diversity without division?

Now I really am done, except to summarize these ten themes for you and as I promised in the beginning, show how they fit together. My summary goes like this:

"Diversity without division" that's
 Canada's problem. What can
 Western do about it? Insist on our
 Independence to seek the truth, on
 our reliance on
 Learning, to find that truth, leavened
 by our ability to
 Laugh at ourselves, so that we may
 maintain that
 Interdependent communication among
 our
 Administrators, who manage our
 affairs, our
 Masters, who to teach, must first
 know, and our
 Scholars, who are, as always, our
 best hope.

You will already have noticed that this is an acrostic, so the first letter of each line of this very blank verse spells the name of one I hope you will remember. Certainly he and his wife will never forget you. Good bye and good luck!

PERSONAL

Each year we record, with regret, the deaths of members of our University community. During the 1976-77 academic year the following faculty and staff members passed away: Mrs. Ivey Bell (retired), The D.B. Weldon Library, who had served Western for thirty years; Miss Nancilee Blonde, The D.B. Weldon Library; Mr. George W. Emery, Food Services, who had been with the University for fourteen years; Dr. D.G.G. Kerr, Department of History, a distinguished historian and scholar who had served the University for eighteen years as a Department member, as Department head, Principal of Middlesex College, and Dean of Talbot College; Professor H.S. Long (retired), Faculty of Education; Dr. A. Bruce Macallum, retired former Dean of Medicine; Dr. John V.V. Nicholls, a member and former Chairman of the Department of Ophthalmology; and Mr. F.W. Wright, Physical Plant, who had been with the University for twenty-four years. The University also remembers with great respect the distinguished service and leadership of Mr. William L. Duffield, a former member of the Board of Governors, who died this year. Mr. Duffield served on the Board from 1941 to 1968 and was Vice-Chairman from 1958 to 1967.

On the recommendation of the President and Vice-Chancellor, the Board of Governors conferred the rank of Professor Emeritus on the following retiring faculty members: Dr. K.M. Baird, Faculty of Dentistry; Professor M.L. Balse, Faculty of Arts, Department of French; Professor E.A. Beecroft, Faculty of Social Science, Department of Political Science; Professor A.C. Burton, Faculty of Science, Department of Biophysics; Professor L.E. Neal, Faculty of Social Science, Department of Psychology; Professor E.G. Pleva, Faculty of Social Science, Department of Geography; Professor G.H. Turner, Faculty of Social Science, Department of Psychology; Professor D.C. Williams, Faculty of Social Science, Department of Psychology. Among those of the non-academic staff who retired this year, I would particularly like to mention four members of the Physical Plant Department staff who have served this institution for many years: Mr. A.T. Carter, twenty-five years; Mr. R.G. Richardson, eighteen years; Mr. Arnold Robertson, thirty years; Mr. R. Topping, thirty-one years. To all of our retirees, both faculty members and non-academic staff, we say a sincere thank you. May you enjoy many happy years of well-earned retirement.

At the end of this academic year the resignations of Professor M.J. Flaherty, Dean of the Faculty of Nursing and Professor E.F. Zeigler, founding Dean of the Faculty of Physical Education, will become effective. After his study leave, Professor Zeigler will return to teaching in the Faculty. Other resignations which were received during the year included those of Mr. M.E. Carbone, Assistant Director, Summer School and Extension, and Mr. A.S. Dobbins, Manager of Financial Planning for Faculties and Departments.

On December 20, 1976, Mr. W.C.P. Baldwin, Chairman of the Board of Governors, announced the appointment of Dr. George E. Connell, Vice-President, Research and Planning, of the University of Toronto, as President and Vice-Chancellor of The University of Western Ontario, effective July 1, 1977. Dr. Connell's demonstrated record of scholarship, administrative ability and capacity for leadership made him the unanimous choice of a Presidential Selection Committee composed of five members of the Board and five members of the Senate. I am

personally delighted with the Committee's choice and I am confident that the University community will extend to Dr. Connell and his family a warm and sincere welcome.

During the academic year 1976-77 the Board of Governors approved the following senior academic appointments: Dr. A.M. Armitt, Dean, Faculty of Part-Time and Continuing Education, July 1, 1977, to June 30, 1979; Professor D. Hibbert, Acting Dean, Faculty of Nursing, July 1, 1977; Professor W.J. L'Heureux, Dean, Faculty of Physical Education, July 1, 1977, to June 30, 1978; Dr. T.G. McGhie, reappointed Assistant Dean, Continuing Medical Education, July 1, 1977, to June 30, 1980; Professor P. Park, Assistant Dean (In-Service and Graduate), Faculty of Education, July 1, 1977, to June 30, 1980; Professor S. Sharzer, Assistant Dean, School of Journalism, July 1, 1977, to June 30, 1980; Professor J.A.B. Somerset, reappointed Assistant Dean (Arts and Social Science), Faculty of Graduate Studies, July 1, 1977, to June 30, 1980; Professor H.A. Stevenson, Assistant Dean (Pre-Service), Faculty of Education, July 1, 1977, to June 30, 1980; Professor J.A. Zinn, Assistant Dean (Students), Faculty of Law, September 1, 1977, to August 31, 1980.

Under our system of rotating chairmanships of departments, the following appointments or reappointments have been made, effective July 1, 1977: Professor D. Baguley, French; Dr. J.E. Boone, Paediatrics; Dr. R.I. Brooke, Oral Medicine; Dr. M.G.P. Cameron, Physical Medicine and Rehabilitation; Professor S.C.R. Dennis, Applied Mathematics; Professor G.M. Eramian, Russian Studies; Professor J. Freedman, Anthropology; Professor F.L. Holmes, History of Medicine and Science; Dr. I.R. McWhinney, Family Medicine; Professor B.D. Sanwal, Biochemistry; Professor J.M. Wanklin, Epidemiology and Preventive Medicine; Dr. D.E. Zarfes, Psychiatry.

Other senior appointments made during the year included the following: Professor A.M. Marti, Assistant Provost, July 1, 1977, to June 30, 1980; Professor J.L. Stouffer, Director, Program in Communicative Disorders, July 1, 1977, to June 30, 1980; Mr. G. Harris, Deputy Registrar; Mr. Harold Horwood, Writer-in-Residence for the 1976-77 academic year; Mr. Walter Redinger, Resident Artist for the 1976-77 academic year; Mr. O.A. Greiner, Coordinator, Centennial Year Projects.

Senior appointments were made at our affiliated colleges. Sister Dolores Kuntz was appointed Principal of Brescia College, effective June 1, 1977, to succeed Sister Frances Ryan. On July 1, 1977, Reverend D.F. Irvine became Dean of the Faculty of Theology at Huron College, and in March, 1977, Professor J.D. Morgan was appointed Principal of King's College.

On July 1, 1976, Mr. J. Allyn Taylor became Chancellor of the University, succeeding The Honourable J.P. Robarts. Chancellor Taylor has a distinguished record of service to Western as a member of the Board of Governors from February, 1966, until January, 1975. We are indeed fortunate that he has agreed to serve our institution once again in this new capacity.

Among the changes which have occurred during the past decade, have been those brought about by The University of Western Ontario Act, 1967, and its successor, The University of Western Ontario Act, 1974. The new philosophy of governance was a challenge to the members of the Board of Governors. With imagination and good will, the Boards of the day met this challenge, opened the meetings to the press and public, and, as a result of their acceptance of change, won renewed respect in the campus community. The Board of Governors has continued to provide able and energetic leadership and the advice of the individual members has been a great help to me during my term of office. My thanks goes to each member of the 1976-77 Board. During the current year the following changes in Board membership took place: The Alumni Association acclaimed Mr. W. Jenkins as its representative to succeed Mr. G. Whitehead for a term beginning July 1, 1976, to June 30, 1980. During elections in October, Professor W.C. Watson, Faculty of Medicine, was elected by the faculty-at-large constituency for a four-year term replacing Professor T.J. Collins. Mr. J.B. Brosseau was elected by the graduate student constituency for a two-year term, replacing Mr. W.K. Heagy. Both Mr. R.J. Metras and Mr. G. Tyndall were re-elected by their respective constituencies. The Lieutenant-Governor in Council reappointed Mrs. J. Skippon to a four-year term commencing November 16, 1976, and Warden W. Galbraith of Middlesex County became an ex officio member of the Board in January, 1977. Also in January, Mr. G.L. Bowie was appointed by the City of London for a four-year term to replace Mr. F.A. Ross, and Dr. A.B. Conron was the unanimous choice of the Board to succeed Mr. R.M. Ivey as Vice-Chairman. In May, Professor I.K. Steele resigned prior to his departure on sabbatical leave and Senate elected Professor A.M.J. Hyatt to complete the term which ends November 14, 1977. At the June 24 meeting of the Board, Mrs. W.R. Poole was re-elected for a term of four years ending on June 30, 1981.

As Chairman of Senate, I wish to thank all of the members of that body for their commitment to the ideal of participatory government. Election to Senate is an honour but it is also a responsibility which requires many hours of dedicated service. My particular thanks go to those who served as chairmen of the major committees: Admissions and Academic Programs Policy, Professors P.F. Neary and G. Milburn; Appeals, Professor D.L. Johnston; Budget and Finance, Professor K.H. Burley; Convocation, Dr. W.J. Dunn; Nominating, Professor A.M. Wellman; Operations/Agenda, Professor D.E. Gerber; Promotion and Tenure, Professor G.L. Reuber; Review Board (Academic), Professor A.M.J. Hyatt; University Development, Professor J.A.B. Somerset.

A number of Western's faculty members have been singled out for special recognition. Professor H.I. Battle, Department of Zoology, received the F.E.J. Fry Gold Medal from the Canadian Society of Zoologists in recognition of her outstanding contribution to her discipline. Professor Battle also received the J.C.B. Grant Award of the Canadian Association of Anatomists for her contributions to the study of anatomy. Dr. C.G. Drake, Department of Surgery, was appointed the Sir Arthur Sims Commonwealth Travelling Professor for 1978 by the Royal College of Surgeons of England. Professor D. Fahselt, Department of Plant Sciences, was given the Cooley Award by the American Society of Plant Taxonomists for the best paper presented at the annual meeting of the Society. Professor P.C. Fitz-James, Department of Bacteriology and Immunology, is the 1977 recipient of the Canadian

Society of Microbiologists Award presented annually for outstanding scientific work in microbiology. Professor C.F. Grindstaff, Department of Sociology, was made a Senior Fellow by the East-West Population Institute for research in the field of population. Professor M. Locke, Department of Zoology, was awarded a Doctorate of Science from the University of Cambridge, England, for his outstanding work on the cell biology of insect development. Professor R.R. Martin, Department of Chemistry, was one of four academics who shared the Bell Northern Research Award for excellence in use of the media. Professor H.J. McLean, Faculty of Music, was elected a Fellow of the Royal Society of Canada. Professor P.F. Neary, Department of History, was awarded a Canadian Studies Fellowship by the Department of External Affairs in recognition of his scholarly reputation. Professor R.B. Philp, Department of Pharmacology, was named the first Canadian winner of the Stover-Link Award for undersea biomedical research. Professor Z. Pylyshyn, Department of Psychology, was awarded a Travel Fellowship by the Nuffield Foundation. Professor R.A. Skelton, Faculty of Music, received an Honorary Music Doctorate from Indiana University. President D.C. Williams was awarded honorary doctorates by both the University of Windsor and the University of Toronto, in recognition of his distinguished career and leadership in the Ontario university system. Professor J.E. Zajic, Faculty of Engineering Science, was the first winner of the John Labatt Award for outstanding achievements in chemical research. Professor M. Zaslow, Department of History, was elected a Fellow of the Royal Society of Canada. Professor Zaslow also received the Cruikshank Gold Medal from the Ontario Historical Society.

The Canadian Commonwealth Scholarship and Fellowship Committee awarded scholarships to the following Western students. P. Blackwell, Department of History; N. Groenewold, Department of Economics; B. Hovius, Faculty of Law; N.J. Kurian, Department of Economics. D.L. Haskett, a student in the Faculty of Law, was awarded a Rotary Foundation Graduate Fellowship, and J.C. Roder, a graduate student in Bacteriology and Immunology, was the first Western student to be awarded a Canada Council Research Scholarship under the Killam Program.

A great many members of faculty and staff of this University give of their time and effort to various societies relating to their disciplines and to other worthwhile organizations, local, national and international. Many serve in an executive capacity. During the past year, the following members of the University community have been elected or appointed as noted: Professor F.H. Armstrong, Department of History, elected Vice-President of the Ontario Historical Society; Professor P. Cassano, Department of French, elected 1977-78 Chairman of the Ontario Confederation of University Faculty Associations; Professor L.D. DiStefano, Brescia College, elected Vice-President of the Society for the Study of Architecture in Canada; Professor L.H. Forsyth, elected member-at-large of the executive of the Ontario Confederation of University Faculty Associations; Professor J.W. Graham, Department of English, appointed Chairman of the Queen Elizabeth II Ontario Scholarships Selection Committee; Dr. A.J. Harris, Department of Oral Surgery, elected President of the Ontario Dental Association; Mr. E. Heakes, student, Faculty of Law, named to the Ontario Premier's Advisory Committee on Confederation; Dr. G.F.D. Heseltine, Department of Psychiatry, appointed Chairman of the Advisory Board for the Ontario Mental Health Foundation; Professor A.M.J. Hyatt, Department of History, elected Vice-Chairman of the

Academic Freedom and Tenure Committee of the Canadian Association of University Teachers; Professor R.M. Immerwahr, Department of German, appointed a member of the executive committee of the International Association for Germanistics; Mr. L.T. Moore, Director of University Relations and Information, elected a Vice-President of Big Brothers of Canada; N. Sanders, student, Department of History, appointed to the Ontario Council of University Affairs, the only student on the twenty-member advisory body; Professor G.L. Reuber, Department of Economics, reappointed Chairman of the Ontario Economic Council; Mr. R.B. Totten, Department of Personnel, elected President of the Council of Canadian Personnel Associations for 1976-77; President D.C. Williams, appointed Chairman of the Royal Commission on Freedom of Information and Individual Privacy; Professor H.R. Wilson, Department of English, appointed Executive Secretary of the American Dialect Society.

To end my last report as the President of The University of Western Ontario, I would like to thank a small group of people who have given outstanding and dedicated leadership to their respective organizations. Through the year, I have been helped and encouraged in my task by their frankness and understanding. To Professor A.G. Heinicke, Chairman of the Faculty Association, Ms. M. O'Grady, President of the University Students' Council, Mr. H.A. Welland, President of the Staff Association, and Mr. G.A. Whitehead, President of the Alumni Association, thank you for the many hours of diligent service you have each given to your organizations and to the community which is The University of Western Ontario.

During the 1976-77 academic year, The University of Western Ontario conferred honorary degrees on the following distinguished people:

SPRING CONVOCATION, 1977

Walter Juxon Blackburn	Doctor of Laws
Muriel McQueen Fergusson	Doctor of Laws
Herbert Henry Jasper	Doctor of Science
John Barfoot Macdonald	Doctor of Laws
Leola Ellen Neal	Doctor of Laws
Mitchell William Sharp	Doctor of Laws
Ernest Sirluck	Doctor of Letters
William Elgin Swinton	Doctor of Letters
John Gordon Thompson	Doctor of Laws
Orlando Harold Warwick	Doctor of Laws

AN ABBREVIATED CHRONOLOGY
1976-77

JULY/Nineteen Hundred and Seventy-Six

Senate approves experimental Indian Teacher Education Program (ITEP) for the fall of 1976.

The Canada - U.S. Law Institute is established jointly with Case Western Reserve University, Cleveland, Ohio, to study legal problems of mutual interest to the two countries.

AUGUST

Inaugural Senior University Administrator's course, offered in cooperation with the Association of Universities and Colleges of Canada and the Canadian Association of University Business Officers, is held at Western's School of Business Administration.

Western is host to one hundred and seventy scientists at the first-ever international discussion of the practical uses of photochemically converting the sun's energy into fuel and electricity.

U.W.O. archaeologists, under the direction of Professor W. Finlayson, uncover Indian artifacts at the Southwold pre-historic earthworks site which shed new light on the little-known Neutral Indians.

SEPTEMBER

Western's telemedicine experiment linking the University with Moose Factory General Hospital and Kashechewan Nursing Station on James Bay is tested. X-rays and ultra-sound images are transmitted via Canada's new Communications Technology Satellite.

Four thousand freshmen register for the 1976-77 academic year.

 OCTOBER

Senate votes unanimously to establish new Faculty of Part-Time and Continuing Education, effective July 1, 1977.

Western holds 221st Convocation at which 1,244 people graduate.

J. Allyn Taylor installed as twelfth Chancellor of The University of Western Ontario.

The University Students' Council sponsors "Visible Women" workshop series in the fields of law, business, medicine, the media, the arts and education.

 NOVEMBER

William F. Buckley, Jr. delivers the 1977 Gillette Lecture. Topic: "The Problems of Freedom".

The Faculty of Engineering Science sponsors a seminar on "Women in Engineering". Professor Dormer Ellis is guest speaker.

 DECEMBER

George E. Connell is selected as President to succeed D. Carlton Williams, effective July 1, 1977.

 JANUARY/Nineteen Hundred and Seventy-Seven

R. Winks is the 1977 Joanne Goodman Lecturer. Topic: "The Relevance of Canadian History: U.S. and Imperial Perspectives".

 FEBRUARY

Western is host for the fifth annual Winter Special Olympics. Three hundred and fifty mentally handicapped youngsters from London and area participate.

A special service is held at London's Christ Church to commemorate the historic meeting one hundred years ago which led to the establishment of the University.

MARCH

Western celebrates its 99th birthday, March 7.

A basic operating budget of \$88.2 million for 1977-78 is approved by the Senate and by the Board of Governors.

APRIL

Western wins London Chamber of Commerce Award of Excellence for its 1976 energy conservation program.

U.W.O. is host and co-sponsor of the 7th Annual London District Science and Technology Fair.

Annual University Assembly hears a panel discussion on "The University and the Schools: Views Across an Interface".

MAY

New Western Day Care Centre facility is officially opened.

JUNE

The Department of Clinical Neurological Sciences is awarded \$4.3 million grant to conduct a multi-national study to determine the efficacy of extra-cranial anastomoses in the prevention of stroke.

Over 2,600 students graduate at Western's 222nd Convocation.

REPORT OF THE ACTING VICE-PRESIDENT HEALTH SCIENCES

Dr. D. Bocking

The Health Science Faculties record with gratitude the leadership which Dr. D.C. Williams has given as President and Vice-Chancellor of the University during the past ten years. The appointment of Dr. G.E. Connell as President and Vice-Chancellor effective July 1st, 1977 ushers in a new era. Dr. Connell has had a distinguished career in Biochemistry and administration at the University of Toronto. He has accepted an appointment as Professor in the Department of Biochemistry at Western.

The Health Sciences are pleased that Dr. O.H. Warwick, former Dean of Medicine and the first Vice-President Health Sciences, was the recipient of an honorary LL.D. at Convocation on June 10th, 1977.

During 1976-77, Dr. D. Bocking, Dean of Medicine, served as Acting Vice-President Health Sciences.

During a year of budgetary consolidation, the Departments and Programs continued to maintain a high standard of excellence in teaching and research. The Departments of Anatomy, Bacteriology & Immunology, Biochemistry, Biophysics, Pharmacology, and Physiology were involved in the external review of the Life Science Programs of the Faculty of Science. Additional external reviews of the Departments of Anatomy and Biophysics were conducted in conjunction with the search for new Chairmen of both Departments. In addition to their undergraduate, graduate, and postgraduate programs, each of the Health Science Faculties offered an extensive Continuing Education Program. The Faculties collaborated on a very successful interdisciplinary conference on Ageing. During the spring, a cardio-pulmonary resuscitation training program was instituted on an elective basis for health science students, faculty, and staff. It is planned to make this program available to all health science students on a regular basis beginning in 1977-78.

During the year, the total research budget for the health science faculties amounted to over 7 million dollars. The Health Sciences Research Committee, which co-ordinates the research activities of the health science faculties, had an active year. In the fall, the Report of the Task Force on Health Research Requirements (Petch Report) of the Ontario Ministry of Health was received. A response was submitted on behalf of the London Health Sciences Complex. In the spring, the Minister of Health announced the Provincial Lottery Program for Health Research, in which priorities were to be given to environmental and occupational health research, and research in health care services. Funding guidelines for major equipment and replacement of obsolete equipment, were received in addition to the announcement of the award of two health research scientist positions for each of the Provincial Health Science Centres.

The resignation of Dr. J.I. Williams as Director of the Health Care Research Unit effective December 31st, 1976 was received with regret. Professor J.

Turner of the Department of Sociology has accepted the appointment as Director of the Unit effective July 1st, 1977. This Unit works closely with the faculty members interested in health care research and with the Thames Valley District Health Council.

In September 1976, the first meeting of the London Chapter of the Canadians for Health Research was held. The primary purpose of this organization is to enlist public support for improved funding for health research in Canada.

In January 1977, Miss Ann Seheult moved to a new position in the Health Sciences Library, and Mr. Larry Lewis was appointed Librarian-in-Charge of the Health Sciences Library. The services which Miss Seheult has rendered as Librarian-in-Charge for the past eleven years are acknowledged with sincere appreciation. During the year, the Health Sciences Library Committee became involved with discussions on the proposed amalgamation of the Health Sciences Library with the Natural Sciences Library.

In November 1976, an ad hoc Committee on Occupational and Environmental Health was established to explore the academic, service, and research interests in these fields. Dr. R.A. Goyer was appointed Chairman of the Committee. In the spring of 1977, the President appointed a University Biohazards Committee to consider the Medical Research Council Guidelines for the Handling of Recombinant DNA Molecules and Animal Viruses and Cells. Dr. D. Bocking was appointed Chairman of the Committee and Dr. J.A. McCarter was named the University Biohazards Consultant.

In June 1977, Victoria Hospital and Westminster Hospital received word from the Provincial and Federal Ministries involved that amalgamation of the two institutions would become effective on October 3rd, 1977. Victoria Hospital is heavily engaged in planning for the move to the Westminster Hospital site. For more than thirty years, the University has enjoyed the fullest co-operation from Westminster Hospital. Sincere appreciation is expressed for this collaborative affiliation.

DENTISTRY

During the year, the Faculty of Dentistry devoted considerable time to a review of its undergraduate dental curriculum. Approval was given to the implementation of a revised curriculum effective September 1977 for the first year of dentistry. The revision introduces a *diagonal* structure to the curriculum with earlier exposure of first year students to the clinical environment.

The proposal for a graduate program in periodontics received the initial approval of the Faculty of Graduate Studies and was referred to the Ontario Council on Graduate Studies for external review.

During the year, the Faculty sponsored an education workshop in which thirty-six participants discussed topics of the lecture, clinical instruction, and clinical investigation.

The Faculty entered the second year of a three-year exchange program with the

Facultad Odontologia of the Universidad de Antioquia, Colombia with four faculty members from each institution being involved in the exchange this year.

MEDICINE

On Homecoming Weekend 1976, the Faculty of Medicine held a reception for Mr. William Byles in recognition of fifty years of employment at the University. Mr. Byles served as a technician in the Department of Physiology beginning in 1926. Following his retirement from the Department of Physiology, he has continued to work in the Office of the Dean of Medicine. Contributions from his many friends resulted in the establishment of the William A. Byles Bursary for deserving medical students. Mr. Byles was also honored at the Alumni Awards dinner when he was made an honorary life member of the Alumni Association and received the Alumni Award of Merit.

In May 1977, a follow-up review of the new curriculum was conducted by a survey team appointed by the Liaison Committee on Medical Education. The reviewers indicated satisfaction with the fourth year of the new undergraduate medical curriculum. During the year, the Programs in Communicative Disorders and Occupational Therapy received Senate approval for modest revisions to their curricula. Approval was received from The Royal College of Physicians and Surgeons of Canada for new specialty training programs in Chest Diseases, Emergency Medicine, Geriatrics, and Nuclear Medicine.

During the year, in the process of the selection of a new Chairman of the Department of Epidemiology & Preventive Medicine, an external review of that Department was conducted. An external review of the Hannah Chair for the History of Medical and Related Sciences was also carried out. This resulted in a recommendation for continued funding of the Hannah Chair and an expression of satisfaction with the present direction of the Chair. The proposal of the Department of the History of Medicine and Science for an M.A. program has undergone an external appraisal by the Ontario Council of Graduate Studies.

The Department of Family Medicine's proposal for a Master of Clinical Science program was approved by the University and the Ontario Council on Graduate Studies. The program is supported by a W.K. Kellogg Foundation grant in the amount of \$328,500. Dr. M. Bass was appointed Director of the graduate program effective April 1st, 1977. The plans for the North East London Health Centre were altered and plans are now proceeding for a Centre in Byron utilizing the established practices of two members of the Department of Family Medicine. This Centre will be under the administrative aegis of Victoria Hospital.

All Departments and Programs in the Faculty of Medicine continued to conduct active research programs. Of note was the award of a five-year Medical Research Council grant totalling almost \$500,000 to Dr. D.T. Armstrong, an MRC Associate in the Departments of Obstetrics & Gynaecology and of Physiology. In June 1977, the Department of Clinical Neurological Sciences was awarded a five-year \$4.3 million grant from the National Institutes of Health to conduct

a multi-national study to determine the efficacy of extracranial-intracranial anastomoses in the preventive of stroke. This is a five-year clinical trial involving 27 universities and medical centres in Canada, United States, Holland, and Britain. Dr. H.J.M. Barnett is the Principal Investigator and Dr. S.J. Peerless is the Co-Investigator, who will perform the surgical procedures in London. Dr. David Sackett and his colleagues at McMaster University will co-ordinate the data analysis and statistics for the study.

In June 1977, the Radiological Research facilities in the Health Sciences Animal Quarters were completed and the Laboratory officially opened.

During a nineteen-week period from November 1976 to March 1977, the University of Western Ontario Telemedicine experiment, utilizing the Communications Technology Satellite, was successfully completed, under the direction of Dr. L.S. Carey, Chairman of the Department of Diagnostic Radiology and Nuclear Medicine, and Dr. E.S. Russell of the Department of Anaesthesia. In this program, a total of over 1,000 medical, technical, and administrative tele-consultations were conducted with Moose Factory involving a large number of physicians, nursing staff, and other professionals at the University Hospital.

During the year, members of faculty were actively involved with serving on various committees of the Thames Valley District Health Council. The planning for a Southwestern Ontario Regional Rehabilitation Centre moved forward with the establishment of an Inter-district Health Council Committee to advise the Ministry of Health on the co-ordination and integration of rehabilitation programs in Southwestern Ontario.

NURSING

The resignation of Dr. M.J. Flaherty as Dean of Nursing effective August 31st, 1977 was received with regret. Dean Flaherty has accepted an appointment as Principal Nursing Officer with Health and Welfare Canada. During her four years as Dean, the Faculty of Nursing conducted extensive reviews of its undergraduate and graduate programs, as well as its research activities. Professor D. Hibbert has been appointed Acting Dean of the Faculty of Nursing.

During the year, the Faculty of Nursing has conducted a study of a conceptual model for nursing in association with a review of the Baccalaureate and Master's programs. The Faculty of Nursing collaborated with the Faculty of Medicine in the Northern Nurse Program sponsored by the Medical Services Branch of the Ministry of Indian and Northern Affairs.

The Faculty of Nursing continues to concentrate on enhancing the research capability of its faculty members.

The Faculty of Nursing has collaborated through Health and Welfare Canada with the nursing program at the University of Havana in Cuba.

APPRECIATION

The Health Science Faculties wish to record their appreciation for the excellent co-operation enjoyed with many teaching hospitals, institutions, and agencies which provide the setting for clinical experience for students in the Health Sciences.

REPORT OF THE REGISTRAR

D. A. CHAMBERS

The academic year 1976-77 was one of consolidation during which plans and programs earlier initiated were brought to fruition. Significant among such programs and plans have been the centralization of much of the work of the Law Admissions Committee, the re-organization of the Registrar's section within the Faculty of Education, the further organizational refinement of the Office of the Registrar, the provision of improved information services to Faculties, the implementation of additional programs through the Secondary School Liaison Office and revised budgetary responsibilities.

Law Admissions

Procedures and policies governing the orderly processing of applications to the Faculty of Law were developed by a committee having membership from Law, DIAS and the Registrar's Office. Procedures and Policies modelled upon those in effect for Medical Admissions were adopted and were implemented. Under the new format the Faculty of Law defines the several applicant categories that they wish to employ, the Office of the Registrar identifies each applicant by category and rank orders applicants within each category. Admission decisions are then made by the Admissions Committee of the Faculty of Law.

Registrar's Section: Faculty of Education

A detailed analysis and review of the Registrar's Section in the Faculty of Education was conducted. A number of complex responsibilities associated with the requirements of the Ministry of Education were identified which require the maintenance of the office in the Faculty of Education.

In order, however, to improve service to the Faculty of Education a number of procedures have been revised and changes in staffing have been introduced.

Office of The Registrar

The promotion of Mr. Glenn Harris to Deputy Registrar facilitated the co-ordination of the various components of the Office of the Registrar. Admissions, Records, Data Control, Information and the Registrar's Section in the Faculty of Education are now interacting units under one officer. This arrangement augers well for the future permitting as it does co-ordinated planning and staffing flexibility.

Information Service To Faculties

Following discussions with the Deans and with the approval of the Vice-President (Academic) an improved information service to Deans' Offices has been instituted. The teleprocessing facilities of each of the Deans of Arts, Science and Social Science have been up-graded by the installation of video terminals and printers. Video terminals have been provided also to the Office of Student Awards and to the Deans of Engineering Science, Law, Music Physical Education and provision has been made for terminal support to the Faculty of Education and for the up-grading of the terminals held by the Affiliated Colleges.

Secondary School Liaison Program

The Secondary School Liaison Program received strong support from the Secondary School Liaison Panel under the Chairmanship of Dr. T. N. Guinsburg and utilized the active services of a growing number of Faculty members. A detailed report of the work of this section is appended.

Budget

The budget supporting calendar production has been placed under the control of the Registrar. This action should provide for greater accountability in the use of these funds articulating as it does with the work of Calendar production in this office under the Editor, Mrs. E. S. Isaacs.

A further budget transfer has also been made transferring funds supporting the University's display at Western Fair. These funds have been incorporated into a unit budget established within the Registrar's Office for the Secondary School Liaison Unit.

Personnel

A number of personnel changes occurred during 1976-77. Mr. W. G. Nediger resigned as Registrar and returned to teaching in the Faculty of Education. D. A. Chambers took up his appointment as Registrar on July 1, 1976. Mr. J. W. T. Wilgar resigned as Associate Registrar (Admissions) in December, 1976 and was appointed Registrar at Wilfrid Laurier University on January 1, 1977. Mr. Glenn Harris, Associate Registrar (Records and Systems) was promoted to Deputy Registrar January 1, 1977.

With the transfer of our earlier responsibilities for Scholarships and Awards to Student Services, Mr. Russell Murray transferred from this office to the Office of Student Awards.

The desire of the Senate Office to assume responsibility in 1977 for Convocation was cheerfully accommodated by this Office.

Admissions

The University of Western Ontario has experienced some difficulty in maintaining its planned number of admissions to first year. In order more fully to meet the challenges in this area careful attention has been paid to the text of all letters sent to student applicants, increased resources have been committed to recruitment activities and closer co-operation is being attempted with Postal authorities.

Student Counts

Commencing in 1976 the Ministry of Colleges and Universities instituted a new student reporting system. Under the revised system student registrations are counted on November 1 and again on February 1. The format also includes specifications covering course registrations with BIU claims being adjusted by student course registrations.

Our request to impute enrolments for second year Business Administration, first year Communicative Disorders, and first year Physical Therapy was approved by the Ministry. The effect of this approval will be to increase the BIU revenue of the University by approximately \$90,000 per year.

SECONDARY SCHOOL LIAISON

Report of Activities from

July 1, 1976 to June 30, 1977

The activities of the Office of Secondary School Liaison may be roughly broken down into four (4) main areas:

- (a) The University Information Program (U.I.P.);
- (b) Local Liaison;
- (c) The Auxiliary Secondary School Liaison Program;
- (d) On campus tours.

(a) University Information Program

This is a cooperative Secondary School visitation program involving the seventeen (17) degree granting institutions in Ontario. This program covered a period of fourteen weeks (14) from September 20 to January 13. In this period of time, we were able to reach most areas in Ontario and we were able to address approximately nine thousand (9,000) Year 4 and Year 5 students.

(b) Local Liaison

This program was directed at the one hundred and fifty-four (154) Secondary Schools in the seventeen counties in Southern Ontario. This program was a University of Western Ontario representation only, quite outside of the U.I.P. Here we were able to meet with approximately three thousand (3,000) students over a period extending from October 4 to December 10.

At the same time, as we were conducting our Local Liaison program, two (2) representatives of the Secondary School Liaison Office visited the English Language Private Schools and CGEP's in Quebec and met with approximately one hundred and fifty (150) students.

(c) Auxiliary Secondary School Liaison

A new program was instituted this past year for the period of March 7, 1977 to May 25, 1977. This program, under the auspices of the Secondary School Liaison Panel and the Office of the President, was designed to meet with those students who had indicated Western as a first, second, or third choice on their application to the Guelph centre. Members of the Secondary School Liaison Office and the Faculty visited approximately thirty (30) centres in Ontario and Quebec and met with approximately fifteen hundred (1,500) students and two hundred (200) parents.

This program was unique in respect to its format in as much as the meetings took place in various motels and hotels in the centres indicated and not, as is usually the case, in the Secondary Schools.

If I may be permitted, I would strongly recommend that this program be continued for next year.

(d) On Campus Tours

Under the able leadership of Miss Ruth Ann Rappini, eleven (11) upper-classmen were responsible for conducting on campus tours for groups of Secondary School students who either, on their own or through arrangements made by their Guidance Offices, visited Western's campus. The program ran from October 1 to March 28 and in that period one hundred and eighty-five tours were conducted for approximately twenty-six hundred (2,600) students with the heaviest concentration during November.

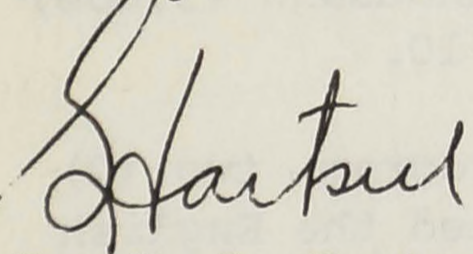
For the 1977-1978 academic year, it is hoped that this phase of our operation may be strengthened by formalizing a training program (8 to 10 hours) for all tour guides with the assistance and cooperation of the Personnel Office.

General Remarks

The Office of Secondary School Liaison was fortunate in obtaining the services and experience of Mrs. Carol Westcott who joined our staff in mid-October. In addition, my personal thanks to Mr. Gerry Roberts whose experience in the Secondary Schools once again proved to be invaluable.

The Secondary School Liaison Office at Western is unique in the Ontario University system in as much as it has the assistance and advice of the Secondary School Liaison Panel under the Chairmanship of Dr. T. Guinsburg. My thanks to all its members.

In conclusion, I would like to mention that Western, in its Centennial Year, will be hosting, May 10, 11 and 12, the annual Guidance Conference, Dialogue '78. It is anticipated that between six and seven hundred Guidance teachers and University personnel will be "on campus" for Dialogue '78.



Mr. G. L. Hartsell
Associate Registrar
Secondary School Liaison

GLH:cps

Report of the Dean
Faculty of Graduate Studies
Professor H.B. Stewart

The staff of the Faculty of Graduate Studies has not changed during the year of 1976-77. The three-year term of Dr J.A.B. Somerset as Assistant Dean, Humanities and Social Sciences, was completed on July 1, 1977. I am happy to report that Dr Somerset has signified a willingness to undertake another three-year term.

REGISTRATION

The moderate growth experienced in the previous two years has declined to a net increase of twenty-eight students in 1976-77 (Table I). Doctoral enrolment rose very slightly but there was a larger number of part-time doctoral students. These data were accompanied by a small rise (25) in full-time master's students and a decrease of 60 in part-time master's candidates. The Full-Time Equivalent enrolment overall decreased by 2.8 in a total of 1,792.9 (Table II).

DEGREES CONFERRED

In 1976-77 a record number of 782 graduate degrees were conferred of which 701 were master's degrees and 81 were doctoral (Table III). The trend towards an increase in the number of master's degrees granted noted in last year's report has continued but the decline in the number of doctoral graduands appears to have stabilized. A detailed statement of degrees awarded accompanied by a comparison with recent past performance is to be found in Table IV.

FEES

As of January 1, 1977, visa students were required by the Ministry of Colleges and Universities (MCU) to pay a tuition fee of \$750 per term although the Board of Governors has agreed to grant a three hundred dollar bursary comparable to that given to other students enrolled for three consecutive terms. Thus, the annual fee for visa students is \$1,950. During the academic year, MCU has also announced a rise of \$150 per annum for three-term Canadian and Landed Immigrant students and, accordingly, their annual tuition fee (after crediting the bursary noted above) is \$750.

Both the Senate and the Board of Governors have expressed dissatisfaction with the discriminatory fee directed against visa students. The consequence has been the establishment of a bursary scheme (based on academic merit) for visa graduate students. The scheme seeks to offset the fee differential suffered by visa graduate students.

GRADUATE STUDENT SUPPORT

1. Ontario Graduate Scholarships

As noted in last year's report, this program continues to meet many needs in graduate study but, in spite of representations, it fails to publish generalised rules regarding renewal of awards and virtually excludes visa students. The discontinuance of the institutional quota in the larger institutions has simplified the administration of the awards. The University has received 88 awards for the 1977-78 academic year compared to 81 in the previous year and it appears that this level is now reasonably stable.

2. National Research Council

The total number of awards for 1977-78 is comparable to the number of awards granted for the previous three years, although it is perhaps noteworthy that a larger number of renewals for a third or fourth year have appeared this year and a correspondingly smaller number of first awards have been granted.

3. Canada Council

The number of Canada Council awards remains unpredictable and these awards are, accordingly, a less reliable form of support than that enjoyed from other agencies. The number of awards for the forthcoming year are comparable to those of last year, and perhaps encouragingly, there are slightly more new awards.

4. Special Teaching Assistantships and Scholarships

This component of student support has remained an extremely valuable supplement to the departmental teaching assistantships (which reside in individual faculty budgets). The increase in allocation to Special Assistantships and Scholarships noted last year was sufficient to meet the demands made. The recruiting efforts of the departments rest on a much more secure base as a consequence of these funds.

GRADUATE STUDENT INCOME

In spite of gradually rising stipends, the income of graduate students remains very low relative to other groups in society. The COU survey of student income until last year permitted the comparison of stipends paid in various provincial universities. At that time, the position of this University, while not leading the group, was competitive. The current support levels are shown in Tables V and VI. The data in Table V suggest a small decline from previous levels but when the data is cleaned of distortions produced by one- and two-year students, the data indicate no significant difference in income

between 1974-75 and 1975-76 (the last year on which complete data is available). (Table VI) This failure to grow is disturbing when it is remembered that inflation has not been stationary in that period.

DISCIPLINE ASSESSMENT

As noted in last year's report, the MCU has indicated a degree of dissatisfaction with the discipline assessments carried out under procedures established some years ago by OCGS and the Advisory Committee on Academic Planning (ACAP). In response, COU has, through its agency OCGS and its subcommittees, the Appraisals Committee and ACAP, developed a modified discipline assessment procedure. The essence of this procedure is that appraisal in depth of each individual program precedes the development of a provincial plan. It would seem likely that this new procedure may allay some of the criticisms which previously arose from the universities, but it remains to be seen whether it will meet the expectations of OCUA and MCU. In any case, COU has agreed that the procedure should be tested on the small assessment of Social Work in the forthcoming year. The assessment of Psychology, already initiated, will proceed under the pre-existing regulations.

The current state of full assessments (with external consultants) and partial assessments (without external consultants) is outlined in Tables VII (a) and (b). (In the compilation, the term "embargo" has been dropped, since its relevance at this time is questionable.)

NEW PROGRAMS

During the last twelve months, the doctoral program in Demography based on the Department of Sociology and the Master's Program in Family Medicine have been approved by the Appraisals Committee and OCGS. The doctoral program in Exercise Studies based on the Faculty of Physical Education and the Master's programs in Anthropology, the History of Medicine and Science and Periodontics have been submitted to the provincial Appraisals Committee and are in the process of evaluation. All of these programs have received planning approval from ACAP.

The doctoral program in Music Education, which has received planning approval from ACAP, is in the hands of the Internal Appraisals Committee of the Faculty of Graduate Studies. A doctoral program in the Social Science of Sport and a master's program in Art History and Criticism are in earlier stages of evaluation.

None of the above programs has received final approval from COU, although they should receive consideration in the autumn of 1977. All of these programs will eventually require the review of OCUA. In the past, approval by OCUA has been perfunctory but we are assured that in the future a searching evaluation of each submission will be made.

In accordance with the requirements of OCGS and ACAP, the doctoral program in Political Science has been reviewed and approved for a further five-year period, and the program in Theoretical Physics has been submitted to the Appraisals Committee and a decision is awaited. Re-examination of the program in Orthodontics and the program in Journalism is currently before the Appraisals Committee.

GENERAL COMMENTS

The suspension of formula financing of graduate programs (OCUA 75-9) and the corresponding failure of the Ontario Council on University Affairs (OCUA) to approve new programs has continued. During this period, the Council of Ontario Universities (COU) has sanctioned the initiation and continuance of programs successfully appraised or reappraised by the Ontario Council on Graduate Studies (OCGS). The suspension of earlier funding procedures and the substitution of a fixed grant (based on the income derived from the enrolment in 1975-76) with annual increments purported to offset inflation will continue for at least three years and it is anticipated that a revised funding mechanism will be instituted on May 1, 1979.

The future of graduate training in the universities is becoming increasingly uncertain and insecure. A number of factors contribute to this situation: (i) The pressure on faculty (particularly in certain parts of the university) to pursue personal scholarly activity to ensure their own academic future has mitigated the enthusiasm for supervision of independent scholarly ventures by graduate students. (ii) The scarcity of research support and the increasing restrictions imposed on this support have reduced the funds available for graduate student activity. The emphasis placed on contract-based research also may be prejudicial to good graduate training. (iii) The preoccupation of both federal and provincial agencies with introducing obstacles in the path of visa students cannot fail to contribute to isolation of the university from the international scene and, accordingly, from contemporary scholarship. (iv) Finally, the great desire of the provincial government and its agencies to "rationalise" graduate study, in a fashion which suits its conception of efficiency (ostensibly based on ill-defined grounds of economy) puts a strain on the system, measured in terms of time, money and anxiety. The consumption of resources and the effort being urged on the system are not yielding benefits commensurate with the expenditure either in achieving an improvement of individual programs or the acquisition of some theoretical image. Because the Canadian community is dependent upon its universities for the generation of the professional, intellectual and political leaders of the future, the conscious starvation and distortion of these institutions which has occurred in the wake of economic adversity can be expected to have consequences which extend well beyond the immediate difficulties being experienced. The paramount need of Ontario graduate schools for a stable policy and a defined course of action becomes increasingly evident as insecurity and indecision are prolonged and uncertainty mounts.

TABLE I

ANNUAL REGISTRATION

<u>FULL-TIME</u>	<u>1972-73</u>	<u>1973-74</u>	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>
Arts	147	162	162	170	161
Biosciences	240	283	311	354	343
Physical Sciences	255	246	251	269	266
Social Sciences	756	805	868	840	855
TOTAL	1,398	1,496	1,592	1,633	1,625
<hr/>					
<u>PART-TIME</u>					
Arts	73	57	57	60	65
Biosciences	95	91	73	90	98
Physical Sciences	107	107	132	109	74
Social Sciences	215	177	160	274	332
TOTAL	490	432	422	533	569
<hr/>					
GRAND TOTAL	1,888	1,928	2,014	2,166	2,194
<hr/>					
% change over previous year	-0.05	+2.11	+4.46	+7.55	+1.3
% part-time	25.9	22.4	20.9	24.6	26.
% part-time excluding MBA's	33.4	29.1	26.9	30.8	32.7

TABLE II

FACULTY OF GRADUATE STUDIES
1976 FALL TERM REGISTRATION FIGURES
 (November 1, 1976)

	MASTERS LEVEL		DOCTORAL LEVEL		TOTAL	(1975)*
	F.T.	P.T.	F.T.	P.T.		
<u>ARTS DIVISION</u>						
Classics	0	1	--	--	1	(1)
English	19	16	32	10	77	(91)
English & French	3	0	--	--	3	(1)
French	9	2	8	12	31	(28)
German	5	2	--	--	7	(6)
Music	34	13	--	--	47	(34)
Philosophy	13	1	31	8	53	(62)
Spanish	7	0	--	--	7	(7)
Subtotal	90	35	71	30	226	(230)
<u>BIOSCIENCES DIVISION</u>						
Anatomy	11	1	2	2	16	(19)
Bacteriology & Imm.	19	0	8	0	27	(18)
Biochemistry	17	3	23	1	44	(42)
Biophysics	5	2	10	1	18	(20)
Communicative Dir.	23	3	--	--	26	(21)
Epidemiology	2	1	11	5	19	(14)
Orthodontics	6	0	--	--	6	(7)
Pathology	3	0	2	0	5	(2)
Pharmacology	8	3	9	1	21	(17)
Physical Education	29	19	--	--	48	(54)
Physiology	14	1	6	1	22	(23)
Plant Sciences	11	1	6	2	20	(21)
Psychology	29	13	55	32	129	(147)
Zoology	24	4	9	2	39	(39)
M.Cl.Sc. (Med. Depts.)	1	0	--	--	1	(0)
Subtotal	202	51	141	47	441	(444)
<u>PHYSICAL SCIENCES DIVISION</u>						
Applied Mathematics	5	0	10	2	17	(17)
Astronomy	6	1	6	0	13	(12)
Chemistry	20	1	31	2	54	(55)
Computer Science	14	11	--	--	25	(34)
Engineering Science	57	30	26	9	122	(148)
Geology	22	5	26	7	60	(57)
Geophysics	6	0	6	1	13	(16)
Mathematics	5	1	14	1	21	(20)
Physics	3	1	9	2	15	(19)
Subtotal	138	50	128	24	340	(378)

TABLE II (continued)

	<u>MASTERS LEVEL</u>		<u>DOCTORAL LEVEL</u>		<u>TOTAL</u>	<u>(1975)*</u>
	<u>F.T.</u>	<u>P.T.</u>	<u>F.T.</u>	<u>P.T.</u>		
<u>SOCIAL SCIENCES DIVISION</u>						
Business Administration	438	2	18	7	465	(465)
Economics	18	2	45	5	70	(70)
Education	23	186	--	--	209	(182)
Geography	36	7	11	10	64	(52)
History	37	26	11	5	79	(77)
Journalism	36	0	--	--	36	(25)
Library Science	103	38	6	1	148	(125)
Nursing	7	8	--	--	15	(16)
Political Science	29	18	6	5	58	(62)
Sociology	31	12	--	--	43	(40)
Subtotal	758	299	97	33	1187	(1114)
GRAND TOTALS	1188	435	437	134	2194	(2166)

SUMMARY:

	<u>MASTERS</u>	<u>DOCTORAL</u>	<u>TOTAL</u>	<u>1975</u>
FULL TIME	1188 (1213)	437 (420)	1625	(1633)
PART TIME	435 (375)	134 (158)	569	(533)

Based on 1975 totals of November 27, 1975

32
TABLE III

DEGREES CONFERRED

Classified by Division to Show 5-year Trend

<u>ARTS DIVISION</u>	<u>1972-73</u>	<u>1973-74</u>	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>
Ph.D.	6	10	8	8	7
M.A.	48	43	41	27	44
M.M.	1	4	1	6	4
Subtotal	55	57	50	41	55
<u>BIOSCIENCES DIVISION</u>					
Ph.D.	27	29	36	29	10
M.Sc.	24	17	18	25	28
M.Cl.Sc.	0	2	0	3	13
M.A.	39	29	36	44	22
M.Cl.D.	-	-	-	4	3
Subtotal	90	77	90	105	76
<u>PHYSICAL SCIENCES DIVISION</u>					
Ph.D.	35	27	40	29	27
M.Sc.	36	29	25	27	31
M.E.Sc.	20	7	17	17	16
M.Eng.	25	15	18	27	21
M.A.	4	7	8	6	1
Subtotal	120	85	108	106	96
<u>SOCIAL SCIENCES DIVISION</u>					
Ph.D.	20	16	18	11	37
M.A.	55	65	77	103	147
M.B.A.	193	205	220	220	208
M.L.S.	127	145	130	118	99
M.Sc.N.	20	13	11	10	0
M.Sc.	1	-	4	2	0
M.A.T.	-	-	1	1	1
M.Ed.	-	-	-	26	63
Subtotal	416	444	461	491	555
TOTALS	681	663	709	743	782

Classified by Discipline to Show 2-year Comparison

ARTS DIVISION

	Ph.D. '75-76	'76-77	M.A. '75-76	'76-77	M.M. '75-76	'76-77
Classics	0	0	0	0	0	0
English	4	4	10	20	0	0
French	1	2	3	1	0	0
German	0	0	1	2	0	0
Music	0	0	0	0	6	4
Philosophy	3	2	11	15	0	0
Spanish & Italian	0	0	2	6	0	0
Total	8	8	27	44	6	4

33

BIOSCIENCES DIVISION

	Ph.D. '75-76	'76-77	M.A. '75-76	'76-77	M.Sc. '75-76	'76-77	M.Cl.Sc. '75-76	'76-77	M.Cl.D. '75-76	'76-77
Anatomy	0	1	0	0	4	6	0	0	0	0
Bacteriology & Immunology	3	4	0	0	1	2	0	0	0	0
Biochemistry	1	2	0	0	3	7	0	0	0	0
Biophysics	0	2	0	0	5	1	0	0	0	0
Communicative Disorders	0	0	0	0	1	0	3	13	0	0
Epidemiology	1	2	0	0	1	0	0	0	0	0
Orthodontics	0	0	0	0	0	0	0	0	4	3
Pathology	0	0	0	0	0	0	0	0	0	0
Path. Chemistry	0	0	0	0	0	0	0	0	0	0
Pharmacology	2	0	0	0	2	0	0	0	0	0
Physical Education	0	0	9	22	0	0	0	0	0	0
Physiology	2	1	0	0	3	4	0	0	0	0
Plant Sciences	8	2	0	0	1	1	0	0	0	0
Psychology	9	20	35	23	0	0	0	0	0	0
Zoology	3	1	0	0	4	7	0	0	0	0
Surgery	0	0	0	0	0	0	0	0	0	0
Obstetrics & Gynaecology	0	0	0	0	0	0	0	0	0	0
Total	29	35	44	45	25	28	3	13	4	3

Total

PHYSICAL SCIENCES DIVISION

	<u>Ph.D.</u>	
	<u>'75-76</u>	<u>'76-77</u>
Applied Mathematics	1	2
Astronomy	0	0
Chemistry	11	6
Computer Science	0	0
Engineering Science	6	2
Geology	3	9
Geophysics	1	2
Mathematics	5	0
Physics	2	3
Total	29	24

SOCIAL SCIENCES DIVISION

	<u>Ph.D.</u>	
	<u>'75-76</u>	<u>'76-77</u>
Business	3	3
Economics	4	4
Geography	1	6
History	2	2
Library Science	0	0
Political Science	1	1
Sociology	0	0
Journalism	0	0
Total	11	16

	<u>M.A.T.</u>	
	<u>'75-76</u>	<u>'76-77</u>
Education	1	1

IV (continued)

<u>M.Sc.</u>		<u>M.A.</u>		<u>M. Eng.</u>		<u>M.E.Sc.</u>	
<u>'75-76</u>	<u>'76-77</u>	<u>'75-76</u>	<u>'76-77</u>	<u>'75-76</u>	<u>'76-77</u>	<u>'75-76</u>	<u>'76-77</u>
1	0	0	0	0	0	0	0
1	5	0	0	0	0	0	0
3	1	0	0	0	0	0	0
8	11	0	0	0	0	0	0
0	0	0	0	27	21	17	16
5	6	0	0	0	0	0	0
1	6	0	0	0	0	0	0
0	0	6	1	0	0	0	0
8	2	0	0	0	0	0	0

27 31 6 1 27 21 17 16

<u>M.Sc.</u>		<u>M.A.</u>		<u>M.B.A.</u>		<u>M.L.S.</u>	
<u>'75-76</u>	<u>'76-77</u>	<u>'75-76</u>	<u>'76-77</u>	<u>'75-76</u>	<u>'76-77</u>	<u>'75-76</u>	<u>'76-77</u>
0	0	0	0	220	208	0	0
0	0	28	20	0	0	0	0
2	0	15	4	0	0	0	0
0	0	23	19	0	0	0	0
0	0	0	0	0	0	118	99
0	0	11	7	0	0	0	0
0	0	11	16	0	0	0	0
0	0	15	58	0	0	0	0

2 0 103 124 220 208 118 99

M.Ed.(Ed.Stud.)
'75-76 '76-77

17

41

M.Ed.(Guid.)
'75-76 '76-77

9

22

M.Sc.N.

'75-76 '76-77

TABLE V

The Income of Full-Time Graduate Students
Registered for One, Two or Three Terms (Sept. 1, 1975 - Aug. 31, 1976)

Division	Total No. of Students	Number Receiving No Income	Average Income (\$)	
			Those Receiving Income	All Students
Arts	188	24	3,484	3,039
Social Sciences	916	335	2,355	1,494
Social Sciences*	327	58	3,449	2,837
Physical Sciences	304	30	4,332	3,905
Biosciences	382	33	4,228	3,863

* Does not include Business, and Library and Information Science.

TABLE VI

Per Term Income of Graduate Students
Registered for Three Terms (Sept, 1975 - Aug. 1976)

Division	Master's Candidates		Ph.D. Candidates	
	No.	Income (\$)	No.	Income (\$)
Arts	58	962	56	1,629
Social Sciences*	92	1,493	69	1,839
Physical Sciences	93	1,581	112	1,710
Biosciences	140	1,268	125	1,902
Total/Average	383	1,352	362	1,789
Average/Annum		4,055		5,366

* Excludes Library and Information Science and Journalism.

TABLE VII (a)

Status of Discipline Assessment
Complete

	<u>ACAP Assessment</u>	<u>ACAP Recommendation</u>	<u>COU Approval</u>
Administration, Business and Management Science	Completed	Completed	Yes
Chemistry (doctoral level)	Completed	Completed	Yes
Computer Science	Completed	Completed	Yes
Economics	Completed	Completed	Yes
Education	Completed	Completed	Yes
Engineering (doctoral level)	Completed	Completed	Yes
English (doctoral level)	No announced plan		
French (doctoral level)	No announced plan		
Geography	Completed	Completed	Yes
Geology & Earth Sciences	Completed	Completed	Yes
History	Completed	Completed	Yes
Law	Assessment dropped		
Library Science	Completed	Completed	Yes
Mathematics	Completed	Completed	Yes
Physical Education	Completed	Completed	Yes
Physics (doctoral level)	Completed	Completed	Yes
Planning & Environmental Studies	Completed	Completed	Yes
Political Science	Completed	Completed	Yes
Psychology	Initiated in 1976-77		
Religious Studies	Completed	Completed	Yes
Social Work	Proposed for 1977-78		
Sociology	Completed	Completed	Yes

TABLE VII (b)

Status of Discipline AssessmentPartial

	<u>Discipline Group Assessment</u>	<u>ACAP Recommendation</u>	<u>COU Approval</u>
Anthropology	Completed	Completed	Yes
Biophysics (doctoral level)	Completed	Completed	Yes
Fine Arts	To be repeated in 1978		
Film	} Completed in 1976		
Drama			
Music			
Art History			
Studio Art (MFA)			
Dance			
Journalism	Completed	Completed	Yes
Russian	No action to date		
Spanish	No action to date		
Interdisciplinary M.A. (York)	-	Completed	Yes
Landscape Architecture	-	Completed	Yes
German	No action to date		
Communication Arts	No action to date		
Leisure Studies (Ph.D. level)	No action to date		

August 15, 1977

FACULTY OF ARTSREPORT OF THE DEANDR. J. G. ROWE

The 1976-1977 academic year was the usual mixture of pain and pleasure for the Faculty of Arts. The construction of the budget for the next academic year was especially difficult. The re-allocation of the University's resources means that more will be demanded of the Faculty of Arts. Our responsibilities will increase; our resources will diminish. This will be the pattern for the foreseeable future. Yet for all our difficulties, the intellectual life of the Faculty continues to flourish. Much encouragement has been derived from the good showing the Faculty continues to make in course registrations. The Faculty of Arts Lecture Series has attracted an appreciative audience throughout the year. The informal group of faculty assembled to inaugurate and supervise Faculty of Arts courses remains enthusiastic and inventive. Progress continues, though somewhat slowly, on a new Faculty of Arts program in Theatre and Drama. Other new developments may be seen in various areas and as such signify a growing vitality and coherence in the life and thought of the Faculty of Arts.

One new development demands special mention. Under the energetic and far-seeing leadership of Professor José Barrio-Garay, the Department of Visual Arts has received Senate approval for four new degree programs. For all the dangers attendant on prophecy, I dare to predict that we are on the edge of a new expansion in Visual Arts which will transform the existing department.

I should also mention the new developments in the Language Laboratories which will create a Language Learning Centre in University College. A generous grant from the Senate has made this possible. The Centre will play a crucial role in the future teaching of second languages.

I note with regret the retirement of Dr. M. L. Balse of the Department of French who has assumed the title of Professor Emeritus. The death of Martin Walsh saddened all of us. Our sorrow over his resignation from the Faculty to assume a position in England was immeasurably deepened when in early July a traffic accident cut short the life of this promising young scholar.

In conclusion, I wish to thank my colleagues and especially our chairmen, for their cooperation during the past year. I would add here my personal thanks to Dr. K. A. Pappmehl who has retired this year from the Chairmanship of the Department of Russian Studies and to Dr. D. G. Creighton who has served so capably for a year as Acting Chairman of the Department of French. My associates in the Office of the Dean also deserve special praise, especially the Assistant Dean, Dr. E. H. Redekop, whose energy and competence command the admiration of us all.

Departmental ReportsDepartment of Classical Studies

Enrollment continued to increase in the non-language courses although not to the same extent as in the previous year. No significant change in enrollment in the language courses is anticipated for the foreseeable future.

The Department obtained approval to offer a new course, Sport and Recreation in the Ancient World, and is in the process of making further additions and deletions.

On Saturday, October 2nd, the Department sponsored its eighth Annual Colloquium, with three papers on Greek Comedy. For the June meeting of the Learned Societies, two members of the Department read papers.

In September the Department moved to the top floor of Talbot College.

Professor C. L. Murison has been elected to the Council of the Classical Association of Canada and Professor A. R. Littlewood has been commissioned to prepare a new text of selected works of Pselus for the prestigious Teubner press in Germany. Professor Gerber was elected Editor of Transactions of the American Philological Association for a second three-year term.

Department of English

Enrollment in undergraduate courses in the English Department increased by approximately 450 course registrants in the 1976-77 academic year. Eighty-five full and part-time graduate students (42 Ph.D., 43 M.A.) were registered - - 49 of these holding teaching assistantships.

The Department was active in many areas. The Teacher's Conference this year was hosted by the Primary Schools, with Departmental assistance both in funding and in the directing of and participation in workshops. Over 800 individuals attended, representing English teachers from the University, the Primary and Secondary Schools, and Althouse and Fanshawe Colleges.

The Department sponsored a conference in March of 1977 - - entitled Creative Writing in Canada: The Writer's View. Participants in the general session and the subsequent workshops were as follows: Alice Munro, Dennis Lee, Harold Horwood, James Reaney, Donald Gutteridge, and Larry Garber. This conference attracted 170 registrants from outside the University.

The Departmental Colloquium series continued, with papers delivered by Professors E. Bieman, C. B. Heatt, M. Groden, P. Baker, E. N. Mellamphy, D. Bentley, S. Feldman, G. Wickens, M. Manson. In addition, A. C. Bolgan supervised a dramatic reading of T. S. Eliot correspondence with A. Gedalof and W.E.D. Atkinson participating. A number of scholars, representing various areas of academic interest, visited the campus and addressed the Department. They included William Walsh (Leeds, Canadian Literature), Roger Poole (Visiting Commonwealth Fellow, Swift and Joyce), A. W. Litz (Princeton, T. S. Eliot), R. Lehan (University of California at Los Angeles, American Literature), and Dusan Makavejev (Paris, Filmmaker).

The Department was visited by a number of scholars, and many members of the Department were invited by other universities and associations to deliver addresses. These

included: A. Benert (Pittsburgh), E. Bieman (New York, Michigan, Kalamazoo), M. Brown (Guelph), S. Feldman (Ottawa), M. Groden (Dublin), D. Hair (Boston), A. K. Hieatt (Amherst, Toronto), D. Hensley (New York), C. B. Hieatt (Oslo, St. Louis, Pennsylvania, Washington, Fredericton), E. N. Mellamphy (McMaster, New Orleans), G. Parker (Toledo), B. Rajan (Acadia, University of British Columbia, Minnesota, Sussex, York, Alberta), G. Rans (Winnipeg), J. Reaney (McMaster, Brock, Amherstburg), E. Redekop (Winnipeg), C. Ross (Ottawa), and M. Walsh (Ottawa, Chicago). It should be noted that this impressive list of contributions to the scholarly life outside the boundaries of the campus proper will without doubt be seriously curtailed in the future as a result of the restriction of travel funds in the Faculty of Arts.

The Drama Workshop continued its activities both in workshop sessions for undergraduate students in the drama courses, and in productions. The Department sponsored productions of The Real Inspector Hound, The Devil's Disciple, The Birds, Loot, and James Reaney conducted a series of Monday evening workshops open to the students and the public on Wacousta.

During the academic year the Department again had a Writer-in-Residence, Harold Horwood. Mr. Horwood worked extensively with students and generously involved himself in many community activities.

English 138 once again served as a focus for the development of student and faculty interest in Canadian Literature and Culture. The following individuals from outside the Department were invited to participate in the course: David Beasley (Author, New York), John Beckwith (Musician, Toronto), Earle Birney (Poet, Toronto), David Godfrey (Poet and Novelist, Toronto), Carl F. Klinck (Professor Emeritus, U.W.O.), Marion MacRae (Author, Toronto), Anne Marriott (Poet, Toronto), Al Purdy (Poet, Ameliasburgh).

Last, but not least, the Department and many of its members received funds from various agencies to support and further various scholarly interests. D. Bentley and S. Dragland received funds from the Ontario Arts Council and G. Parker and A. M. Young received Canada Council Research Grants. James Reaney was the recipient of a \$21,000 Canada Council Grant in support of his continuing work on the Donnellys, and the University Academic Development Fund generously granted Professor Reaney \$25,000 for the coming academic year in support of his work on The Canadian Brothers.

1976-77 was a busy and successful year for the Department of English.

Department of French

In 1976-77 the Department of French was under the direction of an Acting Chairman, Professor D. G. Creighton, and during the first half of the academic year the search for a new chairman continued. In this connection, three appraisers each paid two-day visits to the University in the period between September 27 and October 15, and spoke to a majority of the members of the Department. The appraisers were Professor C. A. E. Jensen of the University of Manitoba, Professor P. Gobin of Queen's University and Professor L. Gossman of Princeton University. Their appraisals were generally balanced and moderate, present virtues being noted, areas for improvement suggested. Professor David Baguley was finally chosen as Chairman of the Department for three years by a substantial majority of the Faculty of Arts Selection Committee.

The number of undergraduate student course registrations fell this year by 100 to 1530, but this figure was more than 100 in excess of the course registrations of the

previous year. Graduate enrollment remained fairly steady.

Several possibilities for new courses were discussed during the year. First-year courses on French literature or civilization given entirely in English were for the moment set aside in favor of putting more effort into getting such courses firmly established at the second-year level, and of creating a new first year course in Intensive Reading of French. There was much discussion of ways of improving the so-called Comprehensive Examination, and new procedures were agreed upon.

The proposed replacement of language laboratory equipment and the creation of a second laboratory in University College to replace the one in Talbot College aroused the interest of many Faculty members, since several large courses in this Department have a laboratory program as an integral part of them. Professor Holmes, Director (Academic) of Language Laboratories for the Department of French, was particularly involved in decisions concerning new equipment and space allocation. The Department looks forward to using the more flexible and sophisticated equipment.

A small experimental beginning was made this year in computer-assisted language learning. Thanks to the initiative of Dr. Sotiroff, French 002 students could learn vocabulary by computer. The program will be continued and enlarged in 1977-78.

The graduate program in 1976-77 was the first year in which all offerings (except at Summer School) were in the form of half-courses, with four being offered in each semester. The greater flexibility and variety that this system allows seems to have met with the approval of both students and faculty. Three students completed their doctoral studies in the last few months of this academic year: Arthur LeBlanc, Philip Clark, and Mary Jo Lynch.

This year the Department was pleased to welcome three guest speakers, two from the Alliance française and one from the University of Kent. Moreover, the annual Departmental colloquium, this year devoted to Voltaire and held on October 6-8, 1976, brought seven internationally known authorities on Voltaire and the French eighteenth century to this campus from such places as Brussels, Princeton, Columbia and Montreal, while three colleagues here at Western also presented papers. Interesting papers, stimulating discussion and a format which tended to keep the group together at receptions and meals all contributed to the success of Colloque 76 for the 60 individuals who attended. The Organizing Committee consisted of Professor Walters as chairman, assisted by Professors Creighton and Lenardon.

Professor Lenardon was very busy this year directing the Eighteenth Century Bio-bibliographical Center in its indexing of the Journal de Trévoux. Several graduate students as well as certain Faculty members were and continue to be actively involved in this large computer-assisted project.

Although no French-speaking theatrical company was available to visit this campus in the past year, the Department of French, thanks to the initiative of Professor Forsyth, was able to mount a production of Jean Anouilh's Antigone, which enjoyed four successful performances in mid-February. The all-student cast obviously devoted a great deal of effort to this production.

The monthly French film program, sponsored jointly by the Department of French and the Association française de London, continued to be well-received both by the student body and by members of the French-speaking community of the city.

There was one retirement in the Department this year, that of Professor M. L. Balse after ten years of devoted service. Sabbatical leaves for 1977-78 were granted to Professors R. L. Walters and Z. Youssef.

Department of German

Undergraduate enrollment was up somewhat in 1976-77 from the previous year, while the graduate program remained steady. The Düsseldorf Exchange Program again attracted three senior students from Western and four students from Germany took courses at this University.

As it has done for several years, the Department continued to experiment with new courses and programs in an attempt to meet the needs of students outside the framework of traditional language and literature programs. A new Honors Program in Anthropology (Linguistics) and German is being drawn up for 1978. Three new courses in German Drama in English translation, two in Twentieth Century Drama and one in Eighteenth and Nineteenth Century Drama have been designed as the Department of German's contribution to a proposed Faculty of Arts Program in Drama and Theater. The German Department is continuing to participate in the new Faculty of Arts courses. Professor Spencer will continue to teach, with Professor Wilson of the Department of Russian Studies, Faculty of Arts 101, Contemporary Literature of Europe and Latin America which got off to a successful start last year. In addition Professor Spencer will give, for the first time, German 159b, German Myth and Fairy Tale, an introduction to some aspects of German folklore with a psychoanalytical approach. A new freshman course dealing with some aspect of German Literature or Civilization in English translation is also under consideration for the future.

Members of the Department were active as scholars and in the professional affairs of their disciplines. In September, 1976 Professor Immerwahr attended a meeting in Basel, Switzerland of the executive of the Internationaler Verein für Germanistik to plan for the 1980 Congress in Basel.

Professor Schlütter presented papers at conferences in Victoria, Pittsburgh and Fredericton.

An extensive lecture tour, sponsored in part by the Canadian Department of External Affairs, took Professor Tracy to East and West-Berlin, Erlangen and Vienna.

The Department Colloquium was again active. Papers were presented by Professors Hess, Immerwahr, Schlütter, Spencer and Tracy.

Visitors to the Department included Professor Michael Mann of the University of California at Berkeley and Douglas Joyce, Professor of German at the University of Toronto.

Department of Philosophy

Overall undergraduate enrollment remains steady, in excess of 2,000 course registrations, with a healthy increase of 12% at the freshman level, which is up from 775 to 867. Six students graduated in the several Philosophy honors programs, nine were recommended for scholarships, and one, Mr. Stephen Sharzer, received a gold medal. Mr. Sharzer has been accepted into the M.A. program in Philosophy at Western for next year.

The graduate program also remains steady with forty-three students currently enrolled, thirty-two of whom are now in Ph.D. programs. Seventeen graduate degrees were awarded

during the year; two Ph.D's and fifteen M.A.s. Graduates of the Department continue to do well in a severely depressed academic job market; Andrew Bjerring, who is currently a Queen Elizabeth II Fellow, has been appointed Assistant Professor of Philosophy in the Faculty of Education at Western, Reinaldo Elugardo as Assistant Professor of Philosophy at the University of Toronto, and Dr. Jeffrey Foss, who earned his Ph.D. this spring, has been appointed as Assistant Professor at the University of Victoria. In addition, Bruce Fargen, who is currently completing his dissertation, taught at Huron College during the first term.

Also of note are three graduate students pursuing part of their studies at foreign universities. Mr. Leslie Lewis will be at the Ohio State University, and Mr. David Holdsworth at the University of Cologne, during the coming academic year, on exchange programs between Western and those two universities. Also, Mr. David Wright will be returning from a year of study at King's College, University of London. In the other direction, Mr. Daniel Goehring spent the year studying at Western, on exchange from Ohio State.

After a highly successful colloquium last spring on the philosophy of Ludwig Wittgenstein, the Department now returns to its traditional pattern of Spring Workshop and Fall Colloquium. This spring, Professor Butts organized an extremely stimulating workshop on the topic "Sources of Modern Scientific Methodology"; it was held at Benmiller, Ontario, May 17-20, with twenty-one participants from Canada, the United States, United Kingdom, Finland and West Germany, and supported by grants from the University, Canada Council and the Division of Logic, Methodology and Philosophy of Science of the International Union of History and Philosophy of Science. The annual Fall Colloquium, scheduled for October, 1977, will be on the topic of bio-medical ethics, and will be sponsored jointly by the Department and the Faculty of Medicine, with participation of the Faculty of Law.

This year saw publication of the seventh volume in The University of Western Ontario Series in Philosophy of Science, and there are currently six more in press. The fifth issue (Vol. III, No. 1) of Hume Studies is now in print. This scholarly journal is still supported by the University, though subscriptions have now climbed to 179.

Continuing its tradition of distinguished Visiting Professorships, seminars were offered in the Department this year by Professor Bas van Fraassen, of the Universities of Toronto and Southern California, and Professor Vivian Walsh, University of Waterloo. Professor van Fraassen's seminar dealt with scientific realism, and Professor Walsh's with the foundations of economic theory; each made a contribution to the Department's increasing commitment to inter-disciplinary research. Also visiting the Department this year were Professors Wytze Brouwer, on leave from the Department of Physics, University of Alberta, and Marion Johnson, Department of Anthropology at Western.

Further developments in the Department's interdisciplinary activities include a series of lectures on environmental problems given by Professor Hooker while on leave this year in Australia. Professor Hoffmaster gave a major address on "Quality of Life" at the 17th Annual Symposium at the Children's Psychiatric Research Institute; the General topic for this year was: VALUES VS. RIGHTS: DECISIONS AFFECTING DEVELOPMENTAL DISABILITIES. Professors Hoffmaster and Shorten also participated in a workshop on course design under the sponsorship of the Provost's Advisory Committee on Teaching and Learning; each of them will be taking part in new interdisciplinary instruction next year, the former in bio-medical ethics, the latter in a new Faculty of Arts course on Freedom and Authority.

Department of Russian Studies

No significant changes or particularly noteworthy events occurred in the Department during the year under review. Amid some mildly encouraging signs of continued, if gradual, recovery from the low enrollments of 1973-74, the main efforts were directed to the maintenance of our basic curriculum with reduced faculty manpower resources. The number of students in the Honors Program has increased and, if the pre-registration figures for 1977-78 are a reliable indication, it will by next September reach the highest figure (about 12) in the program's - and the Department's - history. With the faculty strength down to four (and the corresponding increase in teaching loads to an average of 11-1/2, and in one individual case, to 17 hours per week), it has become necessary to suspend some general courses with low enrollment and to switch more honors courses to the pattern of alternate years. These factors notwithstanding, the Department was able to contribute to the Faculty of Arts courses by having one of its faculty members teach half of Arts 101.

Although, under the circumstances described above, little latitude remains for curriculum development, one new course, Russian 027 (Russian Culture and Literature), to be given entirely in English and to be open to freshmen, has been proposed by the Department and approved by Senate for the 1977-78 academic year.

A new Chairman, Dr. G. M. Eramian, has been elected for a four-year term beginning July 1st, 1977. Professor Eramian was on sabbatical leave during the six months ending June 30, 1977. Mr. Alan Smith acted as his replacement.

Owing to circumstances beyond its control, the Department was unable to present any visiting lecturers in 1976-77: a visit scheduled for March 1977 had to be cancelled because of the prospective speaker's illness.

The outgoing Chairman would like to avail himself of this opportunity to thank his colleagues, associates and students, past and present, for their generous assistance, support and co-operation accorded him during his term-of-office, and to wish the new incumbent every success and all the luck that he and all of us will need in the foreseeable future.

Department of Spanish and Italian

The Department of Spanish and Italian had a total enrollment figure of 538 for the academic year 1976-77. Of these, 410 were enrolled in Spanish courses and 128 in Italian. Enrollment in Spanish had a slight gain in registrations while Italian registrations showed a ten-percent decline compared to the previous academic year.

Graduate enrollment remained stable. Seven Master's candidates were enrolled, of whom two will receive their M.A. at Spring Convocation and five at Fall Convocation, 1977.

In order to meet the teaching responsibilities for the recently introduced program in Honors Italian Language and Literature, two senior members of the Department undertook a retraining program in Italy better to enable the Department to re-distribute its teaching resources between Spanish and Italian. The Department is grateful to the Office of the Dean for making the re-training program possible, and to Professors W. Flint and W. Burghardt who volunteered to undertake it. During their Special Leave, Mr. J. Raffa was hired on a Limited Term appointment to assist in the teaching of one of the introductory courses in Italian.

Upon the return of Professors Flint and Burghardt, both were successfully engaged in teaching Basic Italian courses, relieving the Department's Italianists to further

develop the Italian Honors programs at the senior levels. That the re-training program was an outstanding success is a tribute to the innovative aims of the Faculty of Arts and to the dedication of the professors concerned.

The Department welcomed three distinguished Visiting Lecturers during 1976-77: Giorgio Bassani, one of Italy's foremost novelists, critics and editors, who discussed his recent internationally accepted novel, *The Garden of the Finzi-Continis*; José María Valverde, acclaimed Spanish poet, critic and scholar, who read and explicated many of his poems, and gave a public lecture on his "Insights into Joyce's *Ulysses*"; and Professor J. E. Varey, Professor of Spanish at Westfield College, University of London, who delivered an illustrated lecture entitled "Popular Entertainment and the Dissemination of Romantic Themes" and a second public lecture "Staging of Plays in the Corrales of Golden Age Spain". The visiting lecture program was academically stimulating and extremely well attended.

Under the direction of Professor J. Asensio, the Department successfully produced Alejandro Casona's well known social drama Nuestra Natacha. The play was well received by the public and featured a large cast of faculty members and students. The Department is grateful for the support of the Dean in this production and to Professor Asensio, its director, producer and leading actor.

Mrs. Kathryn McLean won the U.W.O. Gold Medal in Honors Spanish Language and Literature; Mr. P. G. Frayne was the recipient of the Gold Medal in Honors French and Spanish; Miss Victoria White won the Ambassador of Spain to Canada Book Award; Miss Susan Mazzotta won the Ambassador of Switzerland Italian Book Award; and Mr. J. Raffa was the recipient of the Sons of Italy Scholarship for 1976-77. The awards were presented at the Faculty of Arts Awards Ceremony, Spring Convocation, 1977.

Many members of the Department distinguished themselves in teaching, scholarship and publication during the past academic year. Teaching evaluations of the Department's members remain uniformly excellent; a commendable balance has been achieved between teaching and scholarship, as the attached appendices will demonstrate.

At the conclusion of this first year as Chairman of the Department, I should like to thank all my colleagues for their unstinting efforts on behalf of the Department and express my appreciation to the Dean and his staff for their continuing support and assistance, each in distinctive ways contributing to a rewarding 1976-77 in academic and administrative pursuits.

The Department also wishes to convey its gratitude to Professor Antonio Martí who served the Department well during his two years as Acting Chairman, and to congratulate him on his appointment to the Office of the President as Assistant Provost. Fortunately, Professor Martí will continue teaching in the Department after his return from Study Leave.

Department of Visual Arts

The Department of Visual Arts finished its tenth year with a new sense of purpose and encouragement. All short range objectives and some middle range aims articulated in its 1976 five year plan have been achieved. Now the Department hopes to maintain this momentum of accomplishment and to establish itself as a professional academic entity of first order.

Curricula and Programming

The introduction of two new professional honors degree programs and the restructuring of the existing programs were approved by Senate in December, 1976. These changes

will become effective in September, 1977. The structure of the new curricula and programming is open-ended at its base, allowing the Department for the first time to instruct students from other faculties and departments of the University in creative problem-solving. The number of courses in studio practice and in art theory, history and criticism has increased by 25% to a total of 39. Some of these courses will be offered in alternate years or every third year, allowing for the maximum diversified instruction possible with the present staff. With the assistance of new departmental evaluation and counselling, students will move with flexibility toward the achievement of their educational goals. It is hoped that the two career-oriented degrees - - Bachelor of Fine Arts with Honors and Bachelor of Arts with Honors in Art History and Criticism - - not only will provide a first rate professional education for our students, but also will bring distinction to the University - - the latter degree program being at present unique in the country.

Student Enrollment

Since its beginnings in 1967, the Department has experienced a fairly constant increase in student enrollment (average yearly increase 15%). Last year it increased by 12% to a total of 413. Preregistration for 1977-78 shows an unprecedented number of students. Three more sections had to be added. More important, 62% of our majors opted for the two new professional degree programs.

In November 1976, discussions were carried out with representatives of the art teachers in London's Secondary School system to ensure a more effective transition of curricula and admission of students to the Department. In January a general meeting was held at Banting Secondary School to discuss the new curricula and the liaison between programs.

After initial discussions with the Ontario College of Art, the Department is at present studying the basis on which the transfer of O.C.A. students to the Department's professional degree programs will be made possible.

It would seem that the Department will be in a position to establish a desirable or feasible ceiling of enrollment.

Graduate Program

In January 1976 the Department submitted the first phase of a proposal for an M.A. in Art History and Criticism to the Faculty of Graduate Studies. Following the recommendation of the Council of Ontario Universities, it would offer areas of concentration in the history of Canadian and contemporary art. Due to the areas of specialization of the present departmental faculty, it would concentrate as well on the criticism and connoisseurship of contemporary and Canadian art. The objectives of the program - - unique in the province and the country - - are career oriented, leading to the development of professional competency in fields for which there is at present a lack of qualified personnel.

STAFF

The Department conducted its affairs under a new Chairman, Professor J. L. Barrio-Garay, appointed July 1, 1976.

Associate Professor of sculpture William Tucker, appointed July 1, 1976 resigned effective June 30, 1977. He is being replaced by two nine-month limited term appointments - - Mr. Robin Peck and Mr. Stephen Parzybok - - at the rank of instructor, due in part of Professor Tucker's late resignation, in part to the needs of the new

curricula and programming. Associate Professor Mark Cameron, on sabbatical leave for 1977-78, has been replaced by Visiting Assistant Professor Bradford R. Collins.

Partly because of the staff teaching the medium, the area of sculpture has not developed adequately throughout the history of the Department. It is hoped that the appointment of two instructors will provide the necessary more diversified instruction. Yet the Department is reluctant to commit the area of junior staff on limited term or permanent basis. It is hoped that this year's experience and budgetary reconsiderations will allow the Department to make decisions in accord with its aims for excellence.

The appointment of Mrs. Ann Gordon as a part-time photographer technician proved to be an invaluable asset to the Department. She not only assisted students with technical matters in the areas of photography, serigraphy and printmaking, and the faculty members with photographic work for research, but also contributed most significantly to the growth of the Slide Library. Her appointment to full time in 1977-78 will permit her to increase this contribution to the necessary level.

Slide Library

The Slide Library expanded its holdings of catalogued slides to 61,645. Most of the collection has been transferred to Neumade storage cabinets which should extend the storage life of the slides considerably. With the addition of the photographer technician, staff produced slides within the department at considerable savings. By September, when the proposed relocation of the Slide Library will be completed, the Department will be able to offer expanded study facilities including slides, art periodicals, and photographs.

In December 1976, Ms. Brenda Messer, Slide Curator, initiated Positive, a newsletter for slide and photograph curators in the visual arts in Canada. To date she has edited three issues for distribution to a growing list of subscribers in Canada and the U.S.A. (See Appendix II for Slide Library Report of May 1, 1977).

Lecturers, Conferences and Workshops

A varied programme of visiting lecturers included the following: Eric Cameron, Director, Nova Scotia College of Art and Design, Halifax, N.S.; Terry Frost, Artist/Professor, University of Reading, Reading, England; Barrie Hale, Art Critic, Toronto, Ontario; Allan Kaprow, Video Artist, Pasadena, California; Les Levine, Video Artist, New York, N.Y.; Brenda Wallace, Arts Officer, Canada Council, Ottawa, Ontario; Donald Wright, Filmmaker, London, Ontario.

The value of this program can hardly be overemphasized. It does not only provide the necessary instructional diversification that the limited staff of the Department can not provide, but it also serves as a great stimulus for faculty as well as students. In addition, it complements, and serves as a liaison with, the visitors' programs at Fanshawe College and the London Public Art Gallery. The continuation of the program at this Department is, therefore, a virtual necessity.

Space

In January 1977, the Department submitted a request for alterations of space. Most of these alterations were approved by SUSAA. Upon their completion in September 1977, they will allow the Department to continue its instructional activities more effectively and with more safety. Yet the need for more adequate quarters with more instructional and research space is still evident. More than 75% of the instructional activities

and all support activities are carried out in temporary buildings, one of them portable and previously used by the Faculty of Social Sciences.

Funding

In January 1977, the Department submitted a proposal to the University Committee on Priorities in Academic Development. The proposal requested funds to support at a professional level the reorganization of the new curricula and programming. More specifically, it requested funds for salaries of technicians and equipment. The Committee approved an award of \$70,000 to be budgeted over a period of three years commencing with the academic year 1977-78. As a consequence the Department looks forward to a period of time in which its operating budget will be satisfactory. The Department also looks forward to budgeting formulas and means that will allow it to continue its long range objectives.

EXHIBITIONSDepartment of Visual Arts

- BECKER, H. "Ontario Book Arts". North York Public Library, March/May, 1977.
- BECKER, H. "Faculty of Visual Arts Exhibition". McIntosh Gallery, January, 1977.
- CAMERON, M. A. S. "Faculty of Visual Arts Exhibition". McIntosh Gallery, January/February 1977.
- CAMERON, M. A. S. "One-Man Exhibition". Art Gallery of the University of Waterloo, March/April, 1977.
- CRASS, P. "Walter Redinger" film shown in McIntosh Gallery, in conjunction with the Redinger exhibition, October, 1976.
- CRASS, P. "Walter Redinger" film shown in Arts Festival in St. Catharines, October, 1976.
- CRASS, P. Still photographs shown in the Faculty of Visual Arts Exhibition, McIntosh Gallery, January/February, 1977.
- DALE, W. S. A. "Mediaeval Manuscripts", McIntosh Gallery (with M. Stubbs), February/March, 1977.
- DEKERGOMMEAUX, D. "Faculty of Visual Arts Exhibition". McIntosh Gallery, January/February, 1977.
- DEKERGOMMEAUX, D. Touring Exhibition, one drawing, London Art Gallery, 1976/77.
- EWEN, P. "The Canadian Canvas". Travelled to ten Canadian centers over a two year period, ending in March, 1976.
- EWEN, P. "Changing Visions". A travelling exhibition organized by the Edmonton Art Gallery and the Art Gallery of Ontario. The exhibition travelled to nine centres in Canada and to the DeCordova and Dana Museum, Lincoln, Mass. U.S.A. from February 1976 to March 1977.
- EWEN, P. "17 Canadian Artists: A Protean View", The Vancouver Art Gallery, May to July, 1976.
- EWEN, P. "Faculty Exhibition", Banff School of Fine Art, August, 1976.
- EWEN, P. "Forum 76". The Montreal Museum of Fine Arts, September to November, 1976.

- EWEN, P. "Canadian Contemporary Painters". Harbour Front Gallery, Toronto, October to November, 1976; Saidye Bronfmann Centre, Montreal, November to December, 1976.
- EWEN, P. "Paterson Ewen Retrospective". London Art Gallery, November, 1976.
- EWEN, P. "Faculty of Visual Arts Exhibition". McIntosh Gallery, January/February, 1977.
- FENWICK, R. One-man show, Toronto, October, 1976.
- FENWICK, R. "Faculty of Visual Arts ~~Exhibition.~~" McIntosh Gallery, January/February, 1977.
- STUBBS, M. "Faculty of Visual Arts Exhibition". McIntosh Gallery, January/February, 1977.
- STUBBS, M. "St. Paul's Cathedral Exhibition". St. Paul's Cathedral, London, April, 1976.
- TUCKER, W. Sculpture piece exhibited at the Bienale exhibition, Sydney, Australia, October, 1976.
- TUCKER, W. One-man exhibition of sculpture and drawings, Robert Elkan Gallery, New York, April, 1977.

SLIDE LIBRARY MID-YEAR REPORTMay 1, 1977

I. Holdings	1977	1976
Slides in Collection	61,645	56,128
Additions to Collection: 1976	3,738	2,831
Additions: May 1, 1976 to May 1, 1977	5,517	3,411
Uncatalogued Slides	7,300	-
2. Circulation		
Total Circulation: 1976	36,438	26,411 (1975)
Slide Loans: May 1, 1976 to May 1, 1977	9,862	7,412
Number of Visitors: May 1, 1976 to May 1, 1977	257	250
Slide Loans (visitors in brackets)		
Althouse College (37)	1,103	420
Brescia College (36)	1,707	1,782
Department of Anthropology (1)	22	86
Department of Classical Studies (5)	175	0
Department of English (32)	518	780
Department of French (10)	538	645
Department of History (12)	671	602
Department of Philosophy (12)	196	499
Department of Spanish (2)	19	34
Faculty of Music (4)	228	110
Fanshawe College (40)	2,610	617
Huron College (3)	37	31
London Art Gallery (2)	44	306
London Public Schools (2)	60	0
London Secondary Schools (2)	132	0
Students (outside Visual Arts) (59)	1,883	972

Language Laboratories

There were no changes in the permanent staff of the language laboratories during the year under review.

Student laboratory attendance numbers, as supplied by the user departments, are tabled with this report.

Since the last laboratory report to the Dean the efficiency of the laboratories located in Talbot and University Colleges has been under careful scrutiny. These labs were seen to be unreliable because of age and usage, awkward to utilize to their full potential because of their split locations; and, too outmoded to cope with present teaching requirements.

As a result of this survey the equipment in both laboratories will be replaced with new Tandberg cassette apparatus in time for the coming academic year. For efficiency and centralization both of these new laboratories will be located in University College. To further consolidate the facilities, the Recording Studio will also be moved to University College. In addition, a Computer Terminal facility will be initiated and installed in University College to test the promise of Computer Assisted Instruction in language and the Arts.

The challenges facing the Language Laboratories in providing increased facilities for the use of the University community during the years ahead should prove to be exciting and rewarding.

ACADEMIC YEAR 1976 - 1977LANGUAGE LABORATORY USAGE BY COURSE AND STUDENT NUMBERS

French 002	134	
French 010	148	
French 020	185	
French 021	230	
French 131	49	
French 141	6	
French 271	130	
French 273	39	
French 143	20	
French 381	67 - Lab attendance voluntary	
	<hr/>	
	1008	1008
German 2	51	
German 22	63	
	<hr/>	
	114	114
Italian 2	80	
Spanish 2	135	
Spanish 20	50	
Spanish 21	54	
	<hr/>	
	319	319
Russian 002(A)	10	
Russian 002(B)	18	
Russian 020	15	
Polish 002	18	
	<hr/>	
	61	61
Secretarial Studies 135	75	
Secretarial Studies 140a	60 (15 Students x)	
	4 hours a week)	
	<hr/>	
	135	135
Estimated Students Studying Privately		200
		<hr/>
	Weekly Total Student Hours -	1837
		<hr/>

No figures are available for Summer School & Intersession, or Extension users of the laboratories.

Report of the Dean

SCHOOL OF BUSINESS ADMINISTRATION

Dean J. J. Wettlaufer

The 1976-77 academic year was another one of success and accomplishment for the School. The University of Calgary and Financial Times of Canada both rated the Western Business School as the best school of business in Canada. We did not question the research methodology and accepted this evaluation as a reflection of the excellent work which has been done by the faculty and staff of the School.

The first Senior University Administrators' Course (SUAC) was successful in attracting a full class of senior academics and administrators. It marked the first integrated effort of the School into the non-profit sector. The feedback from course participants indicated that Professor Joseph DiStefano and his teaching team did an excellent job. SUAC will make an important contribution to improving university administration in the future.

The Plan for Excellence

The Plan for Excellence Phase II is getting closer to achieving the goal of raising \$2.1 million to support research activities and fellowships for the M.B.A. and Ph.D. Programs. To date approximately \$1.9 million has been pledged and the goal of \$2.1 million should be surpassed during the 1977-78 year.

ACADEMIC PROGRAMSThe Undergraduate Program

The Program remained in a steady state in terms of size, with approximately 150 students in the third year and 140 in the fourth year. Student interest in the Program as a degree choice remains high, with 440 students applying for entry to the Junior year for 1977-78.

<u>Enrolment</u>	<u>1972/73</u>	<u>1973/74</u>	<u>1974/75</u>	<u>1975/76</u>	<u>1976/77</u>
Junior	147	142	147	145	146
Senior	114	138	143	141	143
Total	261	280	290	286	289

The M.B.A. Program

In September, 1976, Western's M.B.A. Program welcomed 220 first-year students and 213 returning second-year students. Total enrolment in the Program remained stable, close to its planned maximum size, conforming to the "steady-state" picture which existed elsewhere in the University.

Western's M.B.A. Program is the only truly national graduate management program in Canada. The incoming class reflected this reality, with significant representation from Western Canada, Quebec, and the Maritime Provinces, as well as Ontario. In addition, students from 16 foreign countries were enrolled in the Program, with about ten percent of the class coming from outside of Canada. Applications were received from individuals in 53 foreign countries, an indication of the School's strong and growing international reputation.

Of the incoming class, 16 percent were women. This was a record percentage of female students, indicating increasing interest by and increasing opportunities for women in management.

Seventy-five percent of this class had at least one year of full-time work experience before enrolling in the Program, representing over 800 man years of work experience. Students came to Western's M.B.A. Program from 34 Canadian universities and had degrees in over 40 different academic fields. These figures are evidence of the diversity and richness of the backgrounds that students bring with them to the Program. The continuing capacity of the School to attract high-calibre people to its M.B.A. Program suggests it will continue to be the leader in management education in Canada.

The enrolment figures over the past five years have been as follows:

<u>Enrolment</u>	<u>1972/73</u>	<u>1973/74</u>	<u>1974/75</u>	<u>1975/76</u>	<u>1976/77</u>
M.B.A. I	219	239	231	221	220
M.B.A. II	194	208	220	223	213
Total	413	447	451	444	433

Ph.D. Program

During the past academic year, three Ph.D. candidates graduated after successfully defending and completing dissertations. A total of 34 now hold Ph.D.'s in Business Administration from The University of Western Ontario.

In September 1976, eight candidates entered the Ph.D. Program. Each successfully completed the first year of study, and they are now registered in year two.

Brief Summary of 1976-1977 Ph.D. GraduatesRobert W. Archibald

Thesis Title: Scanning the Canadian Business Environment in the Government Sector
 Financial Support: Richard Ivey Doctoral Research Fellowship
 Teaching Position: Assistant Professor, University of Guelph

Louise A. Heslop

Thesis Title: An Experimental Study of the Effects of Premium Advertising on Parent-Child Cereal Choices
 Financial Support: Richard Ivey Doctoral Research Fellowship
 Canada Council
 Canadian Advisory Board Research Grant
 American Marketing Association Research Grant
 Teaching Position: Assistant Professor, University of Guelph

Claude P. Lanfranconi

Thesis Title: An Empirical Study of the Use of Notes to Financial Statements and Supplementary Financial Data Schedules For Disclosure in Corporate Annual Reports in Canada
 Financial Support: Richard Ivey Doctoral Merit Award
 Canada Council
 Nova Scotia Government Scholarship
 Teaching Position: Assistant Professor, The University of Western Ontario

Placement

Four candidates have accepted university positions and one has decided to enter the business world. They all plan to complete their dissertation shortly

Charles Kirudja	The United Nations
Randolph Kudar	University of Virginia
Norman McGuinness	Acadia University
Marie Perret	University of British Columbia
Jacques Prefontaine	Université Laval
Gerald Ross	Undetermined

Scholarships

(a) Canada Council	Kerry Hill Jacques Prefontaine
(b) C.I.D.A.	Charles Kirudja
(c) The International Development Centre Research Grant	Jacques Prefontaine
(d) The Richard D. Irwin Doctoral Research Grant	Jacques Prefontaine
(e) Quebec Government Scholarship	Bernard Garnier
(f) Seagram's Business Faculty Award	Bernard Garnier
(g) Universite Laval Scholarship	Bernard Garnier Andre Thibeault
(h) University of the West Indies Scholarship	Eisenhower Etienne

RESEARCH AND PUBLICATIONS PROGRAMPublications

Faculty continued to produce publications at an exceptional rate during 1976/77. The record for the past five years is as follows:

	<u>1976/77</u>	<u>1975/76</u>	<u>1974/75</u>	<u>1973/74</u>	<u>1972/73</u>
Books	2	2	6	4	2
Monographs	3	3	2	3	5
Journal Articles	14	38	35	23	24
Working Papers	15	22	22	25	17
Cases	129	131	141	158	154

The School strives to promote research dealing with current managerial problems. During 1976/77 four significant studies were completed and published.

Twenty-seven distinguished administrators and trustees gathered at the School of Business to discuss how to make voluntary institutions more effective. Professor Jack McDougall edited the proceedings and they were published as a monograph entitled The Role of the Voluntary Trustee.

The competitiveness of Canadian industry is a significant concern of business. Professor Albert Wood and Richard Elgie conducted an in-depth study of the strategic role of adopting manufacturing innovation. Their findings were published in the monograph Early Adoption of Manufacturing Innovation.

As business problems become more complex, research project teams must be formed to address them. During the past year four Western faculty members grappled with the general issue of how business should deal more effectively with government. In particular, they did an analysis of the relationship between business and the Anti-Inflation Board. Their findings may be found in Managing the Political/Regulatory Environment: A study of Business Response to the A.I.B. by Professors T. Cawsey, R. Hodgson, R. Lord and D. Peach.

For a number of years two of Western's faculty, Professors Ross Archibald and Dave Shaw, have been studying the Canadian securities industry. This year they released their eighth and final study called The Canadian Securities Market: A Framework and Plan, in which they propose a number of ways in which the securities industry must change to meet the challenges of the present and future.

A case is a description of a situation in which one or more problems exist and decisions must be made. During the past year the faculty produced 129 cases and continued to revise previously written cases based on classroom use.

A new case book, An Introduction to Business Decision-Making: Text and Cases was tested in the Business 020 course during the 1976/77 term.

As in past years, the faculty continued to publish articles in the more academic journals. In 1976/77 these articles totalled 14. In addition, 15 working papers, which are early drafts of research results, were produced and widely distributed among academic and practitioner audiences.

Associates' Workshop

As part of Western's continuing effort to promote Canadian business research, nine Associates' Workshop Fellowships were awarded for the summer of 1976. These researchers drawn from the faculty of seven different universities investigated a wide variety of topics ranging from solving labour turnover problems to a study of joint ventures abroad by Canadian firms. During the summer of 1977, 10 Canadian business school faculty members will pursue their research interests on campus.

THE CONTINUING EDUCATION PROGRAM

The Continuing Education Programs of the School, both regular and special programs, continue to provide stimulating and successful management development programs for Canadian and overseas managers. The following comparative data on enrolments indicate activity levels in this area:

<u>Regular Programs</u>	<u>1975/76</u>	<u>1976/77</u>
Management Training Course	126	124
Marketing Management Course	105	120
Production/Operations Management Course	41	50
Computer and the Manager	19	n/a
Management for Accounting and Financial Executives	24	25
Senior University Administrators' Course	n/a	58
London Conference	133	98
<u>Special Programs</u>		
Sales Management (Evening)	n/a	39
Marketing Management (Evening)	64	35
Basics of Accounting and Finance for the Non-Financial Manager (Evening)	23	29
Canadian Institute of Management (Evening)	190	205
Human Resources (Evening)	n/a	35
Accounting for Inflation	31	33
Women in Management (Evening)	31	21
Commercial Union	27	26 (U.K.)
Programa de Desenvolvimento de Executivos de Alto Nivel (Brazil)	31	28

A brief description of the major summer activities follows:

Management Training Course

The 29th Annual Management Training Course had 124 participants. There were eight Provinces represented, seven people from the United States as well as representatives from Kingston, Jamaica; Guyana, South America; Cairo, Egypt; Victoria, Australia; Sydney, Australia; Rio, Brazil; Lagos, Nigeria; and Kwai Chung, Hong Kong.

Marketing Management Course

The course content has evolved over the 24 years from a focus on sales management to a broad management approach, designed to satisfy the changing needs of marketing managers. There were eight Provinces from Canada represented, as well as representatives from Australia and Jamaica.

Production/Operations Management Course

The purpose of the course is to improve the performance of managers who normally spend the majority of their time in the production or operations management area, with the emphasis on developing skills in identifying and solving operational problems.

Management for Accounting and Financial Executives

1976 was the second year for the Management for Accounting and Financial Executives Course. The overriding course objective was to extend the administrative horizons and strengthen the managerial capabilities of financial and accounting executives.

Brazilian Management Course

The Western Business School, in cooperation with a consortium of Brazilian companies, offered a three-week program for Brazilian executives in Nova Friburgo. Professor C. B. Johnston developed the program with the assistance of Professors J. T. Nicholson (Course Director), A. A. Grindlay, A. Mikalachki and H. Crookell.

Senior University Administrators' Course

The Kellogg Foundation of Battle Creek, Michigan, has awarded a grant of \$183,000 to the Association of Universities and Colleges of Canada (AUCC) to support the first Canadian management development program designed specifically for senior university administrators. The grant is for a five-year period and is complemented by a \$38,000 grant to the Richard and Jean Ivey Fund of London for research purposes over a two-year period.

This two-week course will be offered each year for five years by Western's Business School in cooperation with the Association of Universities and Colleges of Canada and the Canadian Association of University Business Officers (CAUBO).

Faculty for the second program, which was offered in July, 1977, was drawn from the Western Business School faculty - J. F. Graham, C. B. Johnston, J. T. Nicholson, D. A. Peach, M. R. Pearce and was under the direction of Professor J. J. DiStefano.

London Conference

The 21st Annual London Conference was held on May 11 - 13, 1977 at the Business School. The London Conference Chairman was Mr. Eric Barry (Canadian Paint Manufacturers Association) and the Vice-Chairman was Mr. Donald C. Morrison (Corporate Director & Business Consultant).

CENTRE FOR INTERNATIONAL BUSINESS STUDIES

The Centre for International Business Studies recently released its second annual report documenting the work it has accomplished and its immediate plans for the future. A number of significant new case studies have been completed and supplied, on request, to some 62 universities in Canada, the United States and abroad. A major research project on international technology transfer is being conducted by Professors Crookell, Killing and Wrigley, and publication is expected later this year. Furthermore, the Centre has embarked on a study to identify the firms that

constitute Canada's international business community, the foreign markets in which they are involved, and the form of their involvement. Immediate future plans call for the completion of this study, a continuation of the case writing initiative, and the launching of a three-week, in-residence International Management Course for practising executives in the Summer of 1978.

NEW APPOINTMENTS, TERMINATIONS, ETC.

The following are the changes in the Business School faculty for this year:

New Appointments:

Assistant Professors

Bell, P. C.
Gandz, J.
Pattison, J. C.
Quelch, J. A.
Raedels, A. R.
Rush, J. C.

Visiting Associate Professor

Storey, R. G.

Visiting Assistant Professor

Kuzdrall, P. J.

Instructors

Bolf, R.
Bruce, B.
Currie, J. C.
Teall, H. D.
Yousie, K. E.

Promotions:

Boydell, G. W.	Instructor to Lecturer
Butler, J.	Instructor to Lecturer
DiStefano, J. J.	Associate Professor to Full Professor
Knobloch, P. C.	Lecturer to Assistant Professor
McKay, P.	Instructor to Lecturer
Mimick, R. H.	Lecturer to Assistant Professor
Orser, R. W.	Instructor to Lecturer
Pliniussen, J. K.	Instructor to Lecturer

The Ministry has agreed to fund a program for 1977 and is considering ways and means to expand this into a year-round operation.

INDIAN BUSINESS ASSISTANCE PROGRAM

This unique Program was operated by Western for the fourth consecutive year in 1976. It is completely funded by the federal Department of Indian Affairs and Northern Development and operates across Canada. In its fourth year, the Program employed 17 M.B.A. students whose selection and general supervision was the responsibility of Professors D. G. Burgoyne and J. F. Graham.

The students involved in this Program work with native people in the area of economic development. They assist ongoing native enterprises with management consulting assistance and assist potential native entrepreneurs evaluate the feasibility and financing of new enterprises.

The students were located in Alberta, British Columbia, New Brunswick, Nova Scotia, Northwest Territories, Ontario and Quebec. In total the 17 students worked with 118 clients over the May to August period that the Program operated.

The Department of Indian Affairs and Northern Development agreed to fund a larger and expanded Program in the summer of 1977. In addition, as a result of a major reorganization within the Department, a major evaluation of the Program will be conducted post completion of the 1977 Program.

WESTERN ARCTIC PROGRAM

This Program, now in its fourth year, was designed to provide business management assistance to Indians and Eskimos in the North. Joint funding by Canadian Arctic Gas Study Ltd., Gulf Oil Canada Ltd., Imperial Oil Ltd., and Shell Canada Ltd. sent three M.B.A. and Undergraduate student consultants to the communities of Aklavik, Fort Norman and Tuktoyaktuk during the summer of 1976. These students, working under the direction of Professor J. J. DiStefano, assisted on-going businesses, worked with native people interested in starting new operations, and generally helped to improve the management capabilities in the communities in which they lived. The Program was renewed for 1977 with students located in Fort MacPherson, Fort Simpson and Tuktoyaktuk.

STUDENT JOB PLACEMENT PROGRAM

Western's Business School had an extremely active on-campus recruitment period. An examination of the activity revealed 306 executives representing 140 different companies and institutions held 3,206 interviews on campus. Fifty other firms requested their jobs be posted, and interested candidates were invited to contact them directly.

Only 35 graduates requested referral assistance. It is believed most are now employed based on the fact that they have been referred to 41 companies who have contacted the Placement Office since the end of the school year.

The School continues to provide summer jobs through its Small Business and Indian Business Programs as well as through Research. This summer 40 first year M.B.A. students and 9 H.B.A. students are involved.

The Robert Simpson Company and C.P. Limited continued their involvement in the Student-In-Industry Program by taking three and two students respectively. The Business School's Admissions Office anticipate two members from last year's Program will enroll for their senior year in September. Since the Program's inception in 1973, two former participants joined C.P. on a permanent basis, and three went with Simpsons.

The following is a three year comparative summary of Western's Placement activities:

	<u>1975</u>	<u>1976</u>	<u>1977</u>
Number of Companies Recruiting	128	142	140
Number of On-Campus Interviews	2,878	3,202	3,206
M.B.A.	1,504	1,518	1,765
H.B.A.	901	1,300	1,109
M.B.A. I (Intern and Summer)	291	249	217
Junior (Student-In-Industry and Summer)	182	104	115
Non Business	-	31	-

Mean Salary *

(* based on available statistics
at May 27/77)

M.B.A. graduates	\$14,844	\$15,959	\$18,153	*
B.A. graduates	10,622	11,299	12,119	*

THE BUSINESS QUARTERLY

The Business Quarterly is close to reaching its long-pursued goal of 10,000 ABC audited subscribers. This objective will be reached by the end of this year since present circulation is 9,450 and the renewal rate continues at 70%. Two major campaigns are planned.

Last year about 12,500 copies of each issue of the magazine were distributed; since surveys show four persons read each issue this now means a readership of 50,000. The seminars and the sale of reprints increased the income of the magazine substantially (36,000 reprints were sold). After a five year slump in advertising revenues, there is encouraging evidence that this year's sales will be greatly increased. The summer issue contains 13 full page ads. As in the past,

ever-increasing numbers of unsolicited manuscripts were received and 46 publishers requested permission to reprint editorial material. The future outlook for the magazine has never been more optimistic as it is one of Canada's leading management magazines.

WESTERN MANAGEMENT

The Award of Excellence: Meeting Objectives was won by WESTERN MANAGEMENT magazine in the 1976 International Association of Business Communicators', Canada, Awards Program. This further established its recognition as a valuable medium for reaching our graduates as well as the business community. This was its fourth year of publication, and circulation has now reached 12,000 which includes the Advisory Committee, Associate Companies, alumni, the media, and friends of the School.

This magazine provides readers with a large variety of information about the School's wide range of activities and its outreach into the national and international management community.

GILLETTE LECTURE SERIES

The 1976 Gillette Lecture was held November 11, 1976 at Alumni Hall at The University of Western Ontario. The speaker was William F. Buckley, the noted lecturer, author, and T.V. personality, who spoke on "The Problems of Freedom". The Gillette Lecture tradition of bringing celebrated and mind-expanding speakers to the University and London communities remains a prime objective of the series.

BUSINESS QUARTERLY SEMINARS

The seminar, "Managing in a Stressful Environment", which was given with considerable success four times in 1976, was presented in Calgary on February 16 and Vancouver on February 18 to capacity audiences. There were 178 persons who attended the two sessions.

This seminar, conducted by Dr. John Howard of the Business School, also included Drs. Peter A. Rechnitzer, D. S. M. Haines and D. A. Cunningham, all specialists in their particular field of medicine and associated with The University of Western Ontario. It is planned that this, and other one-day seminars featuring the faculty, will be given on an expanded basis during 1977-78.

WESTERN ALUMNI BUSINESS CLUBS

Following the organization of the initial Western Business Club in Toronto in 1974, similar Clubs have been established in Montreal in 1974 and this year Calgary and Vancouver.

Toronto, under the Chairmanship of J. Urban Joseph (MBA '63) began its 1976-77 year with an address by Mr. Cliff Houghton in June on maintenance of the free enterprise system to an audience of 350. In early October some 250 Club members and friends attended a luncheon lecture by Dr. John F. Mee, the P. S. Ross Award winner for the best article in the Business Quarterly. In cooperation with the Business Quarterly a day-long seminar on management stress was presented in

October by Drs. John Howard, Peter Rechnitzer, David Cunningham, and Milton Haines, attracting 42 participants. Two special interest seminars on Personal Investment were offered; one in the fall and one in early spring of 1977. Membership for the year exceeded 1,000 alumni.

Montreal, with a membership of roughly 450, presented Peter Newman to 200 alumni in May, cooperated with the Business Quarterly to offer the day-long Stress Seminar to 47 participants in October and drew 250 to a luncheon address by Jean Luc Pepin in December. Michel Desaulniers (MBA '66) is Chairman of the Montreal Club.

Calgary and Vancouver Clubs held their first meetings on February 15 and 17 respectively, each featuring a presentation by Dr. John Howard on Management Stress. The Calgary Club, under the Chairmanship of Bob Phibbs (BA '49) has a membership of 125, and Vancouver, under Earle O'Born (MTC '75) has enrolled over 150.

BUSINESS LIBRARY & INFORMATION CENTRE

New developments at the Business Library:

Installation of a security system.

Introduction of Table of Contents Service for faculty of the School of Business Administration.

Providing an area for the use of Audio/Visual equipment.

Subscription to CAN-FIL, Bell & Howell's microfiche service for Canadian companies. The service includes annual and semi-annual reports; prospectuses; proxy material; insider trading; 10K reports. (filings required by the U.S. Securities and Exchange Commission).

Improved Bibliographic control of material on Canadian industries. Access is by Computer produced subject printout.

The following gives an indication of the size of our collection:

	<u>1976/77</u>	<u>1975/76</u>
Books and Bound Journals	43,063	41,713
Government Documents (including Statistics Canada)	9,948	8,600
TOTAL VOLUMES	<u>53,011</u>	<u>50,313</u>
Current Periodicals, Newspaper Subscriptions	689	490
Reels of Microfilm	1,085	1,042
Microfiche (Pieces)	71,165	61,577
Annual Reports, Company & Industry Research Studies & Prospectuses (Pieces)	48,828	41,600
Total Pieces (excluding volumes)	<u>121,767</u>	<u>104,709</u>

The library updates 112 looseleaf business information services on a daily, weekly and monthly basis.

The staff answered 12,009 reference questions over the period May 1976 through April 1977.

The two photocopying machines made 161,088 copies over the same period.

APPRECIATION

The School of Business Administration recognizes and appreciates the contribution and cooperation of the other faculties and the staff of the university, the university administration, the Advisory Committee, the alumni and the Board of Governors. Special mention should also be given to Mr. Gary Grundman and the Undergraduate Business Council as well as to Mr. Vic Dusik and the M.B.A. Association for their continuing assistance in the work of the School.

REPORT OF THE DEAN

WESLEY J. DUNNCURRICULUM

In February 1976, the Council of the Faculty adopted Part II of the *Report of the Sub-Committee on the Future Delivery of Dental Care and Its Implications on the Dental Curriculum*. In March 1976, the Council endorsed a subsequent recommendation from its Committee on Undergraduate Dental Curriculum to adopt a "diagonal" structure for the undergraduate curriculum. Council agreed, as well, that as one of its major objectives it proceed to the implementation of formal programs in the areas of Preventive Dentistry, Dental Auxiliary Utilization, Treatment of Special Patients, and Nutrition. Thus the scene was laid for almost heroic efforts by the Committee on Undergraduate Dental Curriculum during the past academic year. Fifteen official meetings of the committee were held along with almost countless meetings on department, student, and individual levels in an attempt to design a timetable that would have input from all parties involved and be "diagonal" in nature.

Because of the limitations of time and in the interests of making a good curriculum better by a process of evolution rather than revolution, the main thrust for the 1977-78 academic year has been focused on the first year program. To accomplish this, however, some alterations in the second, third and fourth year schedules were necessary and were included with the recommendations arising from the deliberations of CUDC.

The Committee's report essentially consisted of amendments to timetables. These amendments, however, reflected the hours of discussion with all parties concerned and provided for the early introduction of first year students to the clinical environment.

The task of the curriculum committee, now, will be to develop the new second year program in similar depth. The implementation of any new system is always traumatic because it cannot be applied to all years at the same time. It must evolve from year to year. Thus it will not be until the 1980-81 academic year that the diagonal curriculum will be fully operational throughout the school.

EDUCATION WORKSHOP

One of the academic highlights of the year was the Faculty's Education Workshop organized by the Committee on Teaching Methods and Materials and supported, in part, by a grant from the Canadian Fund for Dental Education as well as from a portion of the Ontario Universities Program in Instructional Development Grant to Western's Health Sciences.

Three highly effective resource persons participated:

Dr. H.G. Murray, Department of Psychology, UWO - "The Lecture"

Dr. John Townsend, Faculty of Dentistry, McGill University
- "Clinical Instruction - A Multi-disciplined Approach"

Dr. John B. Houston, Faculty of Dentistry, University of Toronto
- "Clinical Evaluation"

Thirty-six members participated and all derived great benefit from their involvement.

REORGANIZATION OF CLINICAL PROGRAM

Having ascertained, with deep regret, that the Director of Clinics would be retiring from his position at the close of the 1976-77 academic year and in keeping with the university policy applicable to academic departments prior to the end of a term for the retirement-resignation of chairmen, an ad hoc Committee of Review - Department of Clinics was established. Its purpose was to review the structure, relationships, and operation of the department and also act as a Selection Committee for the appointment of a successor to Dr. K.M. Baird.

In August 1976 the committee presented its report to the Executive Committee of Council at which meeting the report was approved and was referred to the 22 September 1976 meeting of the Council for ratification.

Following early and broad-ranging discussions there was a general feeling that perhaps rather than have a specific Department of Clinics, with a Director, it would be preferable to have the general operation of the clinics conducted as a budgetary division within the Office of the Dean. This plan would presuppose a divided Office of the Dean's budget, the current dental general budget operating as it does now and a clinical budget with supervision of that operation assigned to a lay Clinic Administrator who, in his administrative role, would be directly responsible to the dean. There would then be a Director of Patient Services who would have a substantial academic appointment in at least one department and whose position description would be the basis of approved terms of reference which, among other responsibilities, would confer a high degree of authority on such a Director when the welfare of patients is at issue. Academic/clinical policy, however, would clearly be vested in the respective clinical departments of the school. Thus, effective midnight 30 June 1977, the Department of Clinics ceased to exist as a separate administrative unit. Dr. Donald F. Mulcahy was appointed Director of Patient Services, his appointment to take effect on 1 August 1977. Mr. Max B. Fisk, the former Administrative Assistant to the Director of Clinics, became Clinic Administrator on 1 July 1977.

Dr. Mulcahy will be an *ex officio* member of the Committee on Clinical Policy and Mr. Fisk will be its Secretary.

GRADUATE PROGRAM IN PERIODONTICS

The proposed Graduate Program in Periodontics was submitted, during the year, to the Faculty of Graduate Studies. The Faculty has provided an in-depth internal examination of the program including the consideration of a report prepared in respect of it by Dean J.W. Neilson of the Faculty of Dentistry of The University of Manitoba, who examined the program.

The Internal Appraisals Committee of the Faculty of Graduate Studies is satisfied with the program in its present form and, at the very end of the academic year, referred it to the Ontario Council on Graduate Studies for its external examination.

The Faculty continues to have hopes that the Graduate Program in Periodontics can be launched in the summer of 1978.

POSTGRADUATE MANPOWER COMMITTEE

The Council of the Ontario Faculties of Medicine established, under the chairmanship of Dr. James E. Boone, a Postgraduate Manpower Committee of Ontario. As the report would have strong implications for residencies and internships, it was deemed appropriate that dental specialties be included, as well. Accordingly, it was agreed between the two Faculties of Dentistry in Ontario that Dr. J.H.P. Main of the Faculty of Dentistry of the University of Toronto would be dentistry's representative on the Postgraduate Manpower Committee.

Under Dr. Main's direction, a study group on postgraduate manpower in dentistry was established with initial attention being directed to Oral Surgery and Oral Pathology. Western had three representatives on this study group--Dr. D.G. Gardner, Dr. A.G. Parnell and Dr. G.Z. Wright. In April 1977, the draft report was completed and was subsequently submitted to the COFM Committee on Postgraduate Manpower, then to COFM itself and, finally, to the Ministry of Health. At about the same time, there was general agreement that similar studies should be done on provincial manpower needs in the other dental specialties. Accordingly, the following representatives from the Faculty were appointed to the study group on dentistry:

Dental Public Health	- Dr. D.W. Banting
Endodontics	- Dr. D.H. Skinner
Oral Radiology	- Dr. J.A. Reid
Orthodontics	- Dr. W.S. Hunter
Paedodontics	- Dr. G.Z. Wright
Periodontics	- Dr. J.E. Stakiw
Prosthodontics	- Dr. P.S. Sills.

CONTINUING EDUCATION

Again, this year, several valuable continuing education programs had to be cancelled because of inadequate participating interest on the

part of the profession. The following four courses were withdrawn even though considerable effort had been made toward their presentation:

Common Oral Diseases

Management of Dental Materials in Restorative Dentistry

Participation Course in Hospital Dentistry

Utilizing the Hospital for Oral Surgery.

Sixteen courses were presented during the 1 July 1976 through 30 June 1977 period. The following are the courses, the dates on which they were held, and the number who attended:

<u>Title</u>	<u>Date(s)</u>	<u>Attendance</u>
Sedation in Dentistry	20-22 October 76	16
Anterior Resin Restorations: A New Concept of Operative Dentistry	22-24 October 76	9
Radiology for Dental Assistants/ Hygienists	22-23 October 76 25-26 February 77	12 12
Periodontics, Oral Diagnosis, and Oral Medicine Applied to General Practice	4- 8 November 76	13
Fundamentals of Occlusion and Articulation	11-13 November 76	13
Operative Dentistry Today	26-28 November 76	28
Endodontics and Preventive Endodontics	10-12 December 76	18
What's New In Operative Dentistry?	14-16 January 77	8
Occlusal Correction-Part I (held in Oshawa)	3- 7 March 77	4
Operative Dentistry and Endodontics for the General Practitioner	18-20 March 77	14
Dentofacial Orthopedics	7 April 77	19
Removable Partial Dentures	31 March-2 April 77	14
Anterior Restorative Dentistry	15-17 April 77	9
Orthodontic Diagnosis, Treatment Planning and Appliance Therapy	16-17 June 77	14
Occlusal Correction (Part I)	16-20 May 77	4
Dental Anatomy and Occlusion	23-25 June 77	6

UWO CLINIC NIGHT

Again, the Faculty was privileged to be requested to present a Student Clinic Night as part of the formal program of the London and District

Dental Society. On 2 December 1976, five students offered the following topics for the interest of the members of the society:

"Immunology re Periodontal Diseases"	Mr. D.E. Noble
"Drug Abuse"	Mr. B.J. Adler
"Marginal Integrity of Amalgam"	Mr. P.E. Graham
"Electronic Determination of the Length of Root Canals"	Mr. E.W. Mitchinson
"Hypertension as it Relates to Dentistry"	Mr. E.S. Philips

The presentation of Mr. Donald E. Noble was adjudged to be the most meritorious and, as a consequence, Mr. Noble had the privilege of being selected to represent this Faculty at the Student Table Clinic Program, a portion of the scientific program of the Annual Convention of The Canadian Dental Association being held in October 1977 in Toronto.

RESEARCH ACTIVITIES WITHIN THE FACULTY

The following research projects, funded by various granting agencies, were initiated or approved for on-going support during 1976-77:

Department of Oral Medicine

Dr. J.A. Reid - "Comparison of Panorex and Intraoral Surveys for Routine Dental Radiography", Richard Ivey Foundation, \$1,000.

Department of Paediatric and Community Dentistry

Dr. D.W. Banting - "A Longitudinal Study of Dental Root Surface Caries", Department of Health, Education and Welfare, \$21,805.

Dr. G.Z. Wright - "Dental Floss Study", Johnson and Johnson Ltd., \$13,949.50.

Department of Restorative Dentistry

Dr. L.N. Johnson and Dr. R.E. Jordan - "Rheological Studies of Pre-Set Dental Restoratives", Ministry of Health, 1 April 76-31 March 77, \$20,092

Dr. R.E. Jordan - "Arrest of Carious Lesions by Means of Fissure Sealant Application," Ministry of Health, 1 April 76-31 March 77, \$19,120

Dr. R.E. Jordan and Dr. L.N. Johnson - "Amalgam Alloy Restorations", Ministry of Health, 1 April 76 - 31 March 77, \$12,700

Dr. M. Suzuki, Dr. R.E. Jordan, and Dr. A.J. Gwinnett - "Acid Etch Restorations", Ministry of Health, 1 April 76 - 31 March 77, \$12,100.

In addition to the above, various other non-funded research activities took place in the Faculty, as well. The MRC General Support Grant was employed for the following projects:

- Dr. D.W. Banting, Department of Paediatric and Community Dentistry, "Study of Fluoride Content of Cementum in a Fluoridated Area" \$600.
- Dr. R.I. Brooke, Chairman, Department of Oral Medicine, "Myofacial Pain Dysfunction Syndrome" \$1,000.
- Dr. K.A. Galil, Department of Anatomy and Dr.R.E. Jordan, Chairman, Department of Restorative Dentistry, "Arrest of Carious Lesions by Means of Fissure Sealant Application", \$850.
- Dr. R.H. Johnson, Department of Oral Medicine, "Clinical and Laboratory Investigation Evaluating Spiramycin as a Plaque Control Agent," \$640.
- Dr. B.J. Zulqar-nain, Department of Oral Medicine, "Study of Gingival Crevice Fluid Flow", \$250.

In addition, an amount of \$1,200 was provided for Graduate Orthodontic Research under the direction of Dr. W.S. Hunter, Department of Paediatric and Community Dentistry.

MRC VISITING PROFESSOR

The Faculty was privileged, during the year, to enjoy and benefit from the contributions of its 1976-77 MRC Visiting Professor, Dr. Colin Dawes, Professor of Oral Biology of the Faculty of Dentistry of The University of Manitoba. Dr. Dawes visited the Faculty early in October and in addition to the usual contributions within the school he delivered the Annual Public Lecture, "Biological Rythmns" on Wednesday, 6 October. The Faculty expresses its gratitude to Dr. Dawes for his excellent contributions and to MRC for its sponsorship.

MRC SUMMER UNDERGRADUATE RESEARCH SCHOLARSHIPS

In February 1977 the Faculty was advised by MRC that the Summer Undergraduate Research Scholarships had been reinstated for the summer of 1977. A total of five scholarships was available to successful applicants from the first, second, or third years. Following receipt of applications and review by the Committee on Undergraduate Research Students' Selection, the following scholarships were awarded:

Donald Farquhar, II Year	-	Oral Pathology
Debbie Lonsdale, II Year	-	Restorative Dentistry (Division of Dental Materials)
James Parker, II Year	-	Bacteriology
Cathy Carter, III Year	-	Oral Surgery
Lee Hickling, III Year	-	Oral Surgery.

AMERICAN DENTAL ASSOCIATION'S STUDENTS' RESEARCH CONFERENCE

Miss Donna M. Gregorash, an honour and award-winning student of the second year, was selected to represent the Faculty at the 13th Annual Dental Students' Conference on Research held in Bethesda, Maryland on 2-3 May 1977.

CANADIANS FOR HEALTH RESEARCH

The inaugural meeting of the London Chapter of Canadians for Health Research was held on 22 September 1976. The fundamental purpose of the organization is to enlist public support in encouraging an improvement in the status of health science research funding in Canada. This national organization, in a startlingly brief period of time, has made its influence felt at the Federal level.

THE COLOMBIA EXCHANGE PROGRAM

The second year of the three-year exchange program with the Facultad Odontologia of the Universidad de Antioquia was successfully concluded. Four members of the academic staff of our South American exchange partner visited us during the year. They were: Dr. J.M. Castrillon, Dr. R. Jimenez, Dr. M. Posada, Dr. L.F. Uribe.

The following members of the Faculty of Dentistry of The University of Western Ontario both enjoyed and benefited from their visit to Colombia: Dr. W.H. Feasby, Dr. R.H. Johnson, Dr. J.A. Reid, and Dr. I.D.F. Schofield.

The third and final year of the program will take place in the 1977-78 academic year.

SENIOR AWARD IN ORAL BIOLOGY TERMINATED

It was with regret that the Faculty learned that the Senior Award in Oral Biology will be terminated with the 1976-77 academic year. Dr. K. Hoshino, the donor of the award, has taken up an academic position in the Department of Anatomy of Kyoto University and has, therefore, found it impossible to continue the award.

Dr. Hoshino, a former Professor of Anatomy at Western, has been the donor of this annual award since leaving Western to assume academic responsibilities in the University of Manitoba. The Faculty of Dentistry expresses its warmest appreciation to Dr. Hoshino for his encouragement of academic excellence in this Faculty.

ADVISORY COMMITTEE TO THE FACULTY OF DENTISTRY

The Advisory Committee to the Faculty of Dentistry held its ninth annual meeting on Wednesday, 27 October 1976. For the first time since the committee was established, Dr. Harvey W. Reid, the representative of The Canadian Dental Association, was unable to be present and was unable, therefore, to serve as chairman. Dr. R. Paul McCutcheon ably

served in his stead.

Although no recommendations were forthcoming from the Advisory Committee, some concern was expressed on the matter of continuing education. Also, it was hoped that the Faculty would continue to keep under advisement the possible development of additional graduate programs.

PROFESSIONAL CONDUCT CODE

Although the ad hoc Committee on Professional Conduct Code had earlier hoped to establish appropriate tribunals within the Faculty of Dentistry, it became obvious that the university's involvement with the Statutory Powers Procedure Act precluded the establishment of specific arrangements for individual Faculties. The ad hoc Committee then recommended that its existence be terminated. The Council, however, requested that the committee remain until such time as it produced a definition of professional and non-professional conduct of dental students.

The ad hoc committee presented its recommendations to the Executive Committee in November 1976 at which time definitions were approved and the ad hoc committee dissolved.

Professional Conduct

Professional conduct of the student-dentist embraces characteristics of honesty and integrity and is demonstrative of such deportment and attitude that maximum consideration is given to the reasonable needs, interests, and concerns of his patients, his colleagues, his school, his profession, and society.

Non-Professional Conduct

Insofar as the Faculty of Dentistry has been entrusted by the public, through legislation, to instruct and to certify students capable of performing certain tasks proficiently and to have sufficient knowledge and skill to carry out the ordinary functions of a dentist, it is considered non-professional conduct to attempt in any way to subvert the means of evaluating student progress or accomplishments. Without limiting the generality of the foregoing, such conduct shall include plagiarism, falsified records, and cheating.

The conduct of students within the scope of the teaching and treatment activities of The University of Western Ontario's Faculty of Dentistry should be that which is ordinarily expected of morally-competent individuals carrying out their work as students and student-dentists. Conduct which deviates from this shall be deemed non-professional conduct. In particular, conduct that impinges upon or endangers the property, freedom, or safety of others within the teaching and treatment activity of the Faculty of Dentistry, The University of Western Ontario, shall be deemed to be unprofessional conduct. Without limiting the generality of the foregoing, such conduct shall include assault, theft, wilful damage to property, performance while impaired, embezzlement, disruption of university function, improper recording or accounting with intent to defraud.

SANCTIONS FOR SUBVERSION OF THE EVALUATION SYSTEMS

During the 26 September 1976 meeting of the Council a motion was moved and seconded relative to sanctions for subversion of the evaluation systems of the Faculty. The motion was tabled to allow greater time for consideration.

At a special meeting of the Council held on 1 December 1976, the matter was reopened and debated in considerable depth.

The motion on which the debate ensued is as follows:

"Whereas our graduates can proceed directly into independent private practice and whereas we have a responsibility to people of Ontario to graduate qualified dentists of integrity

Therefore be it resolved...

That those students found guilty of premeditated subversion of the evaluation systems be expelled, and

That the minimum penalty for subversion of the evaluation systems shall be automatic failure of the year with the opportunity of repeating the year."

Unquestionably, all members of Council were supportive of the general intent of the resolution. None would condone the subverting of the Faculty's evaluative mechanisms. However, the majority was concerned about the lack of flexibility in the sanction without having any regard to the particular circumstances pertaining. In addition, there was considerable difficulty in attempting to define precisely the meaning of the word "premeditation." The resolution was defeated.

REGULATIONS AND PROCEDURES

During the year, considerable attention was given to the clarifying of certain regulations and procedures within the school.

The dean, acting as a committee of one, produced a position paper which was considered by the Executive Committee during its October 1976 meeting.

The following areas of the Faculty's regulations and procedures were addressed in the report:

- a) Academic Requirements
 - (i) Defining "Subject"
 - (ii) Incomplete Status
- b) Fourth Year Written Examinations
- c) Format of Supplemental Examinations

- d) Reporting Grades to Examinations Committees
- e) Informing Students of Their Final Performance Evaluations
- f) Grades for Repeating Students
- g) Scheduling of Term Tests and Final Examinations.

The clarifications resulting from this exercise have considerably improved the regulations and procedures governing examinations, term tests, grading, reporting of results, and the like.

RELATIONSHIP BETWEEN COUNCIL AND ITS EXECUTIVE COMMITTEE

"The Executive Committee may act in the name of, and on behalf of, the Council between regular meetings of the Council." Although the constitutional provision is clear, the implementation of that provision has not always been readily apparent. The Chairman of the Council and Executive Committee was asked to prepare a position paper on the relationship between the Council of the Faculty of Dentistry and its Executive Committee in the hope of having Council clarify duties and responsibilities. The purpose of the position paper was to suggest a relationship between the Council and its Executive Committee which would permit the Council to exercise its prerogatives as the determiner of policy while permitting the business of the Faculty to be performed effectively and efficiently consistent with the policies approved by Council and by the Senate of the University.

As a consequence of the position paper, several actions were taken.

Firstly, a quorum for meetings of the Council of the Faculty of Dentistry was established at 25.

Secondly, any member of Council is entitled to attend meetings of the Executive Committee provided that he/she has informed the Office of the Dean at least 24 hours in advance of the scheduled meeting of the Executive Committee of his/her intent to attend.

Thirdly, the Council conferred on its Executive Committee authority to act for and in the name of the Council in dealing with results of examinations at such times that meetings of Council are impractical.

TIMING OF FOURTH YEAR EXAMINATIONS

Toward the end of the academic year, consideration was again given to the appropriate timing of the written examinations applicable to fourth year. For the past few years, the examinations have been written at the end of the third quarter thus leaving the fourth quarter totally free for the completion of clinical assignments. Although there are some advantages to this method there are disadvantages, as well. Accordingly, the Executive Committee of Council directed that the Committee on Clinical Policy be requested to give consideration to procedural problems bearing on the completion of the Faculty of Dentistry's longer than normal university fourth year in juxtaposition to the need to inform the Office of the Registrar of the results in time to involve our students in Convocation.

It has been suggested that if the written examinations are delayed until the end of the fourth quarter, there will be less likelihood of students having incomplete clinical requirements at the time a judgement must be exercised concerning a recommendation to Senate for graduation.

USE OF ANIMALS IN CLINICAL FACILITIES

In November 1976, during the inquiries portion of the Executive Committee meeting, a question was posed inquiring if there were a policy within the Faculty bearing on the use of animals, either living or dead, within the clinical facilities of the Dental Sciences Building. As, at that time, none existed, the subject was referred to the Committee on Clinical Policy for consideration. During the February 1977 meeting of the Executive Committee a policy was presented, adopted by the Executive Committee and, in March 1977, ratified by the Council:

"That animal tissue, either alive or dead, not be allowed within patient treatment areas of the Faculty of Dentistry, and

That in the event living or dead animals or animal tissue must be utilized for continuing education purposes, the first year preclinical laboratory may be utilized for the purpose upon application to the Committee on Clinical Policy, such application to be made four weeks in advance to the Director of Patient Services indicating the exact protocol for the introduction of animal tissue into the area, and

That instruments or supplies used in animal quarters and on living or dead animals or tissue must not be reintroduced into clinical areas of the Faculty, and

That in the event clinical apparatus such as electro-surgery units, x-ray machines, etc., are needed for animal-centered techniques, a written application must be submitted in advance to the Director of Patient Services, such application including the format of usage of the requested material together with a specific outline on the exact method by which non-contamination of the apparatus will be guaranteed before reintroduction into the clinical area."

HEALTH SCIENCES' LIBRARY

Considerable discussion has taken place during the year on a proposal which may eventually amalgamate the Health Sciences' and the Natural Sciences' Libraries. The Chief Librarian and his staff seem to favour the amalgamation on the basis that they believe better services can be provided the users with a concomitant exercise in greater economies. The Chairman of the Health Sciences Library Committee has independently sought views and opinions from other universities in which there are such amalgamations in order to assist the Health Sciences Library Committee in deliberating upon this important issue.

LIBRARIAN-IN-CHARGE, HEALTH SCIENCES LIBRARY

After a decade of service, Miss M.A. Seheult, Librarian-in-Charge, Health Sciences Library, at her own request, asked to be relieved of the position in order that she could assume the post of Collections Librarian. Although the Faculty deeply regrets Miss Seheult's departure from the position of Librarian-in-Charge, it enthusiastically welcomes, as her successor, Mr. Larry Lewis, formerly of the Faculty of Music Library. Mr. Lewis brings to his new assignment an appropriate academic background and a wealth of practical experience.

FACULTY CREST REGISTERED

Following a request from the Office of the President, the Faculty of Dentistry Crest was transmitted to Federal governmental authorities for the purpose of having the crest registered. On 29 September 1976, the publication of this Faculty's crest in the *Trademarks Journal* gave public notice that the crest was duly registered and thus protected.

CHAIRMAN, DEPARTMENT OF ORAL MEDICINE

Dr. R.I. Brooke's first term as Chairman of the Department of Oral Medicine concluded on 30 June 1977. It is a pleasure to report that after following all procedures required by the Senate Dr. Brooke was unanimously selected for and agreed to undertake a second five-year term. Dr. Brooke has given superb leadership to his department and the Selection Committee had no difficulty whatsoever in enthusiastically recommending a second term.

APPOINTMENTS, RESIGNATIONS, RETIREMENTS

It is a pleasure to report on the impending arrival of the following two colleagues joining the Faculty:

Dr. David I. Johnston, Assistant Professor, Department of Paediatric & Community Dentistry, effective 1 August 1977

Dr. Donald F. Mulcahy, Director of Patient Services and Assistant Professor, Department of Restorative Dentistry, effective 1 August 1977.

The following accepted appointments to the part-time faculty during the 1976-77 academic year:

Dr. R.L. Allingham, Clinical Instructor, Department of Paediatric & Community Dentistry, effective 15 October 1976

Dr. Cynthia Armstrong, Clinical Instructor, Department of Oral Surgery, effective September 1976

Dr. M.D. Pus, Clinical Instructor, Department of Restorative Dentistry, effective September 1976

Dr. O.A. Tucker, Clinical Instructor, Department of Paediatric & Community Dentistry, effective September 1976

Dr. G.R. Walker; Clinical Instructor, Department of Restorative Dentistry, effective December 1976.

The Faculty looks forward, with considerable anticipation, to the contributions of these colleagues over the years to come.

It was with regret that the Faculty experienced its first retirement from the academic staff of the school during 1976-77. Dr. K.M. Baird, Associate Professor and Director of Clinics, retired, effective 30 June 1977, following ten years of appreciated service to this Faculty. By action of the Board of Governors, Dr. Baird has had Emeritus status conferred on him.

The Faculty, with regret, records the following resignations from the part-time and full-time faculty complement:

Full Time

Dr. H. Goldberg, Assistant Professor of Oral Surgery, effective 30 June 1977.

Dr. J.E. Ryan, Associate Professor of Restorative Dentistry, effective 30 August 1977.

Part Time

Dr. B.W. Neable, Clinical Instructor, Department of Restorative Dentistry, effective 30 April 1977

Dr. G.M. Sears, Clinical Instructor, Department of Restorative Dentistry, effective 30 April 1977

Dr. I.M. Simon, Clinical Instructor, Department of Restorative Dentistry, effective 30 December 1976.

PRESIDENT D. CARLTON WILLIAMS RETIRES

It is with the deepest regret that the Faculty of Dentistry records the retirement of Dr. D. Carlton Williams on 30 June 1977. The decade of service contributed by Dr. Williams to The University of Western Ontario has, quite correctly, been called "The Lively Decade." Dr. Williams has given magnificent leadership to the university and was particularly effective in acting as the university spokesman before groups as wide in their diversity as they were broad in their interests. He will be deeply missed.

The Faculty of Dentistry is happy to welcome Dr. Williams' successor, Dr. George E. Connell, Vice-President, Research and Planning, of the University of Toronto. Dr. Connell, during his chairmanship of the

of the Department of Biochemistry of the University of Toronto was an active participant in the delivery of dental education and the fact that both his parents were dentists, graduates of the School of Dentistry of the Royal College of Dental Surgeons of Ontario, provides, perhaps, some justification for this Faculty's even more heightened pleasure at his coming.

FACULTY OF EDUCATION

Dean Bernard J. Shapiro

Implicit in the establishment of the Faculty of Education on September 1, 1973 was the expectation of a full integration of the Althouse and London Teachers' Colleges, together with the program and faculties of both. The process has been slow but the expectation is being realized.

The 1976-77 academic year marked the introduction of the new basic teacher training program prepared by the combined faculties. The program was carried on in two divisions: Division I for Elementary Teachers and Division II for Secondary Teachers, along with three Special Certificate courses in Vocal Music, Special Education, and Oral French. There was, however, more of the faculty teaching in both Divisions than ever before. The unified Library Service and Student Media Work Centre at Althouse College encouraged a mixing of students. At the same time, the Student Council Office, Placement Office, and Student Counselling Service - all housed at Elborn College along with the Graduate Studies Office - drew students of both Divisions to that building. Further, classes were held wherever in the two College facilities were best, thus increasing awareness of the integrity of the Faculty of Education.

The introduction of the new programs was not without difficulties to be resolved in coming years in that the general design of the program seems to have assumed a faculty resource somewhat larger than will be available to the Faculty of Education in the years immediately ahead. Similarly, at the end of its first year, a number of difficulties have surfaced relative to the Indian Teacher Education Program (ITEP). The Faculty remains, however, committed to the objectives of this program, and we hope to make improvements in this second year during which we expect approximately twenty students - twelve in year one and eight in year two.

At the graduate level, there were approximately eighty full-time equivalent students registered in the M.Ed. (Educational Studies), M.Ed. (Guidance) and M.A.T. programs. Although new initiatives are presently underway for the expansion of the number of academic areas in which the M.A.T. program is offered, it has proved difficult to attract large numbers of students to both this and the M.Ed. (Guidance) program. To some extent, this may be due to the increased difficulty experienced by school personnel in obtaining sabbatical leaves for graduate study, but, in any case, it will necessitate more active recruitment for these priority programs. Increased attention to continuing education will also be necessary, and as part of this effort to increase the access of the profession to the faculty, the first in a planned series of conference programs was held in this year.

The 1976-77 year marked the beginning of two new publishing ventures by the Faculty of Education. The first of a series of monographs - Starting the Ark in the Dark: Teaching Canadian Literature in the High School - was published in April, 1977. It is hoped that this series which is designed to be financially self-supporting will become a source of thought provoking material for practising educators. The second venture, The News Quarterly, is another facet of the Faculty's effort to communicate our activities, concerns, and achievements to teachers, school administrators, government personnel, and other Faculties of Education. Three thousand copies of the first edition of the Quarterly - Spring, 1977 - have brought encouraging responses from many people among whom were a large number for whom this was a first introduction to our particular Faculty.

In terms of individual faculty publication, the reader is referred to Appendix A of this report. In general, I can report that the research activities of the Faculty increased in both number and scope. Nineteen of the individual projects were supported through the Faculty's internal budget, a strategy which we hope will reinforce general research activity in the faculty and result in increased external funding possibilities over time. In addition to this individual activity, the Educational Policies Committee undertook a formal evaluation of our basic pre-service program, and the journals of three societies in professional education were edited by members of our faculty. Highlights of the professional conference year included the eight faculty represented on the annual program of the Canadian Society for the Study of Education and the success of the large Man, Environment, Impact Conference which was held in Toronto under the general chairmanship of Professor D. Webber of our Mathematics-Science Department.

In addition to the appointment of a new Dean (Bernard Shapiro) in July, 1977, further administrative changes have been undertaken to simplify and thus make the work of the Faculty more effective. In the Office of the Dean, the two Associate Deans and four part-time Coordinators have been replaced by two Assistant Deans - Professor Hugh Stevenson (pre-service programs) and Professor Paul Park (in-service and graduate programs) - and a Coordinator of Educational Services (Professor D. Harris) who is responsible for the ancillary services of the Faculty including supervision of staff, buildings, and budget. Mr. J. Sterken and Mr. W. Blackbird were appointed as Directors of the Cross Cultural Learner Centre and the Indian Teacher Education Programs respectively.

At the departmental level, the responsibilities of the Department Coordinators was increased, while at the same time the number of Departments was reduced from sixteen to twelve, as follows:

Business and Computer Studies
 Educational Administration (formerly
 Professional Practices)
 Educational Psychology (formerly
 Psychology and Guidance)
 English and Modern Languages (formerly
 separate)
 Fine Arts (formerly Art and Music)
 History and Comparative Education
 Instructional Methods and Media
 Mathematics-Science (formerly separate)
 Philosophy
 Physical and Health Education
 Social Science
 Technical Studies

A corresponding simplification of the committee structure of the Faculty was achieved by combining the work of a number of committees and abandoning others as standing arrangements. The standing committees of the Faculty now are:

Educational Policies
 Appointments, Promotion and Tenure
 Library, Resource Centre, and Teaching Aids
 Research, Development, and Publications
 Sector Planning
 Committee on Committees

Relative to the placement of the 1975-1976 graduates, approximately 72% of the graduates were placed in teaching positions as of October, 1976. Although the number of applications to our basic training programs continues to increase, the job market for beginning teachers will continue to constrict severely over the next several years. The plans of the Faculty in relation to this problem are described in the five-year planning document submitted to the University's central administration.

ENROLMENT

B.Ed. Winter Course, 1976-1977

Secondary Program - Type A	427
Secondary Program - Type B	119
Elementary Program	452
Vocational & Occupational	45
Total	<u>1043</u>

Summer Program, 1976

Type A Seminars	100
Business & Commerce	139
School Librarianship	68
Vocational Courses	69
Elementary Physical Education	96
Guidance	110
EST 4	29
Waterloo/UWO Math Program	32
Total	<u>643</u>

Graduate Programs

M.A.T.	
Full Time	3
Part Time	16
M.Ed. (Guidance)	
Full Time	19
Part Time	67
M.Ed. (Educational Studies)	
Full Time	10
Part Time	256
All Graduate Programs	
Full Time	32
Part Time	339

FACULTY CHANGES*

Resignations & Terminations

R. Bartlett	Assistant Professor, Physical & Health Education
G. Bennett	Assistant Professor, Music
G. Bergey	Assistant Professor, English
C. Dunn	Assistant Professor, Mathematics
G. Hulley	Assistant Professor, Psychology
H. Long	Assistant Professor, Social Science
J. Savage	Assistant Professor, Physical & Health Education

Appointments

W. Blackbird	Lecturer, Social Science
J. Brown	Assistant Professor, Social Science
P. Burroughs	Assistant Professor, Music
L. Davis	Lecturer, Physical & Health Education
L. Hodson	Visiting Assistant Professor, English
H. Hooper	Visiting Assistant Professor, English
P. Lafond	Lecturer, Technological Studies
K. Leyland	Lecturer, Technological Studies
A. Lukasevich	Assistant Professor, English
J. Martin	Assistant Professor, Art
W. Meaden	Lecturer, Art
S. Pravica	Assistant Professor, Mathematics
J. Shafer	Lecturer, Philosophy
B. Shapiro	Professor, Psychology
J. Short	Lecturer, Psychology
M. Sitko	Associate Professor, Psychology
J. Stapleton	Assistant Professor, Professional Practices
A. Van Holst	Assistant Professor, Physical & Health Education

Changes Within Faculty

R. Moro	Assistant Professor, Technological Studies - Granted Tenure
M. Robinson	Lecturer, Moderns - Visiting Assistant Professor
C. Smiley	Lecturer, Psychology - Appointed to Additional Term

* Refers to full-time faculty and includes only those changes which both were not previously reported and took effect in the period July 1, 1976 - June 30, 1977.

DEAN'S REMARKS - REPORT TO THE PRESIDENT

FOR THE

FACULTY OF ENGINEERING SCIENCE

Dean's Remarks

During the year 1976-77 the Faculty of Engineering Science continued on a generally satisfactory growth and consolidation path.

The Undergraduate Program

The Faculty continued its limited first year enrolment of about 275 students. There was a reduction of visa students to ten percent of the new students admitted, imposed for the first time. The total undergraduate body exceeded eight hundred students and is expected to level off shortly at about 825 students.

The conversion of the undergraduate program to a term system completed its third year and will be in full effect when the undergraduate programs are re-evaluated by the Canadian Accreditation Board during 1978-79; such an accreditation procedure is essential for the future professional recognition of the graduates from Bachelors programs in Canadian Engineering Faculties and is expected that the Western program will fully satisfy requirements.

To accommodate larger classes, 1976-77 saw a further investment in new undergraduate laboratory apparatus, so that over approximately two years, over \$200,000 has been invested in equipment, in an attempt to ensure adequate, up-to-date facilities.

The graduating class will now number about 125, close to the expected future steady state contribution to Canadian enterprise. For these students, the opportunities in industry, consulting, government, and other positions remained generally bright through early 1977.

The Graduate Program

The notable development in 1976-77 was the successful appraisal of the Doctorate program, following recommendations of consultants of international stature who visited the Faculty in the summer of 1976, and the presentation of submissions concerning research and programs to the Advisory Committee on Academic Planning in the fall of 1976. The successful appraisal ended five years of uncertainty about doctorate work at Western following the Ring of Iron report in 1971. But more

important, a flexible advanced research program is now in place for study to the doctorate degree in the areas in which the Faculty has excellent facilities and faculty of international recognition.

The numbers of graduate students have been maintained at about 30 Doctorate students and 50 Masters students in full-time study. Part-time study has declined somewhat to about 40 students, as a result of satisfying the demand in the London area over several years. An exception is the Environmental Engineering Masters program in Sarnia which maintains a steady state of about 15 students.

Funds from the National Research Council awarded to members of the Faculty and announced in April 1977 increased about 35 percent over the comparable awards made in 1976. Partly this was due to awards to new faculty, but the major advance was in new funding for equipment.

The total research and contract funding of activities of faculty in Engineering Science, on a per professor basis, is probably among the highest in Canadian Engineering Faculties and Schools, exceeding \$32,000 per professor.

New Faculty

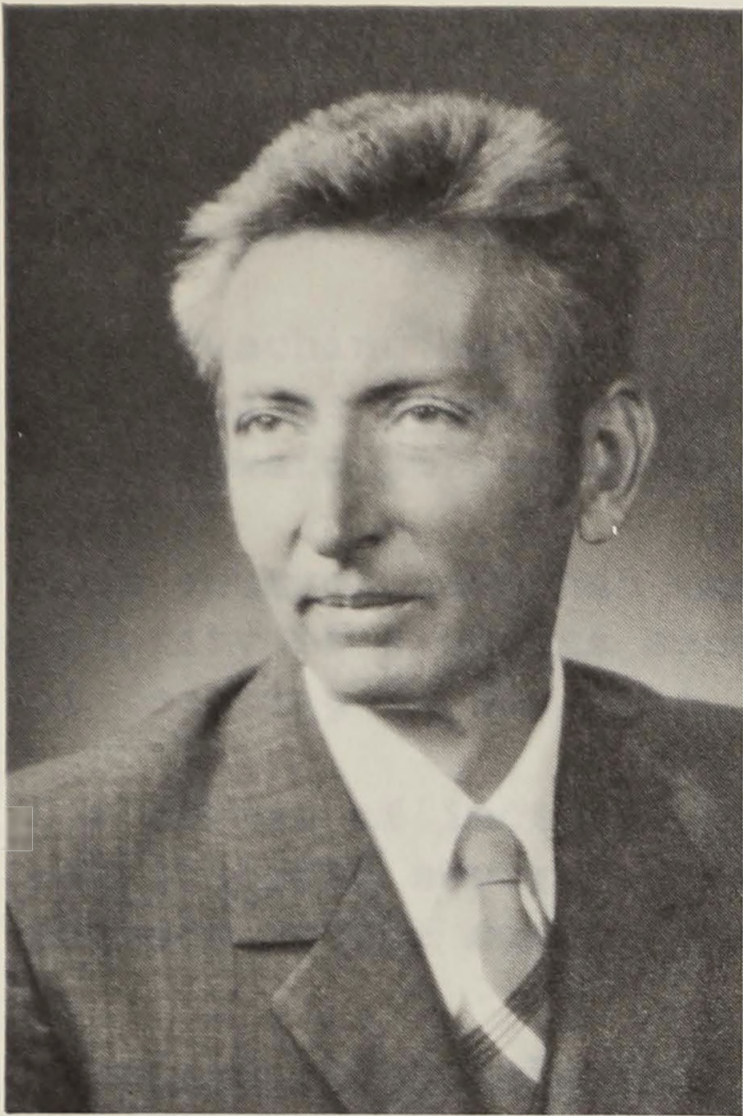
During the year 1976-77 five new faculty members joined the Faculty of Engineering Science. Indicating their undergraduate group affiliations and research fields, these were: Professors Kucerovsky, MacDougall (both Electrical Engineering/Radio Engineering), Margaritis (Chemical and Biochemical Engineering), Moan (Materials Engineering/Fracture Mechanics), Vickery (Civil Engineering/Industrial Aerodynamics). During 1976-77 there were four additional positions authorized and active recruitment to fill these was undertaken. These new faculty will meet the larger undergraduate lecture and laboratory needs arising from the enrolment doubling in the past five years and provide new stimulation in the graduate research areas put forth by the Faculty.

Professor Alan Watson left the Faculty of Engineering Science at the end of the 1976-77 academic year to join the Faculty of Engineering at the University of Windsor.

During 1976-77 sabbatical leaves were held by Professors Baker, Base and Peacock; Professor Davenport was on leave for the winter term at Cambridge University as a Commonwealth Visiting Professor. During the past five years over half of the tenured faculty have enjoyed leaves, providing opportunities to bring new ideas to the Faculty, as well as to consolidate their own research and scholarly work.

Group Chairmen's Reports

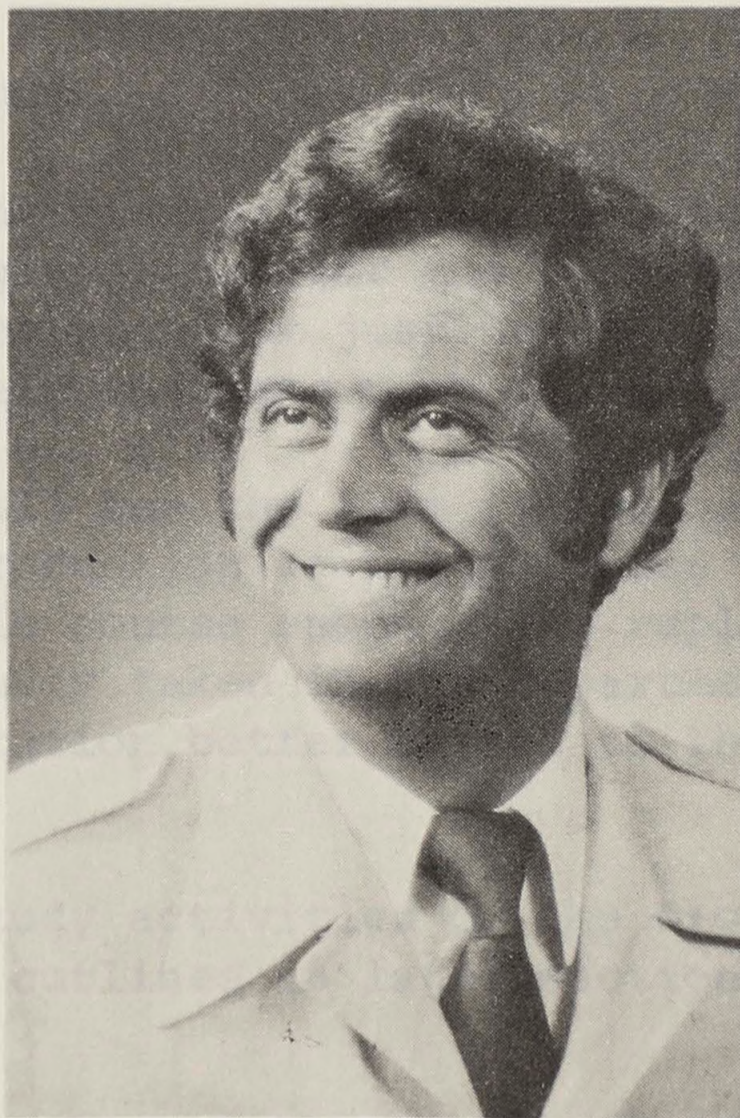
The following summarize the salient activities, both in teaching and research, that are associated with the Groups:



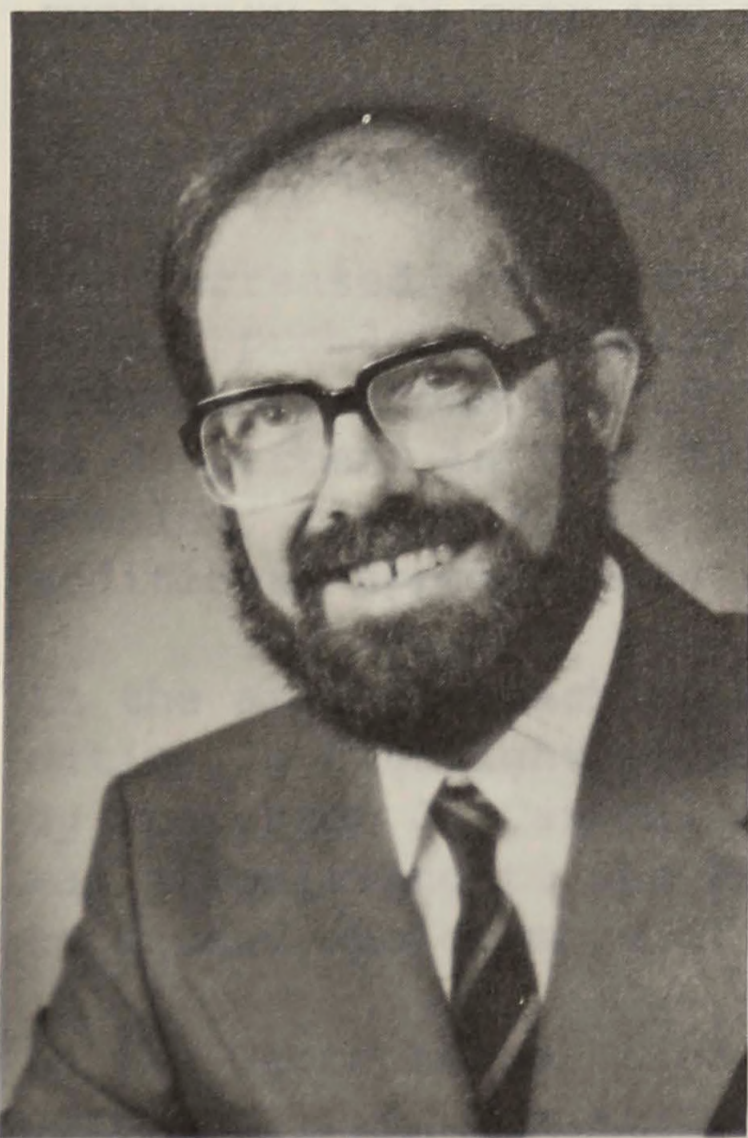
Z. Kucerovsky



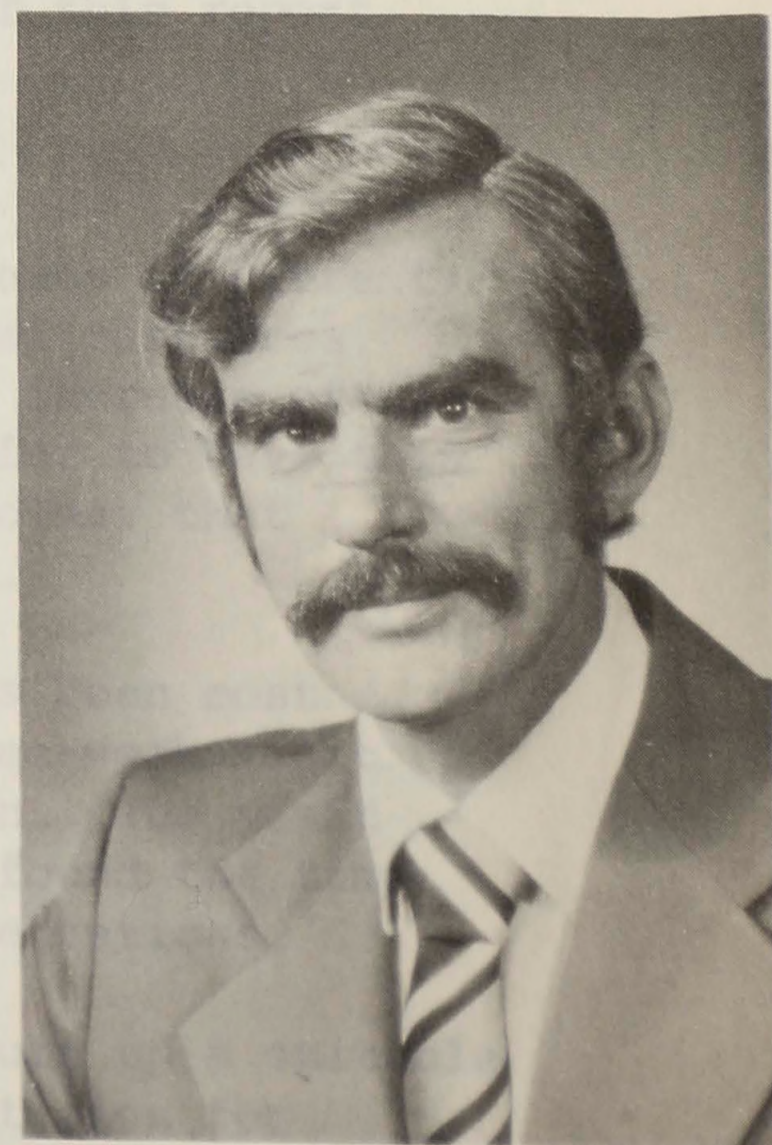
J. MacDougall



A. Margaritis



G.D. Moan



B.J. Vickery

Core Studies Group

A new course in statistics was approved and will be offered in the second year of our engineering program, starting in 1978-79.

Team teaching has been introduced in most of the core courses. The interchange between faculty and the smaller class is undoubtedly a step toward improving the quality of our program.

Most courses have had mandatory tutorials in the past year and the majority of students seemed to respond very favourably to this method of teaching in the core.

Our series of lectures by Dr. John Cannell from the Open University has inspired several faculty to further modify and improve their teaching methods in the coming year.

Chemical and Biochemical Group

There has been no significant change in undergraduate enrolment in Chemical and Biochemical Engineering over the past year. The third and fourth year enrolment figures stood at just under 30, and preregistration figures indicate approximately the same numbers of students next year.

The 1977-78 academic year will see the term system reach fourth year. This will result in the introduction of a new course entitled "Industrial Instrumental Analysis". This course essentially replaces a course in Analytical Chemistry previously taken in the Department of Chemistry, but has an industrial orientation better suited to the needs of chemical engineers.

The research and graduate study activities of the Group continues in customary high gear and are outlined in later sections of this report.

Civil Engineering Group

The increased undergraduate enrolment in the Group continues to present severe problems, heavily taxing both teaching and physical resources. Preregistrations for 1977-78 indicate a further dramatic increase of up to 30 percent in Year III. Although the Group would prefer to have this problem, rather than a lack of students, it is patently clear that additional appointments and other resources are required.

In the area of teaching methodology, Professor Rosati has been most active, a highlight of his efforts this year being a three-week visit by Professor J. Cannell of the Open University in Britain. The visit was stimulating to the Faculty. Thirty faculty members found the time to attend one or more of the fifteen formal lecture presentations.

In the Geotechnical area, a year long search failed to turn up a suitable person to fill the allocated faculty appointment. Competition for

suitable academics in this area is extremely severe around the world; as a result, terms for the appointment must be reviewed so that both the undergraduate program and research can survive.

Electrical Group

The research activities of the members of the Electrical Group continue to have two major thrusts - applied electrostatics and radio engineering. Descriptions of these activities are provided elsewhere in this report. The major thrust at the undergraduate level has been to improve the quality of the program in Electrical Engineering. This has led to many spirited discussions at Group meetings of object, content, teaching and evaluation procedures for each course offered by the Group. These discussions have contributed much both to the quality of the program and to the smooth change-over from the year system to the term system. The Group is cautiously optimistic about the future although the impact of tightening budgets in the face of rising enrolment is bothersome.

Materials Engineering Group

A significant event in the evolution of the Group which occurred last year was the change in name from the Materials Science Group to the Materials Engineering Group. The name reflects an increased emphasis in the engineering aspects of Materials Science that is taking place at both the graduate and undergraduate levels. The change was initiated in the undergraduate curriculum with a third year course that treats the more macroscopic aspects of the mechanical properties of materials, and in the fourth year with a new course in the fracture mechanics of materials.

Change is now moving into the graduate areas with research initiated into the Bauschinger Effect in HSLA steels, and joint projects being planned in wear, hydrogen damage and corrosion fatigue. We are fortunate to be able to welcome Professor G.D. Moan to lead this practical thrust.

The Group had two major apparatus acquisitions last year in support of this engineering emphasis. These were an Instron fatigue machine and a Cambridge 600A Scanning Electron Microscope. An Edax non-dispersive spectrometer, already used by the Group, has been added to the microscope to give it an analytical facility that has already attracted across campus interest. To complete our capability, Professor Moan is exploring all avenues to purchase a higher capacity controlled strain-rate tensile machine.

Mechanical Engineering Group

There are 33 graduates from the mechanical option this year, the largest graduating class to date from our program. The Professional Engineers Gold Medal for the student with the highest standing over the four-year engineering program has been won this year by Mr. Chi-Wah Liu, a mechanical engineering student.

It is fortunate that the progress of our new term system into the senior

years coincides with the University program of quality improvement. Our new course outlines, necessitated by the introduction of term courses, have been carefully assessed for quality and compatibility with the overall program.

During the past year, we planned a two-week course in Machine Shop Practice for mechanical students to be conducted at Fanshawe College. However, the high cost of this proposed course necessitates some other approach.

The third-year course in Mechanics of Materials, taught by the Civil Group and offered to civil and mechanical students, is being sectioned this year because of large enrolment. While this makes possible more specialized treatment of the subject matter for the mechanical and civil sections, it also requires reallocation of laboratory space and equipment in the Mechanical Group. The necessary changes are being made during the summer period.

Professor Emmerson's biography of John Scott Russell has been accepted for publication by John Murray, London. His contribution The Gaelic Tradition in Canada appeared in the symposium Scottish Tradition in Canada, published by MacClelland & Stewart for the Federal Government.

Reports from the Coordinators, Directors and Heads
of the Research Laboratories and Fields

BOUNDARY LAYER WIND TUNNEL LABORATORY

Professor A.G. Davenport

This has been a year of steady development. The strength of the Laboratory has been invigorated by the return of Dr. Barry Vickery to the group after four years at the University of Sydney, Australia.

The Laboratory was fortunate to receive a major equipment grant of \$80,000 from NRC to replace the PDP81 data acquisition system with a PDP11 computer. The basis for this selection was prepared by Dr. D. Surry. The greater power of this new system with its time-sharing ability opens up new possibilities in experimentation.

The research endeavors have covered some interesting new projects. These include a study of the dynamic behavior of a novel stainless steel inflated roof system for the Dalhousie University recreation centre; a study of wind action on low rise structures sponsored by the Metal Building Manufacturers Association and the American Institute of Steel Construction; a study of hurricane wind speeds; a study of wind pressure statistics for the new Limit States Design procedures of the National Building Code of Canada; a study of the full scale behavior of the CN Tower, Toronto (in collaboration with the University of Toronto). In addition, there have been a number of thesis studies and design studies.

Drs. Davenport, Isyumov, Novak and Surry and associated graduate students have presented a number of papers at conferences. The Library has continued to expand under the able care of Ms. Klassen. The Laboratory has supported an excellent roster of visiting speakers during the year enjoyed also by undergraduates and has provided a variety of opportunities for summer students from The University of Western Ontario and other universities as well as undergraduate laboratory and thesis projects.

GEOTECHNICAL RESEARCH ACTIVITIES

Professor R.M. Quigley

The geotechnical section (Professors Lo, Novak and Quigley) has been very active in 1976-77, particularly in the areas of rock mechanics, soil-structure vibration interaction, and soil chemistry.

Comprehensive contractual research reports have been completed on a wide variety of subjects including Leda clay (MNR), soil stabilization (MTC), rockfills (MTC), shoreline erosion (CCIW), open pit mining (Golder Associates). Research continues on other large projects including pipeline agricultural impact (NRC), soil structure interaction (NRC), tower silo foundations (DSS, OSA) and underground chambers for energy storage (NRC, Hydro).

The work of both faculty members and students has continued to receive wide attention; for the former, Dr. M. Novak's theories and methods were adopted by Bechtel Corporation of California for the design of nuclear plant foundations designed for seismic zones; for the latter, Mr. G. Pozzobon received second prize for his undergraduate thesis "Design and Construction of Tie-Back Excavations" in a Canada-wide competition by the Canadian Construction Association; are examples.

THERMODYNAMICS, FLUID MECHANICS AND ENERGY UTILIZATION

Professor J.D. Tarasuk

Analytical studies and experimental work on the free and forced convective heat transfer from heated surfaces facing upwards and from structures has continued together with the solar energy research program.

Five graduate students working in this field of research graduated during the past year; two Ph.D. and three M.E.Sc. Currently there are five students in the program; three M.E.Sc. and two Ph.D. We are pleased to say that the Ph.D. students attracted to this research are of the highest calibre. There is also one post-doctoral student in the program. Total funds from NRC are in the order of \$25,000.

Research on the heat transfer from and the associated flow regimes around air supported structures has produced data to aid in the future design. One problem, associated with the heated air supported structure, that is still being studied is the thermodynamic coupling between the closed internal system within the dome and the open free or forced convection open outer system. This work is published in the journal of the International Association of Spatial Structures.

Analytical studies using the finite element method are also being used to predict the pressures and heat transfer from structures placed in an approaching rotational flow. The greatest achievement to date with this work has been for the computed solutions to predict regions of separated flow on the structure.

The potential of solar energy has continued to be of concern by the group during the past year. In particular the use of solar energy for cooling a building when combined with absorption refrigeration has been studied. Work on Wind Energy, which is another form of solar energy, has continued and tests on both horizontal and vertical axis windmills have been completed on small scale models. Several papers in this area have been published or presented at conferences in the past year.

In the area of Applied Thermodynamics three major highlights and developments occurred during the past year. The first of these was that Professor E.S. Nowak was invited to join the National Research Council Associate Committee on Heat Transfer for a three year term effective April 1, 1977. The second highlight involved a Mechanical Equipment Award of \$25,000 from NRC for the purpose of assembling a stand-alone computer

operated Data Acquisition System for the Applied Thermodynamics Calorimetric Research in the Standards Laboratory of the Faculty of Engineering Science. The third highlight involved the award of one of the first Core Grants in the Faculty of Engineering Science valued at \$23,000. Core Grants are intended by the National Research Council to contribute towards the payment of maintenance and operating costs of a substantial existing research facility identifiable as a major installation, with direct capital costs in excess of \$150,000. Thus the use of the non-flow calorimetric facility for thermodynamic property research is not only recognized but will be greatly enhanced as a result of the above Core Grant.

During the period under review Professor E.S. Nowak continued to be assisted by two post-doctoral fellows and by his two Ph.D. students (Messrs. F.M. Hussein and L.S. Thomas). Three major research reports representing the culmination of six years of contractual activity dealing with the thermodynamics of heavy water production mixture systems were submitted to the Chalk River Nuclear Laboratories of the Atomic Energy of Canada Limited. Two research papers were presented at a Symposium sponsored by the American Society of Mechanical Engineers and the National Bureau of Standards.

BIOCHEMICAL ENGINEERING, FOOD CHEMISTRY AND
WATER QUALITY LABORATORY

Professor N. Kosaric

A. Biochemical and Food Engineering Research

Research in this area is progressing in the usual high gear. With a total number of three full-time faculty members and a team of sixteen graduate students and six research associates, this research is the largest activity in one particular area in this Faculty. The research is focussing on process development and design and on solution of acute applied and industrial problems such as tar-sands technology, development of new products, enzyme technology, fermentation kinetics, novel reactor design, production of new foods. A number of projects are focussed to wastewater utilization from various industries (e.g. cheese whey to potable drinks, pulp and paper liquors to protein or alcohol, etc.). Emphasis is also on design of industrial wastewater treatment processes and on novel bioreactor design (jet mix and air-lift fermenter). Utilization of agricultural wastes such as waste cellulose and starchy materials for conversion to animal feed has also been initiated and is in progress.

Closer contacts with local food industries have been established and several industrial projects have been jointly developed (e.g. with Silverwood's and Labatt's). It is expected that more collaboration with industry will be developed.

Several internationally known scientists have visited our laboratories

and have also participated in our teaching and research program (Dr. G.I. Karavaiko from ASci., USSR; Dr. A. Einsele and Professor Z. Puhan from ETH, Switzerland; Dr. R.I. Mateles from Israel, and Dr. A. Iachan from Brasil).

B. Environmental Engineering Research

The Chemical and Biochemical Engineering Group's contribution to the environmental program is greater than from any other group. Based on the heavy teaching involvement in environmental subjects both at the undergraduate and graduate level, a sound and well-developed engineering research program has resulted. Both water and air pollution research is in big progress. The Fluidization and Particulate Studies Group's projects are to a great extent in the environmental area while water pollution research, both municipal and industrial, has been historically of interest to the biochemical and food engineering activity. The major emphasis in the latter thrust is in utilization and conversion of wastewaters to useful products (e.g. food or feed) and the design of industrial wastewater treatment facilities.

FLUIDIZATION AND PARTICULATE STUDIES LABORATORY

Professor M.A. Bergougnou

During the past academic year, the laboratory has been very active in many areas as highlighted below.

Dr. J.M. Beeckmans and his graduate students have been developing a novel method for the separation of mixed powdered solids. This new method is called a counter current fluidized cascade. It is the fluidization analogue of a distillation column or of a liquid-liquid extraction battery. Results, to date, indicate excellent resolving power but much further work remains to be done to elucidate the theory and capabilities of the equipment. Major potential uses for the fluidized cascade include coal cleaning and ore beneficiation.

His other projects include the evaluation of the surface intensive short path fume scrubber (together with Dr. Sheasby), and an advanced type or particle scrubber which was lately tested at the DOMTAR Ltd. plant in Cornwall, Ontario.

A large equipment grant (\$25,000 - obtained cooperatively with Professors C.G.J. Baker, M.A. Bergougnou, G.S.P. Castle, I.I. Inculet and J.S. Shéasby) was used to buy the equipment for a major particle crushing and fractionation facility. This equipment together with particle size equipment previously purchased (Coulter Counter, BAHCO particle size sizer ...) will immeasurably increase our capabilities in the particulate solid field.

Although Dr. Baker was on a sabbatical during the last academic year,

research has continued in his laboratory:

- A study of the fluid mechanics of four-phase fluidized beds (two solids, a gas and a liquid) has been initiated; the data obtained will be useful for the understanding and design of new coal processes which are counted on for the near-term solution of the energy crisis.
- A project for the investigation of mass transfer in three-phase fluidized beds has been staked out and the equipment built; the results will be helpful in developing new kinds of fermenters to be used for the production of food, chemicals, pharmaceuticals and for the control of water pollution.

Dr. M.A. Bergougnou and his students have emphasized the continued development of engineering fundamentals for application to industrial fluidized bed reactor design and fluidized bed process development. (The fluidized bed is now one of the workhorses of the chemical, petroleum, mining, nuclear, energy and other industries.)

Solids leakage under perforated grid plates has been studied by means of new experimental techniques. An invited paper is being prepared for the second International Congress of Fluidization in Cambridge, England, in 1978.

A process for the recovery of tar by cryogenic fluidized bed grinding of tar sand is being investigated and shows promise as an alternative to the highly polluting hot water recovery process. A paper was presented at the OILSANDS meeting in Edmonton in May 1977.

The application of fluidized beds to Energy Storage is being studied in collaboration with Dr. J.L. Sullivan and the Energy Research and Development Agency (ERDA) of the United States. Technical help is being provided to ERDA for the design of a fluidized bed coal pyrolysis process.

Initial steps have been taken for setting up a Canadian Energy Research Centre and Institute of Process Technology (CERES IPT) which would collaborate with ERDA on the development of essential energy and process technology. The Ministry of Energy, Mines and Resources in Ottawa is encouraging us to make a start on such an activity; ERDA is also anxious to collaborate with Western in that area. If, indeed, Canada is to progress among industrial nations, technology appropriate to the country has to be developed. Collaboration with the U.S. could be a way for us to make much needed progress with modest financial means. Complementary support will later be solicited from the Academic Development Fund.

APPLIED ELECTROSTATICS

Professor I.I. Inculet

The Applied Electrostatics Research Group comprised of faculty members from Electrical Engineering (G.S.P. Castle, I.I. Inculet), from Chemical

Engineering (M.A. Bergougnou, K.A. Shelstad) and from Materials Engineering (J.D. Brown) worked on several individual and joint research projects. Some of the projects involved considerable cooperation with faculty outside of Engineering such as the Faculty of Medicine at The University of Western Ontario and the Department of Environmental Biology of the University of Guelph.

Among the noteworthy developments are:

1. The electrostatic application of pesticides in orchards and field crops.

The project is carried out by a team comprising G.S.P. Castle and I.I. Inculet from Engineering and C.B. Kelly from the University of Guelph.

After two years of preliminary work and development of the electrostatic spraying equipment, the contract has been signed between The University of Western Ontario and Wood Lynn Farms Limited in Delaware Township for carrying out a full-scale test during the 1977 spraying season.

2. Electrostatic protection of the surgical wound

A joint project supported by the Medical Research Council and directed by Dr. S.W. Brash from the Orthopaedic Surgery of University Hospital and Professor I.I. Inculet from Electrical Engineering.

After extensive development work and tests carried out in the Applied Electrostatics Laboratory of the Faculty of Engineering Science, the apparatus was moved to the animal operating room at the University Hospital and experiments are currently in progress.

3. Electrostatic beneficiation of western Canadian coals

The joint project (I.I. Inculet of Electrical Engineering, M.A. Bergougnou of Chemical Engineering and J.D. Brown of Materials Science Engineering) has been supported by the Department of Energy, Mines and Resources of the Federal Government. Excellent progress has been achieved in the separation of the coal fractions which are high in ash content. The work was carried out on coal from the Luscar Mine in Alberta and the Hat Creek Mine in B.C.

4. Electrostatic charging of droplets in electrostatic painting

This joint project (Castle and Inculet, Electrical Engineering; K.A. Shelstad, Chemical Engineering) is of considerable importance to the rapidly expanding electrostatic painting industry as well as for the fundamental investigation into the process of charging of small particles by means of corona.

MATERIALS ENGINEERING

Professor J.S. Sheasby

Two years ago the Materials Engineering Group decided to develop expertise in the field of fracture. The consequences of this decision are now becoming apparent in the activities and acquisitions of the Group, particularly following the appointment of Dr. G.D. Moan.

Dr. Moan supervised a group of students to win an award in the 1977 EIC North American Life Essay Competition for their study of the fracture of Custom Aluminum Wheels. We are also pleased that Mr. T. Trickey was awarded a Stelco Scholarship to study the association of cracks with impurity particles in HSLA steels.

The acquisition of the Cambridge 600A Scanning Electron Microscope has made research into wear phenomena practical and a joint project between Dr. Sheasby and Dr. Moan is proceeding. This microscope is being used by other research groups and we are looking forward to the interactions that it will encourage.

Dr. J.D. Brown returned from his sabbatical an expert in Scanning-Ion-Mass-Spectrometry. This is a highly marketable skill and which has the advantage of giving us cheap access to this powerful analytical tool. Dr. Brown is also President of the Microbeam Analysis Society this year, an honor that deserves our fullest congratulations.

THE ENVIRONMENTAL ENGINEERING FIELD

Professor J.L. Sullivan

Environmental Engineering differs from the other activities reported in this section in that it is involved in both advanced education and in research.

The major activity in environmental engineering continues to be the Master of Engineering Program. As in previous years student numbers continued to be substantial although they were still below peaks achieved three and four years ago. For the past year part-time as well as full-time classes were offered though, as noted earlier, there is evidence of decline in interest in the London area. However, there are still sufficient part-time students entering to justify continuing evening classes. In Sarnia replacement of graduating students has enabled classes to be maintained at a reasonably steady level.

In the environmental research areas progress has been made towards interdisciplinary studies because of the re-organization of the Faculty's research activities in Divisions. The Divisional structure was described in last year's report. Most of the joint research within the Division has linked environmental engineering with Systems Analysis but one major

project in collaboration with Radio Engineering was also conducted. The types of projects studied are listed in a later section. It is intended to pursue as aggressively as possible further research in interdisciplinary fields leading, it is to be hoped, to increasing inter-faculty projects.

Increasing public and official interest in occupational safety and health, which was partly stimulated by the Report of the Royal Commission on Health and Safety in Mines, has identified a need for more skilled personnel in these areas. As a result considerable interest has developed in providing opportunities for instruction and research. Medical faculties in Ontario have been actively investigating needs and a committee on Occupational Health was formed.

The Committee of Ontario Deans of Engineering also initiated action and an inter-university meeting to consider roles for engineering faculties was chaired by Dean A.I. Johnson in Toronto. It is likely that the coming year will see more definite action to develop training and research facilities in Ontario universities. Because the environmental engineering activity at Western has several subjects of relevance to occupational safety and health, it is considered that the Faculty could play a significant role. Two members of the Faculty were appointed to the UWO Advisory Committee on Occupational and Environmental Health.

Several research projects which were described in the 1975-76 report were terminated and described in various reports and papers. Others continued through the past year and are still in progress. These include the following:

Measurement of particulates in the atmosphere and calibration in static chambers in collaboration with Lidar remote sensing studies by the Physics Department; remote sensing of stack gases from power plants for the quantitative measurement of sulphur dioxide and its dispersion in the atmosphere; systems studies of the use of waste vegetation for the production of hydrocarbons as a source of energy.

New projects which were initiated in 1976-77 were:

A study of the occurrence of asbestos in the environment and the characterization and evaluation of particulate material; application of fluidized beds as a means of storing energy; an energy conservation study of the petrochemicals and food processing industries.

As environmental engineering could not exist as such except in an interdisciplinary context, it is logical to assume that further development will depend largely on achieving the necessary collaboration. There are many areas which have not yet been entered where this University could make substantial contributions in investigating and making recommendations on socio-technical problems. Though the present is a difficult time for initiating interdisciplinary ventures, it nevertheless remains an important function of the environmental activity to endeavour to facilitate them. The creation of the interdisciplinary research division is a step in the right direction.

THE SOUND AND VIBRATION LABORATORY

Professor J.E.K. Foreman

The Sound and Vibration area is also an advanced teaching, as well as a contractual and academic research activity. In the spring of 1977 graduate courses in noise and vibration control were re-organized as part of the newly introduced M.Eng. Program in noise control engineering in transportation, communities, buildings and industry. Three of these courses were offered during the last academic year, and were well subscribed by students in mechanical engineering and environmental engineering. We are continuing to advertise the Noise and Vibration Control Program, and, to date, have received several inquiries concerning fall registration.

The Laboratory is in the last stage of completing a report to the Federal Ministry of Transport on a contract research project to evaluate the adverse effects (health impairment) of traffic noise on people; this information will provide a basis for the Ministry to establish a rationale for external vehicle noise limits and subsequent legislation. The project has involved the use of automatic digital noise monitors and computer-based processing of data; this measurement data has been correlated with data obtained from interviews and questionnaires as part of a wide social attitudinal study. The Laboratory has worked closely with faculty and students in the Department of Psychology on this project.

The project which was undertaken on behalf of Vibron Limited (a Toronto noise and vibration control consultant and product manufacturer) continues. This project concerns evaluating the environmental noise impact associated with the development of the Petrosar Limited plant in Sarnia. The project involves several separate studies extending over approximately two years. The use of automatic noise monitors and computer analysis of data has allowed an investigation with a scope and precision that has been a significant advancement in contemporary noise assessment technology.

The Laboratory has recently reported to the Ontario Ministry of the Environment on projects which have been undertaken on prediction and modelling of traffic noise propagation in urban environments.

The Laboratory has been awarded a research contract by the Canadian Electrical Association to undertake a program of physical measurement and analysis of audible noise (and other environmental data) associated with high voltage transmission lines and transformer substations, and an assessment of attitudinal reaction of people to this form of noise. This information is required in order to provide guidelines in the design and development of future high voltage transmission lines in Canada. The field tests will be carried out at selected test sites in Ontario and Québec, at which operating personnel from Ontario Hydro and Hydro Québec will be utilized as field workers. The data obtained from the field tests will be processed with the aid of the University computing facilities. A second phase of the project concerns testing and correlation of the reaction of a representative cross-section of the public to audible noise from various types of high voltage transmission lines and a typical

high voltage transformer substation, through playback of specially prepared test tapes. The facilities of the Laboratory, including a "quiet" room for subjective testing, will be used in this part of the project. These latter tests will be carried out in cooperation with the Department of Psychology at the University.

The conversion of the Laboratory's reverberation room into a "quiet" room for subjective testing of people is proceeding on schedule. The conversion has been designed as an M.Eng. project; it will incorporate removable panels of reticulated absorbent foam on the walls and ceiling, together with an absorbent floor overlaid with walk-in suspended expanded metal.

The mobile van which was developed for field research in environmental noise has proved to be of considerable value. The projects for the Ministry of Transport and Vibron have made continual and effective use of such mobile facilities. The van will also be used for all field work connected with the above-mentioned project for the Canadian Electrical Association.

RADIO ENGINEERING

Professor A.R. Webster

The Radio Engineering section of the Electrical Group has been strengthened over the past year to a complement of three full-time faculty members. This represents a considerable improvement from the point of view of establishing a viable research activity in this area, and close cooperative ties with the Centre for Radio Science have been developed.

Currently, there is a good deal of research activity broadly concerned with the propagation of electromagnetic radiation and covering the wide spectrum from very high radio (100 MHz) to optical frequencies. Data acquisition and handling using microprocessor systems form an ancillary activity which is expected to assume increasing importance as the main research develops.

A major experiment is currently coming to fruition (summer of 1977), namely, a microwave diagnostic system designed and developed to provide basic propagational information pertaining to ground-based microwave communications systems. Substantial financial support for this project has been provided by the Federal Department of Communications through the Communications Research Centre, Ottawa. Full field tests of the equipment are currently under way.

There is a good deal of activity in ionospheric research using satellite borne radio beacons, with some emphasis on observations in the far north. All three members of the section are involved in planning teams concerned with the design and development of a Canadian scientific satellite whose launch is scheduled for 1981. The work is being coordinated by the Space Science Coordination Office of the National Research Council.

Work on an optical heterodyning system continues to make good progress and important contributions to the field of LASER communications systems are expected.

SYSTEMS ANALYSIS

Professor A.I. Johnson

This field continues to attract graduate student applicants and there is an obvious continued interest by industry to cooperate on projects of a systems nature that are excellent for thesis topics at both the Master's and Doctorate level.

Nevertheless, expansion of the field has been restricted while the Priorities Committee of the Faculty of Engineering Science has had further discussions concerning the emphasis to be placed on Systems Analysis. Also, a set of advanced "core" subjects has been created, and these are currently in the curricula committees of the Departments of Computer Science and Applied Mathematics.

During 1976-77 a distributed computing system has been assembled for computer aided system analysis within the group, with the financial assistance of the National Research Council (mainly Professor Johnson's grants), support from the Academic Development Fund (35,000), and fine cooperation in the graphics aspects of the system from Bell Northern Research, the Federal Department of Public Works, and Systems Approach Ltd., all in Ottawa. Three doctorate students are currently using this equipment.

Two other doctorate theses have been submitted; one concerns the synthesis of energy systems for complex petrochemical plants and has been carried out in close cooperation with the Polysar Corporation in Sarnia; the other has built a prototype of the analysis and design system to go onto the distributed system, but created initially on the Computing Centre's DECsystem 10 computer.

UNIVERSITY OF WESTERN ONTARIO MULTI-DISCIPLINARY ACCIDENT RESEARCH TEAM

Professor E.S. Nowak

The University of Western Ontario Multi-Disciplinary Accident Research Team which was formed in 1974 has proven to be extremely visible in the London community. During this span of three short years the annual funding it receives has approximately trebled to the current level of approximately \$140,000 per year. Professional contacts have been made throughout the University community in the Faculties of Medicine, Social Science, Science and Arts. Professional contacts have been established outside of the University at various institutions.

One of the major studies just completed involved an investigation of accidents of commercial vehicles equipped with air brakes in London and Southwestern Ontario. About one-quarter of the constables in the entire Ontario Provincial Police actively participated in this project. An example of a major on-going study involves an investigation of motor vehicle accidents in which the occupants were fully restrained by both lap and shoulder belts.

Professor E.S. Nowak was assisted in these studies by his Ph.D. graduate student (L.S. Thomas) and three other full-time field investigators. During the summer funds were used to support three engineering undergraduate students in their penultimate year.

Two research papers have been accepted for presentation at the forthcoming conference in British Columbia sponsored by The American Association of Automotive Medicine.

SYSTEMS ANALYSIS, CONTROL AND DESIGN ACTIVITY (SACDA)

Mr. J.R. Dickinson

SACDA has completed a successful year in which its personnel made progress towards both technical and business objectives. The extension of the University contract with the Department of Industry, Trade and Commerce for a further two years of funding at \$175,000 per year was arranged. This source of funds, plus an increasing volume of industrial contract work is allowing SACDA to maintain a healthy level of activity.

SACDA had in the previous year decided upon a business plan of selective development of a market for its services in the chemical industry and in the pulp and paper industry. While the work for the chemical industry has not grown as had been hoped, the efforts to obtain work from the pulp and paper industry are beginning to show results. A major project was undertaken for Domtar Fine Papers Ltd. on modelling a fluid bed chemical recovery system. Another major project was begun for Ontario Paper Ltd. on a revised distillation process to produce vanillin. Work for Chinook Chemicals is continuing.

SACDA has produced some marketable computer software. The Computer Aided Design Centre in Britain is now licenced to sell the MADCAP distillation program. The Ontario Research Foundation is in partnership with us to exploit the THERMOPAK physical properties package. H.A. Simons consulting engineers are evaluating the MOSES program for non-linear systems modelling.

SACDA acted as project coordinator on the Telemedicine project for the Department of Communications. The project involved the University Hospital and Health and Welfare Canada on the medical side and Bell Northern Research and other contractors on the engineering side.

SACDA contributed to academic work by teaching a control systems course for electrical engineering students and by making available its computer facilities and assistance to graduate students and to faculty.

SCHOOL OF JOURNALISM

Report of the Dean

Professor A. W. MacFarlane

The Graduate School of Journalism's third year was one of stability in the basic Master of Arts program, allowing a start to plans for increasing the School's impact through other undertakings. The year also marked the end of the undergraduate degree program offered since 1946.

Graduate Program: Twenty-three graduates received M.A.'s in Journalism in September of 1976, and 35 more in June of 1977. There were two graduating classes in the academic year because of a readjustment in timing of the program during the previous year. June will henceforth be the normal graduation time.

The School continues to receive about 10 enquiries and three formal applications for each of the 36 places in the program.

Employment of graduates has been about as expected. More than half of the June, 1977 graduates were employed within two weeks of graduation.

Continued use was made of public figures and active journalists as laboratory instructors during the year. Among those who spoke to students were: Senator Keith Davey; former Cabinet minister Judy LaMarsh; Keith Spicer, commissioner of the federal government's Official Languages program; Clark Davey, managing editor of the Toronto Globe and Mail; author William Stevenson; Peter Worthington, editor of the Toronto Sun; Dick MacDonald, of the Canadian Daily Newspaper Publishers Association; W.E. Wilkerson, vice-president, corporate relations and advertising, ITT Canada Ltd.; MP James Gillies; Donald Campbell, president of Maclean-Hunter; Sid Cohen, president of Southam Business Publications; Ray Timson, managing editor of The Toronto Star; Don Hunt, general manager and vice-president of The Toronto Sun; Jack Burghardt, of CFPL-TV, London; Jack McArthur, financial columnist, The Toronto Star; Douglas G. Hartle, former deputy secretary of The Treasury Board in Ottawa; Peter Robertson, graphics director at The Toronto Star.

The School's first distinguished visiting professor was announced. The position will be held by Malcolm Muggeridge during the 1978-79 academic year. Mr. Muggeridge is internationally known for his books and broadcasting activities. He is a former editor of Punch, and was a foreign correspondent for English national newspapers.

Undergraduate Program: The last students in the Bachelor of Arts program graduated in June 1977. A special luncheon was held for the 17 graduates and their families. During the ceremonies, the last

undergraduate UWO medal in journalism was presented to Sheila Hannon by George W. McCracken, chairman of the Department of Journalism from 1946-1952.

The service course program drew doubled enrolment in 1976-77, with about 600 students in the first-level courses. Enrolment in the second-level courses, which was about 15 in 1976-77, is expected to be 75 in 1977-78.

Related Activities: Two major conferences were held during the academic year. The first dealt with controls and the media and attracted about 50 journalists, lawyers and police representatives. Chairman was Davidson Dunton, chairman of the Ontario Press Council. The conference was arranged in co-operation with the UWO faculty of law and the London Free Press. Speakers included Charles Dalfen, vice-chairman of the CRTC, Gerald Haslam, editor of the Winnipeg Tribune, Mr. Justice Horace Krever of the Supreme Court of Ontario, The Hon. Judy LaMarsh, chairman of the Ontario Royal Commission on Violence, the Hon. Roy McMurtry, attorney-general of Ontario, and Morris Shumiatcher, Regina lawyer.

The second conference, largely funded by the Ontario University Program for Instructional Development, brought the School of Journalism's adjunct professors and full-time faculty together for a two-day seminar in instructional development conducted by Dr. Bruce Squires of the Department of Physiology.

The School continued participation with the University of Montreal and the Canadian International Development agency in training of journalism students from the United Republic of Cameroon. Five students spent two sessions at the school totalling 18 weeks. The Western-Laval journalism student exchange continued, with four students from each university spending a month at the other institution.

For the second year, two School of Journalism graduates will spend several weeks abroad as part of a program organized by the school, the Office of International Education, and CIDA.

Two other projects reached final planning stages. An extensive study was completed in 1976-77 exploring the viability of a special program for the native peoples of Canada to be offered by the School of Journalism. As a result of the study funding was granted by the Donner Canadian Foundation and detailed planning of the program was begun in May. Target dates for the first program are January-December, 1978.

Last winter, Florian Sauvageau, interim director and consultant for the Canadian Centre for International Journalism and Shirley Sharzer, of the School of Journalism, travelled across Canada to consult 28 persons in responsible positions in various media (the written press, radio, television). The aim of these discussions was to determine

what interest there was in the creation of a Centre for International Journalism. A later trip to the United Nations headquarters in New York established that there was much enthusiasm there on the part of various officials and indication of support.

It was also agreed that the Centre should start "small" -- its initial focus to be informational seminars to be held either at U.W.O. or at Laval University in Quebec City (the other partner in the project). There was also discussion regarding possible grants for prolonged study abroad, exchange programs, and establishment of a reference/research centre.

The Canadian International Development Agency (CIDA) is now considering proposals for helping to fund such a centre.

A third volume in the Western Journalism Library, Teeming Invective: 300 Years of Vigorous Journalism, was published during the year. A fourth volume is under consideration, and a fifth is being planned.

The school's continuing research program included completion of a major survey of public opinions on media accuracy, and a survey on public opinions about censorship is in the planning stage. An experimental study on the contribution television's visual presentations makes to personality judgments was also completed. Work continued on the six-month cyclical employment survey.

Faculty Activities: Publications are included in Appendix A.

During the year, Professor A.W. MacFarlane was a judge for the National Newspaper Awards, the ACTRA Awards and the Southam Fellowships. He continued as a director of Canadian Medic-Alert and a member of the Advisory Council of the Ontario Medal for Good Citizenship, and co-chairman of the Ontario-Quebec Journalist Exchange Committee.

Professor F.K. Bambrick was on sabbatical leave from September 1976. During the period he interviewed pioneer radio broadcasters from coast-to-coast, and the recordings of these interviews have been lodged with the National (Sound) Archives in Ottawa. He served as editor of the Newsletter for the Radio Television News Directors Association of Canada.

D.M. Howard continued to serve on the Board of Directors of the London Community Broadcasting Corporation. He was appointed to the Advisory Committee to the Office of International Education at Western. He organized and taught two broadcast workshops for the special program for African Students and served as broadcast coordinator in the U.W.O. - Laval Student Exchange Program.

Alistair Hunter spoke at the Public Library as a member of the team conducting the University in the Community program. He also continued his activities as editor of Western's First Century and editorial advisor on the Centenary Festival Committee. He was a judge at the annual awards of the Ontario Weekly Newspaper Association.

Judy Scrimger was an adviser for a media course taught by John Wright at Kitchener-Waterloo Collegiate and Vocational School. This is one aspect of developing secondary school liaison program.

Professor Shirley Sharzer was appointed chairman of the Canadian University Service Overseas (CUSO) London local committee. Professor Sharzer helped to organize a seminar on controls and the media and to publish a forthcoming booklet out of the seminar. She also acted as liaison person with Canadian Daily Newspaper Publishers Association. She served as consultant on editorial/layout problems to a London community newspaper. Professor Sharzer was appointed Assistant to the Dean of Journalism in September, 1976, and was appointed Assistant Dean in July, 1977.

Professor J.L. Wild served as director of the UWO-Laval Journalism Student Exchange Program; co-ordinator, special program for African students; member, Ontario-Quebec Journalist Exchange Committee; delegate, Ontario-Quebec Journalist Exchange Committee; member, executive committee, Faculty of Part-Time and Continuing Education. He also lectured at the University of Windsor's department of communication arts.

Professor C.E. Wilson served as a member of the provost's advisory committee on teaching and learning, and as an extra-departmental examiner for an MA thesis and a PhD dissertation in the UWO department of geography. He spoke to the North London Kiwanis Club on distortion of news by the consumer. He took part as an invited observer in meetings of a research subcommittee of the Canadian Daily Newspaper Publishers' Association.

During the year, Professor M.M. Laing was on leave of absence, Professor Bambrick was on sabbatical leave, Professor S. Sharzer was promoted to associate professor and appointed assistant dean of the School of Journalism, and Professor Wilson was granted sabbatical leave for the period January 1-June 30, 1978. One new faculty member, Michael Nolan, was appointed as assistant professor from July 1, 1977.

FACULTY OF LAWReport of the DeanProfessor David L. Johnston1. Introduction

In the year 1976-77 continuing emphasis on research resulted in the publication of several important Canadian Legal texts by Law Faculty members and the commencement of a number of other important law books, the establishment of the LL.B.-M.B.A. joint degree program with the Business School, the inauguration of the Canada-U.S. Law Institute, continuing changes to reinforce and enrich the curriculum and several new appointments to strengthen the full-time faculty.

2. Admissions

For the 1976-77 academic year, there were 2,235 applications for the first year from whom 158 were offered places and registered. For the previous year, there were 2,188 applications and for 1977-78 there are 2,650 applications. Twenty-three percent of those who applied and 27 percent of those who registered for 1976-77 were females.

Due to the small number of places available and the large number of highly-qualified applicants, it was again necessary for the Admissions Committee to turn down many well-deserving applicants.

Twenty-one applications were received from mature applicants. The previous year twenty-nine applications had been received from mature applicants. Of the twenty-one mature applications, three were selected for admission and three registered.

Six applications were received from Canadian Native applicants. The previous year six applications had been received from Canadian Native applicants. Of the six applications, two were selected for admission and two registered.

The Admissions Committee continued its policy of admitting students with only two years of university education to the Law School as well as those with three or more years. Of the registered class of 158, 28% had completed two years of pre-law university education, 32% had completed three years of pre-law university education, 32% had completed four years of pre-law university education, 5% held Master's degrees, and 3% had completed less than two years of pre-law university education (i.e. mature applicants).

Report of the Dean

3. Appointments

Four new appointments were made for the 1976-77 year bringing the strength of the full-time faculty to thirty-one.

Craig Brown, Assistant Professor

LL.B. (hons.) Otago, New Zealand 1972; Professional Qualification, Victoria University, New Zealand 1975; LL.M. Illinois University 1977.

Bruce Feldthusen, Assistant Professor

LL.B. (great distinction) U.W.O. 1976, LL.M. Michigan 1977; Ph.D. Michigan in progress.

Philip Slayton, Associate Professor

B.A. (Hons.) first class honours, Manitoba 1965; Rhodes Scholarship 1965; B.A. (Law), Oxford 1968; B.C.L., first class honours, Oxford 1969; M.A. Oxford 1972; Law Clerk, Supreme Court of Canada 1970. Assistant Professor, McGill 1970-73; Associate Professor, McGill 1973-77.

Timothy Youdan, Assistant Professor

B.A. (Law) Cambridge 1969; Barrister, Gray's Inn, England 1971, 1972-77, LL.M. Toronto 1972; Lecturer, College of Law, London and Tutor, Cambridge 1972-77.

4. Curriculum

Significant changes in curriculum were made during the past year. The second and third years of the three year LL.B. program were reviewed and a compulsory core curriculum of six subjects was established: Administrative Law, Evidence, Tax Law, Trusts. In addition, one course must be taken relating to the philosophy of law or law in the international setting and one course must be taken with a major research component. Several new optional courses were added: Law of the Sea, Comparative U.S. Securities Regulation, Soviet Law and Legal System, Regulated Industries, Law and Medicine, Advanced Legal Writing.

Outside the Law School, a new course, Introduction to Law, was offered to 80 third and fourth year undergraduate students and a similar course to approximately 50 summer school students. The cross disciplinary contacts with other disciplines continued with approximately one quarter of the faculty having teaching responsibilities outside the Law Faculty.

Report of the Dean

5. Law Review

This year saw the production and publication of Volume 15 of the University of Western Ontario Law Review (as it is now called). This was the first edition to be produced under the editorship of members of the Faculty, with Professor G. Fridman as Faculty Editor, Assistant Faculty Editor, Professor J. Quinn, Student Editor, Mr. M. Steinberg, and considerable assistance from Professors R. Solomon and R. Martin.

The Volume contained essays by Professor Tedeschi of the Hebrew University in Jerusalem; Professor Fatouros, of the Faculty of Law, Indiana University; Dean H. Arthurs, Osgoode Hall Law School; Professor J. Swan, University of Toronto, and several members of the Faculty of Law, University of Western Ontario, viz. Professors Hunter, Forbes and Brandt. There was also an article by Dr. C.M. Schmitthoff and some comments by Mr. D. Prentice, of Pembroke College, Oxford and Dean Johnston and Professor Ramsay of Western.

Work is now in progress in Volume 16 which will be published by the end of the current calendar year.

Some initial work has already been done in respect of Volume 17 for 1978 and a special commemorative Volume for the centennial year of the University, devoted to the work of the late Mr. Justice Rand of the Supreme Court of Canada, first Dean of the Faculty.

6. Library

Continued efforts were made during the course of the year to strengthen the library collection of approximately 110,000 volumes, first established in 1959, to ensure that this law library remained amongst the leading five in the country in collection strength. These efforts were considerably assisted by several outside grants totalling \$40,000.00. During the course of the year, the joint acquisitions programme in comparative law materials with the other five Ontario universities law faculty libraries was established with a five year acquisition plan. The Library Committee has commenced a feasibility study for the installation of a computer terminal linked to a central law data bank. Space limitations are beginning to raise problems with the present collection occupying about 90% of available shelves.

7. Post Graduate Studies and Scholarships

The special emphasis on post LL.B. opportunities for our graduates continues to pay dividends. Last year 9 graduates attended distinguished graduate schools in Canada or in the U.K. or U.S.A. or clerked for Supreme Court of Canada judges. This year, seven graduates will be pursuing post LL.B. studies and one will clerk for the Chief Justice of the Supreme Court of Canada.

The scholarships and prizes currently available in the law school were reviewed and as a consequence several new ones were added.

8. Research

As a continuation of the plan adopted last year, the special emphasis on research in the Faculty continued this year. Over half the members of the full-time faculty are engaged in research on major legal textbooks to be published within the next two years. Five of these texts were published this year. A series of Faculty Seminars have been organized by Professor Fridman to permit colleagues to exchange views on current research activities. Professors Arnold, Banks, Johnston and Samuels gave seminars in this series. The series of extended visits to the Faculty by distinguished scholars was continued. This year, it included visits from Professor L. Sheridan, Professor of Law, University of Wales at Cardiff; Professor Dinstein, Faculty of Law, Tel Aviv University and Professor D. Lasok, Professor of Law, University of Exeter.

9. Special Programs

(a) The Canada-U.S. Law Institute

The Canada-U.S. Law Institute, a co-operative venture of the Case Western Reserve University Law School in Cleveland, Ohio and our Law School was inaugurated this year with a visit by the Canadian Ambassador to the United States, Mr. Warren, to Cleveland and by the United States Ambassador to Canada, Mr. Enders, to London in the fall to open the Institute. All four segments of the Institute were put into place. Four U.S. and two Canadian students exchanged places for a term as part of the student exchange with the expectation of eight student exchanges in the next year. In the faculty exchange, approximately five faculty from each Law School visited their counterparts for 2 or 3 days periods and arrangements have been completed for a one term exchange of one professor from each school for next year. Two conferences have been planned for the fall of 1977 and the first Institute sponsored research project was launched this past summer into comparative criminal procedure.

Funding for the next several years has been received through a \$100,000 grant from the Richard Ivey Foundation, \$95,000 from the Donner Foundation and a \$200,000 permanent endowment from five Cleveland banks.

(b) Clinical Education

The London Legal Clinic completed its move into shared quarters with the Area Legal Aid Office adjacent to the Middlesex County Court House and a grant of just under \$100,000 from the Ontario Legal Aid Plan reinforced the financial base of this clinical program. A second staff review lawyer has now been hired to ensure a high quality of supervision for the twenty students enrolled in the program.

Report of the Dean

The Student Legal Aid Society, a voluntary, extra-curricular program through which approximately 150 students provide legal assistance to members of the university community and the public received a grant of approximately \$25,000 from the Ontario Legal Aid Plan and has expanded its quarters within the Law School to accommodate a new staff review lawyer who will provide full-time supervision.

(c) Civil Law/Common Law Student Exchange Program

For the second year, the Faculty of Law at the University of Western Ontario has had the privilege of hosting the Common Law session of the Federal Department of Justice Civil Law/Common Law Summer Student Exchange Program. This program sees 30 students from all the common law schools going to the University of Sherbrooke for an introduction to civil law and 30 students from the civil law schools coming to Western for an introduction to the common law.

This year the program ran from May 16 to July 8. During the eight weeks students took the following courses:

History of and Introduction to the Common Law
Professor Bruce Welling

Property and Trusts
Professor A. Oosterhoff

Torts
Professor G. Brandt

Contracts
Professor J.W. Samuels

Matrimonial Law
Professor J.B. McLeod

(d) LL.B.-M.B.A. Joint Degree Program

This year the LL.B.-M.B.A. joint degree program in collaboration with the Business School was approved. This intensive four year program will consist of the required first year LL.B. and M.B.A. courses in each of the Law School and the Business School and a special selection of courses drawn from the second and third year of the LL.B. program and the second year of the M.B.A. program. The Law School's Director, Professor R. McLaren, is currently developing a series of internships for the two summer sessions to follow the second and third years the students spend in the program. The first students - approximately ten in number - will enrol in September.

Annual Report July 1976 - June 1977

School of Library and Information Science

The University of Western Ontario

Elaine Svenonius, Acting Dean

Faculty

Goings and Comings and Tenure:

During the reporting year the School lost three faculty members. Professor D. Sudar left to become Director of the Lake Erie Regional Library System. Professor G. Chan, from the University of the West Indies Department of Library Studies, served for one year as a temporary replacement for faculty on leave. Dr. T. Delsey left the School to join the National Library of Canada as Head of the Canadian MARC Office. These faculty will be missed. It is to be hoped that alliance with them will be maintained and bring increased rapport between the practising profession and the School. The School's forces were further depleted in that two faculty, Dr. W. J. Cameron and Professor C. M. Hotimsky spent this year on leave.

In the balance the School has gained two new faculty. For some time Dr. T. Craven has been associated with the School, first as a student, then as a Lecturer. He now has been appointed Assistant Professor. The strength he brings to the School is in the areas of computer applications and bibliographical control. Professor S. Koskiala, a native of Finland and recently from the College of Library and Information Services at the University of Maryland, is our second new faculty member. She brings to the School expertise in the use and organization of information in business and industry and thus adds her strength to ours in information science.

Dr. J. Tague was awarded tenure this year. Her knowledge of computer science and mathematics is a valuable asset to the School and her contributions in the areas of teaching, research and community activities have been outstanding.

Part-Time and Visiting Faculty:

As a School which has a professional base as well as academic leanings, our teaching program is nourished by the experience of practising librarians and information scientists who have achieved eminence. Included among the part-time faculty this year have been S. Beacock, Director of the London Public Library, teaching public libraries and administration; M. Beckman, Chief Librarian, University of Guelph and S. Langmead, Architect, Toronto, teaching library architecture; R.E. Lee, Director of the D. B. Weldon Library teaching library problem solving; A. Burk, Reference Librarian, D.B. Weldon Library, teaching retrieval from machine readable data bases; E. Donnelly, Branch Coordinator, London Public Library, teaching Children's Literature; and R. Sproule, Freelance Consultant, teaching personnel administration. L.C. Colvin,

Professor Emeritus, has continued to serve the School as a resource person, teaching advanced descriptive cataloging.

The School was fortunate again this year in summoning to its aid notable part-time faculty from other library schools. During the summer session Dr. D. Soergel, Associate Professor, College of Library and Information Services, University of Maryland, tutored our Ph.D. students in information retrieval. As well he conducted weekly evening seminars on advances in Indexing methods. For the tenth year Professor J. Belzer, Professor, Graduate School of Library and Information Sciences and Department of Industrial Engineering, University of Pittsburgh, brought to us his experienced view of information science.

Research:

While the visible products of the School's research activity over the past year are the publications of its Faculty, appended to this report, brief mention might be made of other research on-going during the last twelve months. Five faculty continue to work on their Ph.D. dissertations: Professor R. G. Prodrick on the Economic Regulation of Air Transportation in Canada (Columbia University); Professor G.R. Pendrill on determining the information needs of medical practitioners in England (University of Sheffield); Professor C.M. Hotimsky on Russian publishing history (Leeds); Professor A.J. Jamieson on scannability, as a function of complexity, of PRECIS-like index entries (University of Maryland); and Professor S. Koskiala on the flow of technical information through the industrial information services of Finland (University of Maryland).

During the reporting year Dr. J.M. Tague was appointed co-principal investigator on a project for Information London, funded by the Ontario Ministry of Culture and Recreation, to study Regional Information Networking and Evaluation of Computer Use in Community Information Centres. As well she continues this year as principal investigator on a Canada Council project on User-Responsive Systems of Bibliographic Control. Professor Pendrill received a grant this year from Canada Manpower to prepare name and date indexes to the records of the Middlesex Court of Chancery in Weldon Library.

In the area of bibliographical control three research efforts were begun whose aim is understanding the PRECIS indexing language. Dr. G. Michell is studying the use of case relations in PRECIS; Professor J. Farradane is analyzing the PRECIS vocabulary; and, as mentioned, Professor A. Jamieson is examining the scannability of PRECIS index entries. Also in the area of Bibliographical control, Dr. T. Craven continues work in relation to NEPHIS and similar permuted indexing systems; as well he is developing an index which will provide additional subject access to the School's library collection. Dr. E. Svenonius has developed a machine readable data base consisting of articles indexed by PRECIS, NEPHIS and Relational Indexing; she is preparing for publication manuals which can be used in the teaching and study of these indexing languages. Professor G. Bhattacharyya is working

on a thesaurus of library and information science terminology; at the same time he is working on a manual for the POPSI Indexing Language. Dr. H.G. Schulte-Albert has completed research on Cyprian Kinner's contribution to indexing theory and is now working on Leibniz's contribution to bibliographical control.

While on study leave Dr. W. J. Cameron was able to pursue research in unprecedented ease. The major part of his research efforts was directed to the writing of a biography of John Bell (1745-1831), "The Proteus of the Printing Trade." He had time, however, to also write on the bibliographical control of early printed books in Latin America and to interest himself in two new fields of investigation, that of British newspapers in the late 18th and early 19th century and that of book illustration in England in the second half of the 18th century.

On leave as well, Professor C.M. Hotimsky, besides working on his dissertation, began the compilation of an historiography of first hand Russian accounts of Australia and the South-west Pacific in the nineteenth century. At the request of the Australian National University he is also compiling a bibliography of Russian language publications in Australia.

During the reporting year, Dr. J. Tague and Professor R.G. Prodrick cooperated with the Faculty of Library Science, University of Toronto in the design of a survey to investigate the needs of public libraries in Canada. Professor Prodrick has cooperated with Irene Lackner in compiling a directory of economic libraries in Canada; with S. Langmead he is writing an article entitled "The Planning Process and Trade-offs." Professor B. McCamus has been engaged in studying the manpower needs of the profession. Professor S.D. Neill continues his comparative study of reference questions asked in information centres and public libraries. Professor B.G. Michell has begun a linguistic pragmatic analysis of reference interviews using tape recorded data. Last and certainly not least is the completion of a Ph.D. dissertation by Dr. J. Fyfe on Scotland and the Risorgimento.

Community and Professional Involvement:

Creativity in a professional field finds expression in community and professional activities as well as in research. The School's faculty has contributed significantly to such activities during the past year.

Professor G. Bhattacharyya continued this year to serve on the board of editors of Library Science with a Slant Toward Documentation.

Possibly the most distinguished of Dr. W.J. Cameron's professional activities while on study leave was the presentation of the Ranganathan lectures at the Documentation Research and Training Centre in Bangalore, India (December 1976). He gave these five lectures on the topic of the

bibliographical control of early books. Caribbean activities during his study leave included (1) participating in the Congress of the Fédération Internationale de Documentation in Mexico City and giving a paper at a pre-conference which preceded it (September, 1976); (2) attending the 8th annual conference of the Association of Caribbean University and Research Libraries in Jamaica (October, 1976), (3) giving public lectures on bibliographical control to library school students at the Universidad Nacional Autónoma de Mexico and members of the library association in Nueva Leon (Fall, 1976) and (4) assisting in the planning of an ACURIL workshop in Venezuela.

While on three months' winter leave in warmer climes, Professor L.C. Colvin was an honored guest at the following professional occasions: a luncheon for her at the University of Texas Graduate School of Library and Information Science; the annual meeting of the Hawaii Friends of the Library; the annual meeting of the Beta Phi Mu Chapter at the University of Hawaii Graduate School of Library Studies; and the term's last class of Dr. R. Hagler, Associate Professor at the University of British Columbia School of Librarianship.

Dr. T. Craven participated in an experimental work-study program at the London Public Library from June to August 1976.

Professor F.T. Dolan was reappointed as editor of the Canadian Journal of Information Science. He spoke on the topic "What are Library Services?" at the Workshop on "Are Library Services Worthwhile?" and delivered a paper at the annual meeting of the Canadian Society for Information Science on "A Universal Index Generator." (Ottawa, May 1977)

Professor C.M. Hotimsky, on study leave in Australia, acted as an honorary advisor and consultant in the formation of a Russian Emigré Archives Collection at the Australian National University. While in Australia he accepted a number of speaking engagements. At the Australian and New Zealand Slavists' Association, Russian Colloquium at the University of Melbourne he presented a paper "Russkie zavetnye skazki Afanasieva" (August 1976). He spoke on "Collecting Australiana Overseas" to the Bookcollectors Society of Australia and Friends of the Fisher Library at the University of Sydney (January 1977); to the Friends of the Monash University Library in Melbourne (May 1977); and to the Bibliographical Society of Australia and New Zealand at Monash University. He delivered a seminar on "Russian Research Bibliography" for the Russian Department at the University of Melbourne and one on "Libraries in the Soviet Union" at the Canberra College of Advanced Education, School of Librarianship.

Professor A. Jamieson delivered a talk on the research methodology she is employing in her dissertation at a Colloquium at the University of Toronto (April 1977).

Professor B. McCamus was one of a panel of speakers on the subject of evaluation of student performance in Graduate Library Schools in Canada at the spring meeting of the Canadian Association of Library Schools (June 1977). She also conducted workshops on personnel management at the annual Conference of the Ontario Association of Library Technicians at Huron College (May 1977).

Professor S. Neill once again served as a member of the London Public Library Board and as a member of the Board for the Lake Erie Regional Library System. He recently stepped down from these positions but continues to contribute to the profession as editor of Canadian Library Progress and of the "Assignment in Learning" column in the Mocassin Telegraph. Other community service includes assistance he gave to the London District Christian Secondary School in London, Ontario and a four-week story telling program he organized for the Broughdale branch of the London Public Library. Together with Dr. J. Tague, Professor Neill has planned for the establishment at the School of a Social Information Systems Centre. The Centre is intended to serve the dual purpose of organizing information for community needs and providing a data base for research into the use of information by various social groups. Professor Neill gave the keynote address at a workshop on Community Information in Public Libraries. It was entitled "The Public's Perception of Public Libraries and Community Information Centres as seen in the questions asked at each". (The University of Toronto, March/April 1977). He spoke also at the SLIS Workshop on "Are Library Services Worthwhile?" on the topic of unobtrusive measures.

Professor G. Pendrill compiled an index for the Canadian Family Physician for the College of Family Physicians of Canada. Again this year he was an External Examiner and Assessor for the University of the West Indies, for papers in Scientific and Technical Information and in Special Libraries and Information Centres.

Professor R.G. Prodrick continued this year to be an active member of the American Library Association's panel of examiners for library school accreditation. Related to this is his present involvement in analyzing interview data on attitudes of faculty and deans toward the accreditation process as a project of the Task Force on Accreditation Issues of the American Association of Library Schools. For some time active in the International Federation of Library Associations, he now has been appointed to the Standing Advisory Committee of the Special Science Libraries Section. He was a participant in a panel on Current Aspects of Canadian Academic Libraries at a meeting of the New York/Ontario Chapter of the Association of College and Research Libraries (Toronto, October, 1976). His topic was "Acquisition in the Seventies". At the 1976 annual meeting of the Canadian Association of Library Schools he spoke on "The Reorganization of IFLA and its Implications for Library Schools". (Halifax, June 1976).

Dr. Hans Schulte-Albert conducted this year's United Way Campaign with considerable success.

Professor C. Sprovieri served in Dr. Cameron's place this year as Vice-Chairman on the Lake Erie Regional Library Board. She has represented Dr. Cameron on the Ontario Provincial Library Council and for the the Ontario Library Trustees Association. She is a member of the Education Action Group and the Legislative Action Group for the Ontario Library Association. As well she has served as SLIS faculty liaison with the Canadian Association of Library Schools. Her other community activities this

year include planning for a joint SLIS-OLA conference in 1978 and planning and chairing a session at the Ontario Library Educators' Workshop.

Dr. E. Svenonius continued this year as Secretary/Treasurer of the ASIS Special Interest Group on Education. She was appointed to four additional committees this year: the ASIS SIG on Classification/Terminology; the Policy and Research Committee of the Classification and Cataloging Section of the Resources and Technical Services Division of ALA; the Research Section of the International Federation of Library Associations; the Task Force on Alignment of AALS. She organized the Research Sessions for the 1977 Annual Meeting of AALS. Papers delivered this year include: History and Theory of the Subject Control of Information (with H. Schmierer, Chicago, November 1976); The Integration of Library and Information Science (ASIS San Francisco, October 1976; AALS Washington, D.C., January 1977); and Linguistic Aspects of Indexing (University of Maryland, May 1977). At the School's Workshop on the worthwhileness of library services she led a panel discussion on "The Application of Measurement Results for the Improvement of Library Services".

Dr. J. Tague continued in her consulting capacity for Information London in the development of a Computer-Assisted Community Telephone Information Service (CACTIS). During the reporting year, she organized a workshop for community information centre personnel in southwest Ontario (Sarnia, November 1976) and participated in the Ontario Library Educators' Workshop (University of Toronto, February, 1977). She chaired a Colloquium on Automated Retrieval (SLIS, December 1976) and she chaired a session on Community Information Centres at ASIS mid-year meeting (Syracuse, May 1977). As mentioned, she is working with Professor Neill to establish at the School a Social Information Systems Centre.

Professor J. White has been involved in the development of a CIDA project in Jamaica for training librarians and library assistants in Town Planning and Conservation Authority Libraries. She also served as a panel member to discuss reference instruction in graduate library schools at the Ontario Library Educators' Workshop.

Students

Student enrollment showed a steady increase this year, thus firmly establishing a recovery from the shortfall of September 1975 (Table 1). The Spring 1977 figures represent a 10% increase in enrollment over Spring 1976. While the number of full-time MLS students increased by 20%, this was offset by a 40% decrease in the number of part-time MLS students. The number of Ph.D. students more than doubled.

Characteristics of the present MLS student body (Spring Term 1977) show little change over previous student bodies, except perhaps there are fewer students with higher degrees: 17.7% of students currently enrolled have master's degrees and 1.4% have Ph.D.s. Again, most students (83%)

come from Ontario; 8.5% come from other Canadian provinces and 8.5% come from other parts of the world. Again, most students have degrees in either Arts, Humanities or English (70.2%). Of the new Ph.D. students, one is Canadian, one is from Nigeria, one is from the United States and one is from India. The latter, Ravichandra Rao, is another of our several exchanges with the Documentation Research and Training Centre in Bangalore, India.

Placement statistics by Type of Position and Geographical Location are shown in Tables 2 and 3. Most graduates from the School are placed within three months of graduation. While the job market remains depressed, some future easing is expected as new markets in the information business are created and as the profession, which is an aging one, begins to replace itself at an accelerated rate.

Special mention might be made here of students who by virtue of the promise they showed for a professional career of excellence received the H.W. Wilson award. These were Deborah Spencer, Alan Ball and Linda Spencer.

Educational Programs

MLS Program:

The most significant happening this year relating to the MLS Program was the restructuring of the three core courses in the Professional Theory and Methodology Series. Whereas before content of these courses was divided by broad subject discipline, e.g. 701 (Humanities), 702 (Social Sciences) and 703 (Science and Technology), now they are divided by function: 701 (Bibliographic Control: indexing, cataloguing and classification); 702 (Information Service: user needs and retrieval of information); and 703 (Collection Development: selection, acquisition and use). By restructuring it was hoped that the amount of overlap in the 701-703 courses would be reduced, that more emphasis would be given to the general principles common to professional activities carried out in diverse subject disciplines and that the integration of library and information science, as disciplines with common functions but sometimes differing methods, would be facilitated. The Curriculum Committee devoted much time to the designing of the new courses. To a larger extent than heretofore these courses follow a modular construction. This results in a form of team teaching, with different faculty responsible for different modules. The overall conduct of each course is the responsibility of one senior faculty member.

The restructuring of the core courses reverberated in its effects throughout the rest of the curriculum. The Curriculum Committee thus turned its attention to studying these effects, especially as they relate to course 704 (Language, Logic and Mathematics) and course 706 (Systems and Computer Applications). Though the work of the Committee is still not concluded, a proposal for further adjustments to the core is expected during the coming term.

TABLE I

SLIS Enrollment, Spring 1976 - Spring 1977Spring Term 1976including Summer Session

- Full-time MLS	94
Part-time MLS	38
Special Grads	0
Special UGrads	2
Ph.D.	3
TOTAL	<u>137</u>

Fall Term 1976(September - December)

- Full-time MLS	98
Part-time MLS	34
Special Grads	0
Special UGrads	2
Ph.D.	6
TOTAL	<u>140</u>

Winter Term 1977(January - April)

- Full-time MLS	102
Part-time MLS	23
Special Grads	2
Special UGrads	1
Ph.D.	6
TOTAL	<u>134</u>

Spring Term 1977(May - August)

- Full-time MLS	115
Part-time MLS	26
Special Grads	2
Special UGrads	0
Ph.D.	7
TOTAL	<u>150</u>

TABLE II

SALARY BY TYPE OF POSITION
FOR GRADUANDS JANUARY - DECEMBER, 1976

TYPE OF POSITION	NUMBER	LOW	HIGH	MEDIAN	AVERAGE
PUBLIC LIBRARY	19	9,500.	14,700.	12,250.	12,110.
COLLEGE & UNIVERSITY LIBRARY	7	10,800.	14,000.	12,000.	12,357.
SCHOOL LIBRARY	11	8,000.	28,000.	18,500.	17,833.
GOVERNMENTAL LIBRARY	15	10,500.	14,500.	12,300.	12,390.
SPECIAL LIBRARY	7	7,500.	13,000.	11,800.	10,860.
INFORMATION PROFESSIONAL	4	12,000.	12,000.	12,000.	12,000.
OTHER THAN LIBRARIES	10	7,000.	20,000.	--information	incomplete --

PLACEMENT BY GEOGRAPHICAL LOCATION

January - December, 1976

	Public Library	College and University Library	School Library	Governmental Library	Special Library	Information Professional	Other	Total
Alberta								
British Columbia		1						1
Manitoba		2	1			4		7
New Brunswick	2							2
Newfoundland								
Nova Scotia								
Northwest Territories								
Ontario	15	4	8	14	6		9	56
Quebec								
Saskatchewan	1		1					2
Yukon								
Foreign	1		1	1	1		1	5
Total	19	7	11	15	7	4	10	73

In addition to examining the effects of the restructured courses, the Curriculum Committee, in compliance with a COA (Committee on Accreditation) recommendation, began a systematic review of all courses in the curriculum. To guide the review the Committee drew up a Procedures Statement for evaluating courses. This statement details a set of criteria for evaluating courses and a specification of documentation normally required for evaluation. Before presenting the statement to Council for approval the procedures were pre-tested by applying them in a consideration of two special topic courses, "Information Resources in the Health Sciences" and "Libraries and Librarianship in the Health Sciences". Eventually Council approved the Procedures as well as the inclusion of the two special topic courses in the regular offerings of the MLS curriculum.

Much discussion took place at Council meetings this year on the serious issues of grade inflation and feedback to students. The consequence was some raising of consciousness and a decision to strike two new committees, one to develop evaluation forms to be used by students in end-of-term assessment of courses and the other to study methods of evaluating student performance. The evaluation forms have been developed; they were pre-tested by 1977 Winter term students and are now being revised.

Special topic courses afford faculty and students opportunity to follow special interests and to experiment with new course ideas outside the regular MLS curriculum. During the reporting year special topic courses have included: 730 (Economics in Libraries) by Professor R.G. Prodrick; 770 (Public Libraries) by Professor S.D. Neill; and 790 (Conservation and Preservation in Archives) by Dr. J.H. Fyfe.

Ph.D. Program;

Some restructuring took place in the Ph.D. curriculum as well. Course objectives for required courses were reviewed and as a result the research component in these courses was strengthened so that now students must take three research courses: a survey methodology course, a course wherein a dissertation is critiqued and a proposal written, and a course which is the execution of a mini-research project. Thus, the student is given opportunity on a small scale, to go through the motions of proposing and carrying out doctoral research. Another result of the Ph.D. course review was the dropping of the Doctoral Seminar Course and the introduction of a requirement that candidates for the Doctoral degree present a public colloquium on the subject of their research.

In addition to reviewing course objectives the Doctoral Committee this year developed measures to provide course evaluation and student feedback. It also spelled out in further detail procedures for selecting Advisory Committees and for administering the written and oral examinations required of a candidate after the acceptance of a proposal.

Ottawa Program :

In immediate response to requests from the Ottawa-Hull Committee on Continuing Education, and in acknowledgment of a long-standing commitment

made to Ottawa librarians when the University of Ottawa terminated its library science program, the School this year began planning, entered into negotiations and finally established its "Ottawa Program". This program, to begin operation in Fall 1977, is an extension program wherein the School will offer courses in the Ottawa area on a regular basis. Its benefit is primarily to Ottawa residents who have partial or unaccredited degrees. By virtue of these degrees they will be considered, on an individual basis, for advanced standing in the School's three-term MLS program. By mounting courses in Ottawa and by allowing transfer credit for other courses it will be possible for interested Ottawa residents to obtain an accredited MLS degree without having to fulfill an extended residency requirement on the School's London campus. The first course in the Ottawa Program 706 (Systems and Computer Applications) will be taught in the Fall by Dr. J. Tague and Dr. T. Delsey. The response in Ottawa to the initiation of the Extension program is gratifying indeed and it is hoped that the program will continue to be nourished by mutual enthusiasm.

Workshops and Colloquia

This year the School sponsored two programs which could be characterized by the rubric "Continuing Education". One was a two-day Workshop entitled "Are Library Services Worthwhile?". The featured speaker was Dr. E. Olson from the College of Library and Information Services, University of Maryland and his topic, "What Should Librarians Measure". Other speakers were London Alderman Judy Gay and, from the School itself, Professors F.T. Dolan, J. Hallein, S.D. Neill and E. Svenonius.

The second program offered to the profession by the School was a Saturday morning Colloquium on Automated Retrieval. The Colloquium was chaired by Dr. J. Tague and the guest speakers were Dr. G. Salton and Dr. R. Crawford. As earnest of its commitment to continuing education and its obligation to the professional community, the School this year established a Continuing Education Committee. Already the Committee has planned a full schedule of offering for the coming year.

During the reporting year the Research Committee in conjunction with the Research Office and the Appointments Committee sponsored a series of afternoon colloquia. Speakers and their topics were as follows:

S. Kumar	Librarianship in India
R.G. Prodrick	Acquisition Policies: 1960s and 1970s
B. McCamus & J. Hallein	Career Alternatives in and to Librarianship for Library Science/Information Science Graduates
L. Smith	Artificial Intelligence and Information Science
L. Houser & A. Schrader	The Search for a Scientific Profession
J. Baglow	Canada Council as a Source of Funding Library Science/Information Science
T. Craven, R. Boggs, R. Brewer	Areas of Research in the Bibliographical Control of Information

In addition to formal colloquia the School hosted, on an everyone-welcome basis, speakers and resource persons within individual seminars. From outside campus, these included: M. Boehnert (London Public Library), M. Brown (McLaughlin Library, University of Guelph), T. Delsey and C. Durrance (National Library of Canada), T. Drynan (McMaster University Library), G. Finn (Statistics Canada), M. Graham (Library of Parliament), P. Hays (London Public Library), D. Holmes (ASK, Scientific and Technical Information, National Research Council), H. Katz (Special Libraries Association), P. Kitchen (Canadian Library Association), S. Klement (Information Resources Ltd.), P. Martin (Peter Martin Associates, Publishers), M. Ogilvie (World Book Encyclopedia), S. Pantazzi (Art Gallery of Ontario), C. Presser (University of Waterloo Library), L. St. John (Documentation Publishing Centre, Supply and Services Canada), H. Schefski (John Labatt Ltd.), A. Schryer (Statistics Canada), B. Silcoff (National Library of Canada), K. Smith (Ontario Library Association), R. Stierwalt (OULCS Director), E. Tate (Library of Congress) and B. Wood (Documentation Publishing Centre, Supply and Services Canada). Visitors to seminars from campus included: M. Banks, B. Campbell, L. Geddie, C. McQuarrie, G. Robinson and B. Vitols.

Administration

Dr. W.J. Cameron was on study leave during the reporting year and, in his absence, Dr. E. Svenonius acted as Dean and Professor S.D. Neill as Assistant Dean. Other administrative changes occurred since July 1976. Dr. J.H. Fyfe was appointed as the School's Archivist. To introduce order into the School's seminar archives, Dr. Fyfe developed a sampling plan which will permit selective, rather than full, retainment of student papers. Professor F.T. Dolan was appointed the School's Research Officer and given the support of an Office as well as a Research Committee. Upon assuming this position Professor Dolan made an exploratory visit to granting agencies in Ottawa and since then he has kept faculty informed of funding conditions and possibilities. With the advice of the Research Committee, the Research Office has parcelled lump sums given the School through the University by Canada Council and the National Research Council into small grants to support the research of Professors Michell, McCamus, Dolan and Fyfe. As mentioned it has cooperated in the sponsoring of several research colloquia.

Mr. C. Robert, for six years the School's Audio Visual Officer, resigned last July to return to England. While no one was hired to fill exactly the position he left, the School now has the very able assistance of an AV technician, Mr. P. Krickmire. In addition to providing technical assistance to the regular teaching program Mr. Krickmire, in several lunch-time sessions, has instructed students and faculty alike in the use of AV equipment.

A major readjustment took place when the School's Librarian, Mr. J. Hallein resigned in March to accept a teaching position at Kuring-gai College in Sydney, Australia. Professor F.T. Dolan assumed the position of acting Librarian until a new librarian could be found. At this time

Mr. B. Banting stepped into the position of Assistant Librarian. On June 13 Ms. Anne Burk began her duties as our new librarian. Ms. Burk is a graduate of the Simmons College, School of Library Science and has had working experience in public libraries in Providence, Rhode Island, and Tampa, Florida. Other readjustments have occurred in the Library. Mr. M. Nelson, after a year's absence, during which time he began his Ph.D. studies, returned to his position as computer specialist with responsibility for the SLIS library systems. Ms. M. Innis, his temporary replacement, has continued with the School on a part-time basis for the purpose of helping students learn programming and automated retrieval. Beginning July 1 she will again assume full-time duties, with responsibility for developing the School's ABC (Automated Bibliographical Control) Laboratory and supplying program support to the School's administration. As the reporting year ends, the School is faced with yet another leaving. Mr. P. Gulutzan, who has served the School four years as a Computer Specialist left on June 30 to join Geac. Mr. Gulutzan's GOTHIC retrieval system is well known on campus as is he himself for the Workshops he has sponsored on the automatic retrieval of information.

Although the library experienced three different heads during the year many good changes were effected. Some of the highlights, as reported by Ms. Burk, are as follows:

- (1) The library staff was reorganized to provide a more effective division of responsibilities and a more efficient reporting system. "User services" officially became part of the Assistant Librarian's duties. It is hoped that with the relocation of his office to the front of the library, user-staff interaction will increase.
- (2) The book catalog was converted to a more cost efficient COM catalog. The library acquired a Bruning 95 fiche retrieval display unit for automatic random access, and also a Bell & Howell microfiche reader-printer and several microfiche readers. Serial holdings have been added to the catalog.
- (3) There was improvement in ABC Lab facilities. The Lab now contains 11 computer terminals giving access to data bases from five brokers. The ABC Lab became a node on the CAN/OLE system. The Lab is also developing its own collection of relevant printed reference books - manuals, thesauri, etc.
- (4) Development of a simulation of the Orbit retrieval system was begun (the SOS project), with the idea that for teaching purposes eventually simulated systems may replace the more expensive commercial data bases.
- (5) While work on earlier projects like HPB continued, new computer programs were developed for the SLIS mailing list, student files, and a relational index generator. The GOTHIC retrieval system was adapted for use by the French Department in its project to index the Journal de Trevoux.
- (6) A revised collection development policy was issued and a start was made in weeding the working collection, separate

reference collections for general subjects and for library and information science were organized.

- (7) The LSD storage area was sorted and materials not needed by SLIS were made available for gift, exchange, or sale. Although ten tons of materials were thus dispersed, the LSD area is still full, and work continues.
- (8) A manual circulation system was implemented. While not very "modern", it is felt to represent the best interim solution until good mini-computer circulation programs become available.
- (9) Spring inventory showed a drop in missing items from 4534 last year to 3224; this may well be due to the installation of the 3M Spartan Security System.
- (10) The Library housed Design Canada's "Look of Books 1976" display and the British Council's British Books for Boys and Girls display.
- (11) As usual, staff participated in course instruction, tutorials, and workshops. The SLIS library organization was the object of study of course 732 Systems Analysis and Libraries.

REPORT OF THE DEAN
FACULTY OF MEDICINE

Dr. D. Bocking

INTRODUCTION

The Faculty of Medicine joined with the other Health Science Faculties at a reception and dinner on May 5th, 1977 in honor of Dr. and Mrs. D.C. Williams. The Faculty of Medicine records with gratitude the leadership which Dr. Williams has given as President of the University during the past ten years. The appointment of Dr. G.E. Connell as President of the University effective July 1st, 1977 heralds another era in a succession of distinguished Presidents. Dr. Connell has accepted an appointment as Professor in the Department of Biochemistry.

The Faculty of Medicine is pleased that Dr. O.H. Warwick, former Dean of Medicine and Vice-President Health Sciences, was the recipient of an Honorary LL.D. at Convocation on June 10th, 1977. Dr. Warwick addressed Convocation. Professor Herbert Jasper, the eminent neurophysiologist from McGill University, also received an honorary degree on the same day.

FACULTY

During the year, the Faculty was saddened by the loss of two former and three present members of faculty. Dr. A.B. McCallum died on November 13th, 1976, at the age of 91 years. He served as Professor and Head of the Department of Biochemistry from 1924 to 1947 and was Dean of Medicine from 1928 to 1934. Following his retirement in 1954 from the position of Research Professor in Biochemistry, he continued as a Professor Emeritus. Dr. J.M. Growse died on December 31st, 1976. He had been Chief of Anaesthesia at St. Joseph's Hospital and a member of the Department of Anaesthesia since 1950 until his retirement in 1973.

Dr. J.M. Stewart, a member of the Department of Anaesthesia since 1950, died suddenly on March 22nd, 1977. Dr. J.V.V. Nicholls, Clinical Professor of Ophthalmology and a member of the faculty since 1970, died on June 4th, 1977. Dr. Nicholls had served as Chairman of the Department of Ophthalmology during 1975 and 1976. Dr. K.N. Edwards, a member of the Departments of Medicine and Family Medicine and Director of the Emergency Department at St. Joseph's Hospital died suddenly on June 18th, 1977.

Dr. J.A. Lewis and Dr. G.W. Manning retired on June 30th, 1977. Both will continue with post-retirement appointments in the Department of Medicine. Dr. Lewis has served as a member of the Department of Medicine since 1939 and has been Chief of Medicine at Westminster Hospital for over thirty years. Dr. Manning joined the Department of Medicine in 1947 and has served as senior cardiologist at Victoria and University Hospitals. Professor A.C. Burton has been appointed Professor Emeritus and continues a part-time association with the Department of Biophysics.

During the year, the following were on study leave - V.B. Brooks, B.D. Sanwal, and M.F. Trider. Members of faculty who were on sabbatical leave were - C.G. Rand and M.H. Sherebrin for the full year, and R.P. Singh for the period January to June 1977.

The following have been appointed to the rank of full Professor in the University effective July 1st, 1977 - K. Ebisuzaki (Bacteriology & Immunology and the Cancer Research Laboratory), C.F.C. MacPherson (Psychiatry), H.D. Merskey (Psychiatry), H.C. Soltan (Anatomy and Paediatrics), and J.M. Thompson (Medicine).

Dr. W.C. Watson was elected as a faculty member on the Board of Governors effective November 15th, 1976. Dr. G.G. Hinton and Dr. W.W. Wilkins were elected to Senate in November 1976. Dr. R.G.E. Murray was elected to the Senate Committee on University Development, Dr. M. Harth to the Senate Committee on Admissions and Academic Program Policy, and Dr. G.G. Hinton to the University Traffic and Parking Committee.

During the year, the Faculty had many visiting Lecturers including two Medical Research Council Visiting Professors: Dr. J. Brown of the University of British Columbia was a Visiting Professor in the Departments of Biochemistry, Medicine, and Physiology. Dr. J. Stopps of the University of Toronto was a Visiting Professor in the Departments of Epidemiology and Preventive Medicine, Medicine, Paediatrics, and Pathology. Sir George Godber, former Chief Medical Officer for England and Wales, visited the Department of Family Medicine and gave a lecture on October 26th, 1976. Dr. Lawrence Weed, the originator of the Problem-Oriented System of Patient Care, visited the Department of Medicine and gave the AOA lecture on November 18th, 1976. Dr. Paul Brand, Director of Rehabilitation Services at the U.S. Public Health Services Hospital in Carville Louisiana, visited the Department of Physical Medicine and Rehabilitation and the University Hospital on May 9th and 10th, 1977. The Fifth Stevenson Memorial Lecture was given on November 4th, 1976 by Professor V.B. Mountcastle from The Johns Hopkins University. The Department of Physiology also welcomed Professor A.E. Adolf of the University of Rochester as a guest lecturer during the year.

Many faculty members were invited speakers and panelists at both national and international meetings. Several faculty members were also guest lecturers at other universities in Canada and abroad. Dr. W.E.G.A. Spoerel was the Otago Savings Bank Visiting Professor of the University of Otago, Dunedin, New Zealand during the month of February, 1977. Dr. Owen Clarke visited Thailand in October and November 1976, serving as an advisor to the Canadian International Development Agency program in that country. During the fall, Professor F.R. Calaresu was one of four Canadian scientists invited to visit Russia as part of an exchange program arranged by the National Research Council of Canada and the Soviet Academy of Sciences.

Among honors and awards to members of faculty, the following are especially noteworthy: Dr. N.R. Sinclair has been awarded an MRC Research Professorship effective July 1st, 1977. MRC Scholarships have been awarded to Dr. W. Flintoff (Bacteriology and Immunology) and Dr. J. Patrick (Obstetrics and Gynaecology, and Physiology) for five-year terms effective July 1st, 1977.

Dr. A. Donner, Department of Epidemiology and Preventive Medicine, was awarded a National Health and Welfare Scholarship. Professor P.C. Fitz-James was the 1977 recipient of the Canadian Society of Microbiologists award for outstanding scientific work in microbiology. Professor R.B. Philp, Department of Pharmacology, was named the first Canadian winner of the Stover-Link Award of the Undersea Medical Society for significant contributions to undersea biomedical research. Professor C.G. Drake was appointed the Sir Arthur Sims Commonwealth Travelling Professor for 1978 by The Royal College of Surgeons of England. Dr. Drake will visit Australia and New Zealand. Dr. E.R. Plunkett was named a Fellow of the American Gynaecological Society in April 1977.

Faculty members served on many departmental, program, faculty and university committees. They also served as consultants to and as members of many local and district committees in the health field, and as referees for and members of grants committees of provincial and federal research councils and committees, and various voluntary health organizations. Professor S. Dales served as Consultant to the U.S. Public Health Service Grants Awards Study Section in Virology. Professor E.H. Colhoun retired from the University Committee on Parking and Traffic on which he had served since 1968 with two terms as Chairman.

In addition, faculty members served as officers and members of various provincial and national committees and councils of professional organizations and societies. Dr. G.R. Sellery was named Honorary Treasurer of the Canadian Anaesthetist Society. Dr. John Robinson was elected President of the Canadian Society of Microbiologists. Professor J.T. Hamilton continued to serve as Honorary Secretary-Treasurer of the Canadian Federation of Biological Societies. Professor D.T. Armstrong was elected President of the Society for the Study of Reproduction. Professor C.G. Drake was named President of the American Association of Neurological Surgeons for the period April 1977 to April 1978. In June of 1977, he was elected President of the World Federation of Neurosurgical Societies.

Faculty members contributed many scientific papers and book reviews to biomedical journals and in addition, faculty members have served on the editorial boards of various scientific journals. Professor M.L. Barr has completed the book *A Century of Medicine at Western* which will be published in the fall of 1977 as one of the University Centenary publications. Professor G.J. Mogenson has completed a book entitled *The Neurobiology of Behaviour: An Introduction* which will be published in the fall of 1977.

Dean D. Bocking was re-appointed Acting Vice-President Health Sciences for the period July 1, 1976 to June 30th, 1977. Dr. T.G. McGhie was re-appointed Assistant Dean - Continuing Education effective July 1st, 1977. Dr. E. McCrank was appointed Director of Medical Education at St. Joseph's Hospital effective July 1st, 1977, succeeding Dr. D.M. McCourtie.

STAFF

On October 15th, 1976, Mr. William A. Byles was honored at a reception in

recognition of fifty years of employment at the University. He served as a technician in the Department of Physiology beginning in 1926. Following his retirement from the Department of Physiology, he has continued to work in the Office of the Dean of Medicine. Mr. Byles was also honored at the Alumni Awards Dinner when he was made an Honorary Life Member of the Alumni Association and received the Alumni Award of Merit. His many friends contributed over \$3,900 to establish the William A. Byles Bursary for deserving medical students.

DEPARTMENTS

During the year, the Departments of Anatomy, Bacteriology and Immunology, Biochemistry, Biophysics, Pharmacology, and Physiology were involved in the external review of the Life Science Programs of the Faculty of Science.

As part of the review of the chairmanship of the Department of Anatomy, an external appraisal was conducted by Dr. J. Rhodin of the University of Michigan, and Dr. D. Osmond of McGill University.

Professor D.B. Smith served as Acting Chairman of the Department of Biochemistry during 1976-77. Dr. B.D. Sanwal was re-appointed Chairman of the Department of Biochemistry for the period June 1, 1978 to June 30th, 1983.

As part of the review of the chairmanship of the Department of Biophysics, an external review was conducted by Professor C. Challice of the University of Calgary, and Professor H. Rahn of Buffalo.

On June 30th, 1977, Professor C.W. Buck completed a second term as Chairman of the Department of Epidemiology and Preventive Medicine. Professor J.M. Wanklin succeeds Dr. Buck as Chairman of the Department for a five-year term.

Professor I.R. McWhinney was re-appointed Chairman of the Department of Family Medicine for a further five-year term effective July 1st, 1977. A proposal for a Master of Clinical Science program in Family Medicine was approved by the University and the Ontario Council on Graduate Studies. The Program is supported by a W.K. Kellogg Foundation grant in the amount of \$328,499. Dr. M. Bass was appointed Director of the Program effective April 1st, 1977. The original plan to develop a new Family Medical Centre in north east London was altered and the plans are now proceeding for a Centre in Byron under the administrative aegis of Victoria Hospital.

Professor F.L. Holmes was re-appointed Chairman of the Department of the History of Medicine and Science effective July 1st, 1977. In May of 1977, an external review of the Hannah Chair for the History of Medical and Related Sciences was carried out by a Review Committee composed of Drs. L.S. King, G.R. Paterson, W.R. Shea, and O.H. Warwick. The Review Team recommended continued funding of the Hannah Chair and expressed satisfaction with the present direction of the Chair. The proposal of the Department for an M.A. Program has undergone an external appraisal by the Council of Ontario Universities. In co-operation with the Faculty of Social Sciences, the

Department has developed a proposal for a new course *Origins of the Natural and Social Sciences*.

The Department of Medicine received approval from The Royal College of Physicians and Surgeons of Canada for specialty training programs in Chest Diseases, Emergency Medicine, and Geriatrics. Dr. A.L. Linton was re-appointed Chief of Medicine at Victoria Hospital for the period April 1, 1977 to June 30th, 1982. Dr. K.G. Ferguson was re-appointed Director of the Emergency Service at Victoria Hospital for a five-year term effective July 1st, 1977, and Dr. V. Callcott-Stevens was appointed Director of Emergency Services at University Hospital effective March 6th, 1977 succeeding Dr. J.J. Theoret who resigned December 31st, 1976.

Dr. D.S.M. Haines was re-appointed Chief of Clinical Pathology at Victoria Hospital effective July 1st, 1977 to June 30th, 1982.

Dr. A. Kertesz was re-appointed Chief of Clinical Neurological Sciences at St. Joseph's Hospital effective September 1st, 1977 to June 30th, 1982.

Dr. E.R. Plunkett was re-appointed for a third five-year term as Chairman of the Department of Obstetrics and Gynaecology effective July 1st, 1978. The Department is considering the formation of four Sections - Community Obstetrics and Gynaecology, Oncology, Perinatology, and Reproductive Endocrinology.

Dr. R.R. Ruby was re-appointed Chief of Otolaryngology at St. Joseph's Hospital for the period January 1, 1977 to June 30th, 1981. A second full-time appointment at University Hospital becomes effective July 1st, 1977 with the return of Dr. P. Gullane who has held a McLaughlin Foundation Fellowship.

Dr. J.E. Boone was re-appointed Chairman of the Department of Paediatrics for a second term effective September 1, 1978 to June 30th, 1983. Dr. Boone will continue as Chief of Paediatrics at War Memorial Children's Hospital. During the year, plans proceeded for the partial phasing out of the Paediatric Service at University Hospital.

In the review of the Laboratory Medicine Specialty Training programs by The Royal College of Physicians and Surgeons of Canada, the Department of Bacteriology and Immunology received full approval for the postgraduate training program in Medical Microbiology and the Department of Pathology received approval for the Programs in Anatomical and General Pathology.

Dr. M.G.P. Cameron was re-appointed Chairman of the Department of Physical Medicine and Rehabilitation for a five-year term effective July 1st, 1977. Dr. Cameron will continue as Chief of Physical Medicine and Rehabilitation at University Hospital. Dr. Emilie Newell was appointed Acting Chief of Physical Medicine and Rehabilitation at St. Joseph's Hospital effective August 1st, 1976 and appointed Chief effective July 1st, 1977 for a three-year term.

On July 1st, 1976, Professor G.J. Mogenson assumed the chairmanship of the Department of Physiology for a five-year term.

Dr. D.E. Zarfes was named Acting Chairman of the Department of Psychiatry effective July 1st, 1977 while Professor Heseltine is on study leave. Dr. Harold Merskey joined the Department of Psychiatry on September 1st, 1976 as Director of Research and Training at the London Psychiatric Hospital. The Department of Psychiatry, University Hospital, received a Ministry of Health grant to assist in the expansion of the outpatient services at the University Hospital. Dr. Paul Max was re-appointed Chief of Psychiatry at Victoria Hospital for a five-year term effective July 1st, 1977.

In June 1977, the Board of Governors approved a change in name of the Department of Therapeutic Radiology to that of Department of Radiation Oncology.

Dr. J.K. Wyatt was promoted to Clinical Professor in the Division of Urology effective July 1st, 1977. The Division of Cardiovascular and Thoracic Surgery received approval by The Royal College of Physicians and Surgeons of Canada for its specialty training program.

PROGRAMS

Dr. J.L. Stouffer was re-appointed as Director of the Program in Communicative Disorders for a three-year term exclusive of study leave effective July 1st, 1977. In September 1976, the Program accepted twenty-seven students into the second year of the undergraduate program and also accepted fifteen students into the Master's program. In the spring of 1977, the Program received the approval of Senate for modifications to the undergraduate curriculum.

Professor S. Trujillo served as Acting Director of the Program in Occupational Therapy during 1976-77 while Professor Trider was on study leave. In September 1976, the Program admitted thirty-seven students to the first year. In the spring, Senate approved major revisions to the curriculum of the Program in Occupational Therapy. Clinical experience and placement of students continued to pose a major problem because of the limited number of occupational therapy departments in institutions in the London area.

Dr. Malcolm Peat succeeded Professor S. Morgan as Director of the Program in Physical Therapy effective July 1st, 1976. In September 1976, twenty-four students were admitted to the second year of the Program and five students were admitted to the post-diploma program. The Program is developing a proposal for the establishment of a Master of Clinical Science program in Physical Therapy. The Program is also proposing a study in collaboration with the University of Toronto on the amount of time required for clinical experience in physical therapy programs.

STUDENT AFFAIRS

Mr. J. Beauchene served as President of the Hippocratic Council during 1976 and the early part of 1977 when Mr. Jeff Coleman was elected President of the Hippocratic Council.

For the summer of 1977, first and second year medical students were the recipients of six MRC Summer Scholarships, three Ontario Heart Foundation Summer Scholarships, and PSI Foundation Summer Scholarships in the amount of \$31,500.

Approval was received for the establishment of the Upjohn Achievement Award in Pharmacology to be awarded annually to a second year student obtaining the highest marks in the basic and clinical pharmacology courses.

Mr. John Roder, a graduate student in Immunology, received the Collip Medal for 1977 and was also the recipient of the Killam Postdoctoral Award from the Canada Council.

Dr. Adrian Gelb, a Resident in Anaesthesia, won first prize in the residents competition of the Canadian Anaesthetists Society for a paper on *The Effects of Low Dose Halothane on the Chemical Control of Ventilation*.

Dr. Stanley Brown, a postgraduate student in Obstetrics and Gynaecology, was the recipient of the Ephraim McDowell Award of the American College of Obstetricians and Gynaecologists.

EDUCATION

At the undergraduate level, Departments and Programs continued to carry heavy teaching loads. Basic Health Science Departments were involved in undergraduate teaching in Medicine, Nursing, Dentistry, Science, Physical Education, and the three Programs.

In September 1976, 105 students were admitted to first year Medicine with 22% of the class being women. 96 students graduated in Medicine in June 1977.

During the year, the Academic Policy Committee and the Council of the Faculty of Medicine approved a pass-fail system of evaluation for the shorter clerkships and selective courses in third and fourth year Medicine. Approval was also given to the modification to the fourth year of the curriculum grouping the Basic Science electives into eight weeks during December and January. A full review of the new undergraduate curriculum was commenced in November 1976. On May 2nd and 3rd, 1977, an external survey of the curriculum was conducted by Dr. D. Waugh and Dr. R.P. Cronin for the Liaison Committee on Medical Education. The Reviewers indicated satisfaction with the fourth year of the curriculum.

During the year, planning proceeded for a M.A. program in the History of Medicine and Science and a Master of Clinical Science program in Family Medicine.

Preliminary approval was received from The Royal College of Physicians and Surgeons of Canada for a specialty training program in Nuclear Medicine. A twenty dollar fee for postgraduate students was approved by the Board of Governors to become effective July 1st, 1978. In the spring of 1977, the Canadian Interne Matching Service arranged placements for all except one of the 1977 graduates in Medicine.

During the year, the Program in Continuing Education arranged many Refresher Days and short courses. The Department of Anaesthesia conducted its annual refresher course for general practitioner anaesthetists during a week in February 1977. An internationally attractive conference on Perinatal Infection and Immunity was sponsored jointly by the Departments of Obstetrics and Gynaecology, Pathology, and Paediatrics. The First International Symposium on Immunological Monitoring of the Transplant Recipient was held at University Hospital from June 8th to 10th, 1977. The Fourth Annual Meeting of the Microscopical Society of Canada was held from June 13th to 15th, 1977.

RESEARCH

All Departments and Programs continued to conduct active research programs at the basic and applied levels supported by funds from the Medical Research Council, Health and Welfare Canada, Ontario Ministry of Health, National Cancer Institute, the Ontario Heart Foundation, Ontario Cancer Treatment and Research Foundation, Ontario Mental Health Foundation, Physicians' Services Incorporated Foundation, and many other voluntary health organizations.

During the year, the Faculty of Medicine Research Committee met to provide input to the Provincial Government regarding appropriate and suggested uses of the Provincial Lottery Funds. A local lay and professional group was organized in London as part of the national organization of Canadians for Health Research. An open meeting was held on September 22nd, 1976 under the co-chairmanship of Mr. S. Patchet and Dr. J.W.D. McDonald.

In November 1976, an ad hoc Committee on Occupational and Environmental Health was established to explore the academic, service, and research interests in these fields. Dr. R.A. Goyer was appointed Chairman of the Committee. In the spring of 1977, the President appointed a University Biohazards Committee to consider the Medical Research Council Regulations and Guidelines on Handling Recombinant DNA Molecules and Animal Viruses and Cells. Dr. D. Bocking was appointed Chairman of the Committee and Dr. J.A. McCarter was named University Biohazards Consultant.

During a nineteen-week period from November 1976 to March 1977, The University of Western Ontario Telemedicine Experiment U-6 utilizing the Communications Technology Satellite was successfully completed. A total of 1,125 medical, technical, and administrative teleconsultations were conducted. The image transmission from Moose Factory was of high quality. A large number of physicians, nursing staff, and other professionals at the University Hospital were involved in the program.

The MRC Associateship held by Dr. D.T. Armstrong was renewed. In addition, Dr. Armstrong was the recipient of a five-year MRC grant totalling almost \$500,000.

Dr. M. Peat and Dr. E. Newell were awarded an Academic Development Fund grant for the establishment of a locomotion laboratory to develop techniques for the clinical evaluation of locomotion problems.

In June of 1977, the Department of Clinical Neurological Sciences was awarded a five-year 4.3 million dollar grant from the National Institutes of Health to conduct a multi-national study to determine the efficacy of extracranial-intracranial anastomoses in the prevention of stroke. It is a five-year clinical trial involving 27 universities and medical centres in Canada, the United States, Holland, and Britain. Dr. H.J.M. Barnett is the principal investigator and Dr. S.J. Peerless is the co-investigator in London who will do most of the surgical procedures in London. Dr. David Sackett of McMaster University will co-ordinate the data analysis and statistics for the study.

SERVICE

In co-operation with the Indian and Northern Affairs Department, the Faculty has continued its involvement with the Moose Factory program. The Departments involved include Anaesthesia, Medicine, Obstetrics and Gynaecology, Ophthalmology, Otolaryngology, Psychiatry, Radiology, and Surgery.

Members of the Department of Ophthalmology have participated in Glaucoma Surveys sponsored by the Canadian National Institute for the Blind and also have co-operated in providing primary eye care to isolated areas of Northern Ontario with a mobile van.

Members of faculty have been involved with the Thames Valley District Health Council and its Committees. Dr. David Adamson of St. Thomas, a member of the Department of Anaesthesia, is a member and Vice-Chairman of the Council. Dr. D. Bocking is also a member of the Council. Dr. K.G. Ferguson has served as Chairman of the Emergency Services Committee and Dr. A.C. Webster as Chairman of the Cardiac Care Subcommittee. Dr. M.G.P. Cameron, Dr. M. Peat, and Dr. D. Bocking are serving on an ad hoc Interdistrict Rehabilitation Co-ordinating Committee which is involved with planning of the proposed Southwestern Ontario Regional Rehabilitation Centre. The proposal for the co-ordination of Geriatric Services in London has been forwarded to the Ministry of Health with the endorsement of the Thames Valley District Health Council. The proposal includes a plan for a Day Hospital facility at Parkwood Hospital and a subsidized Home Care Program.

Dr. H.C. Soltan and Dr. J.E. Boone have been involved with planning for improved genetic services. Dr. Soltan has served as a member of a Ministry of Health Advisory Committee on Genetic Services.

During the year, members of the Departments of Diagnostic Radiology and Clinical Neurological Sciences were involved in the installation of a Computerized Axial Tomography facility at Victoria Hospital. Plans were also developed for the installation of a Whole Body Scanner Unit at the University Hospital.

In May of 1977, Dr. J.H. Duff and Dr. W.J. Wall headed up a team which carried out the first liver transplant at the University Hospital.

AFFILIATED TEACHING HOSPITALS

The faculty continues to enjoy the full co-operation and support of the affiliated teaching hospitals and institutions. Appreciation is expressed to the administration of the various institutions and also to their professional staff for the support of the undergraduate and postgraduate programs.

During the year, St. Joseph's, Victoria, and Westminster Hospitals all received full accreditation status from the Canadian Hospital Accreditation Council.

In June 1977, Victoria Hospital and Westminster Hospital received word from the Provincial and Federal Ministries involved that amalgamation of the two institutions would become effective October 3rd, 1977. Victoria Hospital is heavily engaged in its planning for the move to the Westminster Hospital site. The Faculty of Medicine has enjoyed the fullest co-operation from Westminster Hospital.

BUILDING PROGRAM

During the year the Radiologic Research Facilities in the Health Sciences Animal Quarters were completed and the Laboratory was officially opened on June 21st, 1977.

PROVINCIAL AND NATIONAL ORGANIZATIONS

Professor R.W. Gunton and Dean D. Bocking represented the Faculty of Medicine on the Council of Ontario Faculties of Medicine. Dr. A.L. Linton served on the Task Force on Remuneration of Clinical Teachers. Dr. J.E. Boone continued to serve as Chairman of the Postgraduate Manpower Committee for COFM.

Dr. Boone was also the Faculty representative to the Association of Canadian Medical Colleges.

INTERNATIONAL PROGRAMS

Dr. J.S. McKim continued to co-ordinate the arrangements for overseas electives for undergraduate students in developing countries. These include placements in St. Lucia, South Africa, and India.

Report of the Dean

Faculty of Music

Professor Hugh J. McLean

Amongst the many cold pages of statistics the University produces, those concerning the 1977 Convocation reveal a good deal about the Faculty. With rapid growth there has been little decline in the *esprit* of music students: 85% of the graduating class (the largest University group outside of the health sciences) were present in Alumni Hall to receive their degrees. And they probably knew their peers by name!

The number of students in the Honors and General programs is almost the same as last year, but as the Faculty faces the challenges and problems of a fixed enrolment and declining budgets the balance may shift. Standards will inevitably continue to rise; better students more and more will take advantage of what the Faculty has to offer. The Chairmen's reports which follow indicate that this is considerable.

First, however, more statistics.

*Enrolment*Academic Year 1976-77

Freshmen:		173
Upperclassmen:	B.Mus. (Applied Music)	39
	(Music Education)	150
	(Music History)	16
	(Theory and Composition)	<u>18</u>
		223
	Bachelor of Musical Arts	121
	B.A. (Honors Music)	9
	(Music)	12
Part-time, special students and others:		<u>37</u>
		575
		<u><u> </u></u>
		(1975-76 [596])

Graduate students:	M.A. (Musicology)	10	
	M.Mus. (Music Education)	10	
	(Literature and Performance)	22	
	(Theory)	5	
	(Composition)	<u>2</u>	49
Graduate students on course but not registered:			<u>10</u>
TOTAL GRADUATE ENROLMENT			59
			<u> </u>
			(1975-76 [36])

Last year's pious hope that we should be doing more for the non-specialist, even in a time of restraint, has seen fulfilment. The new half-courses for students in other Faculties have seen a 26% rise in course registrants, from 223 to 281.

Faculty

Visitors enlivened our work with their personalities and ideas. The Chorale had a particularly stimulating year under Peter Hurford, the distinguished organist of St. Albans Cathedral, England, who spent a leave of absence with us. Karl Hochreither of the Berlin School of Church Music gave the best of himself during the month of March as he drew on the full resources of the Faculty for memorable performances of Bach's *St. Matthew Passion* in Alumni Hall and the Cathedral Church of St. Paul, Detroit. Dr. John Paynter of York University, England worked with music education and composition students around the same time, as Dr. J. P. Green records later in this Report.

Unlike other Faculties, whose scholarly output is recorded in the Publications Supplement, most of the Faculty of Music's work is measured in different ways. The departmental Reports, therefore, give a full picture of an extremely busy year. All that remains to be said is that in the wider University community Professor George A. Proctor, Assistant Dean (Graduate Studies), succeeded Professor Philip G. Downs as Senator for a two-year period.

New Appointments

Instructor (part-time)

Department of Applied Music

Behrens, Sonja (piano)
 Chimoto, Hirochika (cello)
 Hendrickson, Virginia (clarinet)
 Hildebrand, Edward (guitar)
 Jamieson, William (french horn)
 Mazzuca, Marlene (bassoon)

McWilliam, Fergus (french horn)
 Miller, James (trumpet)
 Morrison-Freedman, Mary (voice)
 Pomerants-Mazurkevich, Dana (violin)
 Zupnik, Marilyn (oboe)

Department of Music Education

Poppy, Victoria (oboe classes)
 Zielinski, Karen (Suzuki classes)

Preceptor

Munn, Lesley
 Rodert, Cornelis

Lecturer

Britton, Joyce	Department of Applied Music
Neville, Donald	Department of Music History
Spilsted, Gary	Department of Music History

Assistant Professor

Bartalus, Ilona	Department of Music Education
Chambers, Martin	Department of Applied Music

Visiting Professor

Hurford, Peter	Department of Applied Music
----------------	-----------------------------

Professor

Behrens, Jack	Chairman of the Department of Theory and Composition
Creech, Robert	Chairman of the Department of Applied Music

Promotions

Aide, William	Assistant to Associate Professor
Fiske, Harold	Lecturer to Assistant Professor
Mazurkevich, Yuri	Visiting to Assistant Professor
Skelton, Robert	Assistant to Associate Professor

Tenure granted

Aide, William

Sabbatical leave

McIntosh, John	One year for historical research into organ playing and organ building in Canada.
Riseling, Robert	One term for advanced study at the University of Michigan.

*Resignations and terminations*Lecturer

Britton, Joyce	Department of Applied Music
Newing, Kathryn	Department of Theory and Composition
Szłęk-Consoli, Elizabeth	Department of Applied Music

Assistant Professor

Dalkert, Charles	Department of Applied Music
------------------	-----------------------------

Facilities

As the Chairman of the Applied Music Department emphasizes, the lack of a concert hall must be considered the most serious problem the Faculty has faced. Large ensembles are restricted in their performance opportunities by the small stage of our own Recital Hall and only occasional use of Talbot Theatre at noon-hours. Clearly, the Faculty cannot take its proper place as the finest in Canada until a solution is found. No other school of comparable size and excellence on the Continent is without a concert hall and in the circumstances the forbearance of conductors and students alike has been most praiseworthy.

The Music Library also suffers from severe overcrowding and while the Faculty can for the most part offer little else but sympathy they also hope for a dramatic improvement in the future, not only for the well-being of the first-class library staff but for better studying conditions for students.

Graduate program

The following students completed the requirements for the Master of Music degree in Literature and Performance. There were no graduates from any of the other programs during this time.

Bruce Johnson (June 1977), George Kiraly (September 1976),
Heather Pineo (June 1977), Andrew Shaw (June 1977),
Susan Steele (September 1976), Marion Stuart (September 1976).

During 1976-77, the following graduate students in Music were awarded external scholarships:

John Glofcheskie -- Ontario Graduate Scholarship
Jonathan Gonder -- a Canada Council Special M.A. Scholarship
Hazel Brookes -- a Commonwealth Scholarship

A proposal for the establishment of a doctoral program in Music Education at the University of Western Ontario was placed before the Internal Appraisals Committee of the Faculty of Graduate Studies. Two external appraisers were invited to visit the campus by the Internal Appraisals Committee in order to discuss the proposed program with all concerned:

Dr. Paul R. Lehman, Ph.D. Program Adviser in Music Education, School of Music, University of Michigan, and Dr. Charles H. Benner, Director of Graduate Studies in Music Education, University of Cincinnati. Both appraisers have subsequently submitted reports to the Internal Appraisals Committee. At the present time, certain questions arising out of their reports are under consideration.

Departmental Reports

Applied Music Department

Professor John McIntosh, during his fourteen years as Chairman of the Department, guided the development of the Applied Music program to the point where it now is recognized nationally as one of the most outstanding and largest in the country. Fortunately for the new Chairman, the excellent organization of this Department enabled a smooth transition to take place. The new Chairman was able to function effectively within the existing structure of the Department and, at the same time, complete a review of existing courses and programs in preparation for new proposals to be submitted to the Faculty of Music.

The number of performances in the Department continued to increase. A total of 180 concerts and recitals were presented by guest artists, faculty and students. In addition, more visiting artists were brought to the campus than previously, because students who live in smaller centres such as London need more exposure to public concerts of international stature. These performances included a concert of contemporary music presented by the Canadian Music Council, the University of Alberta String Quartet, Quartet Canada, Peter Pears, the Gabrieli Brass and Arthur Rowe. Our own faculty performed in 33 concerts and recitals, including the series of 11 recitals devoted to the organ works of Johann Sebastian Bach. Student performances included 34 graduation recitals, 21 performances by our large ensembles and the beginning of an exchange program with the University of Toronto, whose excellent Symphony Orchestra played in Alumni Hall under Victor Feldbrill's direction. The Faculty of Music Singers, Wind Ensemble and Symphony Orchestra returned to Toronto later in the year to perform Bruckner's *Mass in E Minor* and Stravinsky's *Symphony of Psalms*.

The experience and advice of faculty members has been invaluable to the new Chairman, who has introduced a divisional structure to make this assistance even more effective. Clifford von Kuster was appointed Coordinator of the Keyboard Division; Jerome Summers, Wind and Brass Division; Robert Skelton, String Division; and Alvin Reimer, Voice Division.

The active teaching and performing careers of our piano and organ faculty continued to attract the largest number of students to the Keyboard Division. Clifford von Kuster and John-Paul Bracey planned the

most successful 1976 summer piano workshop and assisted master teacher Marcel Ciampi. Professor Bracey also performed at the University of Michigan. William Aide played an impressive total of 30 concerts and recitals in London, Toronto, Calgary, Vancouver, Montreal and Windsor, in addition to those at many other Canadian campuses. He was an Artist-in-Residence at the Shawnigan Summer School of the Arts, and his superb reviews continue to attract nation-wide attention to our University. Damiana Bratuz was active in the Chopin Society and the Canadian Music Competitions, and prepared a special seminar on Bartok. On his sabbatical year, John McIntosh presented two CBC organ recitals. Hugh McLean continued his active performing career, which included eight CBC broadcasts and recordings and ten other recitals. He is also a member of eight local and national organizations, including the Committee of Ontario Music Administrators, of which he is President, and the Canadian Music Council, of which he is a Vice-President. In the spring he was elected a Fellow of the Royal Society of Canada.

Jerome Summers' reputation as a composer grows steadily. Commissioned works were performed by the London Symphony Orchestra and the Vancouver Chamber Choir; the CBC broadcast an earlier composition, *Five Miniatures*. He continued his summer activities as conductor and instructor at the Okanagan Summer School and the Courtenay Youth Music Centre. Henry Meredith of the Wind and Brass Division performed in a large number of concerts and recitals, including six in outside centres. While on his sabbatical year, Robert Riseling broadcast a CBC recital and gave several public recitals. Last summer he continued his activities in Toronto and at the Inter-provincial Music Camp. Robert Creech, Department Chairman, performed in recitals in Vancouver, Courtenay, Montreal, Toronto, Hartford and London. He is also actively involved in the Canada Council, of which he is Chairman of the Arts Advisory Panel, the Canadian Music Council and the Canadian Music Centre. He continued his summer position as Director of the Courtenay Youth Music Centre.

The announcement of Quartet Canada's appointment as Quartet-in-Residence to the University has firmly established our Faculty of Music in the forefront of university string programs. Tsuyoshi Tsutsumi, a member of the Quartet, continued a very active international performing career which included twenty concerts and recitals in Canada, Japan, the United States and Europe and three commercial recordings. He continued his summer teaching and performing activities at Banff and at the Courtenay Youth Music Centre. Robert Skelton gave a recital at the University of Michigan; his summer activities included teaching in Toronto and Director of the New Brunswick Music Camp. Yuri Mazurkevich performed as soloist with the Winnipeg Symphony, and with his wife, Dana, inaugurated a faculty exchange with the University of Toronto and made a CBC recording of music for duo violins. Ralph Aldrich participated in a mid-winter tour of England with the Allegri String Quartet, performed in ten recitals and three television programs, and continued as Director of the Viola Institute

in Banff. Jeffrey Stokes, whose teaching is partly in the Applied Music Department, continues to play an active role in the String Division. He performed at the Okanagan Summer School of the Arts and was on the faculty for the 1976 Courtenay Youth Music Centre.

Alvin Reimer, in addition to his coordination of the Voice Division, performed extensively during the entire winter season. Apart from his many Faculty of Music solo appearances, his concert activity included twelve recitals and he recorded two others for the CBC. Martin Chambers gave eight recitals and two CBC broadcasts.

Preceptors Lesley Munn and Cornelis Rodert, plus many part-time faculty in all divisions, form a major part of our teaching faculty. They continue to broaden the reputation of the Faculty through their active performing careers in London and elsewhere in Canada.

Large performing ensembles are, in effect, the major laboratory experience for training musicians in any university. At the University of Western Ontario we are very seriously hampered by the lack of a concert auditorium sufficiently large enough to accommodate our large ensembles and provide the means for their artistic development. These include four choirs, two bands, both conducted by Donald McKellar, a wind ensemble and the symphony orchestra, both conducted by Jerome Summers, and a brass ensemble conducted by James Miller. Nevertheless, using off-campus and makeshift arrangements, these ensembles were able to continue their rehearsal and performance activities during the year. Choral activity at UWO for many years has enjoyed a national reputation for excellence. The Faculty of Music Singers, directed by Deral Johnson, performed a total of seventeen concerts, including a tour of the Maritimes. The other choirs, the Faculty of Music Chorale, conducted by Peter Hurford, the Faculty of Music Concert Choir, conducted by Brian Trevor, and the Faculty of Music Cecilian Singers, conducted by Hugh McLean, gave a total of 33 concerts.

The University of Western Ontario Faculty of Music is the largest music faculty in Canada, and students from across the country in increasing numbers are seeking admission to our University as their first choice. With the addition to our Faculty of Quartet Canada, Simon Streatfeild, and most recently, flutist Nicholas Fiore from the Toronto Symphony, even more talented students will be seeking admission. Our excellent facilities need only the addition of a proper concert hall to offer these students music training comparable to the best in North America.

Music Education Department

The Music Education Department was involved in a number of important events during the past year. In July, several members of the Department attended the XII Congress of the International Society for Music in Education which was held in Montreux, Switzerland, and throughout the year the Department

developed their planning and organization for the XIII Congress which will be held on our own campus in the summer of 1978 as part of Western's centennial celebrations.

Dr. John Paynter of York, England was guest lecturer in music education classes during the month of March. Author of *Hear and Now*, as well as several other books on compositional approaches for the classroom, Dr. Paynter made his final presentation at the Annual Meeting of the Ontario Music Educators' Association. The OMEA Meeting was part of *Prelude to Easter*, a special weekend of choral activities.

A new undergraduate course, *Advanced Kodály Method*, was approved this year and a graduate course in Kodály techniques will also be available within the M.M. program in Music Education. These additional courses will strengthen the Kodály emphasis which has become a special feature of music education programs at Western.

Individual members of faculty again were active in a wide variety of professional endeavors. Professors Kenneth Bray, Paul Green and Donald McKellar have completed several articles for the new *Encyclopedia of Music in Canada* to be published within the next few years.

Dr. Paul Green adjudicated music festivals in Winnipeg, Brantford, Oshawa, and St. John, and participated in a number of professional meetings including the Annual Conference of the Canadian Association of University Schools of Music. He was recently appointed to the Editorial Board of the CAUSM Journal.

Professor Kenneth Bray has just completed his fourth year as President of the Canadian Music Educators' Association and has undertaken major administrative responsibilities in preparation for the XIII ISME Congress. In October he read a paper "Professionalism and the School Music Teacher" at the Nova Scotia Music Educators' meeting in Halifax. He was an adjudicator at the Kingston music festival.

Professor Donald McKellar was elected President of the Canadian Association of University Schools of Music and has a prominent role as National Co-chairman of the XIII ISME Conference next year at Western. He adjudicated festivals in Sault Ste. Marie and St. John.

Professor Deral Johnson gave several choral workshops and recitals with the Faculty of Music Singers at Acadia University, the Nova Scotia Music Educators' Conference in Halifax, the Ontario Music Educators' *Prelude to Easter*, and was guest conductor for the Saskatchewan Music Educators' Meeting in Saskatoon. Professor Johnson was also an adjudicator at the 1977 *New Music Symposium* held in Toronto.

Professor Ilona Bartalus was a guest lecturer at Holy Names University in Oakland, California and, in addition to several Kodály workshops for elementary teachers, she was the adjudicator for Mount St. Joseph's Creative Music Festival. During the current year, she was involved in curriculum development projects related to the adaptation of the Kodály Method for Canadian schools.

Professor Harold Fiske, who is an executive member of the Canadian Music Research Council, reported on his research projects at a number of professional meetings including the Canadian Music Educators' Conference in St. John's, where he read a paper on "Hemispheric Dominance in Judge Reliability of Musical Performances."

Professor Robert Hughes developed a percussion curriculum (Intermediate Division) for the Grey County Board of Education and adjudicated Instrumental Music Classes at the Prince Edward Island Music Festival.

Department of Music History

The fulfilment of the objectives of the University requires excellence in both teaching and scholarship, and in no department of this Faculty is the interdependence of these two spheres more important, for ours is perhaps the least practical of the four, the one whose worth must be judged, without compromise, on the basis of these traditional objectives. The evaluation of the work of the Department in this past year gives grounds for a certain cautious satisfaction and optimism. Not, certainly, that we are satisfied with what we have achieved, but rather that progress is unmistakable. From a position already among the very best in the country we have set our sights on a place among the most select in the international community.

Teaching

The academic year 1976-77 saw the completion of the review and reworking of the courses offered by the Department to the Faculty and to the University at large. A number of new courses (The Art Song, Popular Opera, Music in Other Cultures) were developed, and the graduate offerings were revised to produce a predominantly half-course structure. The core curriculum in Music History (M026, 226) was radically reorganized to take advantage of the benefits offered by the so-called "spiral curriculum." This innovation, together with the tutorial system inaugurated in 1975-76, was undertaken to provide more effective teaching, and in response to what was seen as a change (and not for the better) in the preparedness and experience of the entering students.

Scholarship

The Fall of 1976 saw the appearance of *Studies in Music from the University of Western Ontario*, a journal concerned with the scholarly aspects of music. The new journal is expected to appear once or twice a year, and while not entirely closed to contributions from outside this University, is intended, principally, to present the work of members of the Faculty and guests who have been invited to teach or lecture at Western. *SMUWO* is received by all of the most important universities and libraries in North America, Europe and Australia.

Members of the Department produced the following papers in the academic year 1976-77. It should be noted that publications are given separately, and not included here.

Terence Bailey:

"Meaning and Music," a paper read at the University of British Columbia (Special Lecture Series);

"The Earliest Musical Forms of Antiphonal Psalmody: the Evidence of the Ambrosian Manuscripts," read at Stanford University (Music Colloquia Series) and at the University of Toronto (Faculty of Music Special Lecture Series).

Philip Downs:

"Schubert's Borrowings," a paper read at the University of Western Ontario (Faculty of Arts Lecture Series).

Gordon Greene:

"Emerging Humanism in Late Fourteenth-century Chansons," a paper read in Athens, Georgia (at the Congress of the International Courtly Literature Society);

"Origins of the Netherlands Choir Schools in the Fifteenth Century," read at Western Michigan University (at the Twelfth Conference on Medieval Studies).

George Proctor:

"Some Relationships between Canadian Art and Music," a paper read in Calgary (University Art Gallery Lecture Series);

"Neoclassicism and Neoromanticism in Canadian Music," read at the University of Calgary (Department of Music Lecture Series) and at the University of British Columbia (Special Lecture Series).

Guest Lecturers

The papers read at Western in the Department of Music History Colloquium Series follow.

Gregory Butler (University of British Columbia): "New Research into J. S. Bach's *Clavierübung Part III*."

Anthony Milner (Goldsmith's College, University of London): "The Musical Declamation of English." (Sponsored jointly by the Departments of Music History and Theory and Composition).

Jeremy Noble (London, England): "Josquin in Focus."

Edmond Strainchamps (University of New York at Buffalo): "Marco da Gagliano and the Company of the Archangel Raphael: an Unknown Episode in the Life of the Composer."

Department of Theory and Composition

The annual *New Music at Western* concert included fifteen performers presenting recent works of faculty composers: Jean Anderson, Jack Behrens, Peter Clements, Arsenio Giron, Alan Heard, Peter Paul Koprowski, Jerome Summers and Gerhard Wuensch. Two evenings of student compositions were presented; several of these works were presented at the *Student Composers' Symposium* held this year at McGill.

Department-sponsored activities included a three-day residency by Christian Wolff who met with a number of classes and coordinated a noon-hour presentation of his compositions; a recital by Ádám Fellegi of recent Hungarian piano music, and lectures by Hans Keller and Anthony Milner, the latter in cooperation with the Music History Department.

Off-campus performances of works by Faculty composers:

Jack Behrens: *Fantasy on Francis Hopkinson's "My Days Have Been So Wondrous Free"*
(Fresno Philharmonic Orchestra)

P. P. Koprowski: *First String Quartet*
(CBC broadcast)

Gerhard Wuensch: *Six Guises*
(Showcase 1976)

Sonatina for Viola and Piano
(University of Windsor; Trent University)

Papers:

Peter Clements: "Digital Sound Synthesis for Musical Composition"
(Ontario Universities Computing Conference)

Jack Behrens: "Recent (1972-76) Piano Works of Christian Wolff"
(CAUSM)

Gerhard Wuensch was elected Treasurer of the Canadian League of Composers;
Peter Clements was elected Secretary of CAUSM.

REPORT OF THE DEAN

Faculty of Nursing

Professor M. Josephine Flaherty

During the 1976-77 academic year, the Faculty of Nursing continued in its examination of the baccalaureate and master's programs and was involved in the nursing profession's examination of the scope and nature of nursing practice and the implications of this for nursing education.

Members of the Faculty of Nursing are grateful for the continued interest and support of Dr. D. C. Williams in the Faculty of Nursing and its educational and professional activities. The Faculty of Nursing welcomes Dr. George Connell to the University and looks forward to working with him.

EDUCATION

The number of applicants for undergraduate programs continues to exceed by far the number of places available. The shortage of qualified faculty and lack of clinical resources for student education has made it impossible for the Faculty of Nursing to increase substantially the number of students admitted. The Faculty continues to work with health science agencies in the London area to plan regionally for the use of clinical resources for the education of students. The Dean of the Faculty of Nursing and Dr. Malcolm Peat of the Department of Physical Therapy have had discussions with representatives of the Ministry of Colleges and Universities regarding the cost of clinical education for health science students and how this problem can be studied in depth.

The Faculty of Nursing has made significant progress in the development of a conceptual model for nursing practice upon which all curricula in the Faculty will be based. A proposed conceptual model is being tested empirically in clinical settings by members of the Faculty. It is anticipated that if the results of this testing are positive, work will begin on the development of new curricula in the Faculty of Nursing.

Modifications in the baccalaureate curricula have been made with a view to strengthening the clinical components of these curricula. It is hoped that primary health care skills will be included increasingly in the programs. Attempts to increase the clinical component of the final year of the basic baccalaureate program during the 1976-77 academic year were successful and further attention will be given to this aspect of the program. Members of the baccalaureate program for registered nurses continue to scrutinize the structure and content of that program and particular attention has been given to clinical nursing practice. Explorations are underway for the use of additional clinical practice areas by registered nurse students. Community

health nursing and primary health care learning experiences for all baccalaureate students will be examined by the Faculty.

Modifications have been made in graduate programs to increase substantially the theory and practice of nursing and the functional competence content areas through the addition of a third (summer) term during which all graduate students complete clinical nursing practica and nursing education or nursing administration practica. It is believed that these modifications will result in graduate students from this University being prepared more broadly and deeply for the senior positions in Nursing that they tend to assume upon completion of the master's programs.

The Faculty of Nursing in cooperation with the Faculty of Medicine and Medical Services, Health and Welfare Canada, continues to examine and modify as indicated the program to prepare nurses to work in isolated areas in Northern Canada. Visiting Lecturers have contributed significantly to the teaching in this program. The Faculty of Nursing at Western will be involved in the evaluation of the results of the program in a countrywide study.

RESEARCH AND PRACTICE IN NURSING

The Faculty of Nursing continues to be interested in the development of the theory and practice of nursing. A number of faculty members are engaged in nursing practice activities in addition to their teaching and other University responsibilities and have been in much demand as consultants to community health and hospital agencies. The Faculty has contributed substantially to the development of primary care nursing through the participation of Pauline Rusinski, Marian McGee, Jessie Mantle and Josephine Flaherty in primary health care agencies in the London area. Through research activity, advisory responsibilities and nursing practice experience, members of the Faculty are promoting the testing of theoretical constructs in nursing and the development and improvement of nursing practice strategies. Faculty members contribute to workshops and position papers in nursing practice, nursing education and nursing research.

Louise Brown has completed a research project, financed by a National Health grant, in which she did a descriptive analysis of parents who are expecting a first child and of their reasons for attendance and non-attendance at prenatal classes. Marian McGee is engaged actively in a major research project on the Determination of Family Decision-making Capacity by Community Health Nurses and a Measurement of Nursing Impact. She and Josephine Flaherty continue to act as appraisers of research projects for Provincial and Federal Governments and as consultants for the development of research proposals. Marian McGee is Chairman of the Research Committee of the Faculty of Nursing; she and Josephine Flaherty are members of the Health Sciences Research Committee. Marian McGee has been involved in an examination of occupational health. Jessie Mantle and Marian McGee have been acting as consultants to a major nursing research project

that is being sponsored jointly by the Canadian Red Cross Society and the St. John Ambulance Association and that is funded by a National Health grant.

The Faculty of Nursing is continuing to enhance the research capability of its members. Nurse/teachers are very heavily engaged in teaching and find it difficult to be involved in research at the same time. Several new faculty members with interest and expertise in research joined the Faculty of Nursing in 1976 and additional faculty members with such expertise will join the Faculty in July of 1977. Efforts continue to strengthen the research education in both baccalaureate and master's programs. The Research Committee of the Faculty of Nursing was formed during the 1976-77 academic year and will increase its activity during the 1977-78 academic year.

FACULTY

Irmajean Bajnok is President of the Registered Nurses' Association of Ontario, a Director of the Canadian Nurses' Association, a member of the Examination Review Committee of the College of Nurses of Ontario and active in a number of interdisciplinary groups in the province that are examining health care issues. She has given addresses to nursing groups and conferences in many parts of Ontario. She presented a paper at the Congress of the International Council of Nurses in Tokyo. Jean Forrest has been on sabbatical leave at the University of Michigan and will be returning to the Faculty in July of 1977. Nafees Aidroos completed requirements for a master's degree in Nursing Education at the University of Edinburgh. Beverly Ashton is a member of the Provincial Advisory Committee on Nursing Education and has been active in the Nursing Professional Organization.

Glee Barnard has been a member of several educational committees in the health sciences and has been engaged in nursing practice to update her own skills in these areas. Barbara Brown has been an active member of the Registered Nurses' Association of Ontario at several levels and recently was elected to a provincial committee of that organization. She is the Secretary of the Canadian Association of University Schools of Nursing. Louise Brown is a member of the Convocation Committee and of the Centenary Committee of this University and of a committee of the Ministry of Health to examine qualifications of Community Health Nurses. Josephine Flaherty has been Chairman of the ad hoc Committee on Standards for Nursing Education at the national level, Chairman of the Committee for Accreditation of Basic Baccalaureate Programs in Nursing in Ontario, a member of the Nursing Advisory Committee of Fanshawe College and of the Health and Welfare Committee of the same college, a member of a number of committees in the health sciences, on the campus outside of the health sciences and off the campus, a member of an Advisory Committee on the Administrative Structure of the Ontario Institute for Studies in Education, a member of the Councils of the Canadian Association of University Schools of Nursing and of the Ontario Region of that association, a Director of the Registered Nurses' Association of Ontario Foundation, the Chairman of the Selections Committee for the new Executive Director of that association and a member of numerous other committees. She has given workshops and papers in a number of centres

in Ontario and in other provinces. She presented a paper at a Workshop on Ethics at the Hastings Center in New York, gave two papers at the Congress of the International Council of Nurses in Tokyo and was a participant in the Kellogg International Conference on Health Service Administration Education.

Wendy Gerhard is a member of the Council of the College of Nurses of Ontario and recently became Chairman of the Discipline Committee of that Council. She is a Director of the Registered Nurses' Association of Ontario Foundation, has been an active member of several R.N.A.O. Committees and has been Coordinator of the Basic Program. Amy Griffin has been a member of the Advisory Council on Senior Citizens and as Chairman of the Education Committee of that Council, presented several reports to the Council.

Jessie Mantle is the President-Elect of the Ontario Region, Canadian Association of University Schools of Nursing and Western's representative of the Graduate Program to the Council of that organization. She has presented numerous workshops and papers to groups in nursing service and other health science areas. She continues to work on the development of a classification of nursing diagnoses and the theory of nursing process. She is very much in demand as a consultant to nursing practice groups in hospitals and in community agencies. Marian McGee is a much sought after consultant in nursing practice in both hospitals and community health nursing. She designed and conducted a Continuing Education Program for Senior Community Health Nursing personnel. She continues to be active in the development of nursing practice strategies and skills.

Edna Oudot has been engaged in a Committee to Examine the Role of Community Health Nurses and has been active in the professional association. Carolyn Roberts is on study leave while she engages in a doctoral program at Wayne State University. Pauline Rusinski has been active in the development of the role of the Primary Care Nurse in the London area and is a member of the Council of the Ontario Region Canadian Association of University Schools of Nursing. Iola Smith is a member of the Examination Review Committee of the College of Nurses of Ontario. Vivian Wood gave three workshops in the Examination of Student Nurse Problems and the Evaluation of Student Nurse Performance. She is a member of the Senate and of the Board of Governors and of committees of both of those groups.

Glee Barnard, Wendy Gerhard, Sharon Graham and Anita Goldsmith resigned from the Faculty during the 1976-77 academic year. Each of them made substantial contributions to the Faculty and will be missed during the coming years. On July 1, 1977, Dorothy Hibbert assumed the position of Acting Dean of the Faculty of Nursing on the resignation of Josephine Flaherty from that position.

RELATIONSHIPS WITH OTHER ORGANIZATIONS

During the 1976-77 academic year, the Faculty of Nursing has worked closely with Fanshawe College of Applied Arts and Technology in the development of nursing education programs and has maintained close relationships with the

hospitals and community health agencies in and around London. Members of the Faculty are working with these agencies in the development and improvement of nursing practice and nursing care.

The Faculty of Nursing continues to maintain a link through Health and Welfare Canada with the nursing program at the University of Havana in Cuba. Students from the Faculty of Nursing from all programs have been practicing nursing in hospitals and community agencies, thus providing a health service to London citizens. The Faculty provides nursing service to families in the community on a year-round basis through student education programs and faculty participation, student work with clients is guided closely by the faculty who work with medical practitioners, official and voluntary health agencies and the Chief Social Worker in the Social Service Department at City Hall. At least 500 families receive assistance from members of the Faculty of Nursing in any year.

Members of the Faculty of Nursing at Western continue to give substantial leadership in the organized nursing profession and in health service activities in general.

APPRECIATION

The Faculty of Nursing recognizes and appreciates the contribution and cooperation of the Faculties of Arts, Science, Social Science and Medicine as well as that of other individuals and groups in the University. A number of health agencies in the London area have contributed substantially to the educational programs through assistance with the planning and teaching of courses and with the arrangement of clinical experiences. The Faculty of Nursing acknowledges with thanks this participation which is essential to the implementation of sound educational programs in Nursing at this University.

FACULTY OF PHYSICAL EDUCATION

Report of the Dean

PROFESSOR EARLE F. ZEIGLER

The Faculty of Physical Education has five budgetary sub-units: the Undergraduate Program, the Graduate Study and Research Program, the Physical Recreation & Intramurals Program, the Intercollegiate Athletics Program, and the Dean's Office. The instructional programs, both undergraduate and graduate, and the Dean's Office are funded by provincial BIUs, whereas the PRIP and IA programs are financed basically by revenues from student fees, gate receipts, ancillary fees paid by facility users within the University community, and by instructional fees paid by those learning physical recreation skills within the PRIP (program). (It should be noted here that the Physical Recreation and Intramurals Program is eligible for provincial funds, but up to now it has not been necessary to make a strong case for such support within the University financial structure.) The annual report has normally been divided into five parts corresponding to each of the budgetary sub-units. The first part has been prepared by the dean and includes both an introduction and a summary to the other four sub-divisions. Each of the other parts was written essentially by the program chairman concerned.

Each of the five statements, and the entire document taken as a whole, describe succinctly what has occurred during the Faculty's fifth year of operation (1976-77). Since its inception it has been gratifying to the members of the Faculty that the establishment of such an integrated unit has provided such a fine opportunity for all to work together in the creation of a university environment in physical education, sport, and dance that does not exist in more than only a relatively few situations in the world (most of which are in Canada). Whether the members of the Faculty will be able to look ahead so optimistically depends largely upon the level of support which will be granted to it by the University Senate and the Board of Governors in the years immediately ahead. The University's financial position has changed materially since the time when the Faculty was founded (1972), a period when there was encouragement to move toward a level of excellence in all of the Faculty's programs. Certainly within the Faculty's environment intellectual achievement is valued highly; fine professional preparation is considered most important; and a major objective of the Faculty for the greatest percentage of people possible within the University Community is to aid life enrichment through the provision of active physical recreational activities of varying degree and intensity. All who are working in the Faculty feel that "total fitness" can be achieved only through the inclusion of physical recreation and vigorous physical activity in one's life style. The Faculty is fully in accord with the objectives of the country's Participation Movement.

Thus, despite the difficult--and increasingly worse--financial situation of the University, members of the Faculty are still working toward the establishment of a model program in which a concept of 'balanced mediocrity' because of this field's somewhat traditional place in an educational hierarchy where an imbalance between "education of the mind and of the body" has long prevailed.

It is the hope of members of the Faculty that the quality of the various programs will be uniform and not out of balance--and that whatever excellence is achieved

either in the Physical Recreation & Intramurals Program or the Intercollegiate Athletics Program will not be gained at the expense of sound educational perspective. It has been an expressed goal of the Faculty to provide the finest type of learning and/or recreational experience for all who wish to take part through the media of sport, dance, play, and exercise. The main point to be made here is that it is intended that the quality of the Graduate Study and Research Program will not be responsible for a lesser effort in the Undergraduate Program--and vice versa. This identical statement can--and should be--made in regard to the relationship between the quality of the Intercollegiate Athletics Program and that of the Physical Recreation and Intramurals Program. Members of the Faculty take pride in the fact that, one way or another, there is an opportunity for all members of the entire University community to become involved in some capacity in at least one of the programs sponsored by the Faculty of Physical Education. The reader will note that certain sub-headings reappear throughout each of the program reports that follow after this introductory and summarizing statement (with occasional variation). They are: (1) Student Enrolment, (2) Curriculum or Offerings, (3) Goals Achieved, (4) New Goals Proposed, and (5) Unique Problems. Having read each of these reports carefully, and based on observations and involvement to the greatest extent possible during the past year, the following summarizing and evaluative statements are made:

The Undergraduate Program. In last year's report (1975-76), it was stated that "significant progress was made within this program." It is a pleasure to be able to state that this level of progress was continued, and perhaps even improved upon. Total enrolment was down slightly (from 845 to 832), and this may decline even further due to two factors primarily--the failing job market in teaching and rigorous academic standards. Members of the Faculty must watch this situation carefully and should place even more emphasis on the recruitment of qualified students for both the Honors Program and the General Program. Further, relationships should be strengthened even more with the various professional associations at the several levels to help bring about the inauguration of a provincial certification program for qualified professional practitioners in areas other than teaching in the schools. On campus efforts should be continued toward keeping the faculty-student ratio similar to university-wide averages. The raising of faculty recruitment and retention standards will assist in the alleviation of the overall situation as well. It is gratifying to report that the Core Program was fully implemented in the fall of 1976, thus providing a balance in the curriculum between the "rigidity" of the 1950s and the "flexibility" of the late 1960s. Also, the approval and implementation of upper-year options will no doubt assist with later job placement. The option (i.e., degree program) in which the student specializes in the theory and practice of human motor performance in one or more sports or physical activities (e.g., dance, gymnastics, aquatics) has been approved in principle for several years. The implementation of this program would make it a first in English-speaking Canada (Laval University having started such a program three years ago at both the undergraduate and graduate levels). The appointment of coordinators for certain areas of human motor performance would be a positive step in this direction. Considering the various developments that are being planned, it is necessary to once again state that the facility and equipment situation becomes more difficult with each passing year. The facility problem could be resolved by the construction of another building--or by an addition to Thames Hall. However, one cannot resist

the opportunity to state again even more forcibly that the need could be met if all campus facilities pertaining to sport, dance, play, and exercise were placed under the direct supervision of the Faculty of Physical Education. Program features are now taking place in some nine different buildings on campus, and it is doubtful whether the Faculty has control of even one of these buildings (Thames Hall) for class and activity scheduling. Obviously, this is a ridiculous situation and should be rectified.

The Graduate Study and Research Program. The 1976-77 academic year was without doubt one in which a series of excellent accomplishments were recorded. For example, the fact that the largest group of students in the fourteen-year history of the program graduated at the fall convocation must be noted. Most interesting and significant also are the wide variety of topics selected for thesis study, which are truly representative of scholarly endeavor and research in both the bio-scientific and the social science and humanities aspects of physical education and sport. Subjects considered ranged all the way from growth hormone response to exercise to biomechanical analysis of the vertical jump in the bioscientific area, to the effects of minor hockey league competition on aggression in young boys and the nature of man in contemporary physical education philosophy on the social science and humanities investigative spectrum in the field. During this year it can be reported further that thirty-one men and women students received teaching and research assistantships. Some twenty of the approximately forty members of the Faculty have graduate faculty appointments, and these are divided roughly into half with primarily bio-scientific interests and half with social science and humanities interests (although the line of demarcation is often blurred because of studies being investigated that demand interdisciplinary cooperation). Lastly, after many tedious and frustrating years, the proposal for a Ph.D. program in the area of human functional response to exercise received approval and was forwarded to the Ontario Council on Graduate Studies for consideration. However, the final disposition of the Ph.D. option in the social science of sport being developed cooperatively with the University of Windsor has not been determined, and this is a matter of great concern to many within the Faculty--and to the future development of the Faculty (and indeed to the entire field in Eastern Canada).

The Physical Recreation and Intramurals Program. It has been very gratifying to observe the development of the Physical Recreation and Intramurals Program during the first five years of the Faculty of Physical Education's existence--and to play a role in the encouragement and supervision of this worthwhile program. Until this year it has been regarded as an emerging entity within the Faculty and has--to some extent--received disproportionate increases in budget each year in an effort to bring it to a fully adequate level on campus. An arbitrary 40-60% ratio between it and the Intercollegiate Athletics Program has been the goal, and this objective was almost achieved until the most recent budgetary crisis set in. However, this program is still evolving, and there is no fixed standard that has been validated which can give firm guidance in regard to how much more leadership, facilities, and equipment should be provided to give Western what might be called an excellent and/or ideal program. Thus, the opinion is stated here that it is now time at The University of Western Ontario that BIU money be gradually infused

and increased from year to year to ease the severe strain that is now being placed on the budgets for both intercollegiate athletics and physical recreation and intramurals at Western. Although such a step is proper and legal in regard to the use of provincial funds, it has not been necessary to take it during the 1960s and 1970s to this point. Nevertheless the time is now ripe for such a move, and every effort should be expended to bring such a change about at the first possible moment. This step would permit the continued growth and development of the PRIP program, and it would also be beneficial for the Intercollegiate Athletics Program that has also reached a "financial crossroads" during the 1976-77 academic year. Viewed from another standpoint, it must be kept in mind that the PRIP program affects the largest percentage of the student population of any of the programs within the Faculty--and it offers physical recreational opportunities for many others who make up the larger University community. It is our intention to set objectives and then to meet them to the best of our ability in the various areas included in the total program. Registrations in the non-credit sport skills instructional sub-program have been increasing, and improvements are occurring in the sub-program of competitive sports for men and women. The sub-program of sports clubs has increased in enrolment as well. From the standpoint of the Dean's Office, concern must be expressed about the elimination of the 'exercise rehabilitation clinic' concept from PRIP (unless it can be shown that this need is being adequately met in some other fashion), and it is highly regrettable further that the lack of funds is bringing about the elimination of the sub-program of physical fitness appraisal and guidance for members of the University Community in 1977-78.

The Intercollegiate Athletics Program. Even more so than in the past, it is possible to be really proud of the University's program in competitive athletics on a comparative basis within Canada. The Chairman's report below will explain the rationale for this considered opinion, one which has been made with reasonable assurance as to its validity. However, as is the case with the Faculty's other programs, our effort in intercollegiate athletics can be made even better, and still be in sound educational perspective--a goal which we must keep firmly in mind. Some means must be found whereby at least normal growth and development can be maintained in the years ahead--merely increasing students' fees will not provide the answer to the problem. In fact, if it should develop that BIU money is used to a gradually increasing extent for the PRIP program, those responsible for the Intercollegiate Athletics Program--and all members of the Faculty--will be faced with a public relations effort of considerable magnitude to maintain a solid level of support from the majority of students and the University Students' Council. Thus, other avenues which might provide additional revenue must be investigated so that it will continue to be possible to offer high calibre program characterized by both quality and quantity.

The Dean's Office. This was a typically demanding year for the personnel connected with the Dean's Office. To a certain extent because the Dean was relinquishing his post at the end of the academic year, certain plans were delayed for the consideration of the new Dean (W. J. L'Heureux), the Faculty Council, and/or the Executive Committee. Nevertheless, many decisions had to be made now, so to speak, and a number of steps were indeed taken in an environment characterized by a high degree of participatory democracy. The Dean did his best to ward off

what could be characterized as a "lame duck feeling," secure in the knowledge that the Faculty had made progress in all of its programs through the concerted effort of all concerned. It is difficult to make a decision to step out of an administrative post for a number of reasons. However, the accomplishments of a five-year term are evident, and those unfulfilled objectives can be approached by a new dean in a different perspective and with a different set of human relations. No matter how one views it, the administrative post of the dean is demanding, and the pressures, duties, and responsibilities--both large and small are ever present and seem to be increasing each year. In the present university environment, the dean's power has most definitely decreased (perhaps a good thing from certain standpoints), and the monetary reward is indeed slight--especially if one continues to teach, publish, and advise theses, along with offering professional service to his field. In the final analysis, the satisfaction must come from the accomplishments and success of the Faculty and its members, both collectively and individually--and from the understanding that one has played a role in such accomplishment. So it is possible to express deep and sincere appreciation for the opportunity to serve. Lastly, it is really a pleasure to thank one's associates both within the Dean's Office and on the Executive Committee. The dedication and professional commitment of both Garth Paton (earlier) and Glynn Leyshon (now) have been of a very high calibre. Naomi Vonesh, as Administrative Officer, has provided the Faculty with outstanding effort and dedication (even though her financial reward will have to come some day from some higher realm). Greta Jones served faithfully as secretary, and her help is already missed sorely (now that the succession in office has occurred). During the first five years of the Faculty, the dean has been blessed with outstanding assistance and a truly fine relationship with an ever-changing Executive Committee (as to composition). At present the posts of Chairman--all four of them--are being filled by truly dedicated professionals. Bob Barney, a fine teacher and scholar, is completing his term of office as Chairman of the Intercollegiate Athletics Program in 1977-78, and there is absolutely no doubt but that a truly fine standard has been developed and maintained. Bob Zeisner, as Chairman of the Physical Recreation & Intramurals Program, has provided dedicated and tireless service to an ever-expanding program. Bert Carron, as Chairman of the Graduate Study and Research Program, will be completing a three-year period of service. During this time he has managed to improve upon an already fine program, while himself continuing to be productive as one of the Faculty's leading scholars. Finally, D. C. ("Connie") Milne has made significant progress in just one year with an admittedly difficult task as Chairman of the Undergraduate Program. His dedication to duty and detail should not go unrecognized in this report. During the past five years, two professors have served on the Executive Committee--in itself a difficult and demanding routine. First Jack Fairs and now Bob Eynon have been of inestimable help in their often "ombudsman-like" roles. There is every reason to be reasonably optimistic about the Faculty's future, because the Faculty is made up of a really fine group of faculty and staff members (the like of which I have not encountered previously in some thirty-six years in the field). It is truly possible to say that we have worked together with good spirit to arrive at our present state of development as a faculty of physical education in Canada.

UNDERGRADUATE PROGRAM

D. CONRAD MILNE, CHAIRMAN

Student Enrolment: Total enrolment of full-time Physical Education students was 832 compared to last year's total of 845. A break-down of the present year's enrolment is as follows:

Year I	General	300 (PE 020)		
Year II	General	128	Honors	79
Year III	General	120	Honors	88
Year IV			Honors	89
Special				28
		<u>548</u>		<u>284</u>

This breakdown does not include the 245 non-Physical Education students registered in PE 020 or those of other faculties registered in our various courses as options.

Curriculum: This year witnessed the introduction of the Core Program with its own unique problems. Further planning of course content and evaluation is currently underway after our first year's experience.

Two new courses, PE 447 (Physical Education for the Exceptional Child) and Dance 274b (Folk and Traditional Dance) have been approved by Senate. PE 447 will be offered at night during the 1977-78 academic session. One new activity course, team handball, was introduced and became an instant success. An added element to our program this year was the introduction of the "early-bird" activity section at 6:30 a.m. This concept really didn't solve our perennial overcrowding in our activity class by making activities available for Year III general students (as less than half of these students took advantage of this opportunity). The Faculty Council has since voted to discontinue this early morning activity section.

Degrees Awarded: The following degrees were awarded:

	<u>General</u>	<u>Honors</u>	<u>Cert. of Hons. Stdg.</u>
Fall '76	67	7	0
Spring '77	98	70	4

Summer Courses: The following summer courses were offered through the Summer School and Extension Department.

Summer Evening: PE 020
PE 230a
PE 261b

Intersession: PE 370a
PE 388b

Summer Day: PE 020
 PE 200a/201b
 PE 200a/201b (Owen Sound)
 PE 300a/301b
 PE 280a
 PE 240b
 Anatomy 220a, 320b

Academic Counsellor: At the time of writing we have not as yet filled our new Academic Counsellor staff position. The four professors, namely Hill, Decker, Morrow and Singh, who were engaged in counselling duties during the year have been re-assigned to other duties in our activity and theory classes.

Teacher Evaluation & Training: The University Student Council's teacher rating form indicated that our faculty members averaged 3.75 on the "overall effectiveness" question. The activity evaluation average was even higher at 4.41.

A diagnostic teacher rating form was employed on second term and full year courses and provides valuable feedback to the professors concerned.

Dr. Bruce Squires held a half-day workshop on "course design" of which 14 faculty members were in attendance.

Future Considerations:

1. Several new courses are before the Curriculum Committee at this time and require some serious consideration in light of our budgetary problems.
2. The area of Dance is to be re-evaluated within the Faculty by task force to be struck by the Office of the Dean.
3. An undergraduate coaching stream is presently being formulated by the Curriculum Committee and should be implemented by the fall of 1978.
4. Additional in-service teacher training workshops be made available to faculty members, especially those below the faculty average.
5. An evaluation of all courses on a rotational basis to be carried out by the Curriculum Committee, beginning with the "oldest" courses.
6. Declining enrolment of students seeking Physical Education due to the uncertain job market for graduates, requires the Faculty to now work more closely with Secondary School Liaison to recruit qualified students. The alternative would be to begin cutting back on courses and faculty.

GRADUATE STUDY AND RESEARCH PROGRAM

ALBERT V. CARRON, CHAIRMAN

Enrolment and Courses: In the 1976-77 school year, there were a total of 17 full-time and 15 part-time students registered in both the Fall and Winter Terms. In addition, 6 students enrolled in the Summer School graduate class.

The faculty offered 18 one-term courses: 8 in the Fall Term; 8 in the Winter Term and 2 in Summer School. Also, 9 students were enrolled in PE 555 (Individual Study and Research).

Degrees Awarded: A total of 19 M.A. degrees in Physical Education were awarded at Fall Convocation; this was the largest group of graduates in the history of the program. Sixteen of these students completed their degree requirements within the Thesis Route, while the remaining 3 did so via the Comprehensive Route. At Spring Convocation, 3 students received M.A. degrees; all of these did so through the Thesis Route. The M.A. graduates, their thesis topics, and faculty advisors were:

RAY ALLARD (The effect of facility-sharing agreements on the availability of arenas and gymnasias for Physical Education and Recreation in selected Southwestern Ontario Cities. R. Barney)

JOAN ASHLEE (Growth hormone response to exercise and its application in testing for growth hormone deficiency. D. Cunningham)

ROBERT BEARPARK (Geographical factors affecting the recruitment of association football talent in the English Football League. B. Petrie)

SUSAN COOK (An inquiry into undergraduate philosophy of Physical Education course experiences in Canadian universities. E. Zeigler)

DOUG DARLING (An examination of the Canadian Amateur Diving Association, Inc. D. Semotiuk)

GLEN DAVIS (The effect of varied rest periods during interval training upon aerobic and anaerobic fitness. R. Eynon)

PAUL DENNIS (The interactive effects of mental toughness and experimental success/failure upon performance outcome. A.V. Carron)

JOHN GARLAND (A study of the intramural sport programs in selected colleges of applied arts and technology in the Province of Ontario 1975-76. A. Mikalachki)

HELEN GREAVES (An examination of the sports development policy of the Canadian Amateur Swimming Association, 1961-1976. D. Semotiuk)

RICK HARE (An examination of the current participation of former minor hockey players. A.V. Carron)

KAREL HRKAL (An experimental study of the development of the mature form of the underarm throwing pattern in preschool children. D.C. Milne)

HOWARD LAMB (A comparison of cinematographic and force platform techniques for determining take-off velocity in the vertical jump. P. Stothart)

LUCINDA LEIGH (Social and educational backgrounds of 1976 Canadian Alpine ski racers. B. Petrie)

DONALD McCRIMMON (A comparison of interval and continuous training effects on selected central and peripheral cardiovascular responses to exercise in women. D. Cunningham)

AINSLEY ROSE (An historical account of Canada's participation in international ice hockey: 1948-1970. R. Barney)

HARTMUT ROSENFELD (A comparison of left ventricular function during exercise in young men of low, moderate and high aerobic fitness. D. Cunningham)

DEBBIE SHOGAN (The nature of man in contemporary American physical education philosophy. E. Zeigler)

DAN SMITH (The effects of minor hockey league competition on aggression in young boys. A.V. Carron)

MARION THOMSON (A comparison of food habits of young hockey players: influence of age and competition level. G. Wearing)

SUSAN VAIL (The effect of female athletic involvement on femininity and self-esteem. B. Petrie)

YVETTE WALTON (The life and professional contributions of Ethel Mary Cartwright, 1880-1955. R. Barney)

ELIZABETH READY (The effect of interval training and detraining on anaerobic fitness in women. R. Eynon)

The Comprehensive Route M.A. students and their advisors included: TELLA BROWN - G. Wearing, ROSANNE PARKER - B. Petrie, and TOM SINCLAIR - W. L'Heureux.

Graduate Assistantships: Thirty-one students received teaching and research assistantships with the total support being \$47,269. This funding was obtained from the budget of the Graduate Program (\$22,499); the Faculty of Graduate Studies via Special Teaching Assistantships (\$12,900); Physical Recreation and Intramurals (\$2,970); Intercollegiate Athletics (\$2,000); the Cardiac Study (\$2,000); and the Undergraduate Program (\$5,000).

Additionally, one student, Mr. Ken Walsh, received an O'Keefe Coaching Bursary, while a second, Ms. Donna Sears, was supported financially by a Department of Health and Welfare grant.

Faculty: The Graduate Program totaled 20 faculty during the 1976-77 academic year. In the summer of 1976, two faculty members, Professors Frank Cosentino and Brian Petrie left the University. Also, on January 1, 1977, Professor John Richardson (who had been on a two-year leave of absence) resigned. Additions to the Faculty include Professors Klaus Meier and Peter Donnelly.

The area of concentration in Summer School was sociology/social psychology of sport. The visiting professors were Professor Mike Smith from York University and Professor Dan Landers from Penn State University.

Goals Achieved: The proposal for a Ph.D. program in the area of Human Functional Response to Exercise was approved by the Faculty of Graduate Studies Internal Appraisals Committee and submitted to the Ontario Council on Graduate Studies. In turn, the Appraisals Committee of OCGS appointed three External Appraisers, and this process was expected to be completed by August, 1977. Another senior scholar has now been appointed in the area (Professor J. Skinner) and, assuming favorable appraisal, the program could be expected to begin in 1978.

The ratio of students entering the M.A. program to students completing the degree requirements does appear to be improving. As indicated above, the largest graduating class in the Faculty's history occurred in 1976.

A newsletter was developed as a means of maintaining contact with former graduate students and faculty.

New Goals Proposed: The major objective for 1977-78 must be the resolution of the status of the Social Science of Sport Ph.D. option. The present proposal has been rewritten a number of times, but it does not appear to be acceptable in present form to the Faculty of Graduate Studies Internal Appraisals Committee.

Unique Problems: The Coaching Specialization Program has been in operation for one year. A number of potential problems need to be resolved in this area including the development of a set of guidelines for P.E. 597 (Coaching Practicum); a reexamination of the curriculum (at the present time, the degree requirements include those developed for the general M.A. and a number of additional requirements); and a resolution of equitable workload credit for faculty involved in supervising the Coaching Practicum.

PHYSICAL RECREATION AND INTRAMURALS PROGRAM

R. E. ZEISNER, CHAIRMAN

NON-CREDIT INSTRUCTION IN SPORT SKILLSCourses and Enrolment:

<u>Activity</u>	<u>Adults</u>	<u>Children</u>	<u>Total</u>
Beginning Ice Skating	18		
Intermediate Ice Skating	11		
Ladies Fitness Class	210		
Social Dance	56		
Beginning Squash	130		
Intermediate Squash	18		
Beginning Tennis	322		
Intermediate Tennis	32		
Gymnastics	60	37	
Sub Total	857	37	894
Aquatics			
Moms/Pops & Tots		110	
Pre-Beginner		116	
Beginner	93	198	
Junior Red Cross	66	121	
Intermediate Red Cross	44	125	
Senior Red Cross	23	95	
Senior Resuscitation	9		
Bronze	50	75	
Leaders	23		
Award of Merit	21		
Distinction	24		
National Life Guard Service	24		
Synchronized Swimming	22		
Springboard Diving	27	47	
Sub Total	426	887	1,313

TOTAL REGISTRATIONS

2,207

Personnel: Of the twenty-seven part-time instructors in this sub program, all but two were students of the University of Western Ontario. Their salaries totalled approximately \$16,000, and income from registrations was about the same amount.

Goals Achieved:

- Gymnastics was successfully added to the list of activities.
- The teacher-pupil ratio was reduced in squash racquets and tennis.

New Goals Proposed:

- a. To create more homogeneous class groups. It has become apparent that instructors in some non-aquatic activities were required to teach classes made up of individuals with an unreasonably wide range of ability and experience. Registration procedures will be modified to alleviate this problem.
- b. To develop progress reports for students in non-aquatic activities. Although the courses are non-credit, it seems reasonable that instructors should use an evaluation process which will measure individual student progress and teaching effectiveness.
- c. To reduce student absenteeism. The average rate of absenteeism was about thirty-five percent.

COMPETITIVE SPORTSActivities and Participation - Winter Term:

<u>Activity</u>	<u>M E N</u>		<u>W O M E N</u>		<u>C O - E D</u>	
	<u>Parti.</u>	<u>Teams</u>	<u>Parti.</u>	<u>Teams</u>	<u>Parti.</u>	<u>Teams</u>
Ball Hockey	297	(27)				
Touch Football	576	(48)	50	(5)	200	(10)
Softball	156	(12)	56	(5)	144	(12)
Golf	180		2		-	
Soccer - 11 man	315	(21)	30	(3)	-	
Track & Field	57		28		-	
Tennis - Sgles., Dbles., Mixed	96		30		28	
Cross-Country Run	102		-		-	
Volleyball	252	(21)	522	(58)	294	(42)
Basketball	648	(54)	406	(36)	170	(17)
Bowling - 5 and 10 Pin	72		2		60	(15)
Table Tennis - Sgles. & Dbles.	24		-		-	
Ice Hockey	855	(57)	225	(17)	-	
Squash - League & Singles	140	(11)	27		-	
Waterpolo	60		-		108	(13)
Badminton - Sgles., Dbles., Mixed	58		43		46	
Swimming and Diving	43		-		-	
Handball - Sgles. and Dbles.	-		-		-	
Wrestling	-		-		-	
Lacrosse	72	(6)	-		-	
Paddleball - Sgles., Dbles., Mixed	47		8		34	
Curling	-		-		24	(6)
Track and Field (Indoor)	63		3		-	
Soccer - Indoor 5-a-side	315	(35)	-		-	
Floor Hockey	600	(50)	-		-	
Broomball	48	(4)	-		80	(8)
Racquetball - Sgles. & Dbles.	67		7		-	
	<u>5,143</u>		<u>1,439</u>		<u>1,188</u>	

Total participation remained about the same as last year. Among men's sports, wrestling and handball were dropped because of low participation, while ball hockey and broomball were added. Soccer was added to the women's activities, and curling was a new activity on the co-ed schedule.

Summer Term - 1976: The summer program involved thirty teams in three sports--fourteen mixed volleyball teams, four mixed softball teams, eight men's and four women's basketball teams.

Interession Term - 1977: In cooperation with the Recreation Department of the London Public Utilities Commission, an "open" basketball league of fifteen teams was organized (nine men's teams and six women's teams). Approximately one-half of the 170 participants were from outside the university community.

Personnel: Forty-seven students worked on a part-time basis as coordinators, convenors, and referees-in chief of these sport competitions. As usual, their work was excellent in every respect. They, in turn, supervised almost 175 other students who officiated these competitions. Fees paid to these officials totalled \$22,000.

Goals Achieved:

- a. Procedures for the recruitment, selection, and orientation of student part-time personnel were improved.
- b. Questionnaires were used in both the men's and women's activities to obtain participants' evaluation of the administration of each sport.
- c. The point and award systems for women's activities were revised.

Goals Proposed:

- a. To improve the training and supervision of student part-time personnel, particularly convenors and game officials.
- b. To prepare a more effective publicity program, particularly for the fall sports.
- c. To develop a highly competitive league in some sports. This would involve longer schedules, better officials, highly skilled participants, and intense competition. This measure would not be allowed to overshadow or interfere with the fundamental recreational nature of the competitive sports activities.
- d. To conduct a research study to determine present needs, interests and attitudes of participants.

Unique Problems: Space continues to be a major problem. As matters stand, this office is using almost one hundred percent of the space allocated for intramural sports in the University Community Centre, Thames Hall, Alumni Hall, Elborn College, Althouse College and the Thompson Building. The limit has been reached in terms of the number of teams that can be accepted in most sports. Much the same can be said for the outdoor facilities. Softball, soccer, and touch football are all played on inadequate fields.

SPORT CLUBS

Membership:

<u>Club</u>	<u>Membership</u>
Aikido	14
Archery	15
Badminton	135
Cricket	21
Curling	260
Fencing	15
Figure Skating	66
Judo	23
Karate	100 (approx.)
Rifle and Pistol	70
S.C.U.B.A.	155
Ski Club	772
Skydiving	35
Synchronized Swimming	10
Table Tennis	65
Women's Waterpolo	11
	<hr/>
	1,767 (approx.)

The number of clubs remained the same in 1975-76; however, the Fencing Club was added and the Orienteering Club was dissolved in 1976-77. Total membership grew slightly.

Goals Achieved:

- A Sport Club Coordinator was hired to provide club executives with needed leadership. Although this is a part-time and temporary position, it enabled this office to provide better service to the clubs.
- A significant number of Faculty, Staff, and Alumni became members of Sports Clubs. About one hundred joined the Ski Club alone.
- Record keeping was improved drastically as all clubs transferred their financial accounts to the accounting system of the University Students' Council.
- More effective financial planning by club executives with the assistance of the coordinator was achieved. There is room for much more improvement in this area, however.

Goals Proposed:

- a. To provide more administrative assistance to clubs, particularly in the areas of program planning, budgeting and publicity.

EXERCISE REHABILITATION CLINIC

A very limited budget was available for this service with the result that only eighteen patients received treatment. Next year, the service will no longer be provided by this program.

PHYSICAL FITNESS APPRAISAL AND GUIDANCE

Fifty-three persons received individual counselling through this service. For the first time, participants were also given the opportunity to join small group fitness sessions which were intended to be the first step in the development of personal fitness programs. Unfortunately, due to lack of funds, this sub program will be eliminated in 1977-78.

INTERCOLLEGIATE ATHLETICS PROGRAM

R. K. BARNEY, CHAIRMAN

The Program of Intercollegiate Athletics has now completed its fifth year as an integral unit of the Faculty of Physical Education. By any standard of measurement 1976-77 proved to be the finest and most successful year in the long and distinguished history of intercollegiate athletics at Western. Western athletes achieved four national and/or North American championships, as well as twelve OUAA/OWIAA conference titles. There seems to be little doubt that in most cases student/athletes feel positively that the Program's goals are being carried out in a satisfactory manner and that the beacon that lights the path of the mission--the offering of opportunities for Western men and women to participate at a very high level in competitive sport within the framework of carefully defined education goals, strict financial accountability, excellently qualified coaching leadership and reasonably effective administration--continues to glow brightly.

Programs: Western's Intercollegiate Athletic Program once again demonstrated that it is one of Canada's finest in terms of its quantitative and qualitative character. The administration of the program and its coaching directive are based on a sound educational philosophy model, the likes of which are rare in North America. The Program offered a total of 39 sports--21 for men and 18 for women. During the 1976-77 year slightly over 700 men and women student/athletes participated in the Program.

Goals Achieved: The 1976-77 schedule of Program activities was based on a primary budget model of approximately \$428,000. To this figure might be added a supplementary request figure of \$29,000 approved by the Faculty's Executive Committee for: (1) a sport development fund which sent the women's volleyball and basketball teams to Los Angeles and the Maritimes, respectively for accelerated competitions; (2) the covering of tardily announced, but nevertheless, severely increased costs related to activities in the Thompson Building (hockey, curling, track and field); (3) the installation of a cement floor in the new boathouse and comprehensive repairs to the boat trailer; (4) an increase in sports information expenses; (5) improvements in the Thames Hall weight training room; (6) the funding of an annual banquet and an answering service recorder; and (7) the upgrading of the training room availability in the evenings. The entire budgetary expense for the year amounted to \$457,000. The revenue "pie" produced and shared by Intercollegiate Athletics and Physical Recreation Intramurals was considerably smaller than the demands made on it by the two programs, particularly when considering the supplementary requests of the two programs. The balance was drawn from a reserve fund, the total of which was almost obliterated by the end of the year.

The ratio of participation in the Program between men and women continues to remain stable at an approximate 2 to 1 figure in favor of men. Upgraded activities for women in curling, basketball, volleyball, and ice hockey were noted during the year.

Certainly one of the most prominent goals achieved during the year was the individual and collective recognition that Western earned from a regional, national and hemispheric perspective. Western was successful in edging the University of Toronto for the "unofficial" Provincial championship for all sports combined (men and women). Conference championships in OWIAA competition were achieved in volleyball (Coach Fran Wigston), Indoor Track and Field (Coach Bob Vigars), tennis (Coach Candy Stothart), Rowing (Coach Chris Korsienowski), archery (Coach Baljeet Singh), and badminton (Coach Jane Gregory). Conference Championships in OUAA competition were earned in Football (Coach Darwin Semotiuk), Cross-country (Coach Bob Vigars), rowing (Coach Phil Fitz-James), tennis (Coach Dutch Decker), badminton (Coach Dutch Decker), and squash (Coach Jack Fairs). The majority of all Western teams (men's and women's alike) finished in the "top four" places of final league tabulations or experienced solid seasons in respect to goals set at the outset of the year. At the national level of competition (C.I.A.U. & C.W.I.A.U.) the Western football Mustangs added the Vanier Cup to their OUAA Yates Cup achievement. Coach Darwin Semotiuk earned the distinction of C.I.A.U. College Coach of the Year. Further, the Mustang cross-country team under the direction of Coach Bob Vigars won the national championship. The Mustang men's alpine ski team, although failing to annex the OUAA Championship, won the North American Canadian-American (Can-Am) collegiate Alpine Ski Championships held at the Waterville Valley in the White Mountains of New Hampshire. And, the Mustang squash team under the direction of Coach Jack Fairs, won the highly coveted Commander Potter Trophy, a distinction signifying college squash supremacy in North America. Only Harvard, Yale, Penn, Princeton and Williams had ever won the championship previously in the tournament's more than three-decade history. Also, the achievements of both men's and women's crew should be noted, particularly their success at the Vail Regatta in Philadelphia where the women's eight won the title for North America and the lightweight men's eight placed in a photo finish of the finals. Further, Coach Fran Wigston's women's volleyball team made an excellent showing in Los Angeles against the U.S.A. Women's Collegiate Champions (UCLA), losing a close 5 game match.

In addition, Western Coaches continued to earn special distinction from their peers and to provide outstanding leadership in both provincial and national bodies pertinent to their particular sports. Among such distinctions were: (1) the election of Coach Ron Watson to the presidency of the C.I.A.U. College Hockey Coaches Association; (2) Coach Candy Stothart (also Vice-Chairman of Inter-collegiate Athletics) elected as President of the OWIAA and being appointed to the 1977 FISU Games complement as Assistant Chef d'Mission for the Canadian team competing at Sophia, Bulgaria; (3) Glynn Leyshon appointed as head coach of Canada's FISU Games wrestling contingent, and also as head coach of Canada's wrestlers at a special international meet held in Cuba in March; (4) the selection of Keith Stewart as diving coach for Canada's Junior Diving team participating in the international championships at Houston, Texas; and (5) the selection of Bob Vigars by the London Junior Chamber of Commerce as one of the city's five most outstanding young men for 1976.

Not to be overlooked in the way of achievement during the 1976-77 year were the results of the 2nd Annual Mustang Day, planned and developed by Sports Information Officer Clare Dear. The day has proved to be a success in the spectrum of university-community relations. Clare Dear won distinction by winning the BOB GAGE SCHOLARSHIP AWARD for 1976, and was elected as Vice-President of the newly formed Canadian Association of Sports Information Officers.

The administrative core of the Program continues to refine its operational features and the manner in which it carries out its effort. Terry Haggerty as business manager has again proved to be a key person in the Program. His budgeting and scheduling procedures have had a most positive impact on the overall operation of intercollegiate athletics. Candy Stothart, as Vice-Chairman of the Program, has continued to give Western credibility in the regional and national perspective of women's collegiate athletics.

One of the goals towards which the Program worked during the year was a more comprehensive, empirically-based rationale for the distribution of workload commensurate with coaching responsibilities. A lengthy process of data analysis was undertaken by the Chairman, culminating in redefined workload parameters. Although not all members of the Program whose workloads were affected by the study and its final results were happy, the study process and the final apportionments based on the data were generally well received. Certainly the rationale for particular apportionments is now well established.

New Goals: New goals, towards which the Program must arrange some of its priorities in the future are:

- a. Budgetary--There is little doubt that intercollegiate athletics is entering a new phase of operation in its modern history. The era before us signals severely supervised spending and stricter accountability than ever. The so-called "reserve" has been reduced to practically nil. The program no longer has a "well" to go to in time of imagined or real need. In past years the Program has moved ahead at a growth ratio of about 11% annually. The model for 1977-78 is set at \$432,000, reflecting an annual percent (negative) growth rate of approximately -5.5%.
- b. Facilities--The program now seems to have leveled off. Our facilities are close to meeting our needs. Given very careful consideration in any new expansion of our present program (unlikely in view of budgetary circumstances), the Program should be able to make present facilities do. There has been some disruption associated with activities in Alumni Hall (with particular regard to men's basketball) and the Assistant Dean of the Faculty is attempting to get better and more reasonable clarification of priorities from the appropriate University committee. We expect to make headway in this area.
- c. Breadth vs. Quality of Program--It no longer seems that the question of growth is of concern. The Program seems to have leveled off at 39 sports. There does not seem to be the type of increase on the financial horizon that will allow, much less stimulate, growth patterns in terms of sports being added to the already existing complement. But there is every reason to believe that existing sports can continue to offer high quality opportunities to student/athletes such as they have in the past several years. The real mission in focus now is the further sophistication of the management operation of athletics, and this area of responsibility is being industriously pursued by the Business Manager of Athletics.

d. Women's Sports Parity with That of Men--In few other universities in North America do women receive as equal treatment with men than is apparent at Western. Meal allowance, travel conveyance, equipment needs, and accommodation formulas are equally applied to men and women student athletes alike. There is one distinct concern regarding women's sports at Western, however. In a faculty where the women-to-men ratio of faculty members is quite disparate a situation results which finds many of the women's sports staffed by part-time coaches. In most instances, we could not have hoped to get any better part-time people than we now have. But there is little doubt that one of the chief factors inherent in Western's success in athletics on a regional and national basis is the fact that a larger percentage of the coaching staff is full-time physical education faculty than at any other university in Canada. There is no doubt, however, that this Faculty has encountered problems in identifying and appointing a sufficient number of highly qualified women with expertise in various sports coaching. This is an area we must be more sensitive to in the future.

e. Certainly one of the foremost goals in front of the program in a time of financial need such as exists presently is the raising of revenues which undergird the budget base of the Program. We were fortunate in having the University's Board of Governors approve a modest student fee increase for the coming year, and it is thought that somehow student fees should be indexed annually or bi-annually to reflect better the ongoing rate of inflation. But we must also subscribe to the "individual profit motive," i.e., "he who helps himself is best helped," so to speak. With that in mind the Program has increased the price of reserved seat tickets in the football stadium by one dollar per seat. Also, a distressingly noticeable drop in hockey attendance in the Thompson Building occurred this past year. Our statistics tell us that we spent approximately the same amount of money trying to capture the off-campus general public market that we ended up gaining from in that regard. We left the campus market to "providence," feeling that Mustang hockey would largely sell itself to students. Such was not the case. Therefore, our goal for the coming year is to decrease our attention to the off-campus market decidedly and try several schemes to get students into the Thompson Arena for hockey games. Such schemes include moving the games away from the traditional Western "party night" of Friday to (we hope) more reasonable times and dates of Wednesday nights and Saturday afternoons. Basketball attendance, another source of revenue, increased last year over the previous year. Slowly but surely that program is rebuilding its base towards once again being the tremendously popular student-viewing activity it was in the 1960s. Here, too, the student market is crucial. With that in mind the Sports Information Officer has been directed to carry out a strong effort with the Gazette and Western News in order to enlarge sports covering and make our program much more visible to the student. Also, the Program has secured the six-months continual service of an advertising signboard that will feature the announcement of all of our events possible before the full view of students on this campus passing the vicinity of the central mall area between the Weldon Library and the U.C.C.

Problems: The most pressing problem facing intercollegiate athletics is the question of being able to finance its operation in the positive way that it has in the past. We have been fortunate previously in having a healthy (and at times embarrassing) reserve into which to dip in times of emergency or innovation. No longer will the avenue of flexibility in the apportionment of funds be available, so we must live with the model constructed. This means that considering normal inflation we will

do well to stay even with what we are currently doing, let alone grow.

There is a definite problem in terms of our utilization of the Thompson Building. The rates charged Athletics for their time in the building have skyrocketed over the past two years. Inherent with such increases, of course, is the increased cost of operating the building. However, we must now question seriously, for instance, whether we should continue to offer women's ice hockey in our Program when faced with a budget for that sport in excess of \$8,000. Coupling the budget amount with several other factors unrelated to finance leads us to perhaps consider figure skating as a viable alternative. At any rate, little relief seems to be in sight regarding Thompson Building costs to this Program for its sports of hockey, track and field, and curling. Future plans call for less time in the building, and this move has already been undertaken in terms of track and field and, in a more minor way, in men's and women's ice hockey.

A concluding problem seems well on the way towards solution; and that is the disturbing state of affairs in the J.W. Little Stadium for home football games. An alarming increase in assault, altercations, disturbances, and infringements on the enjoyment of the game by spectators in general, the root cause of which is alcohol consumption before and/or during the game, must be halted. In this regard a very carefully designed and implemented campaign was undertaken to gain the support for the prohibition of alcohol in the stadium by various campus groups (student, faculty, administration). The results of the campaign will be implemented shortly with the opening of the home football season in September.

Conclusion: Despite some hardships the Program is in a relatively good state of health. It is sincerely believed by the Chairman, and he has publicly stated so on many occasions, that the overall coaching staff at Western cannot be equalled anywhere in Canada, and perhaps not even in North America. Western's coaches are knowledgeable in the technical aspects of their sports, active in leadership roles for nurturing and developing sport in Canada, and involved in scholarly production related to broadening the body of knowledge of their particular sport or sub-discipline entity within physical education. In effect, Western coaches represent the best overall model after which to pattern the role of intercollegiate athletics in Canadian university perspective.

At the same time it must be argued that Western has consistently demonstrated vigorous leadership among Canadian universities to preserve the high standards and ideals of amateur sport, and in stymieing and negating the forces of economic commercialism that have so eroded the philosophical "thought and practice" of so many intercollegiate athletic programs at North American universities, including many in Canada.

On a concluding note, Intercollegiate Athletics here at Western are financed in large measure by the student body and, hence, the Faculty of Physical Education becomes the trustee of those monies deposited with them in full confidence that the Faculty will provide the very best effort possible in terms of opportunities, leadership, and accountability.

HONORS AND AWARDS

NATIONAL AND INTERNATIONAL OFFICES HELD AND AFFILIATIONS

Barney, R.K.

Elected to Executive Board, North American Society for Sport History: 1975-1977.

Elected to Publication Board, North American Society for Sport History: 1977-

Decker, R.M.

Canadian representative to International Association of Approved Basketball Officials 1965-1977; Executive Committee, 1967-1977; Chairman of Canada-USA Relations Committee, 1974-1977.

Appointed official Interpreter for Canadian Basketball Officials Association 1975-1977.

Appointed by Canadian Amateur Basketball Association as basketball crew-chief of officials for 1976 Olympics at Montreal.

Fairs, John, R.

Junior Development Committee, Canadian Squash Racquets Association.

Regional Executive Committee, Squash Ontario.

Leyshon, G.A.

Air Canada Coach of the Year Award - runner up 1975-1976.

President, Canadian College Wrestling Coaches Association 1975-1976.

Silver Star - awarded by the Federation International de Lutte Amateur, for outstanding service to wrestling - July 1976.

Meier, K.V.

Member of Editorial Review Board of the Journal of the Philosophy of Sport, 1974-1977.

Associate Editor of Journal of the Philosophy of Sport, January 1976 to August 1977.

Semotiuk, D.

Past-Chairman, History of Sport and Physical Activity Committee, Canadian Association for Health, Physical Education and Recreation.

Member, National Working Committee, Canadian Amateur Football Association.

Ontario Amateur Football Association Honor Award for Outstanding Contribution in the Development of Amateur Football in Ontario, May, 1977.

Ontario Sport Achievement Award, Province of Ontario, 1977.

Frank Tindall Award, Canadian Intercollegiate Athletic Union, College Football Coach of the Year, 1976.

Stewart, K.

National Team Coach, Canadian Senior Diving Team, March, 1977,
by Canadian Amateur Diving Association, Inc.

Coach, Canadian Junior Diving Team - 1st Can-Am-Mex Diving Cup,
September, 1976, by Canadian Amateur Diving Association, Inc.

Watson, R.C.

President, Canadian Universities Hockey Coaches Association, 1976-1977.

Yuhasz, M.S.

President, Canadian Association of Sport Sciences, 1977-1978.

Zeigler, E.F.

Chairman, Affiliations Committee, North American Society for Sport
History.

Member, Editorial Review Board, International Journal of Physical
Education, (Gymnasion).

Member, Editorial Review Board, Canadian Journal of the History of
Sport and Physical Education.

Member of following committees of American Academy of Physical
Education: Issues and Problems, International Relations, Program
Advisory.

Faculty of Science

REPORT OF THE DEAN

Professor Andrew E. Scott

Last year I started my report by referring to our space needs, particularly for Biology, and to the ever-pressing problem of maintaining the level of our equipment inventory, both in terms of quality and quantity, to meet the needs of the Science student of 1977.

These difficulties still remain, but we dare to hope that some softening of Government's attitude to capital funding may be in the offing. At any rate we hope so, because the insufficiency and inadequacy of our Biology space is a vexing matter, one which makes constructive planning difficult.

Inflationary pressures continue unabated. Thus the problem of maintaining our equipment and supplies at a sufficiently high level taxes our ingenuity and powers of improvisation to the limit.

Despite these difficulties, however, many positive and worthwhile endeavors have blossomed during the year. Although in a Faculty the size of Science it is impossible to be exhaustive in a report such as this, I shall emphasize some of the highlights and apologize in advance for any obvious omissions.

I. FACULTY ACTIVITIES

Before going into detail, I would like to take this opportunity of welcoming, as a member of the Faculty of Science, Dr. George E. Connell, President and Vice-Chancellor, who assumed office on July 1. A biochemist, Dr. Connell has been appointed a full professor in the Department of Biochemistry. He was formerly Vice-President Research and Planning at the University of Toronto.

(a) Honors and Awards

Dr. R. R. Martin of the Department of Chemistry received the Science Writers Award for excellence in the use of the media for the television program "Irreversible World", which he co-authored with Dr. A. Humphreys and A. Blizzard of McMaster. This award-winning program is in Dimensions in Science, which forms an integral part of Contemporary Science 021 to be offered for credit next year.

(b) Milestones

Dr. W. R. Jarman of the Department of Physics has taken early retirement and officially left the Department

on July 1, 1977. He has been a member of the Department for slightly over 25 years. He plans to continue his research activities in theoretical spectroscopy and to maintain his ties with the Department. We wish him well.

(c) Faculty Notes

Dr. S. C. R. Dennis has been appointed Chairman of the Department of Applied Mathematics for a five-year term effective July 1, 1977.

Dr. I. B. MacNeill has been appointed Director of the newly-formed Statistics and Actuarial Science Group within the Department of Mathematics. Dr. B. L. R. Sawyer assumes the position of Associate Chairman of the Pure Mathematics Group.

Dr. D. F. Gray of the Department of Astronomy served as an official representative for Canada at the International Astronomical Union Meeting in Grenoble, France, and Drs. J. M. Marlborough and W. H. Wehlau were appointed to three-year terms on the NRC Associate Committee for Astronomy and the Canadian Committee for the International Astronomical Union.

Dr. J. M. Bennett of the Department of Computer Science was invited to spend a year at the University of Aarhus, Denmark, to work in his specialist area of operating systems, and Dr. J. K. Mullin of the same Department has been invited to spend a year at the IBM Scientific Research Centre in the U.K. as a Research Fellow.

Dr. A. E. Beck of the Department of Geophysics has been appointed a member of the Canadian National Committee for the International Union of Geodesy and Geophysics and, in the same Department, Dr. C. M. Carmichael has been appointed a member of the Special Statutes Committee of the International Association of Geomagnetism and Aeronomy and Dr. R. F. Mereu has assumed the duties of Secretary-Treasurer of the Canadian Geophysical Union. He is also a member of the Commission on Controlled Source Seismology for the International Union of Geodesy and Geophysics.

Dr. M. L. Locke, has been invited to become a Director of Research for the International Centre for Insect Physiology and Ecology, Nairobi. This appointment, while not affecting his duties as Chairman of the Department of Zoology, will necessitate periodic visits to Nairobi.

(d) Promotions

We congratulate the following:

To Professor

Dr. D. F. Gray, Department of Astronomy
Dr. J. B. Phipps, Department of Plant Sciences

To Associate Professor with Tenure

Dr. S. Caveney, Department of Zoology
Dr. A. K. Dewdney, Department of Computer Science
Dr. S. A. Rankin, Department of Mathematics
Dr. H. Rasmussen, Department of Applied Mathematics
Dr. J. K. E. Tunaley, Department of Physics

To Associate Professor (Tenure previously conferred)

Dr. R. R. Shivers, Department of Zoology

To Associate Professor

Dr. S. Z. Ditor, Department of Mathematics

Conferment of Tenure

Dr. A. A. Bruen, Department of Mathematics

(e) Sabbatical and Study Leaves

The following were on Sabbatical and/or Study Leaves during 1976-77:

Dr. G. H. Beckhoff (Computer Science), Dr. J. B. Florence (Mathematics), Dr. R. W. Hodder (Geology), Dr. P. K. John (Physics), Dr. M. L. Locke (Zoology), Dr. J. W. McGowan (Physics), Dr. L. Mansinha (Geophysics), Dr. P. Milnes (Mathematics), Dr. D. M. Ogilvie (Zoology), Dr. G. S. Rose (Physics), Dr. H. H. Schloessin (Geophysics), Dr. P. J. Sullivan (Applied Mathematics), and Dr. M. M. Zamir (Applied Mathematics).

II THE FACULTY AND DEPARTMENTS

As I have earlier pointed out, it is not possible in a short report such as this to do justice to all the activities of the Departments. The following list is, therefore, far from being exhaustive.

(a) Forward Planning

During the year, the Dean's Advisory Committee on the Mathematical Sciences, under the Chairmanship of Miss A. E. M. Bode, Assistant Dean, presented its final report.

The report suggested no change in the current departmental structures but did recommend a regrouping of statisticians and an examination of first year mathematics courses. As a result of these recommendations, a group has been formed within the Department of Mathematics and named the Statistics and Actuarial Science Group, Dr. Ian B. MacNeill being named Director. A Statistics Laboratory (STATLAB) has also been formed to act as an interface with statisticians in other parts of the University. It is our intention that this laboratory will become a University facility. At the same time, a committee was formed consisting of Dr. S. C. R. Dennis, Chairman of the Department of Applied Mathematics, Dr. David Borwein, Head of the Department of Mathematics, Dr. MacNeill and Miss A. E. M. Bode, to draw up guidelines for the Group and to assume the additional responsibility of considering questions relating to the teaching of first year mathematics.

The other major advisory committee, the Dean's Advisory Committee on the Life Sciences, continues its work under the chairmanship of Dr. Angela M. Wellman, Associate Dean. This Committee is faced with the complicated task of recommending a reorganization of the current biology program. To assist the work of the Committee, an external review of the Life Sciences was carried out during the year. The referees were Dr. Joe L. Key, University of Georgia, Dr. Robert R. Sokal, State University of New York, and Dr. Herbert Stern, formerly of McGill University and currently at the University of California at San Diego, all internationally known biologists.

As a result of this review, the Committee is preparing, with the help of the Departments involved, a blueprint for a greater degree of integration of Biology and is considering suitable academic and administrative structures.

(b) The Visiting Scientists Program

One of the most important and, to my mind, vital activities in our academic calendar, is the constant flow of distinguished visitors to the Faculty and Departments. Of necessity, financial exigencies control the extent to which we are able to carry on this program, but we attempt to maintain it at as high a level as possible. Departments bring numerous speakers throughout the year and the Centre for Chemical Physics has a well defined visitors' program. In addition, there are three prestigious lecture series: The Biology Colloquium, The University Lecturer in Chemistry, and the Elizabeth Laird Lectures of the Department of Physics.

This year the speakers in these lecture series were: Professor Keith R. Porter, University of Colorado, Professor J. A. Morrison, McMaster University, and Professor A. G. W. Cameron, Harvard University.

(c) Department Notes

Applied Mathematics: The Department received an excellent assessment by ACAP, one of the most satisfactory in Ontario. The main recommendation was that the graduate program in Applied Mathematics, which was seen as strong, should continue.

During the year a decision was taken to base the Theoretical Physics Program in the Department of Physics and, as a result, several Departmental members have been offered, and have accepted, cross appointments.

Astronomy: The Canadian Astronomical Society met at the University of Western Ontario on May 25. This was the largest meeting the Society has had. Of about 55 contributed papers, 6 were by faculty and graduate students of this University. The NRC Associate Committee for the International Astronomical Union also met here on May 28.

An expanded program of public relations with the community at large and with high school and public school groups is in the planning stage with cooperation from the London Centre of the Royal Astronomical Society of Canada. The Department already has a vigorous public relations program.

Chemistry: The Department has now settled in to its expanded quarters, the opening of which was announced in last years' report. The new facilities have permitted an increase in the Intersession class size and the technical capabilities have been strengthened by the provision of more efficient and spacious quarters for the workshops.

Four years' experience with the 3 + 1 structure in the undergraduate program has led to changes in the fourth year. These changes are aimed at giving students a greater degree of flexibility of choice.

Several members of the Department were heavily involved in the organization of the First International Conference on the Photochemical Conversion and Storage of Solar Energy, which was held here in August. On a smaller scale, but equally successful, was a Workshop on Electron Spin Resonance held in May 1977.

Computer Science: The Department experienced a rise in the enrollment in introductory courses despite the stable total university enrollment. The honors program of specialization in Computer Science introduced this year is attracting candidates of good quality.

Thanks to special budgetary provisions the Department will be able to augment its computing facility dedicated to introductory teaching to meet the increased demand placed on this valuable resource by the growth in enrollment already commented upon.

The report of the ACAP Mathematical Sciences Discipline Assessment presented during the year, recommended that no new doctoral programs be introduced in Ontario at this time. This is a disappointment and its effect on the total graduate and research activity of the Department must be acknowledged. A recommendation was made in the Planning Assessment that cooperation between the Universities of Guelph, McMaster, Waterloo and Western should be pursued, based upon the existing Waterloo program. This recommendation is currently under examination.

Geology: In general, at the undergraduate level, the situation approximates the steady state; the senior years have been somewhat down while enrollments in years one and two are slightly up. At the graduate level, the steady state situation also prevails. This year about 60 applications for graduate school were received, from which 13 new candidates were selected, all in the range A to B+. At present, employment prospects are very good. All undergraduates wishing summer employment found interesting jobs, while no cases of unemployment are known amongst the graduates. However, the situation in geology is subject to rapid fluctuations and depends very much on incentive for exploration.

Geophysics: During March a one-day workshop on multi-component magnetizations was organized by Dr. H. C. Palmer at which papers were presented by groups from the Universities of Toronto, Windsor and Michigan (Ann Arbor), the University of Western Ontario, and from the Earth Physics Branch of the Department of Energy, Mines and Resources.

Once again, the number of graduands is up, markedly as compared with last year - 2 PH.D., 6 M.Sc., and 3 Honors candidates being successful.

We wish to congratulate Miss Susan Pullan, an honors graduate in the Department, on winning a scholarship to the Australian National University (in addition to an NRC Scholarship which she declined) and the University of Western Ontario Gold Medal for Geophysics after a consistent performance during four years in the program which has not been equalled since the inception of the Department.

Mathematics: I have already commented upon the formation of the Statistics and Actuarial Science Group within the Department, an event of great potential significance designed to facilitate good planning in the future for these important disciplines and to provide a focus for statistical activity on campus.

A new honors program, Mathematics, Computer Science Option, is currently awaiting approval. It is hoped to enroll the first students in September 1978.

The Forty-First Ontario Mathematics Meeting was held at Western in November 1976. Professor F.P.A. Cass was largely responsible for its organization. The invited address was delivered by P. L. Deven of the University of Michigan. There were 19 contributed papers of which 7 emanated from the Department. Also in 1976-77 several continuing seminars were held in the Department including ones on Algebraic Topology, Applied Statistics, Automata and Formal Languages, Banach Algebras, Computational Complexity, Statistical Mechanics and Summability.

Physics: The Department has continued to give high priority to problems of teaching first year classes. We were pleased to observe that all the important requirements of the new Senate rules on first year teaching were already in effect within the Department.

Enrollment in second and third year courses and in the honors program showed a significant increase again last year, and preregistration figures indicate a further increase for the coming year. We would like to believe that these increases are at least partly a result of the Department's efforts to improve undergraduate teaching.

As part of our effort to attract more science students to UWO, Department members were again this year instrumental in the organization of the London and

District Science Fair. We note that the Fair generated considerable interest in the grade schools, but relatively little at the senior high school level. We hope to obtain more response at the high school level through the practice teaching program of the Faculty of Education, and have started discussions with Dean Shapiro and other members of that Faculty to pursue this.

During the second semester the Department operated a laboratory for high school students and teachers one evening per week. An average of three or four students showed up each session, some specifically seeking advice about Grade XIII physics projects, and some just for their own interests. Though the laboratory was advertised through all city high schools, students came mainly from two of them. This suggests that it is important to enlist the support of the high school teachers for such a project. It is too early to reach any conclusion about the effectiveness of this approach in recruiting good students, and we plan to continue this experiment for a minimum of four or five years.

Plant Sciences: Notwithstanding the time and effort spent in planning for the future, the Department maintained its teaching and publication record within the Faculty and participated in hosting the Genetics Society of Canada and the Ontario Ecological Colloquium, and had a very successful year financially.

Zoology: Space remains a critical problem in the Department. There is a desperate need for improved and consolidated space for faculty research and better facilities for maintaining live animals. Space needs have also been commented upon elsewhere in this report.

Research seminars were presented regularly during the year - 21 by faculty and graduate students at the Monday noon-hour seminar period and 17 by visiting scientists.

The Ontario Ecology Colloquium and the Ontario Ethologists' meeting were held here in the spring of 1977 (the former jointly with Plant Sciences).

III RESEARCH ACTIVITIES

Last year I expressed concern about the reduction in funds for research imposed by the Federal Government. Although there has been some restoration, the inflationary pressures still create what is, in effect, a reduction in spending power and the future remains as uncertain as ever. We also await the advent of the new granting agencies in Science with great interest and with, perhaps, some trepidation, although the intention to retain the system of peer review is encouraging.

The Federal Government has made its intentions known regarding the types of research which will receive consideration for funding. Clearly research "in the National interest", which will be favored, refers to research of a mission orientated or more applied type, and grants for curiosity motivated research will become more restricted. This policy suggests that in future a greater emphasis will be placed on interdisciplinary research, since research associated with problem solving normally requires the skills of individuals in different fields of endeavor.

In this segment of the report I shall mention some of the work going on in the Faculty. Once again, this list cannot be exhaustive - greater detail may be found in the individual departmental reports.

An interesting development in the Department of Applied Mathematics is an environmental study initiated by Dr. H. Rasmussen, who has obtained a grant from the Ontario Ministry of the Environment to define boundaries and validate a numerical model used to assess environmental problems common to Hamilton Harbor.

An important aspect of the research and graduate teaching program of the Department of Astronomy lies in cooperation with other Departments. Thus attention is drawn to the work on hydrodynamic and gas dynamic problems of stars being investigated by Marlborough (Astronomy) and Zamir (Applied Mathematics); Infrared Fourier Spectroscopy with Lowe (Physics) and Moorhead, W. H. Wehlau and graduate students in Astronomy; Infrared Heterodyne Detection with Brannen (Physics), Kucerovsky (Engineering) and W. H. Wehlau (Astronomy). Cooperation with Geophysics and with History of Medicine and Science has also taken place.

An NRC Major Equipment Grant was awarded for an echellate grating with Dr. Gray as the principal investigator. This equipment will be used in conjunction with the Digicon Detector, purchased earlier with funds provided by the Ivey Foundation and the Academic Development Fund, and will permit the determination of properties of stellar atmospheres, globular clusters, nebulae, etc.

Although marketplace factors have seriously curtailed graduate enrollment in Chemistry, the level of research activity remains high with the publication record essentially the same as last year. The total research funding of close to \$650,000 is probably second only to that of the Chemistry Department in Edmonton, on the national scene, which has 50% more researchers.

In the Department of Geology, while many traditional lines of research continue, there is also a general trend to respond to the new environmental problems. In this area I would mention:

1. grants to work in the far North of Canada, the general objective being to understand the complete geology of this little known part of Canada,
2. quaternary studies related to glacial phenomena, engineering geology, prospecting under glacial cover,
3. bacterial geochemistry, metal fixing processes via bacteria,
4. surface geochemistry via ESCA studies, developments of new methods of de-pollution with species like mercury, uranium, (in conjunction with the Department of Chemistry),
5. problems in nuclear waste disposal and encapsulation of waste,
6. problems in the geochemistry of tropical soils and fertilizers from such soils; a study based in Brazil. It is hoped to expand this program into problems concerned with regional public health,
- 7. a new interpretation of the formation of Canada's major nickel resources.

The Department of Geophysics continued its vigorous research program in Age Determination and Isotope Studies, Exploration Methods, Geomagnetism and Paleomagnetism, Heat Flow and Seismal Studies. Comprehensive details of these projects are given in the Departmental Report.

In the Department of Physics the overall levels of research funding and research activity remain constant despite the ever increasing difficulty of attracting graduate students and well qualified post doctoral fellows.

The work of Gaily, Holt and Rosner in molecular beam laser resonance spectroscopy has attracted favorable attention and support. Professor Rosner has been invited to give several talks during the past year, and Professor Holt received a sizeable equipment grant from NRC. In addition, the ADF provided a major grant of \$65,000 for new equipment and instrumentation for the system.

With the formation of the new Space Research Coordinating Committee, most members of the Centre for Radio Science have been involved in preparing proposals for a Canadian scientific satellite to be launched in the early 1980's. A decision on funding for the proposals is expected this fall.

Professor Froelich is redirecting his research interest away from problems of microtron design which have occupied his attention for the last few years. He is planning to work on problems in atomic physics, and will collaborate with Professor McGowan on the design of a new merged electron-ion beam apparatus.

The Department of Plant Sciences has had a successful year financially. They were awarded a total of \$224,556 from agencies outside the University for research operations, which is a new high, and received internal awards to the extent of \$179,350 to develop programs in research. The total sum of \$403,906 is noteworthy and is indicative of considerable initiative.

Forty-two graduate students were registered in the Department of Zoology which continues a vigorous program of research. External grant funding amounted to \$251,054 slightly less than the year before but significantly above the amounts obtained in the previous six years.

Research Centres

The three formalized research groupings in the Faculty of Science continue to show good progress. They are the Photochemistry Unit, the Centre for Radio Science and the Centre for Chemical Physics. Since their activities are fully documented elsewhere, I will not elaborate further in this report.

IV CONCLUSION

In conclusion, I wish to record my thanks to the members of the faculty and staff of the Departments of the Faculty of Science for their many contributions made throughout the year. In no small measure the same applies to my Associate and Assistant Deans and to the staff of the Dean's Office. To them, also, goes my grateful acknowledgement.

FACULTY OF SOCIAL SCIENCE

REPORT OF THE DEAN

Dr. B. Kymlicka

1. Enrolment

a) Undergraduate: Tables 1 and 3 provide a statistical overview of the undergraduate enrolment in Social Science from 1973/74 to 1976/77 (for periods before 1973/74 see previous reports). There are a number of points that should be made in connection with enrolment:

i. The relative share of undergraduate enrolment of our Faculty, as a proportion of all undergraduates enrolled in the three central Faculties, has increased from 45 per cent to 46 per cent. Thus, even with the budgetary adjustments that the University wisely made in favor of this Faculty, the burden is not getting any lighter.

ii. The Faculty was able to hold down its growth in total enrolment. But as in previous years, the internal fluctuation in enrolment has continued. The Department of Anthropology attracted 14 per cent in additional students and the Department of Secretarial and Administrative Studies has achieved an impressive growth of 21 per cent. The Department of Sociology has not only arrested, but reversed its previous rapid growth pattern and there was a 16 per cent decline in its enrolment in first-year courses and an 8 per cent decline in the enrolment of its General courses. A less welcome shift has been the drop of almost 19 per cent in the first-year Geography enrolment and a 12 per cent drop in that Department's General courses.

iii. There seems to be a trend towards a balance between enrolments in Honors and General courses. Both types of courses now enrol approximately 30 per cent of the students (as compared to 34 per cent of the students in Honors courses two years ago and 32 per cent last year).

b) Graduate: The total enrolment of graduate students in the Faculty of Social Science has remained about the same. But, as in the undergraduate enrolment, there have been some internal changes. The Department of Geography has attracted 25 per cent more graduate students this year than during the previous year, thus reversing the trend of the previous three years. The Department of Psychology, for the first time in many years, has enrolled almost 13 per cent fewer graduate students (129 as compared to 148 in 1975/76). As a result, there seems to be developing more of a balanced distribution of graduate students in this Faculty—though at the Ph.D. level, the Departments of Economics and Psychology still account for almost three quarters of the total enrolment in this Faculty. The M.A. students are shared almost evenly, ranging from 20 in the Department of Economics to 63 in the Department of History, with the remaining Departments having enrolments in the 40's.

There has been an unusual drop in the number of M.A.'s earned in this Faculty. All Departments but Sociology have experienced this decline. It will be interesting to see whether this drop was an aberration or

TABLE 1

UNDERGRADUATE ENROLMENT IN SOCIAL SCIENCE COURSES
1973/74 - 1976/77

(number of course registrants)

Department		Intramural			Total	Summer School and Extension*
		001-099 Level	General	Honors		
Anthropology	1973	611	-	231.0	842.0	147
	1974	610	24	230.0	864.0	209
	1975	613	-	236.0	849.0	254
	1976	716	-	252.5	968.5	273
Economics	1973	1605	1853	356	3814	201
	1974	1706	1896	440	4042	408
	1975	1691	2014	393	4098	386
	1976	1741	2151	446	4338	334
Geography	1973	430	568	542.0	1540.0	111
	1974	461	592	605.0	1658.0	117
	1975	514	628	743.5	1885.5	165
	1976	417	554	755.5	1726.5	143
History	1973	944	551	1215.5	2710.5	264
	1974	1046	565	1475.5	3086.5	311
	1975	1052	566	1741.5	3359.5	562
	1976	994	649	1608.5	3251.5	536
Political Science	1973	717.0	527	499.0	1743	144
	1974	883.0	490	549.0	1922	266
	1975	780.0	493	643.0	1916	418
	1976	797.5	594	643.5	2035	348
Psychology	1973	2554	1577	1475.5	5606.5	712
	1974	2334	1527	1656.5	5517.5	1115
	1975	2341	1667	1758.0	5766.0	1510
	1976	2463	1777	1794.0	6034.0	1590
Secretarial and Administrative Studies	1973	146	376	-	522	9
	1974	150	366	-	516	13
	1975	131	377	-	508	28
	1976	132	487	-	619	33
Sociology	1973	1810	1899.5	393.5	4103.0	825
	1974	1933	981.0	1526.5	4440.5	1804
	1975	1968	1063.0	1597.0	4628.0	1445
	1976	1655	978.0	1590.5	4223.5	1149
TOTAL	1973*	9224.0	7393.5	5210.0	21827.5	2450
	1974	9123.0	6441.0	6482.5	22046.5	4021
	1975	9090.0	6808.0	7112.0	23010.0	4768
	1976	8915.5	7190.0	7090.5	23196.0	4406

* 1976 excludes intramural London Evening classes.

* The totals for 1973 include Journalism (1893 course registrants).

Information is from DIAS, November 1, 1976.

TABLE 2
GRADUATE ENROLMENT IN SOCIAL SCIENCE 1972/73 TO 1976/77
(number of students)

Department	Master's Degree					Doctor of Philosophy					Total				
	1972/73	1973/74	1974/75	1975/76	1976/77*	1972/73	1973/74	1974/75	1975/76	1976/77	1972/73	1973/74	1974/75	1975/76	1976/77
Economics	19	14	22	31	20	50	40	35	39	50	69	54	57	70	70
Geography	46	36	35	32	43	31	24	22	19	21	77	60	57	51	64
History	42	62	66	63	63	15	11	12	14	16	57	73	78	77	79
Political Science	50	47	51	42	47	10	11	13	20	11	60	58	64	62	58
Psychology	50	51	52	52	42	65	78	82	96	87	115	129	134	148	129
Sociology	26	34	41	40	43	-	-	-	-	-	26	34	41	40	43
TOTAL	233	244	267	260	258	171	164	164	188	185	404	408	431	448	443

*1976/77 information from DIAS

TABLE 3

PERCENTAGE CHANGE IN ENROLMENT* 1973/74, 1974/75, 1975/76, 1976/77

Department	Undergraduate Course Registrants			M.A. Students			Ph.D. Students			All Graduate Students			
	1973/74	1974/75	1975/76	1973/74	1974/75	1975/76	1973/74	1974/75	1975/76	1973/74	1974/75	1975/76	1976/77
Anthropology	5.1	2.6	-1.7	14.1									
Economics	15.1	6.0	1.4	5.9						-21.7	5.6	22.8	0
Geography	-6.3	7.7	13.7	-8.4						-22.1	-5.0	-10.5	25.5
History	3.7	13.9	8.8	-3.2						28.1	6.9	-1.3	2.6
Political Science	-0.4	10.3	-0.3	6.2						-3.3	10.3	-3.1	-6.5
Psychology	2.9	-1.6	4.5	4.6						12.2	3.9	10.4	-12.8
Secretarial and Administrative Studies	1.0	-1.1	-1.6	21.9									
Sociology	15.0	8.2	4.2	-8.7						30.8	20.6	-2.4	7.5
TOTAL	6.3	1.0	4.4	0.8	4.7	9.4	-2.6	-0.8	-4.1	0	14.6	-1.6	3.9

* Weighted enrolments as in Tables 1 and 2

Data is from DIAS, November 1, 1976

TABLE 3A

Graduate Degrees Awarded in Social Science Departments

1973/74 - 1976/77*

(number of degrees awarded)

Department	M.A.				Ph.D.				Total			
	1973/74	1974/75	1975/76	1976/77	1973/74	1974/75	1975/76	1976/77				
Economics	13	20	28	20	3	7	4	4	16	27	32	24
Geography	15	13	16	4	5	5	1	6	20	18	17	10
History	12	16	23	19	1	1	2	2	13	17	25	21
Political Science	12	10	11	7	1	1	1	1	13	11	12	8
Psychology	21	21	34	23	6	11	9	20	27	32	43	43
Sociology	13	21	11	16	-	-	-	-	13	21	11	16
TOTAL	86	101	123	89	16	25	17	33	102	126	140	122

194

* degrees awarded at the fall and spring Convocations of each academic year

The Fall data is from DIAS; the Spring data is from Records.

TABLE 4
CLASS SIZE BY DEPARTMENT AND COURSE LEVEL 1976-77

<u>001-099 Level</u>	<u>Number of Classes*</u>						
	<u>0-10</u>	<u>11-50</u>	<u>51-100</u>	<u>101-150</u>	<u>151-200</u>	<u>201-300</u>	<u>300+</u>
Anthropology		4	6	1			
Economics		4	18				1**
Geography			1	1		1	
History		4	1	6			
Political Science		5	12				
Psychology				1		9	
Secretarial and Administrative Studies		4					
Sociology					1	4	1
	—	—	—	—	—	—	—
TOTAL (INTRODUCTORY)		21	38	9	1	14	2
 <u>100-199 Level</u>							
Anthropology							
Economics		3	28			1	
Geography		7	3	1			
History		9	3	1			
Political Science	2	7	7				
Psychology				1	1		4
Secretarial and Administrative Studies	2	12	4				
Sociology		1	4				2
	—	—	—	—	—	—	—
TOTAL (GENERAL)	4	39	49	3	1	1	6
 <u>200-299 Level</u>							
Anthropology	3	6					
Economics		7	1				
Geography	1	8	4				
History		10	4	1		1	
Political Science	1	11	3				
Psychology	1	31	10				
Secretarial and Administrative Studies							
Sociology		10	16	4			
 <u>300-399 Level</u>							
Anthropology	6	3					
Economics	3	6					
Geography	3	14	1				
History	1	24					
Political Science		9					
Psychology	1	12	2				
Secretarial and Administrative Studies							
Sociology	2	8					

TABLE 4 (Cont'd)

<u>400-499 Level</u>					
Anthropology	4				
Economics		1			
Geography		2	1		
History	9	10			
Political Science	3	1			
Psychology	5	8	1		
Secretarial and Administrative Studies					
Sociology	4	7			
<u>200-400 Level (Summary)</u>					
Anthropology	13	9			
Economics	3	14	1		
Geography	4	24	6		
History	10	44	4	1	1
Political Science	4	21	3		
Psychology	7	51	13		
Secretarial and Administrative Studies					
Sociology	6	25	16	4	
	—	—	—	—	—
TOTAL (HONORS)	47	188	43	5	1

* Class = Full or half course sections (London Evening sections have been collapsed into corresponding regular sections. Extension and correspondence courses are excluded.)

**Although listed separately in the timetable, Economics 020 sections UWAC-UWAZ are actually tutorial sections of one large lecture group.
Economics 020 lecture sections UW/A-UW/7 are listed separately.

Data is summarized from the November 1, 1976 MCU tapes.

whether it indicates some more significant changes. At the Ph.D. level, this Faculty produced more Ph.D.'s last year than ever before.

2. ACAP

Two Departments in this Faculty have been successfully appraised by the ACAP procedure and obtained or retained their Ph.D. programs. A source of great satisfaction was the OCGS approval of the Ph.D. in Social Demography offered by the Department of Sociology. This is a culmination of many years of ardent work on the part of the Department of Sociology and of reliable support on the part of the University, the Faculty of Graduate Studies, and Faculty administration. It is, therefore, appropriate to express our thanks here not only to the demographers and the whole Department of Sociology, but to Professors J. H. Kunkel, D. A. Chambers, G. L. Reuber, and H. B. Stewart for their understanding and support. The Program fills a genuine need in Canada and has nothing but a promising future ahead of it.

The renewal of the Ph.D. in Political Science testifies to the continuing vitality of that Department. We are also confident that the Department of Anthropology will be favorably appraised early next fall and allowed to offer the M.A. the following year.

3. Class Size

This Faculty has made an unceasing effort to improve Faculty-student contact. One aspect of this effort has been directed at reducing the class size of the courses taken by students in this Faculty. Table 4 provides an overview of the current status of class-size distribution. There has been some improvement; i.e., there are fewer very large classes than there were last year and those that remain large are the result of a deliberate experiment (as in the case of Professor J. P. Palmer's project in the Department of Economics) and will be subject to evaluation. Indeed, given certain conditions, it is not at all clear that large classes are pedagogically inappropriate or undesirable in all circumstances.

4. Awards Ceremony for Graduating Students

Prior to Spring Convocation, the outstanding graduates of the Faculty were honored at our annual awards ceremony. At the ceremony, gold medals and other prizes were presented. It was our particular pleasure to have had Mr. J. Allyn Taylor, Chancellor of the University, present the two Chancellor's Prizes to the students with the highest graduating averages in the Honors and the three-year programs. We were also pleased to have a number of distinguished visitors, including Her Worship, Mayor Jane Bigelow, Mr. W. C. P. Baldwin, Chairman of the Board of Governors, and Dr. D. C. Williams, President of the University, in attendance.

TABLE 5

TEACHER RATINGS BY DEPARTMENT*

0 (low) to 5 (high)

Department	All Teachers and Courses Evaluated					
	1975/76			1976/77		
	<u>n</u>	<u>m</u>	<u>σ</u>	<u>n</u>	<u>m</u>	<u>σ</u>
Anthropology	23	3.2	1.20	25	3.4	1.07
Economics	117	3.0	1.15	112	3.1	1.13
Geography	57	3.3	1.19	59	3.3	1.20
History	113	3.5	1.15	117	3.5	1.14
Political Science	53	3.4	1.14	55	3.5	1.17
Psychology	90	3.2	1.11	98	3.1	1.14
Secretarial and Admin. Studies	19	3.7	1.14	34	3.8	1.14
Sociology	67	3.4	1.13	78	3.5	1.15
Faculty**	555	3.3	1.16	593	3.3	1.16

*Question 10: Overall effectiveness

**Faculty includes the Social Science Computing Laboratory and School of Journalism

Notation: n = number of instructor reports
m = simple average of all observations in the Department
σ = standard deviation

TABLE 6

TEACHER RATINGS BY COURSE LEVEL AND DEPARTMENT, 1976/77

0 (low) to 5 (high)

	1-99 Level			General			Honors		
	n	\bar{m}	s	n	\bar{m}	s	n	\bar{m}	s
Anthropology	11	3.4	1.07	-	-	-	14	3.6	1.06
Economics	37	3.2	1.16	50	3.0	1.10	25	3.3	1.06
Geography	6	2.6	1.10	17	3.5	1.16	36	3.5	1.15
History	38	3.3	1.18	19	3.7	1.05	60	3.7	1.04
Political Science	21	3.3	1.19	17	3.5	1.21	17	3.9	.93
Psychology	17	3.1	1.03	10	2.9	1.18	71	3.2	1.19
Secretarial & Administrative Studies	6	4.2	.96	28	3.7	1.16	-	-	-
Sociology	14	3.3	1.24	10	3.5	1.03	54	3.6	1.10
FACULTY	158	3.3	1.16	155	3.2	1.17	280	3.5	1.13

Notation: \bar{m} = simple average of all responses for Question 10.

Other notations as in Table 5.

5. Teaching

Tables 5 and 6 provide a good summary of the results obtained by the survey of students' evaluation of their instructors. There are probably some lessons, as well as statistical correlates, to be observed in this area. For example, there seems to be a trend showing that the best evaluations are obtained by instructors teaching Honors courses followed by those teaching introductory courses. General courses, in the majority of Departments, received the lowest ratings. As always in this area, the lessons one can draw from this trend will depend more or less on one's prejudices than hard evidence. It is, therefore, heartening to report that Professor H. G. Murray of the Department of Psychology has received an Imperial Oil grant to study the characteristics of outstanding University teaching. This Faculty is also pleased with its participation in the University's efforts to aid in instructional development of the faculty. We also appreciate the support the Academic Development Fund has provided for the improvement of the laboratory aspect of teaching the introductory Psychology classes. The grant will provide the Department of Psychology with the finest facilities for such instruction in Canada.

6. Museum of Indian Archaeology

The past year witnessed the revitalization of the Museum as an interpretative and research centre for Ontario archaeology. This was initiated by the appointment of Professor W. D. Finlayson as Director. Additional office and laboratory space had been acquired in Middlesex College to house the research activities of the Museum. In addition, temporary gallery space was acquired in Rooms 128 and 128A in Somerville House. This will be used to display the Wilfrid Jury Collection of Indian Artifacts, the gun collection, the Ibbotson Leonard sword collection, the models of Pioneer scenes, and the Indian Village. A proposal has been prepared to develop this gallery and, to date, the Richard and Jean Ivey Fund has committed \$100,000 for its development. The Museum and this Faculty are grateful to the Richard and Jean Ivey Foundation for its support and it hopes to open this gallery early in 1978 to coincide with the University's Centennial celebrations.

7. Research and Scholarship

The variety and multitude of activities in this area can be best judged by information contained in Appendix A and Supplement II. Both the publication record and the ability to attract outside funding for research are a great source of pride to this Faculty. It should also be pointed out that this aspect of University activities will become even more important as financial pressures increase; for not only is the visible record of scholarship and its financial support necessary to attract and keep graduate students, it is also essential to the very existence of any institution that aspires to academic excellence.

Most of the large, multiple-year grants to members of this Faculty continued throughout 1976/77: the Ford Foundation grant to Drs. E. H. Hanis and

D. H. Flaherty; the Statistics Canada support for the research of Professors T. R. Balakrishnan, G. E. Ebanks, and C. F. Grindstaff; the CIDA's sponsorship of the Ghana Project in association with the Department of Economics; the grant of Professor W. D. Finlayson for the archaeological research at the new international airport in Toronto; the major grants going to members of the Department of Psychology (Professors D. N. Jackson, D. Kimura, J. G. Mogenson, A. U. Paivio, and C. H. Vanderwolf); and the General Motors support for Professor J. R. Melvin's research. New large grants were obtained by Professors C. J. Brainerd, P. G. Jaffe, and D. Kimura in the Department of Psychology; Professor D. H. Flaherty of the Department of History; Professor B. H. Luckman of the Department of Geography; and Professors D. E. W. Laidler, J. M. Parkin, R. S. Boyer, J. C. Leith, J. Whalley, W. Haessel, D. T. Scheffman, J. R. Markusen, M. W. Frankena, and G. W. Davies in the Department of Economics.

It is also a pleasure to note that even in these times of stringent publishing conditions (both financial and academic), our Faculty members continued to publish books as well as articles. Professor D. G. Long's Bentham on Liberty was published by the University of Toronto Press; Professor R. L. Henshel's Reacting to Social Problems by Longman in their Canadian Social Problems Series; Edward Arnold published as a separate monograph one of Professor J. R. Lander's essays under the title Power and Politics in England, 1450-1509; and Professor N. J. Vidmar, together with two other collaborators, is the author of Psychology and the Law, published by Lexington Books.

The Departmental reports are also replete with notices of invited lectures, elections of their Faculty members to offices of their professional associations (a particularly helpful development in view of next year's Learned Societies meeting at Western); and reports prepared for various governmental and nongovernmental bodies.

But I would like to point, with special pride, to the election of Professor M. Zaslow, from the Department of History, to the fellowship of the Canadian Royal Society, the election of Professor F. H. Armstrong to the Presidency of the Ontario Historical Society for 1977/78, and the selection, by the Department of External Affairs, of Professor P. F. Neary as the Canadian Studies Fellow in the U.K.

Looking over the Departmental reports, and comparing these to reports from previous years, one cannot but be struck by the increased scholarly activities—both as apparent in grants obtained and publications—by members of this Faculty. This is one of the most encouraging developments and argues well for the future.

There was also an increase in the number of successful applicants from this Faculty to Canada Council for Sabbatical Leave fellowships. For 1976/77, the following were awarded such support:

Geography

E. M. Bjorklund
R. W. Packer
A. K. Philbrick

History

G. N. Emery
M. Zaslow

Political Science

F. M. Barnard
R. A. Vernon

Psychology

R. C. Gardner
L. S. Prytulak

Sociology

C. L. Boydell
C. F. Grindstaff
R. J. Turner

8. Special Lectures

The second annual Joanne Goodman Lectures, "The Relevance of Canadian History: US and Imperial Perspectives," were delivered by Professor Robin W. Winks of Yale University on January 11, 12, and 13, 1977. These lectures will be published by the Macmillan Company of Canada (last year's lectures, by Colonel Charles P. Stacey, Mackenzie King and the Atlantic Triangle, were already published by the same company). Both the lectures and their publication are generously sponsored by Mr. E. Goodman in honor of his daughter, Joanne, a student at Western who died tragically in a car accident.

The annual Social Science Forum lecture was delivered by Professor C. Safilios-Rothschild, one of the two visiting women professors in this Faculty. Professor M. Ormsby, the well known Canadian Historian, was the other visiting professor.

9. New Chairman

There was only one change in Chairmanship in this Faculty during the past academic year: Professor J. M. Freedman has succeeded Professor D. L. Guemple as the Chairman of the Department of Anthropology. Professor

Guemple was the first Chairman of the Department of Anthropology and it is to him that we owe our thanks for helping to create the kind of Department that the Department of Anthropology is now. We wish him well on his Leave and look forward to welcoming him back from Scotland next year.

10. Faculty Changes

The changes in the Faculty membership are recorded in Supplement I.

I should only like to draw attention, with pride, to the appointment—on Leave of Absence from Western—of Professor J. D. McNiven of the Department of Political Science as the Executive Vice-President of the Atlantic Provinces Economic Council.

The Faculty bade fond farewell to four of its members when they retired at the end of the academic year. We added our best wishes to those from all across the University when President D. C. Williams, also a Professor in the Department of Psychology, retired from his office. It was under his stewardship that this Faculty was founded and, I would like to think, prospered. He has our heartfelt thanks and best wishes. We also contributed to the tributes paid to Professor L. E. Neal, for her long and dedicated services to this University both as a Professor of Psychology and the Dean of Women. Professor E. G. Pleva's retirement came as a surprise to all and there are still many of us who remain to be convinced that he is indeed "retired." There probably is no other geography teacher in the country that had the influence on the teaching of Canadian Geography comparable to that of Professor Pleva. As a scholar, teacher, adviser to governments, and academic administrator, Professor Pleva has few equals. The retirement of Professor G. H. Turner will be regretted not only by members of his Department and this Faculty but by academics across this institution and across Canada. A humanitarian of profound concern for the individual student and Faculty member, Professor Turner served us all as a distinguished member of the CAUT's Academic Freedom and Tenure Committee, and as a prominent member of the Faculty Association. There are very few of his colleagues who have not sought his wise counsel at one time or another or who did not benefit from his advice. The academic profession, and this University, is a better place because of his participation and leadership in our affairs.

Retirements this year, it seems, took a particularly heavy toll. It is, therefore, with pleasure that I wish to thank them all and to congratulate them on their appointment as Professors Emeriti.

I must also record, with regret, the untimely passing of Professor D. G. G. Kerr and to extend our sympathy to his family. Professor Kerr has served this University and this Faculty not only as an eminent scholar and teacher but also as an understanding and clear-sighted administrator. It was during his tenure as the Principal of Middlesex College that many of the Departments of this Faculty laid the foundations for their present status. We shall all miss him.

11. Academic Counselling Service

The four members of this Faculty's Academic Counselling Service—Miss Gail Wright, Chief Counsellor, Mrs. Brenda Innes and Mrs. Jaki Scarcello, Academic Counsellors, and Mrs. Laurie Stiles, Counselling Assistant—have successfully completed their first year in their respective duties. In addition to carrying out the many tasks associated with registering, preregistering, and advising students with efficiency and patience, the Counsellors have, this year, attempted to increase their contact with other relevant offices on campus. Several meetings were held with the Assistant Deans and Academic Counsellors from the Faculties of Arts and Science, staff members from the Counselling and Career Development section of Student Services, and representatives of the Systems and Processing Department of the Office of the Registrar. Increased efforts to publicize programs and courses as well as the acquisition of improved information-retrieval equipment have helped to increase the effectiveness of registration and preregistration. Greater efforts in this direction are planned for the coming year.

12. Some Concerns of the Faculty

In their reports, the Departmental Chairmen commented on a variety of subjects, some of which may be of University-wide interest. Thus, the Department of Economics is concerned about the workings of, and the results from, the Promotion and Tenure decision-making machinery of this University. Basically, the Departmental Promotion and Tenure Committee and the Chairman of the Department of Economics do not agree with the decisions of the Faculty and Senate Promotion and Tenure Committees. This, in itself, would not be too upsetting were it not for the fact that such disagreement shows the classic dilemma of a University-wide (or, for that matter, even Faculty) policies: where is the judgment about professional performance best made: at the Departmental level (i.e., within the "profession") or at the Faculty or University level (i.e., as a result of the need for "equitable treatment" across the institution and/or Faculty)? There may not be any perfect solutions to this dilemma, but it is fair to suggest that any wide discrepancies or frequent disagreements between the various levels of decision-making will not be conducive to very good working conditions and thus to the excellence we expect of our Faculty members.

Some Departments are now undergoing changes—some as a result of developments within their disciplines, some due to changing demands by students (especially graduate students). These changes are essential if the Departments are to remain healthy. Yet, they are difficult to accomplish at times of stringencies. Again, some happy via media will have to be found to accommodate both the desirable flexibility and the need for relative security (if only as expressed in the relative permanence of the rules of the game) that are essential to good academic performance.

On a happier note, I would like to record the festive occasion, on April 22, 1977, when this Faculty paid its tribute to its founder, Professor G. L. Reuber and to his successor, Professor D. A. Chambers, by unveiling their portraits.

I should also like to take this occasion to welcome the new President, Dr. G. E. Connell. We wish him good luck and offer our support in leading this University in its next crucial stage of development.

I: PERSONNEL CHANGES(a) Appointments (July 1, 1976 unless otherwise stated)

<u>Department of Anthropology</u>	J. M. Philibert	Assistant Professor
<u>Department of Economics</u>	E. Clarke	Instructor (September 1, 1977)
	R. M. Conlon	Visiting Assistant Professor (January 1, 1977)
	G. L. Cudmore	Instructor (P.T.) (January 1, 1977)
	K. G. Grant	Instructor (P.T.) (September 1, 1976)
	D. J. Mayston	Visiting Assistant Professor
	J. Piggott	Instructor (P.T.) (September 1, 1976)
	B. F. Reece	Visiting Associate Professor (January 1, 1977 to June 30, 1977)
	C. E. Stuart	Visiting Assistant Professor
	J. Whalley	Associate Professor
<u>Department of Geography</u>	K. B. Cawker	Lecturer
<u>Department of History</u>	B. W. Bowden	Lecturer
	J. Fedorowicz	Lecturer
	B. Ramirez	Lecturer
<u>Department of Political Science</u>	J. McDonough	Lecturer
<u>Department of Psychology</u>	C. J. Brainerd	Professor
	D. P. Cain	Assistant Professor
	C. J. Coates	Visiting Assistant Professor
	R. A. Harshman	Assistant Professor
	A. N. Katz	Lecturer
	W. R. Krane	Lecturer
	S. M. Miller	Assistant Professor
	M. Stein	Lecturer

Appointments (Cont'd)Department of Sociology

R. P. Beaujot
H. Friedmann
E. G. Grabb

Assistant Professor
Lecturer
Assistant Professor

(b) Promotions (July 1, 1976 unless otherwise stated)Department of Anthropology

M. E. Seguin

Assistant Professor
(February 1, 1977)

Department of Economics

M. W. Frankena
M. W. Johnson

N. Raymon

D. T. Scheffman

Associate Professor
Assistant Professor
(October 1, 1976)
Assistant Professor
(May 1, 1977)
Associate Professor

Department of Geography

W. R. Code
R. H. King

Associate Professor
Associate Professor

Department of History

R. S. Alcorn

Assistant Professor
(December 1, 1976)

Department of Political
Science

J. A. Bayer
R. A. Vernon
M. W. Westmacott

Assistant Professor
Associate Professor
Associate Professor
and Chairman

Department of Psychology

A. N. Katz

W. R. Krane

S. M. Miller

S. Pepper
K. Ritter
R. M. Sorrentino
M. Stein

Assistant Professor
(October 1, 1976)
Assistant Professor
(May 1, 1977)
Assistant Professor
(September 1, 1976)
Associate Professor
Assistant Professor
Associate Professor
Assistant Professor
(October 1, 1976)

Department of Secretarial
and Administrative Studies

B. M. Patterson
J. I. Reid
C. A. Sales

Lecturer
Lecturer
Lecturer (P.T.)

Promotions (Cont'd)Department of Sociology

E. G. Grabb

Assistant Professor
(September 1, 1976)

A. M. Propper

Assistant Professor
(September 1, 1976)

H. Friedmann

Assistant Professor
(January 1, 1977)(c) Resignations (June 30, 1977 unless otherwise stated)Department of Anthropology

M. G. Silverman

Associate Professor

Department of Economics

C. S. Clark

Assistant Professor
(October 31, 1976)

E. F. Haites

Assistant Professor

L. S. Osberg

Assistant Professor

Department of Geography

E. G. Pleva

Professor (Retirement)

Department of History

B. Ramirez

Assistant Professor

Department of Political
Science

T. H. Cohn

Assistant Professor

N. Pearson

Professor
(December 31, 1976)Department of Psychology

D. H. Blocher

Professor (P.T.)

S. M. Miller

Assistant Professor

L. E. Neal

Professor (P.T.)
(Retirement)

R. M. Norman

Assistant Professor
(April 30, 1977)

W. Seigel

Assistant Professor
(August 31, 1976)

G. H. Turner

Professor (Retirement)

Department of Sociology

W. P. Archibald

Assistant Professor

H. Friedmann

Assistant Professor

D. C. McKie

Assistant Professor

A. M. Propper

Assistant Professor

J. I. Williams

Associate Professor
(December 31, 1976)

(d) (i) Leaves of Absence (July 1, 1976 to June 30, 1977 unless otherwise stated)Department of Economics

G. Carliner	Assistant Professor
C. S. Clark	Assistant Professor
W. Haessel	Assistant Professor
H. T. Johnson	Associate Professor (January 1, 1977 to June 30, 1977)
J. C. Leith	Associate Professor

Department of Geography

E. M. Bjorklund	Associate Professor
R. W. Packer	Professor
A. K. Philbrick	Professor
W. Warntz	Professor
R. W. White	Visiting Assistant Professor (July 1, 1976 to December 31, 1976)

Department of History

F. H. Armstrong	Professor (January 1, 1977 to June 30, 1977)
G. N. Emery	Assistant Professor
M. Zaslow	Professor

Department of Political
Science

F. M. Barnard	Professor
R. A. Vernon	Associate Professor

Department of Psychology

B. Bucher	Associate Professor (July 1, 1976 to December 31, 1976)
R. C. Gardner	Professor
L. E. Neal	Professor (P.T.)
L. S. Prytulak	Associate Professor

Department of Sociology

C. L. Boydell	Associate Professor (September 1, 1976 to August 31, 1977)
C. F. Grindstaff	Associate Professor (September 1, 1976 to August 31, 1977)
J. H. Kunke1	Professor
J. J. Teevan	Associate Professor (July 1, 1976 to December 31, 1976)
R. J. Turner	Professor

(d) (ii) Returning from Leaves of Absence (July 1, 1976 unless otherwise stated)

<u>Department of Anthropology</u>	W. D. Finlayson	Assistant Professor (P.T.) (June 1, 1976)
<u>Department of Economics</u>	T. J. Courchene J. S. Fried E. Saraydar R. S. Woodward	Professor Associate Professor Associate Professor Assistant Professor
<u>Department of Geography</u>	R. W. Butler D. G. Janelle C. F. J. Whebell	Associate Professor Associate Professor Associate Professor
<u>Department of History</u>	D. H. Flaherty G. Metcalf J. G. Rowe	Associate Professor (June 1, 1976) Associate Professor Professor (P.T.) (August 1, 1976)
<u>Department of Political Science</u>	M. J. Hrabik-Samal T. R. Sansom	Assistant Professor Associate Professor
<u>Department of Psychology</u>	G. J. Mogenson G. B. Rollman	Professor (January 1, 1976) Associate Professor
<u>Department of Secretarial and Administrative Studies</u>	P. F. Davis	Assistant Professor
<u>Department of Sociology</u>	G. E. Ebanks J. W. Rinehart	Associate Professor (September 1, 1976) Associate Professor

II: OUTSIDE RESEARCH FUNDS

This supplement provides information descriptive of the diversity of research interests being pursued by members of this Faculty. The awards listed are those held during the year 1976-77, although some of the grants were awarded earlier.

Department of Anthropology

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
C. A. Creider	Canada Council	\$ 9,068	Linguistic Analysis of Spontaneous Conversation in an African Language
J. M. Freedman	Canada Council	4,907	Production and Reproduction Among the Kiga
M. G. Silverman	Canada Council	7,500	Concepts of Property and Possession Among Gilbertese Speakers in Fiji
M. W. Spence	Richard Ivey Foundation	13,600	Teotihuacan Investigations
	Wenner-Gren Foundation	6,000	Hopewell Silver Analysis

Department of Economics

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
S. M. Ahsan	Canada Council	\$ 2,745	Effects of Fiscal Policy on Saving and Investment Decisions Under Uncertainty
K. B. Bhatia	Canada Council	4,770	Taxation, Capital Gains and Economic Policies
Blomqvist, A. G.	CIDA	107,000	Ghana Project (Director)
	Fraser Institute	4,500	Health Services in Canada
K. H. Burley	Canada Council	3,115	Canada's Overseas Shipping Between 1920 and the Late 1960's

Department of Economics (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
T. J. Courchene	Canada Council	\$ 3,900	Interregional and International Adjustment
	Manpower and Immigration	2,500	Characteristics of Internal Migrants: A Comparative Analysis for Quebec and Ontario
G. W. Davies	Manpower and Immigration	10,000	Macroeconomic Effects of Immigration: Evidence from CANDIDE, TRACE, and RDX2
	Canada Council	9,175	Housing and Land Market Model
	Canada Council	4,822	Effect of Demographic Change on the Canadian Economy
	Canada Council	14,646	An Analysis of the Urban Residential Land and Housing in London, Ontario
M. W. Frankena	Canada Council	4,985	Incidence of Urban Transit Subsidies in Canada
W. Haessel	Statistics Canada	84,546	Factors Underlying the Distribution of Income in Canada
P. W. Howitt	Canada Council	3,575	A Theory of Money and Income
H. T. Johnson	Canada Council	560	Evolution of Management Accounting in a Large-Scale Business
J. R. Melvin	General Motors	100,000	The Impact of Changing Prices of Gasoline on the Automobile Industry
J. P. Palmer	Canada Council	5,763	Public Policy Concerning Intra-Urban Cartage
	OUPID	7,500	Teaching Information Processing System (TIPS)

Department of Economics (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
D. E. W. Laidler R. S. Boyer J. C. Leith J. M. Parkin	Canada Council	\$ 44,046	The Effects of the Foreign Exchange Regime on Output, Inflation and Resource Allocation
D. T. Scheffman M. W. Frankena	Ontario Economic Council	27,000	An Analysis of Provincial Land Use Policy in Ontario
D. T. Scheffman J. R. Markusen	Ontario Economic Council	22,700	An Analysis of Speculation in Urban Land Markets
D. T. Scheffman	Canada Council	3,112	Uncertainty and the Neoclassical Theory of Investment
J. Whalley	Ford Foundation	75,000	A Computational Appraisal of the Economic Impact of Selected Barriers to Trade Among Major World Trading Blocs
	Canada Council	41,010	General Equilibrium Analysis of Taxation Policy
R. J. Wonnacott	Canada Council	5,856	The Economic and Institutional Feasibility of Various Commercial Policy Options for Canada
R. S. Woodward	Canada Council	4,699	The Effectiveness of Canadian Industrial Incentives

Department of Geography

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
R. W. Butler	Scottish Tourist Board, Edinburgh, Scotland	\$ 2,000	The Social and Cultural Impact of Tourism

Department of Geography (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
D. G. Cartwright	Canada Council	\$ 1,607	Ecclesiastical Territorial Organization and French Colonization in Northern Ontario
W. R. Code	Canadian Institute of Public Real Estate Companies	15,500	Planning for the Decentralizing of Offices
	Canadian Association of Geographers	300	Travel Grant to act as the CAG representative and prepare and present a paper to the United Nations Conference on Human Settlements, Vancouver, 1976
M. F. Goodchild	Parks Canada	7,464	Cave Safety Study of Flowerpot Island, Georgian Bay Islands National Park
	Environment Canada	3,000	PLUSX Demonstration Project
	Agriculture Canada	7,700	Geographic Information System
	Academic Development Fund	23,000	Macrogeographic Systems Research Workshop
S. G. Hilts	Federation of Ontario Naturalists Natures Reserves Committee	6,000	Studies of Natural Areas on Manitoulin Island
	Ministry of Natural Resources	2,000	Studies of Natural Areas on Manitoulin Island
	John Labatt Ltd.	1,000	Studies of Natural Areas on Manitoulin Island
	Ministry of the Environment	8,813	Environmental study in Oxford County, under the Experience 76 program

Department of Geography (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
S. G. Hilts	Woodstock Naturalists Society	\$ 100	To support an environmental study in Oxford County under the Experience 76 program
	Government of Canada, Department of Manpower and Immigration	15,680	Study of natural areas in London, Ontario, under the Young Canada Works program
R. H. King,	National Research Council	3,000	Clay Genesis in Soils Derived from Volcanic Ash
	Canada Council	9,197	Use of Pedological Indicators in Archeological Site Analysis
	Department of Indian and Northern Affairs	2,200	Soil Development and Distribution in the Vicinity of Rankin Inlet, N.W.T.
B. H. Luckman	National Research Council	3,000	Glacier and Rock Glacier Relationships, Jasper National Park, Alberta
	National Research Council	27,000	Holocene and Environmental Change in Jasper National Park, Alberta
	Ontario Ministry of the Environment, Experience 77	11,800	Hydrology and Water Chemistry of Storm-Water Run-Off of a Small Basin, Downtown, London
M. J. Troughton	Lands Directorate, Environment Canada	10,073	Study of Determinants of Land Use Conversion in the Rural-Urban Fringe

Department of History

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
J. Fedorowicz	Canada Council	\$ 4,638	The Impact of Polish Commerce on Western Europe in the 16th and 17th Centuries
D. H. Flaherty	Rockefeller Foundation	20,000 (approx.)	Conference at the Bellagio Conference Centre, Lake Como, Italy, on Privacy, Confidentiality, and Research and Statistical Uses of Government Data
	Ford Foundation	147,000	Privacy and Access to Government Microdata for Social Science Research (in conjunction with E. H. Hanis)
J. C. M. Ogelsby	Canada Council	5,985	The Autonomists in Cuba, 1865-1920
D. Pospelovsky	Interuniversity Centre for European Studies	300	The Russian Orthodox Church under Soviet Regime, 1917-1977
	Russian and East European Centre, University of Illinois		Summer Fellowship (accommodation, office and library facilities)
A. Santosuosso	Canada Council	7,540	Mentalities of the End of the Renaissance, 1494-1559
I. K. Steele	Canada Council	9,730	British Atlantic Communications, 1645-1740

Museum of Indian Archaeology

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
W. D. Finlayson	Archaeological Survey of Canada, National Museum of Man	\$121,000	Archaeological Investigations at the New Toronto International Airport
	Canada Council	30,350	Completion of the Draper Site Project

Museum of Indian Archaeology (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
W. D. Finlayson D. Smith	Parks Canada	\$ 15,200	Archaeological Investigations at the Southwold Earthworks
G. Tripp	Archaeological Survey of Canada, National Museum of Man	3,296	Conduct analysis and submit a report on data recovered at the White Site
D. Poulton	Archaeological Survey of Canada, National Museum of Man	15,000	Continuation of the Archaeological Survey at the New International Airport
D. Smith	Ontario Heritage Foundation	7,000	Archaeological Survey in Elgin County

Department of Political Science

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
F. M. Barnard	Canada Council	\$ 8,825	To explore the meaning (or meanings) of the idea of self-realization within the context of the participatory ethic of political democracy
D. G. Long	Canada Council	4,466	To collate, edit and annotate the unpublished "preparatory manuscripts" of the English utilitarian socio-political theorist, Jeremy Bentham (1748-1832) and to publish these manuscripts as one volume in the new (40-volume) <u>Collected Works of Jeremy Bentham</u>
J. N. McDougall	Canada Council	7,219	Fuels and Federal Policy: an analysis of Canadian Trade and transportation policies affecting oil, natural gas and coal from confederation to the present day

Department of Political Science (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
J. D. McNiven	DREE Design Grant	\$ 5,000	Study of internal development factors in Nova Scotia, Ireland and Denmark
R. A. Vernon	Canada Council	4,800	Research on the meaning of "secularization" in French political thought, with special reference to Comte, Proudhon and Tocqueville and their relation to ideas of Natural Law

Department of Psychology

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
D. Baran	Medical Research Council		Asthmogenic Action of Odorants
C. J. Brainerd	National Research Council	\$ 56,000	The Early Growth of Children's Number Concepts
B. Bucher	Canada Council	\$ 7,100	The Development and Maintenance of Accurate Self-Reporting in a Classroom Token Program
	Ontario Mental Health Foundation	3,770	Studies of Variables Effecting Language Generalization, in Laboratories and Applied Settings
P. M. Carlson	Medical Research Council	10,000	Systematic Desensitization and Exposure: An Examination of the Change Process and the Effect of Empathy
	Ministry of Health	8,536	Goal Assessment in Rehabilitation
D. P. Cain	Medical Research Council	19,400	Infrahuman Primate Model of Human Epilepsy (with J. A. Wada)

Department of Psychology (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
J. P. Denny	Indian Affairs and Northern Development	\$ 2,145	Semantic Analysis and Eskimo Language Curriculum Materials
	Oneida Band Council	3,000	Curriculum Development for Teaching the Oneida Language in Junior Elementary School
R. C. Gardner	Department of the Secretary of State	40,000	Attitudes and Motivation in Learning French
R. A. Harshman	National Research Council	1,089	Methods of Analyzing Three-Way and Asymmetrical Data Matrices
N. K. Innis	National Research Council	3,000	Temporal Organization of Behaviour
D. N. Jackson	Canada Council	80,000	Personality, Person Perception and Inferential Accuracy
D. N. Jackson	Ministry of Education	7,380	Student Guidance Information Service/Jackson Vocational Interest Survey Interface Study
	Ontario Ministry of Health	3,400	Demonstration Model Grant 210 - Evaluation of a Revised Undergraduate Medical Curriculum (Subcontract Continuation)
P. G. Jaffe	Solicitor General Canada	120,000	Police Crisis Intervention Counselling: The Prevention of Family Strife and Delinquency
S. B. Kendall	National Research Council	18,000	Informational Processes in Animals
D. Kimura	Medical Research Council	54,000	Studies of Motor Sequencing in Aphasia

Department of Psychology (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
D. Kimura	National Research Council	\$ 69,000	Functional Asymmetry of the Brain in Perception
D. T. Miller	Canada Council	12,900	The Role of Justice Motivation in Helping Behavior
G. J. Mogenson	Medical Research Council	33,000	The Role of the Nervous and Endocrine Systems in the Control of Behavior
	National Research Council	31,000	Neural Mechanisms of Motivated and Emotional Behaviors
H. G. Murray	Imperial Oil Limited	5,200	Characteristics of Outstanding University Teachers
R. W. J. Neufeld	Medical Research Council	36,520	Parameters of Cognitive Abnormalities in Schizophrenic Deficit
R. W. J. Neufeld	Canada Council	13,166	Cognitive Mechanisms in Stress Response
A. U. Paivio	National Research Council	41,084	Symbolic Processes in Memory and Perception
D. R. Pederson	Canada Council	8,270	The Influence of Play on Children's Creativity
Z. W. Pylyshyn	National Research Council	8,200	Cognitive Representation of Spatial Relations
	National Research Council	19,000	Models of Qualitative Reasoning in Geometry
D. C. Reberg	National Research Council	6,000	Interactions of Associative Processes in Conditioning
K. Ritter	Canada Council	6,773	The Development of Deliberate Memory Behaviors

Department of Psychology (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
W. A. Roberts	National Research Council	\$ 12,900	Studies of Memory in Animals
G. B. Rollman	National Research Council	15,000	Psychophysical Studies of Touch Mechanisms
A. B. Scheid	Canada Council	9,400	Parental Influence on Offspring Vocational Development: An Expansion of Holland's Theory
M. M. Schnore	Imperial Oil Ltd.	6,000	A Study of Determinants of Attitudes Toward Retirement
	National Health Research and Development Program	1,250	Research and travel allowance for research with J. J. Cyr
R. M. Sorrentino	Canada Council	16,658	Theory of Achievement Motivation and Group Processes
I. Spence	National Research Council		The Analysis of Similarity Data
G. L. Stone	Canada Council	\$ 5,100	Parameters of Modeling and Instructional Effectiveness
C. H. Vanderwolf	National Research Council	43,360	Hippocampal and Neocortical Electrical Activity in Relation to Behavior
N. J. Vidmar	Canada Council	10,000	Conflict and Justice
	Russell Sage Foundation	21,111	Research grant for source book on law and psychology (with W. Loh, University of Washington)
M. J. Wright	Ontario Ministry of Community and Social Services and Health and Welfare Canada		The Effects of Preschool Experience on the Adaptive Ability of Economically Disadvantaged and Advantaged Preschoolers

Department of Psychology (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
M. J. Wright	Ontario Ministry of Community and Social Services and Health and Welfare Canada		A Follow-Up Study of Graduates of the Laboratory Preschool

Department of Secretarial and Administrative Studies

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
I. P. Suttie	Ministry of Colleges and Universities	\$ 3,700	Administrative Studies in a Bicultural Milieu
	Ministry of Colleges and Universities	600	A Bilingual Secretarial and Administrative Training Exchange Program and A Student Education/Work Exchange Program
	Ontario Universities Program for Instructional Development	6,000	Teaching and Program Analysis in Secretarial and Administrative Studies
I. P. Suttie	Academic Development Fund	10,000	Court Reporting and Computer Assisted Transcription

Department of Sociology

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
W. P. Archibald	Canada Council	\$ 5,042	Alienation from Work
T. R. Balakrishnan G. E. Ebanks G. F. Grindstaff	Statistics Canada	128,000	Trends and Patterns of Fertility in Canada
J. W. Rinehart	Canada Council	3,500	Conference grant: Blue Collar Conference
B. D. Singer	Department of Indian and Northern Affairs	10,000	Analysis of Minority Groups' Images in Mass Media

Department of Sociology (Cont'd)

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
B. D. Singer	Royal Commission on Violence in the Communications Industry	\$ 17,000	
P. C. Whitehead	Addiction Research Foundation	2,000	Alcohol Related Damage

Social Science Computing Laboratory

<u>Grantee</u>	<u>Grantor</u>	<u>Amount</u>	<u>Title</u>
E. H. Hanis	The Richard Ivey Foundation	\$100,000	Equipment grant for support of Selected Areas of Computer Based Social Science Research
E. H. Hanis (jointly with D. H. Flaherty)	Ford Foundation	147,000	Privacy and Access to Government Microdata for Social Science Research

Brescia College

Report of the Principal

Sr. Frances Ryan

Brescia College began the 1976-77 academic year with the highest enrolment in its history. While the number of students is not impressive in terms of the University as a whole, it is a reassurance for all involved that "the Brescia alternative" is a viable service to students and to the academic community. The Senior Citizen Program also continued to flourish.

In keeping with Brescia's philosophy of promoting maximum student-faculty interaction, the College completed a small building project which provided additional Faculty office space and Seminar rooms. These new facilities were opened during Christmas break and were formally blessed by His Excellency, Bishop G. Emmet Carter on March 10th. Another small building project involved the erection of a four story stairwell on the south end of the main building to provide for greater efficiency of exit in case of emergencies.

Faculty had a busy and productive year. In October Dr. Patricia Giovannetti and Miss Mary McInnis of the Home Economics Department attended the World Culinary Arts Olympics in Frankfurt, Germany. In November, Dr. Patricia Skidmore of the History Department, spoke at a "Research on Women" Conference at Mt. St. Vincent, in Halifax, on the topic of "Sex and Song". Miss Rosemary Polegato addressed a session of the Apparel Studies Association during the Learned Societies Meeting in Fredericton, on the "Use of Fashion Information Sources". Dr. Dawn Palin presented a paper to the joint meeting of the American Institute of Nutrition, the American Society for Clinical Nutrition and the Nutrition Society of Canada, at Michigan State University. Dr. Palin also coordinated nutrition courses for U.W.O.'s Charley Brown University. Miss Olive Moase, of the Home Economics Department, spoke to the University Women's Club in January and appeared on CFPL-TV's "Morning Break" in February. She also acted as the local organizer for "Canada Food Week".

Dr. P. Giovannetti, Chairman of the Home Economics Department, continued to serve as Chairman of the Admissions Committee of the Canadian Dietetic Association and also as Chairman of the Program Committee of the Nutrition Society of Canada. She also represented the dietetic profession on the Ontario Council of University Health Sciences.

Once again, this year, several students participated in the second phase of a human metabolic study being conducted by Dr. P. Giovannetti in collaboration with Dr. K. Carroll and Dr. B. Wolfe of Western. The study, funded by the Ontario Heart Foundation, is investigating "The Effect of Type of Dietary Protein on Human Plasma Cholesterol Levels". An interim report on the study is pending.

Dr. Lynne DiStefano was the recipient of an Explorations Program grant to study "The Architecture of George F. Durand" in collaboration with John Lutman of the London History Centre and Ian MacEachern, photographer.

In late December, Sr. Frances Ryan was elected Superior General of the Ursulines of the Chatham Union, for a four-year term beginning in July. At the end of January, Brescia announced the appointment of Sr. Dolores Kuntz to the Office of Principal and Dean, commencing June 1, 1977. Sr. Dolores has been on the Brescia Faculty for many years and has been serving for the past several years as Chairman of Social Sciences. She is a licensed Psychologist and holds a Doctoral degree from Queen's University. The appointment was a very popular one with the whole of the Brescia community who look forward to a continuing happy association with a well-known and highly respected colleague, teacher and friend.

In May, Brescia had the privilege of welcoming Dr. D.C. Williams, retiring President of U.W.O., as speaker at the annual Baccalaureate Service in St. Peter's Cathedral. In his usual gracious fashion, he offered to the Brescia Graduates and their families and friends, some of the fruits of wisdom garnered during his "lively decade" at Western. He also kindly paid tribute to the role of the Affiliated Colleges. Western has indeed been blessed these past ten years with the presence of Dr. and Mrs. Williams. They have brought to the University a combination of wit, wisdom and grace that successive decades will find difficult to match. The President was thanked by His Excellency, Bishop John Sherlock, Auxiliary Bishop of London, who also gave the Final Blessing to the Assembly. It was a very happy occasion for all concerned.

In late May, at Alumnae College weekend, Brescia was very pleased to welcome Western's own Dr. James Reaney, who coordinated the Workshop on "The Arts in Canada". He delighted the group with the energetic and enthusiastic approach which has made him such an outstanding figure in drama and the arts in Canada.

At the Spring meeting of the College Advisory board, Mrs. Patricia Pettigrew, a distinguished Brescia Alumna, was elected Chairman for the 1977-78 academic year. She succeeds Mr. Vern Bayley who has served more than generously in that capacity and indeed in many different positions on the Board over the past several years. Brescia is most grateful to all the members of its Advisory Board who consistently give so unsparingly of their time and talents for the benefit of the College.

Finally, Brescia once again acknowledges with gratitude the continuing happy situation of cooperation and friendly exchange which prevails among the Affiliates and with our Parent University. This atmosphere could not exist without the whole-hearted support of all the members of this outstanding scholarly community in which we are privileged to participate.

On a more personal note, my brief three years as Principal of Brescia have been a challenging and interesting period. I've enjoyed the closer association with different branches of the University community which the position necessarily entails. I am particularly grateful to Dr. Williams, from whom I have learned a great deal and whose friendship I shall cherish; to Dr. John Morden of Huron College, who has been a wise and friendly councillor on so many occasions and

to Dr. Jack Morgan of King's College who epitomizes the cheerful and generous cooperation that exists in the close working relationship of the Catholic Colleges. I must also express my deep gratitude to all the members of the Brescia Community, Sisters, Faculty, Alumnae and Students from whom I have always enjoyed the greatest warmth and cooperation. It has been a stimulating and rewarding experience. Brescia is more an ideal than an institution and, as such, it thrives on the kind of personal relationships that flourish here. I shall look forward happily to my return. Thank you all.

Sr. Frances.

HURON COLLEGEReport of the Principal, July 1/76-June 30/77The Venerable John Grant Morden

In September 1976 Huron College's former Dean of Theology, Dr. G.H. Parke-Taylor, was consecrated bishop in the Church of God to serve as a Suffragan Bishop in the Diocese of Huron. Huron College was pleased to have the privilege of conferring upon Bishop Parke-Taylor the degree of Doctor of Divinity honoris causa at the Huron College Theological Section of the Spring Convocation on Thursday, April 28th, 1977.

The Executive Board of Huron College has been pleased to appoint The Reverend Professor Donald Irvine to be Dean of the Faculty of Theology of Huron College effective 1st July 1977. Professor Irvine is a graduate in Arts of this University and a graduate of Huron College's Faculty of Theology. He has been teaching at Huron College since 1968. He is well-known by his students as a stimulating and insightful teacher. His warm and sensitive nature, his sense of humor and his awareness of the spiritual tensions of our time, all blend into his particular style of leadership. Professor Irvine is well-known in the Diocese of Huron for the leadership he has given at Clergy Conferences and for his preaching ability. This appointment has been warmly welcomed by the teaching faculty and by the Alumni of the College.

On Thursday, December 2nd, 1976 Huron College held it's Founder's Day dinner in honor of Mr. J. Allyn Taylor, the new Chancellor of the University of Western Ontario and to Mr. W.C.P. Baldwin, the Chairman of the Board of Governors of the University. Both Mr. Taylor and Mr. Baldwin had been former members of the Executive Board of Huron College. Huron College was delighted to welcome these two great leaders of our community and to have had this opportunity to express to them our appreciation for all that they have done in the past and all that they are doing in the present for both Huron College and for the University. The college was also pleased to have present at the Founder's Day dinner, Dr. Helen Rossiter who unveiled the memorial of reference books to be placed in the Huron College Library in memory of her late husband, Dr. Roger Rossiter, one time Provost and Vice-President Academic of this University and a long time friend of Huron College.

This year's Robinson T. Orr Visitor to Huron College was the Most Reverend Edward Walter Scott, D.D., D.C.L., the Primate of the Anglican Church of Canada. He gave the public lecture on Wednesday, 2nd February, 1977 in the Kingsmill Common Room of Huron College. His topic was "Theological Trends in the Late 70's—Why and Whither?". Following his splendid lecture, Archbishop Scott dealt with questions from the audience. He spent the following day with the students in the Faculty of Theology entering into dialogue with them concerning his work as Primate of the Anglican Church of Canada and his work as moderator of the Central Committee of the World Council of Churches.

Huron College pays tribute to Dr. Robert Brandeis, the Chief Librarian of Huron College, who will be retiring on June 30th to assume the post of Chief Librarian of Victoria University, Toronto, Ontario. Huron College is most grateful to Dr. Brandeis for the way he has re-organized the Huron College Library during his term of office. This summer the college will install a new protective system to protect our growing library collection that now numbers over 100,000 volumes. The new system will help cut the loss from volumes taken out without being checked through the service desk.

The Executive Board of Huron College has approved the building of a new wing between the Student Activity Centre and the present Classroom Wing. This new wing is to house five faculty offices. It will also contain one large air-conditioned classroom that will act as a meeting room for the faculty, as well as for the Debating Club and Drama Society of the Huron College Student Council. This wing will be financed in part from the Benjamin Appleyard Bequest and in part from the Dr. A.B. Macallum Bequest. A special memorial to Mrs. A.B. Macallum is to be established in the Huron College Library. On Thursday January 20th, The Right Reverend Harold Appleyard and Mr. Ian Graham, President of H.C.S.C., unveiled the plaque and opened the Benjamin Appleyard Room that had been refurnished as a joint project between the Huron College Student Council and funds made available through the Benjamin Appleyard Bequest.

The Huron College Theological Section of the 222nd Spring Convocation of the University of Western Ontario conferred the Degree of Doctor of Divinity on The Reverend Canon Sehon Sylvester Goodridge, B.D., Principal of Codrington College, Barbados. Canon Goodridge addressed the Convocation setting forth the changing political tides in the West Indies and the possible Christian approaches to the problems to be wrestled with in these changing decades. At this Convocation the Chancellor of the University conferred the Master of Divinity Degree on ten candidates. One of these was Lt. Colonel J.C. Eacott of the Salvation Army who was in his 78th year. Also at this Convocation the degree of Bachelor of Ministry was conferred upon four candidates, two were priests from the Church in Uganda, one was from the Barbados and one, The Reverend D.J. Lawton, was a candidate for the Diocese of the Yukon here in Canada.

The Faculty of Arts and Social Science of Huron College was led this year by Acting Dean, Dr. George Black while Professor Burd was on a year's Administrative Leave. The registration in that faculty was at an all-time high of 587 students. Huron College is grateful to Dr. Black for his leadership.

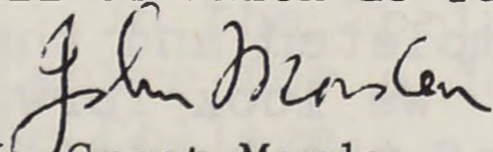
Huron College expresses its appreciation to Mr. K.W. Lemon, who retires this year as Chairman of the Executive Board of the College. His guidance as Chairman and his sage advice as financial counsellor has helped Huron College become what it is today. Huron College also expresses its appreciation to the other retiring members of the Executive Board, Mr. C.F. Brown, Mr. F.P. Leahy, Archdeacon Robert Townshend and Mr. D.G. Wallace. The Corporation of Huron College has appointed four new members to replace those retiring, three of the new members are graduates of this college. The new members of the Executive Board are: The Reverend Canon T.E. Finlay, Mrs. Mary Thomson, Keith L. Sumner, Esq., B.Comm., and Mr. Andrew Wright, Esq., B.A..

On Saturday, May 14th, Huron College held its annual Arts Conference with Dr. F.W. Blissett of the University of Toronto, the former Chairman of the Department of English of Huron College, speaking on the life and works of "David Jones". On the night before, the Huron College Alumni held a dinner at The Old Mill in the City of Toronto that brought together over 200 graduates of this college. Huron College expresses its gratitude to the former members of its faculty, as well as to all its graduates, for their continuing loyalty and support of this college and its objectives.

In closing this report, Huron College wishes to pay a special tribute to Dr. D. Carlton Williams, the retiring President and Vice-Chancellor of this University. We are grateful to him for the way that he steered us through the turbulent waters of the 1960's and through the financial shallows of the early 1970's. His unfailing good humor and his sage advice, as well as his willingness to give of his time unstintingly to all parts of this university community, has led Dr. Williams not only to be considered a fine President but also a very personal friend to so many of us. The academic community of Huron College were delighted to learn that he has agreed to become a lifetime honorary fellow of Huron College at the Founder's Day dinner on December 2nd, 1977.

Finally I would wish to pay tribute to all the offices of the University, to the members of the Senate and the Board of Governors, to the Provost, the Deans of other faculties and colleges, and all who have supported us and added so much to our academic life. Once again we assure the University of Western Ontario of our support and loyalty in all that she undertakes. We will as an academic community attempt to pay our debt of gratitude to the University in its centennial year by continuing to strive for excellence and by sharing, to the best of our ability, in all that builds for the second century of this University's witness and service. We do assure Dr. G.E. Connell, the incoming President and Vice-Chancellor, the same cooperation and loyalty that we have always tried to give to his predecessors in office.

All of which is respectfully submitted,



J. Grant Morden
Principal.

KING'S COLLEGE
Report of the Principal
Dr. J. D. Morgan

The academic year began with an extreme surprise. Our anticipated 850 students turned out to be 1,006. We had accepted our basic number of freshmen with the understanding that perhaps only 90 percent of them would in fact arrive at our doors; all of them managed to make it. Again, having looked at the pre-registration forms of our upperclass, we assumed that not all would return to the College, but in fact a greater number did than we had expected. Whether the high number of students is a sign of the economic problems of employment or whether the baby boom peak hit us harder than anticipated, we don't know. We, of course, would like to believe that the sudden increase in students reflects the concern we have for our students and for quality education.

With the sudden death of Dr. Geza de Rohan and the resignation of one or two professors during the summer, our anticipated rise in faculty to 38 did not materialize; the faculty stayed at 34 constant with the prior academic year. However, we were able to employ enough part-time faculty that the increase in students affected us only modestly.

A greater number of students did not have a particular effect on our space problems as might have been expected due to the fact that we had taken over five classrooms, a seminar room, a lounge, and eleven offices in a large portable on the Silverwood property. Negotiations with the university for the purchase of the main building and some of the outlining buildings on the Silverwood property were completed and the transfer of ownership took place on July 1, 1977. We look forward to the day when we take over actual occupancy of the building and now are in the process of employing a consultant who will give us a master plan for use of our space and recommendations for any further space that we might need.

The Planning Committee of Academic Council was particularly active this year, serving as a budget committee as well as a Planning Committee. In addition to its budget role, the Planning Committee set for itself a two-fold task, namely, the enunciation of a philosophy of education for King's College and, secondly, the description of our present space needs. Both roles were started and continued admirably and reports will be presented to Academic Council on these matters in September.

The Constitution for Academic Council was drafted during the summer of 1976 and approved by Academic Council in the Fall of 1976. The Board of Directors of the College approved it in the winter of 1977, thus formalizing the role of academic policy making that the Council had been exercising informally over the years. Dr. A. Koop was chairman of Academic Council during 1976-1977.

The Conditions of Appointment document was revised, implementing for the first time a sabbatical leave policy for the College. The first professors to go on sabbatical leave will do so during the 1977-1978 academic year.

Dr. John D. Morgan was appointed Interim Principal of the College while a Search Committee reviewed candidacies for a permanent appointment. Dr. Morgan was appointed Principal of the College in February; the appointment became effective immediately. The Board of Directors re-affirmed that the role of Principal and the role of Dean are two separate roles and a search committee will be established in September to look for a new academic Dean.

Mr. David McMillan was President of Students' Council. Under his leadership and that of Mr. Mike Capotosto, the Social Convenor, the Council had a very effective and enjoyable year.

The Chapel of the College was completed just prior to the opening of the academic year. The renovations included a merging of old and new forms of liturgical settings.

Dr. T. Sheffield of the Ontario Institute for Studies in Education gave a workshop in September to the faculty of King's, Huron and Brescia Colleges, dealing with teaching methodology. It was a highly successful day. In the Spring the faculty gathered at the Holy Cross Retreat Centre for a day workshop concerning the future orientation of the College.

Our major speaker of the year was Dr. Robert Bellah of the University of California who spoke on "Social Science in Human Transformation", and was followed by a lecture by Mr. Douglas Roche in December.

Mr. Paul Webb continued to work with Alumni Affairs. A constitution was written for the Alumni Association and the first executive was elected. Under the direction of Mr. Webb, a newsletter The Kingsmen has been published several times.

Mr. T. C. Boone was re-elected Chairman of the Board and, with the other members of the Board, continued to work tirelessly for the College.

The faculty continue to be active in their various disciplines giving papers to learned societies, engaging in television discussions, participating in community and political projects, serving as consultants for military, governmental and private agencies.

Again, we wish to thank the constituent university and the other affiliated colleges for their kind support. We are continually impressed with the extent of co-operation at the University of Western Ontario.

University of Western Ontario

UNIVERSITY LIBRARY SYSTEM

Report of the Director of Libraries
and Chief Librarian

PROFESSOR R.E. LEE

During 1976-77 a number of our earlier plans were implemented, special projects were completed, studies were initiated, and constructive steps were taken to deal with several critical and continuing problems.

We moved forward in the achievement of a number of our goals. Progress was made in improving serials services throughout the Library System, and in strengthening the Government Publications Collection; electronic security systems were installed in two additional libraries; and planning was undertaken to determine the desirability of more extensive use of microforms for storing library materials and maintaining library files.

Considerable time was spent in planning, based on the belief that library service can be improved by determining what needs to be done and developing effective ways of bringing it about. We cannot, of course, be certain about the future, but we can be reasonably sure of what the possibilities are; for example, we do not wait to see what will happen before planning what to do about it. Instead, our approach has been to decide what to do and how to do it before action is required; thus we can detect deviations from the expected and respond to them effectively. The planning effort, therefore, has been intensified in order to provide the means for confronting the future directly and realistically.

I would like to express my appreciation to the library staff for their many contributions during the past year, for their flexibility and resilience to changing conditions, and for all of their efforts in providing improved services to the University community.

Two major concerns during the year were: the impact of spiralling inflation on all areas of the Library System's operation (especially the rising cost of all types of library materials, and particularly periodical subscriptions, combined with the unfavourable currency exchange rate); and the pressing need for additional space to adequately house the growing collections.

LIBRARY SPACE REQUIREMENTS

Although library space requirements have been described in previous annual reports, the following is a brief summary of the present status of the problem: three libraries (Education, Engineering and Music) are severely overcrowded. The Research Depository Library, an on-campus facility to house the overflow of less-frequently used materials from the eight libraries, will be filled to capacity within the next two years.

A number of approaches have been taken to resolve the problem.

A long-range plan for the provision of additional library space was approved in principle by the University Library Council, the Senate Committee on University Development, and the University Senate. This plan, which involved considerable study and discussion over a two year period, is the most realistic solution in terms of, first, providing space needed at the least cost, and, second, reducing operating costs. The implementation of this plan is contingent, however, upon securing capital funding. Since no significant addition of space is likely to be provided until sometime in the 1980's, a number of steps have been taken to make the best use of our existing space.

Since 1972, the Library System has been engaged in a systematic program for the selective development of collections. Only those materials which clearly support the instructional and research programs of the University are acquired and processed. The program has resulted in existing space being filled as slowly and as carefully as possible. With severe overcrowding, other approaches have been taken to conserve and extend the use of existing space: additional shelving has been installed in those libraries where space was available; microform materials are acquired in lieu of hard copy whenever it is possible and practical in terms of usage; unnecessary duplicate periodicals titles have been cancelled; and current periodical subscriptions are being reviewed on a continuing basis. The next step is to weed the collections.

Guidelines for weeding the collections were approved as policy by the University Library Council on November 5, 1976, and by the Senate Committee on University Planning on April 27, 1977. This policy is directed toward transferring infrequently used materials from prime library space to the Research Depository Library, disposing of unneeded duplicate materials, and discarding mutilated and damaged materials.

Since the library collections have never been thoroughly reviewed, from the point of view of withdrawing obsolete and unsupportive materials, it is anticipated that some existing space can be cleared. This will make room for new and much needed material until space can be made available by additions to The D.B. Weldon and the Natural Sciences Libraries.

On May 11 and 12, 1977, the members of the Executive Committee of the Library System met to formulate recommendations for additional means to conserve existing shelving space.

Short-term measures have been taken, and will be continued, to make the best possible use of our existing space. It must be realized, however, that these are only stop-gap measures. A commitment to acquire new materials to support the University's programs requires an equally strong commitment to the provision of additional space to house the materials.

GROWTH AND DEVELOPMENT OF THE COLLECTIONS

The collections of the Library System continued to grow during the past year at approximately the same rate as in previous years despite rising

prices for library materials. A number of significant acquisitions were made, particularly from the point of view of graduate study and research. Relationships with major agents and suppliers ranged from good to excellent with a few changes being required. During the year, it became even more apparent that the basic difficulties in maintaining an adequate input of new materials will become more acute in the future.

Major Acquisitions. During 1976-77, several significant acquisitions were made, including local and national Canadian newspapers on microfilm. The most important was the The Leader-Post (1883-1950), published in Regina, which provides new research strength on the history of Western Canada. Funds available from the Hannah Institute made possible the acquisition of approximately 800 titles on the history of medicine and related sciences, many of them rare and out-of-print items. Several of these were purchased at auction in January, 1977, when an important body of material from the library of The Academy of Medicine of Brooklyn was put up for public sale. In April, 1977, a commitment was made to acquire The James Joyce Archive which is scheduled for publication by Garland Publishing, Inc. before the end of the 1977 calendar year. The general editor of the Archive is Professor Michael Groden of the University's Department of English.

Government Publications. There was significant growth in the Government Publications Collection in The D.B. Weldon Library, which was given a higher priority for development last year following a grant from the Academic Development Fund. Approximately 30 boxes of Federal, Ontario and Quebec documents were acquired from the Canadian Book Exchange Centre. Almost 1,000 documents were obtained from the Metropolitan Toronto Planning Board including a copy of the first official plan of Metro Toronto. This acquisition also contained the Agenda and Minutes of the Planning Board from 1968-1975. Numerous sets of retrospective material, primarily in microform, were acquired with emphasis on Canadian Federal documents, documents from the Provinces of Ontario, Quebec, Nova Scotia, and Saskatchewan, and a selection of materials from Great Britain and the United States. Our appreciation is expressed to Ms. Patricia Greig for making the total Government Publications collection more complete and more accessible to users.

Inflation in Book and Periodical Prices. Since 1971-72, average book prices have increased from approximately \$12.00 per title to slightly over \$16.00 per title. The cost of serial services (indexes, reporting and abstracting services etc.) has almost doubled in price since 1967. The greatest increases, however, are in periodical subscriptions which, even with allowances for substantial fluctuations in the exchange rates of national currencies, have risen at least 250% within the last ten years. The most significant portion of this increase has occurred recently with a rise of approximately 20% in 1975 and as much as 25%-30% in 1976. Journals in the humanities and social sciences now average \$20-\$30 per title while those in the sciences and related professional disciplines average from a range of \$50 to \$100 per title. Currently, the Library System subscribes to approximately 12,000 periodicals at an average cost of between \$45.00 and \$50.00 per title. In view of the rapidly escalating costs of periodical and serial publications which now absorb at least 50% of the acquisitions budget, general guidelines were adopted and contingency plans were formulated last year to

maintain the most desirable balance possible between expenditures for periodical and serial publications, which involve a continuing financial commitment from year to year, and expenditures for monographs and other materials. It is expected that in 1977-78 a number of journal subscriptions, which are less supportive of the academic programs, will have to be cancelled.

Despite the financial limitations facing the University during the past few years, funds available for acquisitions have generally kept pace with inflationary costs. However, the increasing rate of inflation and an unfavourable currency exchange rate, indicate a definite change in the acquisitions program. Inflation for 1976-77 was estimated at 10% for monographs and 15% for periodicals. The recent deflation of the Canadian dollar (5%-8%) from a slight premium to a significant discount in relation to the American dollar has further reduced the purchasing power of the acquisitions budget. Consequently, the acquisition of monographs and other types of materials as well as periodicals will have to be reduced during 1977-78.

MAKING MATERIALS MORE ACCESSIBLE AND IMPROVING SERVICES TO USERS

A number of activities were undertaken to provide more extensive and rapid access to the collections and to improve service to users.

Improvements in Serials Services. Immediate improvements include: revised procedures in order/receiving, serials cataloguing and systems; and redeployment of existing staff to effectively handle periodical publications in each library, from the receipt of a current issue to the gathering together of unbound issues for binding. The planning for this project was carried out in a very effective manner by Ms. Vitols in collaboration with Mr. Geddie and the Librarians-in-charge of the Divisional/Professional Libraries. The changeover will be completed by September 1977.

Long-range plans include the development of a computer-based Serials Management System to be implemented in phases, beginning with the listing of periodicals receipts in September 1977. The system is being developed to increase the availability of information on serial titles, and to reduce the number of files for the handling of serial titles throughout the Library System.

Newspapers, Microforms, and Pamphlets. In addition to keeping up with the input of new materials, Processing Services completed the cataloguing of all currently received newspapers, cleared the entire backlog of microforms, and processed approximately 3,600 pamphlet titles.

Refiling Project. During the year a new UWO manual of filing rules was written (based on the Rules developed by John C. Rather for the Library of Congress) and a project to refile the Union Catalogue in The D.B. Weldon Library was organized. Staff from Processing, Public Services and Collections Development have been working on this project which began in mid-May and is scheduled for completion in mid-September, 1977.

The new rules will make the Union Catalogue easier to use and simplify considerably the filing of catalogue cards. They are also programmable rules which can be used at a future date in the production of a COM (Computer Output Microform) catalogue.

Regional History Listing Project. This project, with financial support from the Academic Development Fund, has resulted in the production of a computer sorted and printed catalogue of county and local public records, private manuscripts and maps. The catalogue, available in paper copies and microfiche, will provide more comprehensive and easier access to the collection.

This project has unlocked large and valuable resources for study and research, and has already resulted in increased use of the Regional History collection.

Appreciation and commendation are expressed to Ms. Stephanie Sykes and Mr. Ed. Phelps for the successful completion of this project.

Elborn College Library Collection. In December 1975 the library collection of Elborn College (formerly the London Teachers' College) was amalgamated with the Education Library collection in Althouse College. Subsequently, the departments of Processing Services have merged the continuing processing requirements for this collection into their existing routines and workloads. A project to convert the Elborn Collection from its Dewey Decimal classification to the Library of Congress classification was begun in March, 1977.

Publication of a Catalogue to the Beatrice Hitchins Memorial Collection on Aviation History. This collection, donated by the family of Fred A. Hitchins and named in memory of Professor Hitchins' wife, is the most extensive collection of its kind in Canada. The catalogue was compiled and edited by Mr. Marvin Hopkinson, with assistance from the staff of the Regional History Collection.

On-Line Bibliographic Services. The use of these services has increased considerably, especially as a result of the availability of more data bases of value to the University community.

During the coming year, a higher priority will be given to the provision and coordination of these services in order to encourage maximum exploitation by users in this approach to the retrieval of information.

Studies are being undertaken to determine the feasibility and cost effectiveness of utilizing the on-line data bases for other library services and functions such as interlibrary loans, verification and ordering of certain types of material.

THE LIBRARIES

Business Library. An electronic security system was installed to protect the University's investment in the Business collections, and to improve services to users.

Two additional services were provided: a subscription to CAN-FIL, a microfiche service providing financial information on more than 2,000 public Canadian companies; and the establishment of a listening area for cassettes.

Education Library. An electronic security system was installed to provide control of the collections.

Duplicate titles and less-frequently used materials were identified for transfer to the Research Depository Library.

Engineering Library. Shelving space and hours of opening were of concern.

Less-frequently used materials are sent, on a continuous basis, to the Research Depository Library. Hours of opening were adjusted during the academic year to satisfy the majority of users.

Health Sciences Library. The Advisory Committee of the Health Sciences Library formed an ad hoc Committee to discuss the feasibility of the amalgamation of the Health Sciences and Natural Sciences Libraries, and an interim report of the ad hoc Committee was made at a meeting of the Health Sciences Library Advisory Committee on May 2, 1977. The report recommended approval in principle of the amalgamation of the two libraries, contingent upon specific factors and principles which the ad hoc Committee is still formulating with the desire to provide library services for the Health Sciences at an existing or improved level.

Law Library. Grants from the Law Foundation of Ontario provided funds for acquiring a number of significant acquisitions which strengthened the collection.

A cooperative acquisitions program for the six Ontario law school libraries, supported in part by the Law Foundation of Ontario, has been established to develop specialized research collections. The UWO Law Library will collect significant research materials from three American states -- Alaska, Ohio and Texas -- and the East African jurisdictions of Kenya, Tanzania and Uganda. This cooperative projects will make it possible to develop legal research collections that individual law school libraries in Ontario could not undertake on their own.

Music Library. Alternatives for the collections, including weeding for storage and selective acquisitions, were studied and a plan was developed for housing the less-frequently used materials.

The cataloguing of music scores and recordings within the Music Library has become more efficient; however, more needs to be done to streamline processing procedures.

Natural Sciences Library. Hours of opening were reduced during the academic term; however, most users were able to adapt their study schedules to coincide with the new library hours.

Circulation of materials increased by 6%, and the reshelving of materials increased by 1%.

Journal holdings, as listed in the Union List of Scientific Serials in Canadian Libraries, were carefully checked and an amended printout was sent to CISTI.

The Proceedings of the Royal Society of London is now virtually complete, with the addition of the volumes for 1873-1905 on microfiche.

The D.B. Weldon Library. During the past year, there was a levelling off in the use of this Library in terms of user headcount, number of circulation transactions, and recorded in-house use of materials. But there was a considerable increase in the number of reference questions, the number of photocopies made, and the number of loans sent to other libraries.

Hours of opening for the 1976-77 academic year (autumn and winter terms) were based on statistics of past use of the collections, services, and facilities. User response, during the latter half of November and early December, indicated a definite need for longer hours of service, and the Library was open ten additional hours per week during the winter term.

The original plan for hours of opening during the 1976-77 academic year was developed because of the necessity to provide longer hours of service for students enrolled in the programs from May through August: Inter-session, Evening Summer School and Day Summer School. The increasing library needs of this group of students are under continuous review as are the needs of students enrolled in courses presented at off-campus centres. There are presently 16 off-campus centres, and the Library maintains a special collection of approximately 2,000 volumes to provide support to local public libraries which assist in making course-related materials available for UWO students.

To meet priorities for new and growing collections and services, rearrangement of service points on the first floor was studied. A plan was developed and will be implemented during July and August 1977. The Reserve/Heavy Demand collection will be moved to an area adjacent to the Main Circulation Desk. This will result in centralizing the checking out and return of library materials, better utilization of staff, and more effective use of space to house the growing periodicals collection.

UNIVERSITY LIBRARY COUNCIL

During the past two years a great deal has been accomplished by the Council, under the chairmanship of Dr. Bruce P. Squires. The major achievements were: a long-range Space Plan for the University Library System; revision of the Lending Code, including the establishment of an Appeals Committee and the adoption of a policy relating to the Abuse of Library Materials and Equipment; Guidelines for Weeding the Collections; revision of the membership composition of the Library Council; and adoption of a policy on Access to Original Research Materials in the Library System.

ADMINISTRATION

Organizational Changes. On 1 February 1977 three Processing Units - Cataloguing Data Input (card production); Card Catalogue Control (filing); Book Finishing - were grouped together to form a new Cataloguing Support Department. Mrs. Grace Patterson, formerly Administrative Assistant for Processing Services, became the first Department Head. The reorganization facilitated a better coordination of activities among these Units, and a more effective use of the developing, computer-based Cataloguing Support System.

Personnel

Staff Changes. The following changes were made by appointment of staff from within the Library System:

- | | |
|---------------------|--|
| Mr. Sanford Cohen | - Reference Librarian,
Music Library |
| Mr. Harvey Gilmour | - Assistant Director/Administrative
Services |
| Ms. Opal Lane | - Head, Cataloguing Support Department |
| Mr. Larry Lewis | - Librarian-in-charge,
Health Sciences Library |
| Mr. Merwin Lewis | - Librarian-in-charge,
Music Library |
| Ms. Roslyn Money | - Library Personnel Officer |
| Ms. Audrey Murray | - Head, Non-Magazine Serials Unit,
Order/Receiving Department |
| Ms. Anne Seheult | - Collections Librarian,
Health Sciences Library |
| Ms. Stephanie Sykes | - Government Publications Librarian |
| Ms. Kirsten Walsh | - Senior Phonorecords Cataloguer,
Music Library |
| Ms. Marianne Welch | - Collections/Reference Librarian,
Law Library |

Retirements. Our warmest appreciation is expressed to the following staff members for their contribution and dedicated service to the Library System:

Ms. Muriel Allen	- Order/Receiving Department
Ms. Edith Durrant	- Bibliographic Checking/Catalogue Preparation Department
Ms. Ena Griffiths	- Accounts Payable
Ms. Grace Patterson	- Cataloguing Support Department
Mr. Nandor Pillich	- Cataloguing Department
Ms. Winona Webb	- Bibliographic Checking/Catalogue Preparation Department
Ms. Livija Zanderson	- Cataloguing Department

Library Systems

(Computer-Based Systems and Studies)

During the past year, the Library System continued to improve and expand its computer-based systems. These developments were in direct response to the need to improve the services being provided by the Library System, while at the same time ensuring economical library operation. With the necessary assistance from the Department of Information Analysis and Systems (DIAS), considerable progress has been made in the design and development of new systems, notably Circulation and Serials Management. A key factor in the planning and design of these systems is the growing interdependence of the various computer-based systems used by the Library System.

Circulation System. The need for the replacement of our circulation system hardware became apparent when the manufacturer discontinued production of the data collection equipment that has been used by the Library System since 1971. In cooperation with DIAS, the Library System reviewed the products of eleven suppliers before selecting and recommending purchase of a GEAC/EPIC System.

The phased installation of the new system is scheduled to begin in December, 1977, and should be completed by fall of 1978. In its completed form, the new system will expand automated circulation control from the three libraries currently being served to all eight libraries in the Library System.

In addition to replacing the discontinued equipment currently being used with a newer and more reliable generation of equipment, services will be improved by the addition of new capabilities that will include the ability to rapidly inform library staff of books that are required for holds or recalls and of borrowers who are delinquent.

Integration of Computer-Based Systems. Processing Services has been using a computer-based Ordering System since 1967, and a computer-based Cataloguing Support System since 1974. Improvements and refinements to both

systems are continually being made. Of major significance, however, is the developing trend toward the merging of these systems. Two examples will serve to illustrate this trend. In May 1976 the Ordering System was altered so that the addition of receiving information to a record would trigger the Cataloguing Support System into a search for cataloguing copy. In March 1977 the Cataloguing Support System was altered so that selection slips for the Ordering System could be produced from current MARC (i.e., Machine Readable Cataloguing) tapes. Thus, the two systems now "talk" to each other.

The new Serials Management System is being developed as a separate System. However, "hooks" are being built into the System which will link it in the future to the other two major Systems for processing materials.

Other examples of the trend toward the integration of Systems are the current plans to use the Circulation System for inventory control within Processing, and the prospective use of combined Ordering/Cataloguing Support/Circulation data to monitor the effectiveness of the use of the collections.

Serials Management System. This is a computer-based system for the control of, and provision of information concerning, both individual issues and bound volumes of serial titles. It is being developed as part of the Library System's commitment to improved serials services, and it will complement the improvements which are being made through redeployment of staffing for serials receiving, serials cataloguing, and serials binding preparation.

Design of the System began in 1976, and it is hoped that the first phase, the listing of periodicals receipts, will be implemented in September, 1977.

Studies

Mezzanine Study. A co-ordinated study of the use of the mezzanine area in The D.B. Weldon Library, housing administrative offices including the Office of the Director of Libraries, was completed.

Improved effectiveness and economy were the goals of the study and consideration was given to: space allocation, telephone service, communications, secretarial service, typing service, photocopying, and filing.

Office reallocations were carried out, designed to facilitate better secretarial backup and internal communication. Further developments are required concerning secretarial and typing service, filing and photocopying.

Typewriter Investment Program. Our large investment in typewriter equipment and the even larger potential replacement cost justified an extensive study of use of this equipment. Information was gathered concerning the capabilities of present equipment and present functions involving typewriters.

With this information, reallocations are being made to match equipment to the needs of each operator and to remove equipment where there was not sufficient justification for retention.

Our typewriter inventory will be reduced by 28 machines, new allocations will be more in keeping with functions, and future replacement decisions can be based on valid criteria.

Policies and Procedures Notebook. All policies and procedures for the Library System were reviewed and updated, and a more flexible approach for adding and deleting items in the notebook was developed. A revised version of the Policies and Procedures Notebook was distributed to each Library, Department, and Unit in April 1977.

FUTURE DIRECTIONS

Increased use of microforms. The Library System currently acquires fiche copies of CODOC (Cooperative Documents Project) and CUSS (Cooperative Union Serials System) files. Plans to acquire Library of Congress Subject Headings on microfiche are also underway. Conversions to fiche are planned for the UWO Library System's Union List of Serials and the Order File. It is also proposed that listings from the Serials Management System and (eventually) current additions to the Union Catalogue be produced in COM (Computer Output Microform) format.

Studies will be undertaken to determine the effect of extensive use of microforms, and the compatibility of the medium with, and the type of equipment required for, effective service.

Planning for a COM Catalogue. Study and planning have been undertaken concerning the feasibility and long-range cost benefits of providing bibliographic access to currently acquired materials through computer-produced microform catalogues.

The increasing staff and equipment costs for maintaining card catalogues, as well as growing space requirements, dictate that we explore automated alternatives for bibliographic access.

LIBRARY STATISTICS

(May 1, 1976 to April 30, 1977)

Size of Collection

The total number of monographs and bound periodicals organized and available for use on April 30, 1976 was 1,191,099.

Additions to the Collections

During the period from May 1, 1976 to April 30, 1977, the following items were processed and added to the collections:

Monographs and Bound Periodicals	84,001
Microforms	5,726
Government Publications	21,860
Audio/Visual and Other Special Materials	38,665
Current Periodical Subscriptions	<u>11,698</u>
Total	161,950

The following tables provide a breakdown of the use of the collections and services provided by the Library System. The period covered is from May 1, 1976 to April 30, 1977.

Circulation Transactions

<u>Libraries</u>	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>
The D.B. Weldon Library	448,657	485,911	484,209
Music	88,363	94,402	107,426
Education	70,525	91,714	79,658
Health Sciences	70,310	87,580	107,966
Natural Sciences	60,673	75,166	79,324
Law	26,198	27,506	27,175
Business	17,172	17,399	20,506
Engineering	17,157	17,999	16,494
TOTAL	801,055	897,677	922,758

TOTAL CIRCULATION TRANSACTIONS
FOR PREVIOUS YEAR (1975-76) 897,677

INCREASE OVER 1975-76 2.8%

During the last ten years, using 1967-68 as the base years, the number of circulation transactions increased 220%, while enrollment increased 118%.

	<u>Circulation</u>	<u>Enrollment (FTE)</u>	<u>Average Use Per Student of Circulating Materials</u>
1967-68	288,228	9,397	31
1968-69	396,058	11,287	35
1969-70	449,885	13,235	34
1970-71	500,011	15,586	32
1971-72	545,832	16,934	32
1972-73	614,014	17,153	36
1973-74	683,077	18,566	37
1974-75	801,055	19,611	41
1975-76	897,677	20,646	44
1976-77	922,758	20,489	45

In-Library Use of Materials

<u>Libraries</u>	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>
The D.B. Weldon Library	505,897	579,663	498,262
Law	159,145	178,740	197,584
Health Sciences	120,434	97,702	96,937
Music	102,262	72,596	77,760
Natural Sciences	76,038	96,742	93,862
Education	45,529	34,826	32,928
Business	23,107	43,426	41,406
Engineering	20,086	16,104	22,924
TOTAL	1,052,498	1,119,797	1,061,663

TOTAL IN-LIBRARY USE OF MATERIALS
FOR PREVIOUS YEAR (1975-76)

1,119,797

DECREASE FROM 1975-76

5.2%

Items Reshelved

<u>Libraries</u>	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>
The D.B. Weldon Library	954,554	1,065,574	982,471*
Music	190,625	166,996	185,186
Education	116,054	126,540	112,586
Health Sciences	190,744	185,282	204,903
Natural Sciences	136,711	171,908	173,186
Law	185,343	206,246	224,759
Business	42,279	60,825	61,912
Engineering	37,243	34,103	39,418
TOTAL	1,853,553	2,017,474	1,984,421

DECREASE FROM 1975-76

1.6%

*complete statistics for Stacking - Microforms and Government
Publications are not available for 1976-77

Count of Library Users

Accurate head counts of users are available, through turnstile control, in four of the Libraries.

<u>Library</u>	<u>1974/75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>Percentage Increase/(Decrease) over 1975-76</u>
The D.B. Weldon	1,574,881	1,683,088	1,640,431	(2.53)
Health Sciences	N/A	N/A	252,510	N/A
Law	N/A	N/A	203,271	N/A
Natural Sciences	369,700	383,776	315,464	(17.8)

Reference/Information Services
(Questions, Tours)

<u>Libraries</u>	<u>1975-76 Questions</u>	<u>1976-77 Questions</u>	<u>1975-76 No. of People on Tours</u>	<u>1976-77 No. of People on Tours</u>
The D.B. Weldon	90,814	104,622	2,564	1,667
Health Sciences	11,120	8,327	249	200
Education	14,338	13,512	523	435
Music	14,054	16,727	365	251
Engineering	6,993	5,905	82	81
Natural Sciences	7,749	7,916	87	106
Law	2,919	3,160	152	43
Business	9,335	12,009	45	268
TOTAL	157,349	172,178	4,067	3,051

TOTAL REFERENCE/INFORMATION SERVICES (QUESTIONS) FOR PREVIOUS YEAR (1975-76)

157,349

INCREASE OVER 1975-76

8.6%

Interlibrary Loan Transactions
(1976-77)

<u>Libraries</u>	<u>Items Borrowed</u>	<u>Items Loaned</u>
The D.B. Weldon Library	2,575	3,375
Natural Sciences	721	862
Health Sciences	466	2,413
Engineering	622	241
Law	54	199
Music	206	78
Education	24	317
Business	91	394
TOTAL	4,759	7,879
	<u>1975-76</u>	<u>1976-77</u>
Items Borrowed	4,866	4,759
Items Loaned	7,085	7,879
Total Transactions	11,951	12,638
INCREASE OVER TOTAL TRANSACTIONS FOR 1975-76		5%

Interlibrary Loans
OCUL Libraries
1976-77

Materials include Volumes, Photocopies and Microforms.

	<u>MATERIALS SENT</u>	<u>MATERIALS RECEIVED</u>	<u>BALANCE (DEFICIT)</u>
Queen's	355	122	233
Lakehead	205	33	172
McMaster	393	266	127
Guelph	232	143	89
Brock	147	77	70
Laurentian	78	14	64
Trent	113	55	58
Carleton	130	102	28
Wilfrid Laurier	62	56	6
York	232	228	4
Ottawa	105	136	(31)
Waterloo	244	310	(66)
Windsor	81	208	(127)
Toronto	121	370	(249)
TOTAL	2,498	2,120	378

Interlibrary Loans
Non-OCUL Libraries
1976-77

	TOTAL ITEMS SENT 1976-77
National Library	55
CISTI	13
Other Ontario Libraries	3,470
Quebec Libraries	662
Other Canadian Libraries	1,024
USA Libraries	125
Other International Libraries	32
	5,381

Materials sent to the above libraries include Volumes, Photocopies and Microforms.

STUDENT SERVICES

REPORT OF THE DIRECTOR

DR. THOMAS F. SIESS

In 1976-77, Student Services' activities underwent significant change and substantial growth. The changes that took place were the culmination of several years of review and planning. The growth reflects the continuing demand for services.

The changes in Student Services in 1976-77 were both physical and organizational. The Awards office and the Housing office moved to newly renovated quarters in Somerville House in the late summer of 1976. At the same time, the counselling staff formerly located in Somerville moved to the University Community Centre, where they were integrated with the career planning and placement staff and the foreign student office. Together, they now form a unit called Counselling and Career Development Services. This latter change created increased visibility of the counselling and career planning services. As a result, the demand for those services rose markedly. However, because of the greater flexibility made possible by the integrated service, it was possible to meet that increase with no increase in staff.

The physical changes in the U.C.C. that were made to accommodate the new Counselling and Career Development Service also allowed for a small expansion in Student Health Services. While the facilities are still extremely heavily utilized, the small change reduced some of the over-taxing of the space that had been developing. Even though there were no major outbreaks of illness this year, the report from Student Health Services shows a modest increase in services provided.

The general picture in the Awards office was one of increasing demand. It was a difficult year, particularly as a result of serious delays in the processing of OSAP applications in Toronto. The University responded quickly to this problem, and made emergency funds available to affected students. In all, 206 students received interest-free loans of up to \$200, totalling \$36,775. Since no changes have been instituted in OSAP for the present year, a somewhat smoother process is anticipated. However, proposed changes in provincial assistance programs, if implemented, could result in significant increases in the numbers of students seeking assistance.

The Housing office was again able to meet the heavy demand for accommodation. In addition, substantial effort was expended in the planning and construction of Platt's Lane Estates, the new facility for married students. The first tenants will move in on July 1, 1977 and the second phase will be complete in the summer of 1978. When this is complete, there will be 400 townhouse and apartment units. These will replace the present married student apartments which will then be changed to single student residences. That change will add 600-800 beds to the University's residence system, and will begin to approach the target, set several years ago, of accommodating 25% of the student body.

The University Community Centre had another active year, with particularly

increased activity in the area of programming. The hard work of the Directorate has earned it increased respect throughout the university community, and has formed a base for increasing visibility of the U.C.C.D. The expansion of program events has greatly increased the usage of the building and, as a result, helped to fulfill the purpose of the facility as "the living room" of the campus.

In addition to their regular duties, members of the Student Services' staffs were active in a variety of professional and community activities in the course of the year. The Housing staff hosted and chaired the annual conference of the Ontario Association of College and University Housing Officers. The Director and his staff led several workshops and sessions. A. K. Knill, the Director of Housing, also presented a paper at the Canadian Association of College and University Student Services (CACUSS) held in St. John's, Newfoundland. Wesanne McKellar, the Director of the U.C.C., is a member of the Executive Board of Region VII of the Association of College Unions - International and is Coordinator of Women's Concerns for that group. She participated in the national meeting of ACU-I in San Diego, and the regional meeting at Ohio State University. She also served as an adjudicator for music festivals in Windsor and Peterborough. Kevin Murphy, the Director of Counselling and Career Development Services, presented a paper at the meeting of CACUSS in Newfoundland. Papers were also prepared for that conference by Bonnie Reberg and Tony Thompson of the CCD staff. Kathy Berg, of CCD, presented a paper at the meetings of the American Educational Research Association in New York, and Tony Thompson presented a paper at the Canadian Guidance and Counsellors' Association in Montreal. Jan Gibson, of CCD, is on the Executive of the London School Counsellors' Association and Nancy Kendall is on the Board of Directors of Womanpower and the Professional Standards Committee of the University and College Placement Association. Judy Leyshon, the head nurse in Student Health Services, is president of the Nursing Section of the Ontario College Health Association (OCHA). She presented papers both at OCHA, and at the meetings of the Ontario Section of the Canadian College Health Services Association. John McClure, the Director of Student Awards, is Regional Chairman of the Association of Student Awards Officers of Ontario. Tom Siess, the Director of Student Services, presented a paper at the CACUSS meeting in Newfoundland and was also a workshop leader for the counselling consultants group of Canada Manpower.

The following is a more detailed summary of the activities of the Student Service departments.

AWARDS OFFICE: Mr. J. E. McClure, Director

The 1976-77 academic year was extremely busy in terms of reorganization, personnel changes, accommodation relocation and, most critically, the additional workload caused by a breakdown in the computer processing of the O.S.A.P. applications at the Ministry of Colleges and Universities (M.C.U.).

There were several major changes in personnel in 1976-77. Mr. R. F. Murray assumed the position of Assistant to the Director with responsibility for Scholarships, Bursaries and Universities Combined Loans. Mr. Donald Henderson

was also transferred from the Registrar's Office into the position of Assistant to the Director with responsibility for administering the Ontario Student Assistance Program. Mr. Charles Hill, Ms. Karen Rowland and Ms. Mary Boniface were added to the staff, replacing Ms. Jackie Scarcello, Ms. Cathy Schmidt and Ms. Joanne Mallory, who left during the year.

Two major changes were adopted in the Awards Office for the 1976-77 Ontario Student Assistance Program (O.S.A.P.). The first was Cost Coding. M.C.U. offered all institutions an opportunity to place the costs for tuition, books and numbers of weeks for each year and faculty on a coded basis. The University was one of a very few institutions which adopted this proposal. The results appear to support the belief that the introduction of coding simplified the editing process and, therefore, contributed to a reduction in the number of errors. The second major change was the keypunching of all regular applications. Key punching at the institution level was unique to this university and it worked quite well.

There were a few changes in the O.S.A.P. Program which increased the size of the award and thus benefited students. These were: increased allowances for married students, dependent children, babysitting, and for books and local transportation; also the ceiling for part-time earnings was raised and the Orphan's Allowance and Disability Pension deleted from assessment. At the same time, partially off-setting these gains, the minimum course load was increased from 60% to 80% and Student Contribution raised 10%. The C.S.L. Option, which was the cause of so many problems the previous year, was dropped.

The Ontario Student Loan Plan for needy students, who were taking less than 80% of a full course load, attracted 160 students in 1976-77. Of this number, 120 received assistance amounting to \$102,715. The average loan was \$856. The maximum available loan was increased from \$1,400 (two terms) in 1975-76, to \$1,800, but otherwise the regulations and assessment procedures were similar to O.S.A.P.

The Ontario Special Bursary Program fulfills a real need for those students who wish to take one or two courses during the academic year but who are at a very low income level (normally receiving social assistance). Nine applications were processed in 1976-77 for a total amount of \$5,509. The average award was \$656.

A number of students required supplementary funds either to meet unusual expenses or to compensate for a shortfall in their resources. Where possible, bursaries were provided to such students. The average disbursement for university-administered bursaries was higher than in 1975-76 (\$316 versus \$177) which, to a large extent, reflects the impact of inflation. Seven new bursaries were made available and four were amended to increase the value in each case. Each donor, where applicable, received a summation of the bursary money expended. Details such as names, addresses, program and case history, together with letters of appreciation were forwarded. Each recipient was furnished with a short history of the bursary and encouraged to write a letter of thanks to the donor. Unfortunately, only 50% of the students took the trouble to do so.

SUMMARY OF STUDENT AWARDS - 1976-77

No. in Program	Program and Year	UNIVERSITY ADMINISTERED BURSARIES & GRANTS		SCHOLARSHIPS AND FELLOWSHIPS		UNIVERSITY LOANS		OTHER AWARDS BY FIRMS, GOVT. DEPTS., ETC., MAKING OWN SELECTIONS		ONTARIO STUDENT AWARDS (GRANT PAYMENTS)		ONTARIO STUDENT AWARDS (CANADA STUDENT LOANS)		GRAND TOTALS	
		No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No. of Awards	Total Assistance
791	Arts I	45	15,373.	330	83,632.	14	2,350.	39	31,400.	136	126,285.	187	165,015.	751	424,055.
774	" II	30	26,593.	53	17,345.	10	1,550.	37	46,565.	165	148,496.	238	232,400.	533	472,949.
596	" III	30	30,445.	48	32,002.	11	2,300.	37	42,163.	107	107,902.	173	178,660.	406	393,472.
218	" IV	10	1,650.	92	16,639.	7	1,250.	7	5,281.	68	55,112.	87	91,905.	271	171,837.
2,379	Totals	115	74,061.	523	149,618.	42	7,450.	120	125,409.	476	437,795.	685	667,980.	1,961	1,462,313.
149	Bus. Adm. III	5	900.	3	2,800.	-	-	1	665.	23	16,122.	36	31,455.	68	51,942.
143	" " IV	2	300.	10	4,750.	1	200.	1	500.	37	36,280.	51	50,170.	102	92,200.
292	Totals	7	1,200.	13	7,550.	1	200.	2	1,165.	60	52,402.	87	81,625.	170	144,142.
177	Music I	5	1,580.	40	10,030.	3	600.	2	1,175.	63	55,532.	79	80,260.	192	149,177.
155	" II	8	1,450.	2	900.	3	550.	4	2,035.	34	34,666.	51	54,080.	102	93,681.
142	" III	8	1,650.	7	3,900.	2	250.	3	975.	32	33,560.	54	51,625.	106	91,960.
84	" IV	2	250.	-	-	-	-	3	931.	19	20,612.	41	38,730.	65	60,523.
558	Totals	23	4,930.	49	14,830.	8	1,400.	12	5,116.	148	144,370.	225	224,695.	465	395,341.
300	Phys. Ed. I	4	600.	18	2,200.	3	450.	2	765.	88	67,364.	117	115,275.	232	186,654.
207	" " II	5	1,450.	1	100.	-	-	4	1,862.	48	43,462.	77	79,930.	135	126,804.
208	" " III	4	800.	5	4,300.	-	-	8	6,525.	56	47,769.	86	74,630.	159	134,024.
117	" " IV	5	700.	1	130.	1	200.	3	2,165.	31	29,980.	50	47,850.	91	81,025.
832	Totals	18	3,550.	25	6,730.	4	650.	17	11,317.	223	188,575.	330	317,685.	617	528,507.
1,736	Soc. Sc. I	23	5,350.	258	47,307.	15	3,500.	66	30,187.	430	328,308.	576	503,760.	1,368	918,412.
1,790	" " II	26	6,240.	59	36,970.	17	3,500.	27	15,165.	421	327,492.	569	554,895.	1,119	944,262.
1,379	" " III	19	4,450.	35	16,345.	18	5,300.	25	15,599.	339	273,865.	469	463,175.	905	778,734.
420	" " IV	17	3,000.	5	650.	9	1,900.	16	11,678.	144	126,764.	193	200,155.	384	344,147.
5,325	Totals	85	19,040.	357	101,272.	59	14,200.	134	72,629.	1,334	1,056,429.	1,807	1,721,985.	3,776	2,985,555.
1,342	Science I	25	4,900.	600	149,817.	11	1,950.	29	24,077.	299	235,584.	410	373,665.	1,374	789,993.
795	" II	17	3,700.	120	94,590.	15	2,600.	19	14,610.	168	133,463.	284	249,960.	623	498,923.
655	" III	16	2,850.	88	70,450.	11	2,550.	15	10,471.	179	148,660.	248	235,620.	557	470,601.
322	" IV	10	1,780.	2	730.	6	1,650.	8	4,422.	119	102,199.	153	146,930.	298	257,711.
3,114	Totals	68	13,230.	810	315,587.	43	8,750.	71	53,580.	765	619,906.	1,095	1,006,175.	2,852	2,017,228.
264	Eng. Sc. I	5	800.	85	23,350.	1	700.	4	2,330.	44	43,746.	71	67,900.	210	138,826.
234	" " II	5	900.	6	4,850.	3	600.	11	6,751.	53	49,957.	74	75,500.	152	138,558.
185	" " III	4	950.	10	6,850.	3	300.	4	2,960.	54	50,687.	79	84,595.	154	146,342.
128	" " IV	1	200.	1	130.	4	800.	2	1,300.	19	27,782.	62	71,500.	89	101,712.
811	Totals	15	2,850.	102	35,180.	11	2,400.	21	13,341.	170	172,172.	286	299,495.	605	525,438.
155	Law I	11	2,650.	7	900.	2	350.	2	1,245.	70	52,852.	78	84,500.	170	142,497.
146	" II	6	2,000.	16	2,550.	5	750.	2	1,350.	90	83,210.	86	101,045.	205	190,905.
151	" III	-	-	9	650.	2	400.	2	1,350.	117	102,775.	112	142,340.	242	247,515.
452	Totals	17	4,650.	32	4,100.	9	1,500.	6	3,945.	277	238,837.	276	327,885.	617	580,917.
56	Dentistry I	3	625.	2	100.	2	400.	-	-	30	38,249.	36	56,730.	73	96,104.
52	" II	2	450.	2	300.	1	400.	3	3,895.	42	54,576.	46	79,260.	96	138,881.
56	" III	6	1,250.	3	400.	1	500.	4	6,860.	51	65,837.	50	69,693.	115	144,540.
56	" IV	4	625.	1	100.	-	-	4	2,653.	35	51,989.	46	50,160.	90	105,527.
220	Totals	15	2,950.	8	900.	4	1,300.	11	13,408.	158	210,651.	178	255,843.	374	485,052.
76	Nursing I	5	1,050.	40	5,500.	1	200.	-	-	28	24,860.	32	32,610.	106	64,220.
106	" II	3	590.	2	2,400.	-	-	4	3,280.	32	33,645.	35	46,745.	76	86,660.
73	" III	4	450.	2	1,800.	-	-	6	5,329.	27	18,466.	38	34,950.	77	60,995.
83	" IV	2	700.	-	-	1	200.	3	3,940.	34	30,717.	34	33,470.	74	69,027.
338	Totals	14	2,790.	44	9,700.	2	400.	13	12,549.	121	107,688.	139	147,775.	333	280,902.
106	Medicine I	8	1,800.	3	530.	2	600.	4	2,150.	39	55,625.	51	51,440.	107	112,145.
106	" II	10	2,350.	5	1,300.	4	1,100.	12	7,215.	52	74,418.	64	75,190.	147	161,573.
104	" III	17	3,650.	2	550.	5	2,100.	10	8,090.	72	177,031.	89	128,040.	195	319,461.
97	" IV	22	5,000.	10	1,765.	9	2,750.	108	129,470.	77	91,745.	87	97,240.	313	327,970.
413	Totals	57	12,800.	20	4,145.	20	6,550.	134	146,925.	240	398,819.	291	351,910.	762	921,149.
37	*Meds. (Other) I	-	-	24	5,400.	-	-	1	500.	6	5,120.	9	8,480.	40	19,500.
83	" " II	-	-	-	-	-	-	1	685.	14	10,730.	21	20,120.	36	31,535.
83	" " III	3	550.	2	1,300.	3	550.	1	640.	19	19,880.	25	24,520.	53	47,440.
87	" " IV	3	550.	-	-	4	700.	4	2,830.	24	27,620.	30	30,360.	65	62,060.
290	Totals	6	1,100.	26	6,700.	7	1,250.	7	4,655.	63	63,350.	85	83,480.	194	160,535.
1,038	Education	29	5,050.	6	2,630.	22	4,275.	25	12,606.	625	674,824.	677	684,890.	1,384	1,384,275.
16,062	Undergraduate Totals	469	148,201.	2,015	658,942.	232	50,325.	573	476,645.	4,660	4,365,818.	6,161	6,171,423.	14,110	11,871,354.
436	M.B.A.	2	200.	128	133,700.	7	2,800.	136	265,450.	147	159,070.	222	271,103.	642	832,323.
109	S.L.I.S.	-	-	131	70,050.	-	-	20	24,149.	35	75,469.	50	73,370.	236	243,038.
1,076	Other Grads	2	1,100.	1,767	2,820,520.	23	4,450.	486	1,166,426.	127	134,131.	193	225,998.	2,598	4,352,625.
1,621	Total Grads.	4	1,300.	2,026	3,024,270.	30	7,250.	642	1,456,025.	309	368,670.	465	570,471.	3,476	5,427,986.
17,683	GRAND TOTALS	473	149,501.	4,041	3,683,212.	262	57,575.	1,215	1,932,670.	4,969	4,734,488.	6,626	6,741,894.	17,586	17,299,340.

*Medicine (Other) is a combination of the Programs in Communicative Disorders, Physical Therapy and Occupational Therapy. With the exception of Occupational Therapy, students are not accepted into the Program until completion of First Year University Studies.

U.W.O. Loans more than tripled in amount, from 63 students receiving \$18,250 in 1975-76, to 262 receiving \$57,575. In the main, this dramatic increase resulted from the implementation of the Contingency Loan Fund which was established to accommodate students who were experiencing financial hardship caused by the delay in processing their O.S.A.P. applications.

The Scholarship Program remained ostensibly the same as in 1975-76. The major thrust of the program was the Continuing Admission Scholarships of \$1,200 annually for top-grade students. These scholarships appeared to be successful in attracting students who might otherwise have gone to the university of their first choice. Fifty-two of the 100 scholarships offered were accepted by such students. To allocate 100 twelve hundred dollar Continuing Admission Scholarships, 178 offerings were made. It took 294 offerings of one-year \$500 scholarships to produce 100 acceptances. It is interesting to note that only 16% of the \$500 scholarships were accepted by "second and third" choice students. Ten new scholarships were added this year, two were cancelled and four amended (one to include the Affiliated Colleges and the other three to increase the value).

Although the student population has remained constant, all aid figures have increased appreciably from 1975-76. Government grants, for example, have increased by \$329,695, or 7.4%, and Canada Student Loans by \$1,487,688, or 28.3%. This can be attributed, in the main, to an increase of \$100 in tuition, and additional loans made integral to the cost tables for dental kits, medical kits, musical instruments and law books. As well, although applicants who own cars that are not justified have their O.S.A.P. award reduced by \$400, this amount may, on request, be rebated in Canada Student Loan. The average loan thus was increased to \$1,017.49 (\$827.30 in 1975-76) and the average grant to \$982.80 (\$804.06 in 1975-76). Included in the C.S.L. figure is an amount of \$263,574 resulting from 191 loans to students from other provinces.

Some concerns have been expressed with regard to student earnings and savings through the summer months. However, a review of appeals under O.S.A.P. revealed that only 209 students (2.88%) requested additional funds to compensate for lack of the requisite student contribution.

CHAPLAINS: Rev. P. E. Crunican, Chairman

The chaplaincy at UWO comprises seven chaplains appointed and salaried by six church bodies and accredited by the university. The past year saw a major turnover in personnel, with four new members joining the team: Joseph Driskill, United Church, Paula Marcotte, R.C., Carl Onofrio, Lutheran, and Jack Westerhof, Christian Reformed. During the first term, Ann Keffer served as pro tem member for the Lutheran community.

The chaplains work in and out of a Chaplains Centre in the University Community Centre, offering a wide variety of services to the university community. The office is staffed on a rotating basis from 9.30 a.m. to 3.30 p.m. Monday through Friday, and has been used two or three evenings a week by individual chaplains and their groups. A somewhat shorter schedule over the lunch hour is maintained during the summer months. The majority of the chaplains have

other "home bases" out of which they work, as well as out of the chaplains' office.

The office functions as a drop-in centre for informal conversation and discussion, as well as offering counselling resources to those looking for someone with a particular sensitivity to the religious dimensions of their lives. Care is taken to refer students to Health, Counselling and other Student Services, when such referral seems appropriate. Despite the pressure of restricted space, the back room of the chaplains' centre has been designated as a "quiet room" for meditation, prayer and quiet sharing. A good number of students and faculty have taken advantage of this room.

During the first term, the chaplains presented a film series under the title "Revolutionaries?". In comparison with past years, the attendance was relatively disappointing, leading to the conclusion that, for the present at least, the chaplains should not offer a separate film series, but be available for discussion for films offered by other groups on campus.

During the second term, a well-received six-part marriage preparation series was offered by the chaplaincy team. With financial and publicity support of the U.C.C. directorate, fourteen couples took part in this series. Subsequent comment and inquiry strongly supports a continuation of this program.

Each Wednesday at 12.30 p.m., a seminar under the general title "Counter-currents on Campus" was presented in the Chaplains' Centre. Sensitivity was the general theme pursued, with topics ranging through racial prejudice, women's movements and local theatre. During the 1977 summer school, a series entitled "Education '77: Issues and Challenges" is being presented at Althouse College.

The chaplains offer regular opportunities for worship and celebration on or near the campus according to the various Christian traditions they represent. They also provide contact points for those of religious traditions not represented in the chaplaincy team. Ecumenical services are presented from time to time, such as on Remembrance Day and in a special pre-Lenten service highlighting third world concerns. The chaplains took an active part in International Students' Week, and, although it was not successful, they issued an urgent appeal supporting the Senate resolution which opposed a difference in fees for students from foreign countries.

Chaplains are also called upon by members of the university community to provide such services as: performing marriage ceremonies, providing references and recommendations, acting as theological resource persons, speaking to local churches and other groups, supporting social conscience movements, and providing many other services of challenge and encouragement.

COUNSELLING AND CAREER DEVELOPMENT SERVICES: Dr. K. C. Murphy, Director

The numbers of students seen by all sections within CCD have increased this year, with over 8,000 students seen by the department. The Placement Office has had more employers conduct on-campus interviews than ever before (103

companies) with 2,072 actual interviews. Part-time and summer employment programs were more active than in the past and the number of alumni registered with the Alumni Placement Service has increased by more than 20% over last year. There were 1,210 students seen individually for 3,200 counselling appointments and 273 students seen in counselling and study skills groups.

Numbers of students seen do not, however, convey the major changes within CCD over the past year. The major accomplishment for the department has been significant movement toward a multifaceted and closely coordinated service with the unitary goal of enhancing student development. The best examples of these strides are the frequent and enthusiastic cooperation of personnel from historically separate departments who have worked together on our various groups and workshops. For instance, one group, entitled "Creating a Career For Yourself: Phase A and Phase B", involved counsellors, career counsellors, and careers resource personnel jointly facilitating the career and life decisions of students in a structured workshop setting. There was also a foreign students' group presented by a counsellor, the foreign student advisor, and a foreign student. A new effort involved two workshops on employment search skills for alumni, led cooperatively by the alumni placement coordinator and the career counsellors. There were also several study skills groups and one "mature" students group offered by the study skills specialist and CCD counsellors. Finally, there were assertion training groups, a self-discovery group, and anxiety management groups led by the counsellors.

Accompanying an internal increase in a wide range of cooperative and interconnected groups is a recent move of CCD toward a more preventative approach to student concerns. This shift involves a decreased emphasis on direct reactions to individual student problems and greater involvement in discovering the needs and general problem areas for students and then designing programs to meet these needs or prevent these problems. A good example of this preventative stance is the increased involvement with "mature" students and other special student populations. A rather common concern of "mature" students became evident in many study skills groups. These general concerns were pursued with the Registrar's Office and the faculty Deans to the point of proposing and receiving funds for a two-day "mature" students orientation program aimed at anticipating some of their problems and hopefully reducing their high failure rate in first year (65%). The study skills specialist, working with the academic counsellors from the faculties, has also been actively involved with the Indian Teachers' Education Program (I.T.E.P.) in the Faculty of Education to assist this special group in surviving their program. A program through the foreign student advising office was developed to aid foreign students with their English usage in course work. This is an attempt to prevent the academic problems that foreign students often encounter, because of their difficulty with English as their second language.

Other programs intended to reach out to students have included involvement in the Department of Psychology's Career Day for their students. Counsellors and careers resource personnel have also worked closely with representatives from the biological sciences to update the career information for students in these departments. Counsellors and the study skills specialist have worked with residence students on time management and increasing their academic skills.

One major project undertaken conjointly by CCD and the Faculty of Education has been the establishment of the Faculty of Education Counselling Centre. One counsellor spent half his time coordinating this service, which was developed to meet the special needs of students enrolled in education programs. Outreach and prevention was a central thrust of this new service. Counsellors from the service spent a good deal of time determining the needs of students and developing programs to meet those needs. Examples of such programs include workshops focused on issues related to the evaluation and feedback from practice teaching, a panel discussion on classroom control and discipline, workshops on writing résumés and letters of application, and the development of videotapes on role-played job interviews.

Another attempt to reach students is the annual reception service offered by the foreign student advisor and her assistant. The program offers transportation to newly arrived foreign students, arranges temporary accommodations, and generally welcomes and orients the students to a new culture.

There was also continued involvement in the education and training of students in counselling and student services skills. Undergraduate and graduate students from the Department of Psychology were supervised by CCD counsellors as part of those students' practical training in psychology and counselling.

Ongoing research and program evaluation continue to be major commitments. Several projects are in progress. One of these involves an examination of the effectiveness of an interest inventory employed by CCD for predicting satisfaction with vocational choice. Another is attempting to refine a questionnaire on student reactions to the services offered. Information is also being collected on the reading and study skills tests used by CCD to establish normative data on Canadian students. Most of this research has been presented at two national student services conventions and part of it has been accepted for publication in the July, 1977 issue of Research in Education.

Staff changes in 1976 included the addition of Ms. Kathy Berg and Ms. Fiona Goodchild as counsellors, and the resignations of Dr. Rita Rapoza-Blocher, Dr. Max Uhlemann and Ms. Ingrid Hallein. Dr. Kevin Murphy became Director of CCD in January, and was replaced as Foreign Student Advisor by Ms. Louise Lopez. Ms. Sandy Dengler moved to the position of Foreign Student Assistant. Ms. Mary Carol Watters also joined the staff as a counsellor, transferring from the position of Assistant Director of Student Services (Counselling).

HEALTH SERVICES: Dr. H. J. Thurlow, Director

The year under review demonstrated some stabilization in the number of visits to Student Health Services, with only a slight total increase. Within this total, the Nursing Service at the Faculty of Education experienced a 15% decrease. (It is to be phased out in September, 1977, and the clinical load absorbed by the U.C.C. Medical Centre.) The Athletic Injuries and Gynaecology Clinics experienced 14% and 18% increases in activity. The visits to all of Student Health Services were distributed as follows:

	<u>Total # of Visits</u>	<u>% Increase or (Decrease)</u>
Medical Centre		
Drop-in and Appointments	26,300	.4
Allergy & Immunization	<u>5,801</u>	2.4
Total Medical Centre	32,101	.8
Counselling Centre	1,537	6.4
Althouse Nursing Service	2,054	(15.5)
Athletic Injuries	1,577	14.0
Gynaecology	<u>2,620</u>	<u>18.0</u>
TOTAL	<u>39,889</u>	<u>1.4</u>

The overcrowding problem was alleviated somewhat by both the completion of the renovations to the "drop-in area" and lack of any major viral epidemics during the winter.

Increased emphasis on health education and continuing education was reflected in the formation of special committees to deal with these topics. A Co-ordinating Committee was established to facilitate administrative matters.

In consultation with representatives of the Students' Advisory Committee to Health Services, a budget for 1977/78 was established with a student fee contribution of \$7.00 per semester (\$6.00 per semester in 1976/77).

The Staff/Faculty Health Service also experienced a slight rise in activity to 1,631 visits (an increase of 7.2% over the previous year). Preventive health programs such as immunization for animal handlers, audiometric testing and routine annual health checks for staff involved in health hazardous jobs continued to be carried out by the Service. In addition, the Staff/Faculty Service became involved in the monitoring and management of biohazards within the University. A physician was assigned to the Service part-time to consult on both occupational and non-occupational health problems. An Advisory Committee was established to consider service priorities for this area.

For part of the year, Dr. Fred Pattison served as Acting Director while Dr. Thurlow was on leave of absence. Dr. Derryck Smith resigned from the medical staff and will be replaced by Dr. Elspeth Kushnir.

HOUSING OFFICE: Mr. A. K. Knill, Director

The Single Student Residence operation continued its healthy financial record of the past three years. The goal of the revised 1976/77 annual operating budget was reached, and the accumulated Operating Surplus now stands at \$33,000. The Residence Reserve Accounts total \$987,000. The published residence fees for the academic year were reduced in October, largely as a result of the unexpected surplus that arose in the previous fiscal year, and the savings resulting from the closing of Spencer Hall. The fees for the 15 meals

per week plan were reduced to \$1,530, and the fees for the 19 meals per week plan were reduced to \$1,575, which represented an approximate increase in fees of 6% over the previous year.

Once again both the elected and the appointed student residence representatives performed a vital and constructive role in the residence operation. Student participation in all of the residence committees, which are essential if the community is to thrive, was of the highest calibre. During the year the residents participated in many philanthropic and cultural activities. Successful fund-raising campaigns were launched for such worthy causes as Cystic Fibrosis, the United Way and London's Bunny Bundle drive. The residents also supported, in a very strong fashion, the Blood Donor Clinics of the Red Cross. The Cultural Committees in the residences presented interesting and varied programs. Speakers were obtained for such topics as Modern China, writing today, art, plant care, stereo systems, European travel, Transcendental Meditation, and alcoholism. Programs were also presented by professionals on such topics as study skills, rape prevention and family planning.

There were a total of 1,220 beds available in the men's residences, Medway, Sydenham and Saugeen-Maitland Halls. By the end of September a total of 4,813 applications had been received for this accommodation, 1,428 from upperclass and graduate students and 3,385 from freshmen, which represented a 2% decrease over the total number of applications received the previous year. Freshmen represented 55% of the residence population and in total there were 64 withdrawals from residence. Twenty-eight of the students who withdrew left the University. The occupancy rate for the academic year exceeded 99.5%.

A total of 1,136 beds were available in the women's residences, Delaware and Saugeen-Maitland Halls. This represented a decrease of 62 beds from the previous year, which may be attributed to the closing of Spencer Hall as a residence. By the end of the period a total of 5,122 applications had been received for this accommodation, 1,306 from upperclass and graduate students and 3,816 from freshmen, which represented a 12% increase over the total number of applications received the previous year. Freshmen represented 65% of the residence population and there was a total of 55 withdrawals from residence, of which 31 withdrawees left the University. The occupancy rate for the academic year exceeded 99.5%.

In 1976 the residences hosted approximately 5,100 visitors. This group was comprised of 410 Intersession and Summer School students, 817 casual student visitors, 715 students participating in Conference Groups, and 3,100 adult Conference Group participants. These registrants resulted in a total of 38,656 bednights. The total revenue derived from the 1976 summer operation, which includes all of the above participants, was \$704,000. This total includes \$298,000 for residence accommodation and \$286,000 for residence food services. Thus other campus services derived \$120,000 from the operation of Summer Groups. The overall total revenue of \$704,000 for 1976 compares with a total revenue of \$732,000 for the previous year. However, the expenses associated with the conference operation were considerably reduced. Residence rates for accommodation and meals were increased approximately 10% for the 1976 summer season.

Once again the apartments continued to be financially sound. By the end of the fiscal year, a small deficit of \$2,000 arose which represents less than .3% of the budget. The accumulated Operating Surplus in the apartments now stands at \$78,000. It is anticipated that a large portion of these reserves will be utilized to offset the higher vacancy factor that may arise next year as the result of the conversion of these units to occupancy by single students. The Apartments Reserve Accounts total \$245,000. During the period there were 446 applications for the 300 one-bedroom apartments and 144 applications for the 99 two-bedroom apartments. The year saw 169 one-bedroom apartments and 45 two-bedroom apartments become vacant. The apartments were filled for the academic year and the occupancy rate for the whole year, based on the total possible rental income, was 99.75%.

In the spring approximately 1,800 housing rental applications were mailed to landlords who had listed the previous year, with a view to soliciting re-listings. From this mailing, advertising in The Free Press and Cablecast Television, a letter to the Alumni living in the London area, and a poster campaign, 2,465 listings were received. As there is an average of 2.5 beds per unit listed, these listings represented a total of 6,162 beds that were available to "off-campus" students. At the end of September, by which time the vast majority of the students have obtained their accommodation, there were still 367 listings or 917 beds available.

In 1976/77 the University continued its membership in the London Property Management Association, which proved to be an excellent forum for discussing the mutual housing concerns that affect both landlords and student tenants.

As a result of the expansion of the Housing Department's operation, three new positions have been created, namely an Executive Assistant to the Director of Housing, and a Manager and clerk of the Platt's Lane/Single Student Apartments' operation. These will be filled, respectively, by Ms. Janet Hacker, Mr. Bertrum MacDonald and Ms. Lou Henry.

UNIVERSITY COMMUNITY CENTRE: Ms. W. S. McKellar, Director

Several new members joined the staff this year: Peggy Overholt, Office of the Director; Stu Ferguson, Senior Supervisor, Tavern; Rosemary Rosier, Office of the Director; and Judy Robertson, Athletic and Recreational Services Co-ordinator.

The 1976 and 1977 Chairmen were employed in the Office of the Director during the summers of '76 and '77, respectively. This policy greatly increases the knowledge and effectiveness of the UCCD Chairman and provides opportunity for close liaison with the Director. In addition to full-time staff, the UCC employed 180 students on a part-time basis in the Tavern, Athletic and Recreational Services, Music Listening Lounge, Games Room and Information Desk.

A new University Community Service, called Athletic and Recreational Services, became operational in March, 1977 after very considerable planning over a period of months. This service was established by the Director and Financial Planning, on the recommendation of the University Auditor, and with the approval of the Faculty of Physical Education. It is an all encompassing

service to consolidate selling of all game tickets, recreational facilities cards, guest passes, apparel and locker tokens, refunds and instructional class registrations. It is anticipated that this operation will improve service to the customer, increase the attendance at games and properly account for the cash transactions in all the various services.

This year has seen some physical additions and improvements to the building itself to comply better with the needs of the users and tenants and to promote the areas directly accountable to the UCCD, i.e. Programming, Artcraft Studio, Tavern, Music Listening Lounge, as well as Piccadilly Square. There is an on-going campaign against litter and sign posting in non-designated areas, to enhance the atmosphere and surroundings.

With the "basic office machinery" in operation and functioning more efficiently, management procedures have been revised in the Artcraft Studio and the Games Room. These revisions and new procedures are beginning to produce favourable results.

The Headlines Hairgrooming Lease was successfully re-negotiated. This was the first time the Directorate has had any input to the Office of the Comptroller on a lease negotiation. During the negotiations it became apparent that the process itself needed revision. The Director's recommendations to the Director of Student Services for more direct involvement by the Director on behalf of the Directorate, has been approved by the Vice-President, Administration and Finance.

An agreement with the Office of the President, arrived at last year, concerning selling merchandise in the UCC will shortly be approved in writing. This "amendment" to the existing policy of the Board of Governors was essential to the presentation of some UCCD Program Events and also to clarify a policy that would be consistent for all.

The 1976 Chairman of UCCD visited centres at the University of Ottawa, Carleton, McGill, Guelph. The 1977 Chairman attended a week-long student-staff seminar at the University of Illinois. Also, the Directors of some Ontario and Quebec campus centres met three times (at the University of Guelph, Toronto and Queen's) to exchange ideas, compare operations and attempt to solve mutual problems. The Director also had the opportunity to visit the University Centres at the University of Manitoba and the University of Alberta.

The Program Events that were on-going and successful last year (Noon Hour Concerts, Film Series, Boutiques, Artcraft Show and Sale) have been repeated this year and improved upon, offering more variety and better quality in performance and presentation. New this year were the Games Tournaments, Barbecues, Photo Contests, Alumni Homecoming Dance, Coffee Houses, Sunday Nine O'Clock Concerts. These were moderately successful in terms of audience response but of top quality in fare offered. This type of programming must build a following and reputation and is more difficult to market effectively.

The UCC cooperated with the University Students' Council in the programming for Orientation, Winter-Week and International Day. There were also a pre-election forum, and theatre group previews, as part of the Centre Spot

programs. During the summer months the University Community Centre was asked to host the County Council Day, and to conduct numerous tours for student cadets from the Ipperwash Army Camp. Planning is underway for the University Community Centre to house a PUC summer camp program in the visual and performing arts.

Plans for the coming year include the development of mini-courses covering areas not presently offered elsewhere on campus, using existing academic and non-academic staff. It will also be necessary to begin to systematically collect information on existing operations to assist in the process of policy formulation and review. Finally, it will be necessary to attract more student manpower to support the expanding program structure.

The Department of Alumni Affairs

Report of the Director

Mr. Nigel Bellchamber

During the 1976-77 year the Department of Alumni Affairs operations continued to expand in scope, while traditional functions and events were maintained. As a result of the Fall and Spring Convocations, over five thousand new alumni were added to the records, bringing the total to over sixty-one thousand.

Homecoming 1976 saw over forty class reunions, the continuation of the Alumni Award of Merit Buffet, Alumni Registration, the Donut Dunk, the Presidents' Tours and the initiation of a Saturday evening Dinner/Dance. In all, over two thousand people participated in the various events.

The Alumni Gazette continued to be published quarterly and received a continued high level of praise from alumni. Also published were a number of specialized newsletters including ones for London, Law, Engineering Science, Physical Therapy, Chemistry and Geography. The purpose of these was to communicate on a more personal level than is possible through the Alumni Gazette.

Other traditional programs included support for the Great Artists' Concert Series (10 concerts), the annual Spring Festival (98 patrons), promotional support for Nursing Alumni Seminars, liaison with existing Branches in Elgin and Essex Counties, the Presidents' Western Tour (five cities in five days), and the establishment of two new branches in St. Catharines and Brantford.

The Annual Alumni Development Fund raised \$78,926.72. Included in this total was a special appeal to Geography graduates to bolster the E. G. Pleva Scholarship which raised \$2,610.00 during the 1976-77 year. Each of the above areas demonstrated continued strength of the programs, and in many cases significant improvements. However, the most significant activity took place in the planning area on three fronts--the Foundation Western Study, the development of the Senior Alumni Programme and planning of the Alumni celebrations for the 1978 Centenary of the University.

The Foundation Western Study involved six committees, thirty-five alumni, and hundreds of hours and culminated in a proposal which was approved for implementation by the Board of Governors in June. The Foundation is expected to be in full operation by the Fall of 1978.

The Senior Alumni Programme was developed to bring London area retired graduates, their spouses and friends, into closer contact with the Association and with Western. A twenty-part seminar/discussion program is planned for the Fall of 1977.

Centenary plans were distilled to the point that the Alumni Association decided to concentrate on four specific areas. These were the publication of a special issue of the Alumni Gazette in March of 1978, the holding of Round-the-World Birthday Parties on Founder's Day, March 7, 1978, an expanded Homecoming program, and a Centenary Speakers Series.

CENTRE FOR RADIO SCIENCE

Report of the Director

1976-77

The Centre continues to prosecute a broad program of research in the basic and applied aspects of electromagnetic wave propagation. The research program has undergone significant expansion over the past year. One factor responsible for this expansion is the contribution made by the two new members from the Faculty of Engineering Science, Dr. Z. Kucerovsky and Dr. J.W. MacDougall. Another factor is the involvement of the Centre in a number of cooperative projects with scientists at other universities and at government laboratories. An example of this activity is the involvement of a number of Centre members in the planning of a future Canadian scientific satellite. This group has undertaken the principal responsibility in designing one of the instruments which will complement the observations made by instruments being designed by groups at other universities and government laboratories.

The total grant funding for the last three years and for the current year is as follows:

1974-75	1975-76	1976-77	1977-78
115,000	123,700	184,400	202,742

An accurate figure for the total contractual funding is more difficult to predict because contracts are negotiated at various times during the year but it is anticipated that this funding will be no less than \$120,000. One new contractual undertaking that is continuing this year involves the measurement of propagational characteristics of radio waves in the UHF television bands. Some sixteen channels are being monitored and recorded in computer compatible form. The path lengths all exceed 100 miles and analysis of the data is intended to provide a better understanding of the anomalous propagation that occurs frequently in the vicinity of the Great Lakes.

In each of the last two years, as part of its program of fundamental research the Centre has sent an expedition to the Arctic (Cambridge Bay and Cape Parry) to investigate a recently discovered feature of the Arctic ionosphere. This work has been supported by negotiated incremental grants from NRC as part of the world-wide International Magnetospheric Study. The original plan was to pursue this work with single expeditions in each of the next several years. It is now clear that the ionospheric characteristics revealed in these studies have important

implications for future satellites which are being planned to monitor the ocean surface. As a result, the Department of Communications has proposed a cooperative contractual arrangement whereby the Centre would be funded to accelerate the program so that observations could be carried out at Cambridge Bay for part of every month of the year for approximately two years. This arrangement will permit the Centre to move ahead much more rapidly in the study of an interesting natural phenomenon and at the same time provide the governmental agency with the information which is needed in the design of the satellites.

The present strength of the Centre is

Full Members	14
Associate Members	16
Student Members	5

THE COMPUTING CENTRE

Report of the Director

Mr. G. T. LAKE

Computer services use continued to grow in 1976/77. New applications are found and exploited as members of the academic community continue to find new ways to improve their productivity through the use of this tool.

The aging PDP10 timesharing system gives cause for concern, as new demands for its services arise and increase pressure on this limited resource. The system, installed in 1968, reached its capacity in 1974. Restrictions on use and a lower quality of service under overload conditions have limited growth and caused users to seek alternatives through installation of local departmental facilities.

During the year a decision was made to purchase the Cyber 73 batch computer system which had been leased since 1972. This system is expected to have at least three more years of useful life and purchase at this time resulted in a net saving in costs. As part of the financial plan for this purchase, funds have now been earmarked to meet this aspect of computing needs into the long term future.

Equipment maintenance activities continued to grow in 1976/77 and by year-end the Centre had most of the terminals and minicomputers on the Campus under contract and some equipment in the nearby University Hospital as well, all on a full cost recovery basis. Other activities growing out of this have been contracts to write and maintain software on user-owned systems and a brokerage service to assist users to acquire used minicomputer equipment for special research needs at reduced costs.

User Jobs Processed Annually 1966 - 1977

Year*	Batch Jobs				Time Sharing		
	IBM 7040	Cyber 73	PDP10	Off Campus	Sub Total	PDP10	Total
1966/67	40577	-	-	-	40577	-	40577
1967/68	62016	-	-	-	62016	-	62016
1968/69	77988	-	-	-	77988	-	77988
1969/70	66939	-	32914	288	100141	29925	130066
1970/71	40070	-	36664	8299	84963	33045	118008
1971/72	16929	35539	44666	5681	102805	54844	157649
1972/73	-	118684	9701	811	129196	75191	204387
1973/74	-	157773	8105	325	166203	90452	256655
1974/75	-	210101	6779	247	217127	111293	328420
1975/76	-	243114	4238	304	247656	102088	349744
1976/77	-	261224	3745	124	265093	100025	365118

* for the period May - April 30 annually

REPORT OF THE DIRECTOR
UNIVERSITY COUNCIL ON ANIMAL CARE
1976-1977

Dr. D.H. Percy

The Council meets on at least two occasions during the academic year (Chairman: Dr. T.K. Bourns, Department of Zoology). The Council is concerned with various related aspects including monitoring of animal experimentation, animal housing and care, appropriate financial support for animal care programs, and health care programs for those involved in this field.

A) ACTIVITIES

(1) Research/Teaching Protocols

Animal facilities at this University are registered separately with the Ministry of Agriculture and Food, Ontario (Cancer Research Laboratory, Health Sciences, Psychology, Zoology). In accordance with the regulations of the Animals for Research Act, protocols for all procedures using animals are updated and reviewed each year.

(2) Visits from the Veterinary Services Branch in accordance with the "Animals for Research Act".

Several unannounced visits have been made by representatives for this Act. Recommendations have been noted and acted upon.

(3) Course for Certification by the Canadian Association for Laboratory Animal Science (C.A.L.A.S.)

A course was given to animal technicians wishing to be certified in 1977. All five candidates were successful in their written and oral examinations for Laboratory Animal Technician (LAT) or Senior Laboratory Animal Technician (SLAT)

(4) Diagnostic Laboratory, Laboratory Animal Services

The Laboratory is located in the Medical Sciences Building and functions as an area to monitor and identify disease problems in the animal colonies on campus. Necropsies performed from July 1, 1976 to June 30, 1977 : 272. Species most commonly processed were: rabbit, mouse, dog, rat, cat, guinea pig and non human primate.

B) ACTIVITIES AT THE LOCAL LEVEL

(1) Health Sciences and University Hospital Animal Care Committees

(Chairman: Dr. R.B. Philp, Health Sciences; Dr. W.A. Black, University Hospital)

Physical improvements made in the Health Sciences area include the repainting of corridors and reconstruction of the outside dog runs. The majority of animals previously housed in the animal holding rooms, University Hospital, have been relocated in the Health Sciences Animal Quarters.

(2) Cancer Research Laboratory (Chairman of Animal Care Committee: Dr. J.A. McCarter).

No problems were encountered during the past year.

(3) Department of Psychology (Chairman of Animal Care Committee: Dr. N. K. Innis).

No major problems have been encountered during the past year.

(4) Department of Zoology (Chairman of Animal Care Committee: Dr. W.H. Tam).

The animal facilities in the Collip Building during times of peak animal usage are less than adequate. A specific solution has not been agreed upon at this time.

DEPARTMENT OF FINANCE

Report of the Director

W.S. McBride

This report is presented under the following headings:

- University Financial Results for the Year Ended April 30, 1977.
- Changes in Provincial Funding Policies.
- Summary of Finance Department Activities.

University Financial Results for Year Ended April 30, 1977

The financial results for the year were somewhat better than had been anticipated in the budget. A brief analysis of the basic operating budget, ancillary operations, assisted research and capital funds is outlined below:-

(a) Basic Operating Budget

A comparative statement of operating revenues and expenses is shown on page 275. A summary is as follows:-

Year Ended April 30, 1977

	<u>Budget</u>	<u>Actual</u>
	(\$000's)	
Revenue	81,286	81,229
Expenses	<u>82,383</u>	<u>81,542</u>
Surplus (Deficit)	<u>(1,097)</u>	<u>(313)</u>

The University completed the year with a deficit of \$313,000 compared with a projected deficit of \$1,097,000. The improvement of \$784,000 in financial position was entirely a result of reduced expenditures as revenues were slightly below the budget.

With regard to revenues, total tuition fees for full-time, part-time and continuing education students were \$570,000 below budget due to lower than projected enrolment. This shortfall was almost entirely offset by a small increase in provincial grant revenue and by a significant increase (\$386,000) in investment revenue.

Expenditures were \$841,000 or 1.0% below budget. The variation from budget was less than in previous years, which was primarily a reflection of more stringent budgeting procedures. The underspending occurred in a broad range of academic, academic support and administrative units in both salary and non-salary expense categories and reflects a continuing effort by the University community to reduce spending.

The University's operating reserve was reduced from \$1,954,000 to \$1,648,000 as a result of the deficit that was incurred during the year.

(b) Ancillary Operations

A summary of financial results for the ancillary operations is shown below, with detail by individual unit shown on page of this report.

	<u>Year Ended April 30, 1977</u>	
	<u>Budget</u>	<u>Actual</u>
	(\$000's)	
Revenue	14,025	13,845
Expenses	<u>14,135</u>	<u>13,981</u>
Surplus (Deficit)	<u>(110)</u>	<u>(136)</u>

The 10 ancillary operations had a combined deficit of \$136,000 for the year compared with the budget projection of \$110,000. Both revenue and expenses were slightly below budget for the year. At the end of the year, the ancillaries had operating reserves of \$552,000 and special reserves for the replacement of equipment, furnishings and major building components of \$1,648,000.

(c) Assisted Research

	<u>Actual for</u>	<u>Actual for</u>
	<u>Year Ended</u>	<u>Year Ended</u>
	<u>Apr. 30/77</u>	<u>Apr. 30/76</u>
	(\$000's)	
<u>Source of Research Funds</u>		
Government Agencies		
- Federal	7,523	7,509
- Provincial	939	672
- Foreign	207	78
Foundations, Associations and Societies	2,459	1,753
Corporations	1,168	1,203
Donations, Bequests and Other	<u>1,155</u>	<u>872</u>
Total	<u>13,451</u>	<u>12,087</u>

Total research funds received by the University from all sources increased by 11.3% during the year ended April 30, 1977. However, there was almost no increase in the amount of research funds received from the Federal government agencies, traditionally the largest sponsor of university research activities.

(d) Capital Funds

<u>Source of Funds Expended</u>	Actual for Year Ended <u>Apr. 30/77</u>	Actual for Year Ended <u>Apr. 30/76</u>
	(\$000's)	
Government Grants		
- Ontario Universities Capital Aid Corporation	616	662
- Ontario Health Resources Development Plan	338	1,110
- Ministry of Colleges and Universities	276	216
Central Mortgage and Housing Corporation	4,092	-
University Funds	<u>840</u>	<u>1,554</u>
Total	<u><u>6,162</u></u>	<u><u>3,542</u></u>

Funding from the Ontario Universities' Capital Aid Program and the Ontario Health Resources Development Plan continued at low levels during the year, reflecting Provincial government policy relative to new capital projects. During 1976-77, the University spent \$276,000 on energy management, repair and maintenance, and cost savings projects as a result of grants received from the Ministry of Colleges and Universities for these purposes.

Funds received from Central Mortgage and Housing Corporation for construction of the Platt's Lane housing project amounted to \$4.1 million during the year. This project will be completed in August, 1978 at a total cost of \$10.3 million.

University funds expended on capital projects amounted to \$0.8 million. These expenditures were for the following projects:

	<u>(\$000's)</u>
- Spencer Hall Conversion (a)	594
- Chemistry Addition - Faculty of Science	124
- Variable Ventilation Project	43
- Other	<u>79</u>
	<u><u>840</u></u>

(a) Will be recovered from the Bank of Nova Scotia.

2. Changes in Provincial Funding Policies

There were some significant changes in Provincial funding policies during the year. These are summarized below:-

(a) Formula Sensitivity to Undergraduate Enrolment Change

A further step was proposed by the Ontario Council on University Affairs in Advisory Memorandum 76-VII to reduce the sensitivity of the Operating Grants Formula to changes in undergraduate enrolment. It was proposed that, beginning in 1978-79, the average number of eligible undergraduate B.I.U.'s reported by each institution during the years 1974-75, 1975-76 and 1976-77 be deemed the Undergraduate Formula Funding Base of each institution. It was also proposed that, beginning in 1978-79, undergraduate formula grants be calculated with reference to the Undergraduate Formula Funding Base plus or minus a proportion of the difference between the number of B.I.U.'s in the Formula Funding Base period and in the three year period immediately preceding the grant year. For 1978-79, the proportion or "discount factor" referred to above will be 50%. These proposals were accepted by MCU on March 23, 1977.

This change in policy gives implicit recognition to the fact that both fixed and variable costs exist in the university system and that revenues should not vary, either up or down, on the basis of "average costs" per student. This policy will be of considerable benefit to the university system in view of the declining enrolments anticipated within the next few years.

(b) Capital Assistance

OCUA Advisory Memorandum 76-VIII, which was accepted by the Ministry on March 23, 1977, clarified government policy in respect to capital assistance as follows:-

- (i) Under the immediate circumstances of extremely limited funding, capital grants would be distributed on the basis of Ministerial discretion rather than by a capital grants formula.
- (ii) Funding for new construction that adds to institutional space would only be available in accordance with very specific and limited conditions.
- (iii) Funding would be available for building renovations, alteration and replacement projects in accordance with eligibility guidelines and criteria set out in the Memorandum.

(c) Government Policy on Expenditure Control

The Provincial Budget presented April 19, 1977 included a paper entitled "Towards a Balanced Budget". This paper set out a policy of stringent expenditure control with the objective of achieving a balanced provincial budget by 1980-81. The announced level of provincial funding for the Ontario university system in 1978-79, representing an increase of only 5.8% over the current year, is a clear reflection of the expenditure restraint policy.

Summary of Finance Department Activities

Brief comments on Finance Department activities during the year are outlined below:-

(a) Long-Range Planning

The Department worked closely with the Office of the President and other departments in the further development of a long-range financial planning process for the University. In view of projected enrolment and revenue trends, the necessity to look several years into the future is obvious.

(b) Improvements in Effectiveness

The Department devoted considerable time and effort, with the assistance of the Department of Information Analysis and Systems, to the development of more effective systems and procedures. The following were the more significant projects:

- (i) A new system to record and distribute investment revenue.
- (ii) A revamped Research Accounting system to provide an improved level of service to research grantees.
- (iii) A system to computer produce the monthly performance statements of the ancillary operations.
- (iv) A reorganization of the Accounts Receivable function.

(c) Corporate Subsidiaries

The Department was actively involved with the operation of two wholly-owned subsidiaries, Photochemical Research Associates Inc. and Platt's Lane Estates Inc., which were formed in 1976. More recently, the Department has assisted with the formation of Spencer Hall Foundation, a joint venture with the

Bank of Nova Scotia to establish a continuing education centre, and of the Museum of Indian Archeology, a non-profit corporation which will develop a museum of Indian artifacts at Western.

(d) Investment Management

The Department continued to manage the University's investment portfolio which had an average value during the year ended April 30, 1977 of \$24.2 million. The average rate of return on the portfolio was 9.84%.

The Department also assisted with an in-depth review of University pension fund investment management.

(e) Management of Insurance Portfolio

The total University insurance program was reviewed and policies were consolidated where possible. An increase in the level of self-insurance was recommended and approved in order to moderate the sharp rise in insurance costs.

(f) Equipment Inventory Project

The project to establish an equipment inventory system continued during the year and will be completed in 1978. The system will provide for improved control of University assets and will also provide the basis for establishing a long-range equipment replacement program.

(g) Student Loan Plan

The Department has worked closely with the Office of Student Financial Aid and with the School of Business Administration to revamp the University Student Loan Plan. This Plan is funded by donations which have been made to the University over the last several years for this specific purpose.

THE UNIVERSITY OF WESTERN ONTARIO

STATEMENT OF BASIC OPERATING REVENUE AND EXPENSE

YEAR ENDED APRIL 30, 1977

(with comparative amounts for the year ended April 30, 1976)

\$000's

	1977		1976	
	\$	%	\$	%
Revenue:				
Government grants for operating purposes:				
General -				
Province of Ontario	62,480	76.9	54,424	75.0
Municipal - City of London	150	0.2	150	0.2
- Other	39	-	36	-
Restricted - Province of Ontario				
Summer school language programs	62	0.1	47	0.1
Municipal taxation reimbursement	814	1.0	773	1.0
	<u>63,545</u>	<u>78.2</u>	<u>55,430</u>	<u>76.3</u>
Other:				
Student academic fees	12,394	15.3	12,199	16.9
Income from investments (including general endowment)	1,416	1.8	1,323	1.8
Gifts and grants for operating purposes	117	0.1	110	0.1
Salaries recovered from hospitals, etc. on joint appointments	2,605	3.2	2,435	3.4
Athletics	610	0.7	593	0.8
Miscellaneous	542	0.7	516	0.7
	<u>17,684</u>	<u>21.8</u>	<u>17,176</u>	<u>23.7</u>
Total revenue	<u>81,229</u>	<u>100.0</u>	<u>72,606</u>	<u>100.0</u>
Operating expenses:				
Academic - Faculties and Schools	49,486	60.7	45,015	60.6
- Support units including libraries	11,321	13.9	10,050	13.5
Administration	5,084	6.2	4,404	5.9
Plant operation and maintenance	8,055	9.9	6,968	9.4
Unallocated staff benefits	6,420	7.9	6,641	8.9
Other expenditures	1,176	1.4	1,268	1.7
Total operating expenses	<u>81,542</u>	<u>100.0</u>	<u>74,346</u>	<u>100.0</u>
Surplus (Deficit)	<u>\$ (313)</u>		<u>\$ (1,740)</u>	

THE UNIVERSITY OF WESTERN ONTARIO

STATEMENT OF REVENUE AND EXPENSE OF ANCILLARY OPERATIONS

YEAR ENDED APRIL 30, 1977

(with comparative amounts for the year ended April 30, 1976)

\$000's

	<u>REVENUE</u>	<u>OPERATING EXPENSES</u>	<u>DEBT RETIREMENT</u>	<u>APPROP- RIATIONS</u>	<u>TOTAL EXPENSES</u>	<u>EXCESS OF REVENUE OVER EXPENSES</u>
Apartments	\$ 783	\$ 457	\$ 262	\$ 65	\$ 784	\$ (1)
Book Store	2,979	2,932	-	-	2,932	47
Co-Ordinated Shops	389	434	-	12	446	(57)
Food Services	2,263	2,277	-	15	2,292	(29)
Parking	371	294	-	40	334	37
Printing Services	782	715	-	33	748	34
Residences	4,567	3,955	402	282	4,639	(72)
Student Health Services	463	493	-	-	493	(30)
Thompson Arena	330	253	143	12	408	(78)
University Community Centre	918	668	189	48	905	13
TOTAL 1976/77	<u>\$13,845</u>	<u>\$12,478</u>	<u>\$ 996</u>	<u>\$507</u>	<u>\$13,981</u>	<u>\$ (136)</u>
TOTAL 1975/76	<u>\$13,018</u>	<u>\$11,263</u>	<u>\$1,251</u>	<u>\$418</u>	<u>\$12,932</u>	<u>\$ 87</u>

Department of Information Analysis and Systems
Report of the Director
Mr. B.G. Hartwick

During the past year, the service characteristics of the Department continued to mature as the investment of prior years in the formalization of standards and procedures began to bear fruit.

The demands for service have continued to increase as many departments have turned to systematization in their efforts to balance the pressures for quality improvement with the implications of constrained budgets and increasing external accountability.

The Department's role in supporting management planning at the departmental, faculty and institutional level, through consistent and reliable analysis and professional systems design, has retained its high credibility in the community as problems and decisions have become more complex and the use of sophisticated techniques more acceptable.

Systems and Programming Section:

The energies of the Systems and Programming Section during the past year have been primarily devoted to the completion of projects initiated in the preceding year and refinements to existing production systems. A few of the specific projects are as follow:

- Development of a new Research Accounting System and an Investment/Trust and Endowment System for the Department of Finance.
- Major improvements to the Catalogue Support System and initiation of a more comprehensive Serials System for the Library.
- Development of a system for the Registrar to produce a wide variety of machine generated letters, completion of the new Admissions System and initiation of the analytical phase for the eventual integration of student and admissions data.
- Development of a Residence Assignment and Monitoring System for Student Services.
- Completion and implementation of an "Action Order" System for Physical Plant.

- Modification of the Alumni System to provide receipts for donations.
- Successful completion of high profile Methods Analysis projects in the Faculties of Law and Nursing.

As in every year, a substantial portion of the available Systems and Programming manpower was devoted to maintenance projects arising from changing circumstances and new requirements. In addition, considerable effort was required in support of the teleprocessing system conversion initiated during the past year and to accommodate the implementation of new software and hardware.

Operations Section:

Production pressures increased sharply this year as volumes continued to rise and deadlines became even more compressed. The implications of a further expansion of teleprocessing service in the context of a steadily growing batch processing demand, are manifesting themselves in greater scheduling contention, intrusion of night production into the day-shift commitments and an increasing number of week-end shifts.

The life potential of the current hardware was significantly extended through a cost-effective conversion and expansion of IBM memory and disk to CDC memory and disk and the acquisition of additional second-hand tape drives.

The introduction of new software facilities for the programme library and the automatic generation of test data, as well as the initiation of a Data Dictionary System, increased the burden on a Technical Support staff already heavily committed to the conversion of our teleprocessing monitor, maintaining the Operating System and converting the hardware peripherals.

The Data Preparation service of the Department continues to cope with the ever rising volumes through demonstrable increases in productivity. The Key Edit 1000 system installed last year currently supports 25 terminals and continues to meet all of its specifications.

Analysis Section:

The nature of the services of this section of DIAS has continued to evolve, with greater and greater emphasis on operations analysis as the activities of the group have become embedded in the routine of several of our client departments, faculties and committees. Analytic reporting on planning criteria such as

grade distributions, admissions standards, enrolment trends and section sizes, as well as the use of models such as the faculty and student flow models, are now an integral facet of the University's planning and decision processes.

In addition to the dozens of studies and analyses which have been performed during the past year for various clients and frequently incorporated into their deliberations, this section of the Department has been quite perceptive in its assessment of the impact of such external influences as the new count procedures and indeed, has successfully accommodated the new and much more complex procedures with a professional style and control that remain the envy of our sister institutions.

Data Base Section:

The activities of this section of the Department are embryonic, but already the effect on our procedures is in evidence. In addition to their responsibility for coordinating performance monitoring and standards within the Department, this group has been actively engaged during the past year in the implementation of a Standard Department Code Table and the introduction of the Data Dictionary System, both of which are designed to increase the control and rationalization of the institutional data base in preparation for possible Data Base Management activity.

General Activities:

During the past year, the Department has been fairly active on several external ventures, including the sale of software to an American software firm and the sale of several application systems and services to other universities. Similarly, DIAS has continued to act as an agent for the Ministry in punching financial aid applications, thereby providing a unique level of service for Western students.

Also during the past year, the Department successfully bid for a large international Data Processing conference for colleges and universities to be held in conjunction with the Centenary activities in 1978, a conference which never before in its twenty-three year history, has convened outside of the United States.

The Department of Information Analysis and Systems by the very nature of its function and responsibilities, must devote considerable effort to resource planning, project control and

accountability and therefore, extension of our planning into a five year institutional level context, as was initiated by SCUP this past year, was logically accommodated within the existing activity. The proposed reconciliation of the planning and budget processes in future iterations should benefit the University as a whole and provide an opportunity for critical resource situations to receive necessary exposure and recognition.

Report of the University Art Curator

McIntosh Art Gallery

Maurice C. Stubbs

The gallery featured eighteen exhibitions during the year, thirteen of which were arranged by the staff. The National Gallery of Canada provided a major showing of Romanesque Sculpture from its permanent collection and the Art Gallery of Ontario loaned an invitational Canadian print exhibit called IMPRINT '76. Other interesting exhibitions were lent by the Canadian Craft Council, the National Film Board and four individual print makers.

One of the most popular shows Electric Art at the McIntosh was arranged by Daniel Miller, Assistant Curator in cooperation with the Electric Gallery, Toronto. Other important showings were Walter Redinger's Landscape and Megalith and Richard Tuttle.

There was an exceptional increase in the number of films complimenting the exhibition program. Sixty seven films on art were featured in one hundred showings.

Lectures were presented by Nathan Stolow, Special Advisor (Conservation) to the Secretary of State, Richard Tuttle an artist living in New York and Alan McNairn, Assistant Research Curator of European Art at the National Gallery of Canada.

Artists Walter Redinger and Z. Blazetje gave slide talks relating to their exhibitions.

Paintings from the University Art Collection were loaned to six exhibitions in major Canadian Galleries. Three of these were away for a year in touring exhibits arranged by the Art Gallery of Ontario and the London Art Gallery.

Gay Langdon completed her summer appointment in the gallery sponsored by the Ontario Arts Council's Experience '76 Program. Jan Peacock was appointed in May 1977 for the Experience '77 Program.

The gallery staff continues to experience great difficulties with the shipping and receiving of exhibitions. All works of art are presently loaded and unloaded at the main entrance.

Alterations to the downstairs gallery were completed with the addition of facilities for film projection and carpeting of the exhibition space. This expenditure was jointly funded by the Friends of the McIntosh Gallery and the University.

Contributions and memberships to the Friends were received from 93 individuals, family, student and corporate groups representing a total revenue of \$1,915.00. Members received regular copies of the "Bulletin" in addition to catalogues, invitations and other program information.

The curator juried art exhibitions at the Tom Thomson Gallery, Owen Sound and for Western Fair Association, London. He was elected as a Director of the Ontario Association of Art Galleries and re-elected to the Board of the University Art Association of Canada. He is also a member of an advisory committee for the Art Gallery of Ontario Extension Department.

The Assistant Curator attended general meetings of the Ontario Association of Art Galleries in Kitchener and London.

Attendance at the exhibitions in the gallery was 12,312 persons. The number of supervised tours by high school and other community groups increased to 27 visits.

LECTURES

- | | |
|-------------------|---|
| November 2, 1976 | Electric Art
Z. Blazeje, Toronto Artist |
| November 7, 1976 | Arts Fakes and Forgeries in Canada
Nathan Stolow Ph.D., F.I.I.C., F.C.I.C.,
Advisor (Conservation) Secretary of State |
| December 1, 1976 | Richard Tuttle Exhibition
Richard Tuttle, New York artist |
| February 17, 1977 | Neo Platonism at the school of Chartres and
the end of Romanesque Sculpture
Alan McNairn, Assistant Research Curator of
European Art, The National Gallery of Canada |

SPECIAL EVENTS

October 7, 1976 - Special Preview of the new film "Walter Redinger" introduced by Peter Crass, Producer and Director.

February 18, 1977 - Terrill Maquire Dancer - The 15 Dance Laboratorium, Toronto.

SEMINARS

October 11, 1976 - The Artist and the Art Dealer - Walter Redinger, Resident Artist.

November 8, 1976 - Conservation Practice and the Organization of Art Exhibitions, Nathan Stolow Ph.D., F.I.I.S., F.C.I.C., Special Advisor (Conservation) to the Secretary of State.

McIntosh Gallery Programs - 1976-77

Exhibitions, Films, Lectures, Seminars, Special Events

EXHIBITIONSJuly 1-September 5

The University Art Collection

John De Vissier - Newfoundland (photographs)

From the National Film Board

September 8-October 3

IMPRINT '76 - A major invitational exhibition of Canadian prints

October 6-October 31

Landscape and Megalith - Sculpture by the new resident artist, Walter Redinger

Contemporary Canadian Crafts - representing the best Canadian crafts produced in 1975

November 3-November 21

Electric Art at the McIntosh - From the Electric Gallery, Toronto

November 24-January 9Richard Tuttle - A conceptual exhibition arranged by Dr. R.W. McKaskell,
Department of Visual ArtsFour Artist Print makers - four women print makers - June Drutz, Shiela Maki,
Carol Schiffleger and Kay Murray WeberJanuary 12-February 13Visual Arts Faculty Exhibition - University of Western Ontario Department of
Visual ArtsFebruary 16-March 13Romanesque Sculpture - 11th and 12th century capitals organized by the
National Gallery of Canada

Medieval Manuscripts - From the collection of the Royal Ontario Museum

Connie Jefferess - Silent Companions and Other Recent Fibre Work

March 16-April 3

Viewpoint - Jansky, Forrest and Atkinson

John O'Henly - Photographs

April 6-April 24

Visual Arts Graduate Student Show

April 27-May 15

Graduation Show for the School of Fine Art, Fanshawe College

June 1-July 3

Ultrastructure - An Aesthetic Experience

Electron micrographs by University scientists

Presentations - A selection from McIntosh Exhibits shown in 1975-77

FILMS ON ART

- September 23-24, 1976 Matisse
Picasso - Painter of the Century
- September 28-October 1, 1976 Gertrude Stein, When This You See,
Remember Me
- October 7-10, 1976 Walter Redinger
- October 12-15, 1976 See: Walter Redinger
Standing Apart
Noguchi: A Sculptor's World
Contemporary American Sculpture
- October 19-22, 1976 Paul Klee
Mondrian
A Conversation with Marcel Duchamp
Vasarely
- October 25-29, 1976 World of the American Craftsman (Series of 5)
- November 9-14, 1976 12 Canadian Film Makers of the 70's
- November 16-21, 1976 Life Force (Jack Chambers)
Ernest Lindner
Linking Arms (Colette Whiten)
- November 30-December 5, 1976 Emile Nolde
Lovis Corinth
Max Beckman
German Expressionism in America
- January 18-23, 1977 Photography: Dorothea Lange
Photography: The Daybooks of Edward Weston
Atget
- January 25-30, 1977 Ways of Seeing (4 parts)
- February 1-6, 1977 Antonio Gaudi
MacIntosh
Ero Saarinen
- February 8-13, 1977 Kinetics
Alechinsky
The Responsive Eye
- March 1-6, 1977 Art of the Middle Ages
Chartres Cathedral
Exeter
La Cathedrale d'Auxerre
- March 8-13, 1977 Gallery
The Louvre
Will Art Last?
Art Conservator
- March 22-27, 1977 Collector's Pieces
Portrait of a Great Painter - Johann Jongkind
Wedgwood
More by Design
- March 29-April 3, 1977 Futurism
The Bauhaus
Dada
Realms of the Fantastic
- March 2-30, 1977 A Future for the Past
Kelmscott: How it was Saved (In conjunction
with D.B. Weldon Library exhibit 'Conservation')

NEW ACQUISITIONS (1976-77) TO THE UNIVERSITY OF WESTERN ONTARIO PERMANENT COLLECTIONMcIntosh Fund

Parsons, Bruce Model for the Pyramids
lithograph
22½" x 30"

Friends of the McIntosh Fund

Palchinski, John A Many Splendor Thing
print
29 ¾" x 22½"

Tamasauskas, Kazys "Otis" Olympic Splash
print
22½" x 30"

Sacilotto, Deli Great Olympic Thrust
print
30" x 37¼"

Walker, Joy Untitled
print
27 ¾" x 37¼"

Bidner, T. Michael Untitled
print
22 ¾" x 30"

Gifts

Yerxa, Leo Ronald Shackleton Memorial Painting
acrylic on canvas
79" x 36"

Andre, Francois Portrait: Professor R.J. Rossiter
oil on canvas
23 ¾" x 26 ¾"

University Portrait Fund

de Seta, Roberto Portrait: J.P. Robarts, Chancellor
oil on canvas
58½" x 42½"

University Club Fund

Wilson, Tony No. 17 Bare Forest Series
serigraph
24 5/8" x 23 3/8"

Wilson, Tony

Northern Development Fund

serigraph
34" x 24½"

Wilson, Tony

Once Over

serigraph
34½" x 25 7/8"

Maurice Stubbs
University Art Curator

Report of the Artist-in-ResidenceMcIntosh Art GalleryWalter RedingerWork completed as Resident Artist

The 1976-77 year has been personally beneficial in that I have had the opportunity as Resident Artist to develop a body of graphic paintings, drawings and sculptural proposals while on the University Campus. Since I was able to produce a substantial number of pieces, the position of Resident Artist flattered my professional position as it presented a profile to the community at large.

The surprise of the year with regards to my work development has been an introduction of several large graphic paintings. This kind of work had never existed before. These works began in late October and now are nearing the stage of completion for exhibition. These major works are a product of the unique University studio space which the position provided.

I found that the general response to these works was favorable and individuals from the University Community responded with personal interest.

Open Studio Sessions

Among the visitors to my open studio sessions were faculty and students from a number of campus departments as well as various regional artists.

The Past Year's Events

The introduction of my year began with a major one man exhibition at the McIntosh Art Gallery during October. Several encounters and talks were given to various public and secondary schools during this exhibition. After the exhibition I returned to my campus studio with a fresh artistic pursuit in mind. A new body of work did occur and was the major subject of conversation with visitors during the year. I also held slide shows of my past and present work in the campus studio.

Presentations During the Year

I usually presented slides of my own work in giving lectures and often this was an introduction of my work to the students. In dealing with the explanation of my own art to the students I tried to get the audience to relate to the profession of the visual artist. This meant that I was often introducing art to the student and I was careful not to speak down to the student but rather try to relate art in a humanistic manner. If there was a style to my

year as Resident Artist, the fact of humanism in relation to the visual art profession became apparent. I worked very hard at this and feel that I had some success. The artist in this position has an excellent chance for serving the community at large in this manner.

Encounters on Campus

McIntosh Art Gallery - exhibition (one man)
 Museology Class - Visual Arts
 Visual Arts Department - summer school
 St. Thomas Women's Committee
 Beal Technical School
 South Secondary School
 Several Public Schools from London
 Faculty of Education - Dan Logan's class
 Lecture room Visual Arts Department
 London Art Gallery Women's Committee
 Faculty of Music
 London Region Artists and Art Gallery of London meeting
 Cable Cast T.V.
 C.F.P.L. Radio
 Presentation in conjunction with Resident Writer at Medway Hall
 'Professional presentation' - Visual Arts Department
 Faculty of Music - joint venture with composer Peter Koprowski and Dancer Pam Eddleston in multi media presentation with Music, Dance and Sculpture.

Several curators visited my studio, e.g., Paddy O'Brien of London, Dr. Roland Nasgard of the Art Gallery of Ontario in Toronto, Allison Dingle of the National Gallery of Canada and Christopher Youngs of the Art Bank, Canada Council in Ottawa.

Special Events

The exciting part of being Resident Artist is the opportunity to be involved with brilliant minds (student body and Faculty) and the contribution of the artist to this kind of community becomes a reality in talking and working. This in fact did happen with a collaboration of dance, music and sculpture this past year. The project began with Peter Koprowski visiting my October exhibition and seeing a sculpture of mine titled "Megalith". Mr. Koprowski of the Faculty of Music has had previous multi media stage productions in England. He approached myself and dancer Pam Eddleston, also at the University, and asked if we were interested in getting together to try something in multi media involving music, visual arts and dance. We decided to try it and my contribution was part of the sculpture "Megalith".

The first performance was enthusiastically received at the Faculty of Music in February, 1977. What followed has been equally exciting as the three of us decided to rework "Time, Space and Silence" after many people urged us to look into our initial performance and present it again. I am now in the process of redesigning the sculpture and changing its color. The dance choreography is also being altered. We are also planning a major film of this performance during 1977. I am including this project in my report because it is uniquely

the result of being on this campus as a Resident Artist in 1976-77.

National Involvement

I have during the current period completed a commission for the City of Kingston. I have worked as a consultant with the Canada Council and the Department of Public Works for the allocating of grants and art commissions and purchases.

Recommendations

I agree with the present role and working manner of the Resident Artist position. It should relate to the total University Community and at the same time be concerned with its special relationship with the Department of Visual Arts.

I recommend the following:-

- (a) That the Artist-in-Residence work closely with the Dean of the Faculty of Arts, under the guidance of Dr. Rowe.
- (b) That the Resident Artist meet early in the 1977-78 year with key participants e.g., Chairmen of University Departments, interested faculty members who support the visual arts and members of the student council.
- (c) That an outline for potential weekly meetings or talks with the Resident Artist be made during 1977-78.
- (d) That the Dean of Arts supervise the promotion of the Resident Artist to the University Community.
- (e) That the relationship between the Visual Arts Department and the Resident Artist should also be guided by the Dean of the Faculty of Arts.
- (f) That a special meeting should be arranged between the Resident Artist and the Department of Visual Arts. It is important that all members of the Visual Arts Faculty be present to discuss the role and the program of the Resident Artist at the commencement of the Academic Year.

Summary of Recommendations

Continue the position as it is but channel promotion through the Faculty of Arts Office in scheduling of the Resident Artists contribution of talks, lectures and seminars.

The Centennial year is an important year and the Resident Artist could play an important role in promoting the years events.

Walter Redinger
Artist-in-Residence

Office of International Education
Report of the Executive Secretary
A. E. D. MacKenzie.

INTRODUCTION:

The principal role of the Office of International Education is to assist in developing the international dimensions of the university. The Office provides an information service to faculty and students on international development issues; work-study-travel abroad programs; and gives assistance to faculty in the design, funding and implementation of overseas projects.

In order to carry out this mandate the office maintains a good library on resource materials relating to international development and is in contact with a significant number of national and international agencies, governments and other universities, both at home and abroad.

PROJECTS:

1. PROGRAM IN COMMUNICATIONS FOR NATIVE PEOPLES:

The Office assisted the School of Journalism in the development of a program in communications for Native Peoples. Mr. Hugh McCullum, a freelance journalist with extensive experience in the Canadian North conducted the feasibility study and prepared a project report for submission to the Canadian Donner Foundation. The Foundation has agreed to financial support to the program and final approval is pending university agreement.

The initial phase of this program is due to commence in January 1978.

2. THE CANADIAN CENTRE FOR INTERNATIONAL DEVELOPMENT REPORTING:

The Office in concert with the School of Journalism, U.W.O., and the University Laval, P.Q., has spent a considerable amount of time and energy over the past two years in developing the concept of a Canadian Centre for International Development Reporting. During this past year an initial grant was made by the Canadian International Development Agency to the two universities to develop the philosophy, structure and financial implications of such a Centre.

Canadian Centre for International Development Reporting:
(contd.)

The purpose of the Centre will be to increase the understanding of Canadian Francophone and Anglophone student and professional journalists on Canada's role in international development, and on global issues affecting Canada and the developing world.

Consultant for the first phase of the project is Florian Sauvageau, 36, a graduate in Arts and Law at Laval, who holds a diploma in journalism from the University of Paris, and a Master of Journalism degree from the University of Illinois. Mr. Sauvageau, who is bilingual, has worked extensively in both print and broadcast journalism, including terms as a reporter and editor for Le Soleil, reporter and host for Radio-Canada and script writer for the National Film Board. He has also taught journalism at the universities of Laval and Montreal.

Mr. Sauvageau and Professor S. Sharzer from the School of Journalism travelled across the country meeting with editors and publishers of the Canadian print and broadcasting media. Their report, as a result of the meetings, has been submitted to the Canadian International Development Agency and the initial reaction has been very favourable and plans are now underway to establish the Centre in the fall of 1977.

MEDICAL ELECTIVES PROGRAM:

During the year 1976/1977 the medical electives program placed eleven graduating students overseas as follows:

4 to St. Vincent,
1 to Barbados,
2 to Bangladesh,
2 to India,
1 to Nepal,
1 to the Cooke Islands.

The program continues to gain international recognition under the leadership of Dr. J.S. McKim, ably assisted by his Secretary Mrs. H. McBride and Mrs. S. Radcliffe from the Office of International Education.

SEMINAR - CONTROLS & THE CANADIAN MEDIA:

A 3-day seminar on Controls & The Canadian Media, was held on campus in November 1976, under the sponsorship of the School of Journalism, the Faculty of Law, and the London Free Press.

Distinguished speakers included:

Mr. Davidson Dunton, C.C. D.Sc., LL.D., President of the Ontario Press Council and former president of Carleton University;

The Hon. Roy McMurtry, Q.C., Attorney General of Ontario;

Gerald P. Haslam, editor, The Winnipeg Tribune;

Judy LaMarsh, Q.C., author, columnist, broadcaster, former federal cabinet minister;

Charles M. Dalfen, Vice-Chairman of the CRTC;

Mr. Justice Horace Krever, Judge in the Supreme Court of Ontario;

Morris C. Shumiatcher, Q.C., a member of the bars of Alberta, British Columbia and Saskatchewan.

Professor Robert Martin, Faculty of Law, did an excellent job as co-ordinator of the program and the office staff provided administrative and planning assistance.

PUBLIC INFORMATION:

Office staff participated in the 10 Days for World Development program for the city of London, organised the final Bangladesh We Hear You campaign, and were guest speakers at various organizations such as churches, service clubs, schools, etc. In addition, the office invited Bishop Ben Ogwal, exiled bishop of Northern Uganda, to a public lecture on campus.

A rewarding day was spent at the University Community Centre on "International Student's Day" March 10. Student questions ranged from work, study, travel abroad programs to possibilities of funding, scholarships, etc., and has resulted in an extra flow of students to the office.

PUBLIC INFORMATION:
(contd)

Office Library:

Despite budget restrictions the office has managed to keep up the high standard of its resource materials. Materials on major topics such as Energy; Food; Population; the New International Economic Order, UNCTAD, etc., are used extensively by faculty, students and often by faculty and students of other universities and people from the London community.

Work/Study/Travel Abroad Programs:

During the year 1976/77 the number of students coming to the office to seek assistance on study, travel and work abroad programs has increased tremendously, perhaps as a result of the high unemployment rate prevalent in Canada. Similar inquiries have also come from the London community, secondary schools, community colleges, and university faculty.

Also available in the office are files on job opportunities with international organizations such as U.N.E.S.C.O., W:U.S.C., and C.U.S.O.

Bibliography:

Mrs. Radcliffe of the Office and Ms. C. Troughton from the Cross-Cultural Learner Centre spent a considerable amount of time researching and putting together a bibliography on 'International Development Teachers Resources and Curriculum Materials' for the Canadian Teachers Federation meeting in Moncton, N.B.

Issues of interest in the bibliography, to name a few, are:

- Development Education,
- Ideas for teaching about development,
- Education model,
- List of resource groups,
- Francophone materials,
- Learner Centres,
- Selected Key resource organizations(annotated)
- Embassies,
- Film Distributors,
- Comprehensive checklists of resource organizations, etc.

It is hoped that this bibliography will have a market in the elementary/secondary schools in the Province of Ontario.

CUSO:General Information:

Below is the CUSO activities report for the year 1976/77:

Number of information sessions	3
Number of enquiries received	30 (approximately per month)
Number of consultations with interested persons	30 (approximately per month)
Number of selection interviews	10

Pre-Orientation Activities:

In conjunction with a local development education association a series of seven evening sessions on general development were held, and covered topics such as South Africa, The New International Economic Order, Food & Energy, Colonialism, etc. Most of the CUSO applicants in London attended these sessions. Several informal social evenings were also held for returned volunteers and applicants in order to discuss about overseas experiences and applicants concerns.

Development Education Activities:

CUSO participated in a film series on campus with several other development groups, i.e. The Office of International Education, WUSC, Canadian Crossroads International, and the Cross-Cultural Learner Centre, under the title "CINEMAN". These series commenced in November 1976 and concluded in March 1977, and all were well attended. A list of the film names and approximate attendance is as follows:

NOVEMBER	JACKAL OF NAHUELTORO	80
NOVEMBER	THE HARDER THEY COME	300
JANUARY	ONE MAN'S CHINA	150
FEBRUARY	SWAPO (NAMIBIA)	80

CUSO also participated in a day-long weekend workshop called Positive Steps : Appropriate Delivery Systems in Health Care, Education and Energy. This was a follow-up to the seven week evening course and many of the CUSO applicants attended.

CUSO - Other activities:

Visits from staff of CUSO Ottawa and Toronto were organised in terms of speaking to classes, meeting appropriate contact people in unions, hospitals, and schools and meeting our prospective applicants and local committee members.

Fundraising Activities:

A number of CUSO T-shirts were sold during the year which helped a little towards this fund. Before Christmas CUSO organized weekly lunches for staff and students in Middlesex College under the name of Christie's CUSO Crepes, and this too managed to raise some funds.

...

CONCLUSION:

In conclusion we wish to record our thanks to the School of Journalism, in particular Dean Andrew MacFarlane, Professor Shirley Sharzer (Chairperson - CUSO Local Committee), and Miss Christine McQuarrie (Fundraising - CUSO), for their many contributions made during the year.

In addition, our appreciation goes to Professor Howard Baldwin, Research Office, UWO, Mr. Norbert Van Wyck, Department of Finance, UWO, Professor Robert Martin, Faculty of Law, UWO, and Chairman of the Advisory Committee to the Office of International Education, and members of the Advisory Committee to the Office of International Education, for their encouragement and help throughout the year.

PERSONNEL DEPARTMENT
Report of the Director
MR. W. F. TRIMBLE

In large part, the objectives for the Department in 1976-77 were set aside unavoidably, in order to devote most of the activity of the Department to the task of introducing the new computerized Personnel System. In spite of this diversion, however, significant development did occur in the area of new group insurance programs, performance appraisal programs, A.I.B. reporting, and the approval and publication of new administrative staff policies.

The reports and achievements of each of the sections within the Department are as follows:-

BENEFITS

The Academic and Staff Pension Boards met jointly throughout the year to review the investment portfolio and performance of each plan. J. B. Sparling and Company, Investment Management Consultants, was contracted to complete a study of funding and investment management of both pension plans. While no decision has been reached regarding changes in the funding of the plans, one is expected early in the fall.

The revised basic and optional group life insurance plan experienced an extremely low number of claims for the current year and, combined with similar results for the past four years, the rates for the basic plan were reduced substantially. The group supplemental insurance plan experienced once again a deficit situation and therefore a premium rate increase was introduced. A re-enrolment of all participating staff of the group accidental death and dismemberment insurance plan was completed.

A dental plan was introduced in September 1976 for all faculty as part of the 1976-77 salary agreement and the ongoing administration of the plan was undertaken by the Department. A brief outline of the coverage was sent to all eligible members and, as anticipated, the claims against the plan have been very heavy.

Open group meetings were held to discuss the year-end status of each pension plan and individual counselling continued in the areas of retirement, sick leave, long-term disability and rehabilitation of employment.

COMPENSATION

The major focus of this section during 1976-7 was the University's conversion on July 1 to the Personnel System and the coincident introduction across campus of a completely new and fully-integrated Position Management System. Many hours were spent with Faculty and departmental representatives explaining the concept and its operational implications and then translating this information into a precise and detailed position file data base. Involved in this process were many new features, using revised nomenclature to identify clearly and distinguish between the person, the position, and the appointment, in terms of rank, status, etc. As part of these same efforts, this section undertook a

major review and revision of the faculty appointment ranks and stati within the Health Sciences Faculties, and in most Faculties helped the administrators in clarifying such questions as leave and turnover replacements, position establishments, etc., often for the first time. The introduction and distribution of a new computerized Position Management Report has provided the campus with the most explicit information to date on their authorized complement, vacant positions, etc.

Again this year, the follow-up with the Anti-Inflation Board on Guideline Year One increases for the University's employee groups took considerable time, as did preparatory work for Guideline Year Two in terms of data analyses, the completion of reports, etc. As well, unexpected difficulties with the new automated Salary Increase Programs introduced for the new computer system absorbed the better part of March and April.

As in other years, commitment to these time-consuming programmes only exaggerated the challenge of the traditionally heavy traffic in normal salary administration and job evaluation activities, with some 400 individual cases being reviewed. At the same time, this section was able to coordinate the implementation of new salary plans for Food Services staff, the new Word Processor group and the revised Printing Production group, and to provide advice daily to management and staff alike on a wide range of compensation problems for both faculty and staff.

EMPLOYMENT

Of the 3,062 persons who were initially interviewed by this section of the employment at the University, 659 were referred for further consideration by those seeking new employees. Of this latter number, 277 were hired including 42 persons who transferred from other units of the University.

According to the records, 233 persons terminated from the University during the year resulting in a turnover percentage of 11.0. This turnover rate is extremely low when compared to either other employers locally or other universities provincially.

This unit continued its involvement with Fanshawe College and the Secondary School System in both an advisory and recruiting capacity.

It is anticipated that one-to-one induction of new staff and faculty will be a service offered in the new year.

PAYROLL

The gross payroll for the year totalled \$73,000,000 which consisted of 39,862 deposit payments and 63,932 cheque payments. Over 9,500 T4s and 4,000 T4As were issued.

Deposit payments decreased by 465, however cheque payments increased by almost 5,000 over last year. About half of this increase could be attributed to the two retroactive payments to faculty members. The new payroll system provided more flexibility in processing cheque payments since it incorporated the "one time payment" mechanism into the system. It has been accepted well by departments and has no doubt contributed to the increase in the number of cheques issued.

SAFETY

The Safety Section published its second annual statistical report and distributed the data to all department and budgetary unit heads. The University injury rate (number of disabling injuries per 100 persons) increases to 1.26 in 1976, up from 1.12 the previous year. The rate for 1974 was 1.5.

The Secondary Injury Fund, administered by the Workmen's Compensation Board, pays claims which, while affecting a person's present employment, did not originate there. In 1976 the University was successful in appealing a number of such claims resulting in a transfer of \$18,833.70 from the University's experience to this fund.

In addition, a number of appeals to eliminate fines for alleged late reporting, or charges against our experience for non-existent staff were successful. Our savings in this area totalled \$2,771.81.

In cooperation with the Physical Plant department, the Safety Section assisted in the handling and disposal of waste chemicals by providing advice and other assistance when requested.

A wide variety of safety posters and other related visual material was distributed throughout the year to many areas of the University community. In addition to regular mailings initiated by the Safety Section, a significant number of requests for material were received from individual departments.

About 95 people were trained in the use of fire extinguishers, bringing the total to over 250 staff who now have a knowledge of firefighting techniques. A refresher course was held to renew the first aid certificates of approximately 9 staff members. In addition, 33 new staff received their first aid certificates as a result of training provided by the Safety Section.

The University continued to be represented on the College and University Safety Council of Ontario's board of directors where it was instrumental in establishing a province-wide system of statistical reporting. This report now gives provincial institutions the opportunity to compare their safety performance by using a common method of measurement, the injury rate.

TRAINING

A total of 230 new people attended Orientation Sessions during the fiscal year. In addition, a number of regular staff who have been on staff for some time attended the sessions to upgrade their knowledge.

"Orientation" is held weekly, each Monday afternoon for new full-time staff to explain the University's history, policies and benefits. A "Welcome to Western" kit is distributed which includes a number of brochures and pamphlets of interest to new staff.

A total of seven Supervisory Development Programs have now been completed covering a total of 121 people. The Program consists of two afternoons a week for 10 weeks of lectures, discussions and participation on the Supervisor's role. Some of the topics discussed include time management, effective listening, interviewing techniques, payroll and employment systems and safety.

All participants, past and present, receive a bi-monthly newsletter called "Effective Supervision" to reinforce the points discussed in the Development Program.

There was a continued interest in the educational assistance policy which helps defray the costs of training for staff. In the past year 150 people participated and the University paid out \$10,579.67. The same number of people participated in the previous year with \$11,024.25 being paid out.

SPECIAL TRAINING SEMINARS

- 1) Personnel Policies - 3 seminars for supervisors to explain new policies: 125 attended.
- 2) Telephone Techniques - 8 seminars for staff on proper telephone usage: 150 people.
- 3) Performance Appraisal for Supervisors - 15 workshops included over 200 supervisors and explained effective performance appraisal methods.
- 4) Performance Appraisal for Staff - 6 seminars were held for various staff groups to explain the performance appraisal policy and staff rights under the policy.
- 5) Benefits - Several open meetings were held to explain changes in insurance coverage, pension plan, etc.
- 6) Personnel System Introduction - 3 half day sessions during which members of the Compensation and Payroll Sections of the Department outlined the expected changes which would result from the introduction of the new system and their impact upon those in attendance.

EMPLOYEE RELATIONS

As in the past members of the Department met with officials of both federal and provincial governments to exchange ideas and/or to resolve grievances relating to immigration, human rights, and Workmen's Compensation.

The new administrative staff policies were published and circulated to all members of the staff and a special report was included in an edition of the Western News.

Performance appraisal seminars were held for supervisors and staff alike and were well attended.

Relations with both the Faculty and Staff Associations continued at a high level with frequent interchange members of the executive of the Staff Association on behalf of individual members of the administrative staff.

Members of the Department continued to be involved in outside professional groups of some importance while developing their skills through attendance at pertinent seminars.

PHYSICAL PLANT DEPARTMENTReport of the DirectorMR. R. M. YEO

The responsibilities and functions of the Department are many and varied and affect all elements and activities of the University Community.

In the summer of 1976 the parking function, which had been operating through the Security Traffic & Parking Section, was established as a separate section reporting to the Director. This organizational change, which followed many months of discussion with the Chairman of the University Committee on Parking and Traffic, increased the operational responsibilities of the Section and strengthened the day to day management function. With this change there are now 6 major sections reporting to the Director as follows:

- Engineering and Architectural Services
- Operations and Maintenance
- Parking Services
- Project Planning and Construction
- Reservations Office
- Security and Traffic Services

The activity of the Department may be measured by the following statistics. The gross salary expenditure amounted to \$6,386,800 and the total cash flow administered by the Department was \$15,900,000. The latter figure included expenditures, in addition to the direct operational budget, for certain ancillary operations, alterations and capital projects.

In addition to the continuing challenges in the operational areas brought on by restricted budgets and energy conservation programs the Department participated in many varied and interesting projects throughout the year. Planning and implementation stages of the \$10,000,000 Platt's Lane Estates project involved property rezoning, negotiating the Development agreement, and meeting with the community. The Spencer Hall project was a new and exciting concept. Both of these projects are detailed later in this report. During the year we had an unusually high number of property transactions. Included were: the sale of 1.8 acres of the former Good property (including the Silverwood Building) to the Roman Catholic Diocese of London for use by King's College, a lease to King's College for the balance of the Good property (5.7 acres), completion of a three party agreement with the Law Society of Upper Canada and the Diocese of London for the use of the Silverwood Building, renegotiation of the lease to the Crown of 15 acres of the Gibbons farm area for use by the Agricultural Research Institute, completion of the Development agreement and lease for the Western Day Care Centre, the donation of Grosvenor Lodge including 2.8 acres of the former Dunn property to the London Library Board, the receipt of a gift of 2.47 acres of land east of the Thames River and north of University Drive from J. R. McConnell et al., the completion of the lease of frontage from Brescia College

for use as the entrance to the Springett parking lot, preparation of an offer to purchase 1.65 acres of land in front of Althouse College from Shell Canada Ltd., several easements of various types with the City of London and others, and several title agreements with owners of abutting lands.

ENGINEERING AND ARCHITECTURAL SERVICES

In the fall of 1976 the functions of the Chief Estimator and the Furnishings Coordinator were combined into one position. A total of 497 estimates were prepared, and 240 purchase requisitions totaling \$434,400 were issued for furnishings.

A few of the major projects estimated and approved were:

Talbot Theatre Renovations	\$125,000
Room 359 - B & G Lab Conversion	28,000
Room 346 - B & G Lab Conversion	28,000
Room 3134 Social Science, Psychology	30,500
Room 40-50 Stevenson/Lawson, DIAS Offices	36,000
Room 186 U.C. Language Lab	21,000

In addition to the above requisitions the Furnishings and the Interior Design offices provided services for two large capital projects:

Platt's Lane Estates Inc. - Furnishings	\$192,000
Spencer Hall Addition and Renovations - Furnishings	190,000

OPERATIONS AND MAINTENANCE

Efforts to Decrease Operating Costs

The effectiveness of operations at Western continues to compare favorably with other universities in Ontario. Operating costs have been held in the lower range of Provincial averages while standards of services are at least equal to those of other universities. During the past year further measures were taken in all areas of operations to effect efficient and economical services.

The Financial Services Section of the Department completed the development of the Management Reporting System. The reports produced by this system make it possible to quickly analyse labour and material expenditures in the caretaking, maintenance, grounds, stores, utilities and security sections. Work load reporting systems for the maintenance area were upgraded to improve labour planning methods.

Programs to assist in longer range planning were initiated by the Operations Analyst. The Caretaking section adopted a system which projects the exact cycle for cleaning operations. A program to more fully define preventative maintenance requirements and procedures was introduced into the maintenance shops. The first phase of this program, an inventory of all equipment being serviced, was completed.

In the Maintenance section, a chart was devised to project the replacement of major elements of buildings for a fifty year period.

A major study to determine methods of reducing telephone costs was completed by the Communications Section. The installation of a Traffic Data Analyser in the telephone system was recommended. This equipment would provide new opportunities to reduce operating costs through reduced rental and long distance charges.

In 1976/77, as in previous years, the Department was concerned with the reduction of energy consumption. A community awareness program was sponsored in October in connection with Ontario's Energy Conservation Week. With the aid of the Department of University Relations and Information, a distinctive program with the theme, "USE LESS", was created. Energy conservation was further encouraged through a campus wide lighting level survey. Information from the survey was used to adjust lighting levels to an established minimum lighting standard.

To support the programs to reduce operating costs through energy consumption reductions, the Ministry of Colleges and Universities provided funds for the following:

A. Operating Cost Saving Projects which received 50% support from the Ministry (Total expenditure \$100,000):

1. Social Science - installation of wet cell humidifiers
2. North Chiller Plant - installation of on-line tube cleaners
3. Heating Plant - modification of loading on generator to allow further use of generator for peak load control
4. Elborn College - replacement of incandescent lighting in gymnasium
5. Health Sciences - installation of a heat recovery system in the animal quarters ventilation system
6. Social Science - conversion to variable air volume
7. University Community Centre - conversion to variable air volume

B. Energy Management programs which received 100% support (Total expenditure \$21,000):

- 1) South Chiller Plant - installation of on-line tube cleaner
- 2) Stevenson/Lawson - computer room cooling

Western was able to offset a 30% increase in fuel rates and a 36% increase in power rates by reducing fuel consumption (adjusted for weather) by 7.9% and power usage by 7.5% from 1975/76. Western's achievements in energy conservation were given recognition by the community during the past year when the University was the recipient of the Chamber of Commerce "Award of Excellence" for Energy Conservation.

ActivitiesGrounds

A landscaping program was completed between Somerville and the Stevenson/Lawson Building and south of University College.

Rainfall and an early snowfall along with a heavy schedule of usage destroyed the turf in a large portion of J. W. Little Memorial Stadium. The field was resodded with a hardier variety of grass designed to provide a more durable playing surface.

Works Projects

The activity of this section increased with the completion of over a thousand projects valued at 1.5 million dollars.

Maintenance Trades

Funds received through a special grant from the Ministry of Colleges and Universities in the amount of \$80,000 allowed the continuation of the roof repair program. The major project was the complete replacement of the Physics Building roof.

Within this section the dispatch unit was assigned a more positive role in the scheduling of service and preventative maintenance work. This change resulted in improved communications with the community.

Transportation and Stores

During 1976/77, 148,303 units were issued, 30,292 items were received and 71,466 items were delivered on and off campus.

Personnel

Arnold Robertson, Physical Plant Department's longest service employee, retired after 48 years with the University. Five other members of the department retired during the year: Thomas Carter (25 years service), Robert Richardson (15 years service), Isabelle Smith (17 years service), Reginald Topping (31 years service), and John Walsh (6 years service).

Mr. John Jevnikar and Mr. John Bankes completed 25 years of service and were welcomed into the Quarter Century Club. A total of 34 Physical Plant employees have served 25 years or more, 21 of these are still active.

Parking

A decision "to hold the line" on parking fee rates for the 7th consecutive year was made possible by trimming operational costs and anticipated increased revenues. Expenditures of \$332,834 for the year were up only 3% in spite of the inflationary

trend and an unusually heavy snow accumulation. Included in the expenses are the funds set in reserve for major maintenance and vehicle replacement. Revenue for the year was \$370,600.

Contracts amounting to \$63,400 were awarded from the reserve accounts for the following:

- 1) resurfacing the Huron lot and the addition of 71 spaces
- 2) enlarging the Springett lot by 120 spaces
- 3) surface repair Middlesex lot
- 4) the alteration of 139 meters for better Security measures
- 5) radio installations in parking services vehicles and Dental Patient/Clinician parking lot

PROJECT PLANNING AND CONSTRUCTION

During 1976/77, Physical Plant was actively engaged in planning and implementing several major projects.

The planning and design work was completed for Platt's Lane Estates Inc. for the construction of 400 apartment and townhouse units of Family Housing located south of the main campus, on both sides of Platt's Lane. Tenders were received and construction work started in September 1976. The total cost is budgeted at \$10,300,000.00. Work progressed satisfactorily and occupancy is scheduled for 250 units in August 1977 and 150 units in July 1978.

The University acted as the City's agent in the preparation of plans, tendering and construction of major road and sewer installations on Western Road and Platt's Lane. This involvement was a consequence of the Housing project's location on abutting lands. The work, budgeted for \$900,000.00, commenced in May 1977 and is scheduled for completion in September 1977. The funds will be financed on an interim basis by the University with restitution from the City's Major Sewerage and Road Capital Works Reserve Fund.

The designs were completed and construction started in November 1977 for the conversion of Spencer Hall and for the addition of a building containing 2 classrooms and living accommodations for 60 people. The project will provide the facilities for management courses in a joint venture with the Bank of Nova Scotia. The cost of the project is budgeted for \$2,433,000.00. Funds are supplied through mortgage and loan arrangements with the Bank, with recovery coming from the Spencer Hall operation. Construction is progressing satisfactorily with completion scheduled for December 1977.

RESERVATIONS OFFICE

The Reservations office handled 6,158 applications for non-academic use of space. Total attendance at these events was approximately 587,000. Non-university organizations booked 1,544 or 25% of the total events on campus. Attendance at non-university events was proportionally high at 253,000 (43% of attendance figures for all events).

Some of the more spectacular events in 1976/77 included the Japanese Olympic Gymnastic Team performance, the Royal Canadian Regiment First Battalion "Trooping of the Colours" and, for the first time, the Forest City Bowl football game. Local newspaper coverage adversely expressed concern over the cost to the London community for the use of athletic facilities. A comparative investigation of charges at other universities indicated that Western's costs were fair and appropriate. Endeavors to lower costs for the community, however, led to the University's decision to absorb the difference between regular time and overtime costs incurred for Reservations bookings.

SECURITY AND TRAFFIC SERVICES

In the previous year the University had initiated the establishment of 2 special security patrols designed to give personnel increased protection from assault. A foot patrol concentrates on the campus area; the other patrol covers, by vehicle, the affiliated Colleges, University Hospital, Westminster College and the surrounding public areas. The cost of the latter is shared between the participating institutions. The success of these patrols during 1976/77 was indicated by the absence of any reported incidents, even though the number of assaults in the City remained constant.

Other Activities

- There was a significant decrease from 1975/76 (46%) in the number of vehicle accidents reported. There were 31 accidents with total damages estimated at \$4,188.00.
- A Civil Court trial found one person guilty of assaulting a Security officer.
- There were 39 persons charged through Civil Court for shoplifting in the bookstore.
- There were 293 thefts of property with a total value of \$22,477 reported and investigated. Property valuing \$3,959 was recovered. Five persons were apprehended and charged with theft and one with extortion and theft.
- Damages to University property increased over the past year. There were 146 incidents investigated with damages amounting to \$11,042. Recovered costs amounted to \$2,872.
- There were 77 fire alarms recorded; 36 authentic alarms (22 fires), 15 malicious false alarms, and 26 equipment malfunctions.
- On 48 occasions Security aided in the transportation of ill or injured persons to hospital.
- More than 4,000 lost items were received and catalogued.

THE DEPARTMENT OF UNIVERSITY RELATIONS AND INFORMATION

Report of the Director

Mr. L. T. Moore

Last year's report from this department began by saying that the previous year had been a period of considerable achievement. There is no better way to describe this past year as well. It was another year of considerable achievement.

Western News

The success achieved by Western News continued to lead to increasing demands being made on the newspaper for space, resulting in a significant increase in the size of each issue and workload of the editorial staff. The addition of Ed Wright, a UWO graduate in journalism of 1974, has eased the workload and permits the newspaper to continue the high standards which it has established in the previous four years under editor Alan Johnston and assistant editor Jim Anderson, who was promoted from assistant-to-the-editor.

During the year, Western News expanded both its news coverage and the number of feature stories on research and the 'people and happenings' at Western. Five book pages were published, with reviews by graduate students, deans, department chairmen and even the president. One page of each issue was also devoted to university sports news.

Basic to the continued success of Western News is the cooperation of senior administrators, faculty, staff and students, and in particular the department 'liaison contacts' who channel news items, tips and picture suggestions to the newspaper. If Western News has served the university well, then it is indebted to this large group of people.

External Information

Of great importance to our external information effort was the approval given late in the year to add a third person to the Western News staff, thereby freeing information officer Susan Boyd from newspaper duties and allowing her to devote full time to our information program, a move that should result in greater visibility for Western in national media.

Contact with the news media was maintained through Media Memo, a weekly calendar of events, speakers, campus activities, research tips and public service announcements, through personal communication and through Acadamedia, a resource-list of close to 400 faculty members willing to act as news sources or provide background information to the news media on a cornucopian variety of subjects ranging from ageing to zoology. The 1976-77 edition of the booklet was almost double in size over the previous year's, the first edition, and feedback received by DURl indicates the booklet is being used daily by local and national media.

DURI issued 50 news releases during the report period. Canadian dailies, weeklies and trade journals (exclusive of the London Free Press, and exclusive of sports and society announcements) carried 2,335 stories in which Western was mentioned or featured. In a sample one-month period 113 publications carried 300 stories pertaining to UWO. Many of these originated from DURI in various forms. While there is no efficient or feasible means of monitoring the broadcast media, evidence of Western's high profile in these media can be obtained by a random sampling of news and entertainment programs.

The Faculty Activity Form, introduced during the year, is proving to be very helpful in our information-gathering efforts. Forms detailing their research and community activities are being returned by faculty at a rate of approximately a dozen a week.

Major news conferences organized by DURI during the year covered by this report were held for such prominent figures as Malcolm Muggeridge and William Buckley. Perhaps the most significant media event in terms of organization and coverage was the "media day" held in November to publicize the University's use of the \$600,000 communications satellite to improve health care to remote northern settlements. The event required the coordination of efforts by individuals from the Department of Communications, Bell Northern, the Faculty of Medicine, University Hospital, Moose Factory General Hospital and the Kashechewan Nursing Station on James Bay, plus a host of others, and entailed a live question-and-answer session via satellite with video and audio transmission between news people in London and doctors, nurses and patients 700 miles away in the north. Success of the event can be judged by the dozens of news stories carried across Canada, coverage by the three Canadian national news networks and continuing media interest in the form of magazine articles and feature films.

Sports Information

During the year the sports information officer, a position established the previous year as part of the Intercollegiate Athletics Office, was reassigned to DURI, a change which should increase the credibility of the operation, provide stability to the position, and lead to greater efficiency and effectiveness.

Through the efforts of sports information officer Clare Dear, Western's intercollegiate achievements received wide exposure in the local and national news media, thereby enhancing our reputation as a university which pursues excellence in athletics as well as in teaching and scholarship.

Mustang Day '77, the second athletics open house, again attracted a large turnout from the community, and extensive media coverage, confirming the decision to make Mustang Day an annual event.

Specific promotional efforts to increase attendance at Mustang football games produced acceptable results, with an estimated total attendance at the team's five home games of 44,500 persons, with an average attendance of 8,900. Similar efforts will be undertaken in the coming season to improve attendance figures for Mustang hockey and basketball, two other sports with significant revenue-producing potential.

The sports information officer was able to play a role in the founding of a national organization of university sports information officers, a venture that will help develop the position at Canadian institutions and establish a credible rapport with the Canadian sports media and supporting sponsors of intercollegiate athletics.

Western and the Canadian association were represented for the first time at the annual workshop of the College Sports Information Directors of America. In addition to establishing contacts with the more experienced U.S. counterparts, the ideas and programs discussed during the workshop sessions can be applied to this University's efforts to further enhance its intercollegiate athletics program.

Publications Unit

With the establishment of the graphics design function within the Printing Department, this unit was disbanded and the one remaining staff person transferred. While the loss of Sandy Alfs to the department was regretted, the department rejoices in the addition of a much-needed design capability to the University's resources.

General Comments

In addition to the specific services referred to above, the department provided a host of other services, from its speakers' bureau to its slide and photo file service. Much of this work is done by the two permanent members of the secretarial staff, Susan Skaith and Linda Perlikos, whose dedication and efficient work contribute so significantly to the achievement of the department.

APPENDIX TO PRESIDENT'S REPORT

PUBLICATIONS

OF MEMBERS OF FACULTY AND STAFF

FOR THE ACADEMIC YEAR

ENDED JUNE 30, 1977

THE UNIVERSITY OF WESTERN ONTARIO
LONDON CANADA

PREFACE

Publications by multiple authors are entered in this bibliography in the order in which they appear on the actual publication.

The name index at the back of the bibliography lists all authors. In order to find all publications of an individual author, it is necessary to consult this index.

Where faculty members hold dual appointments, the Deans have specified under which faculty the publications were to be listed.

TABLE OF CONTENTS

FACULTY OF ARTS	A	Occupational Therapy	EQ
Classical Studies	AA	Ophthalmology	ER
English	AB	Otolaryngology	ES
French	AC	Paediatrics	ET
German	AD	Pathology	EU
Philosophy	AE	Pharmacology	EV
Russian Studies	AF	Physiology	EW
Spanish & Italian	AG	Psychiatry	EX
Visual Arts	AH	Surgery	EY
		Therapeutic Radiology	EZ
FACULTY OF SCIENCE	B		
Applied Mathematics	BA	FACULTY OF NURSING	F
Astronomy	BB		
Chemistry	BC	FACULTY OF DENTISTRY	G
Computer Science	BD	Oral Medicine	GA
Geology	BE	Oral Surgery	GB
Geophysics	BF	Paediatric & Community Dentistry	GC
Mathematics	BG		
Physics	BH	SCHOOL OF BUSINESS ADMINISTRATION	H
Plant Sciences	BJ		
Zoology	BK	SCHOOL OF JOURNALISM	J
FACULTY OF SOCIAL SCIENCE	C		
Anthropology	CA	FACULTY OF LAW	K
Computing Laboratory	CB		
Economics	CC	SCHOOL OF LIBRARY AND	
Geography	CD	INFORMATION SCIENCE	L
History	CE		
Political Science	CF	FACULTY OF PHYSICAL EDUCATION	M
Psychology	CG		
Secretarial & Administrative		FACULTY OF EDUCATION	N
Science	CH	Business & Computer Studies	NA
Sociology	CJ	Educational & Administration	NB
		Educational Psychology	NC
		English & Modern Languages	ND
FACULTY OF MUSIC	D	History & Comparative Education	NE
		Mathematics & Science	NF
FACULTY OF MEDICINE	E	Philosophy	NG
Anaesthesia	EA	Physical & Health Education	NH
Anatomy	EB	Social Science	NJ
Bacteriology & Immunology	EC	Technological Studies	NK
Biochemistry	ED		
Biophysics	EE	FACULTY OF ENGINEERING	P
Cancer Research	EF		
Clinical Neurological Sciences	EG	BRESCIA COLLEGE	Q
Communicative Disorders	EH		
Diagnostic Radiology &		KING'S COLLEGE	R
Nuclear Medicine	EJ		
Epidemiology and Preventive		LIBRARY SYSTEM	S
Medicine	EK		
Family Medicine	EL	HURON COLLEGE	T
History of Medicine & Science	EM		
Medicine	EN	OFFICE OF THE REGISTRAR	U
Obstetrics & Gynaecology	EP		

FACULTY OF ARTSDepartment of Classical Studies

- AA001 Avotins, I. Review of La Forma Letteraria della Vita di Apollonio Tiane by F. Lo Cascio. Palermo, Italy: Università di Palermo, Istituto di Filologia Greca, 1974. In Classical World 70(1976):59.
- AA002 Crowther, N.B. "Parthenius and Roman Poetry." Mnemosyne 29(1976): 65-71.
- AA003 Gerber, D.E. "Archilochus, Fr. 42 West." Quaderni Urbinati di Cultura Classica no.22(1976):7-14.
- AA004 Gerber, D.E. (Compiler) Emendations in Pindar 1513-1972. Amsterdam, Netherlands: Adolf M. Hakkert, 1976.
- AA005 Gerber, D.E. "Studies in Greek Lyric Poetry: 1967-1975." Classical World 70(1976):65-157.
- AA006 Gerber, D.E. (Editor) Transactions of the American Philological Association, vol. 106. New York, New York: Interbook, 1976.
- AA007 Littlewood, A.R. "An 'Ikon of the Soul': The Byzantine Letter." Visible Language 10(1976):197-226.
- AA008 Littlewood, A.R. "The Progymnasmata of Ioannes Geometres." In Actes du XIV^e Congrès International des Études Byzantines, vol. 3. Edited by M. Berza and E. Stănescu. Bucuresti, Romania: Editura Academiei: Republicii Socialiste Romania, 1976. pp. 95-98.
- AA009 Moscovich, M.J. Review of The Life of Themistocles: A Critical Survey of the Literary and Archaeological Evidence by A.J. Podlecki. Montreal, Quebec: McGill-Queen's University Press, 1975. In Classical News and Views 20(1976):66-67.
- AA010 Watts, W.J. "Race Prejudice in the Satires of Juvenal." Acta Classica 19(1976):83-104.

Department of English

- AB001 Adams, S.J. "Pound's Quantities and 'Absolute Rhythm'." Essays in Literature 4(1977):95-109.
- AB002 Bentley, D.M.R. "Archibald Lampman (1861-1899) - A Checklist." Essays on Canadian Writing no.5, Fall(1976):36-49.
- AB003 Bentley, D.M.R. Prefatory note to "'Archibald Lampman as I Knew Him at Trinity University' by Archdeacon G.B. Sage." Canadian Notes and Queries no.18, December(1976):7-8.
- AB004 Bentley, D.M.R. Prefatory note to "'The Poetry of Byron' by Archibald Lampman." Queen's Quarterly 83(1976):623-632.

- AB005 Bentley, D.M.R. "Rossetti's 'Ave' and Related Pictures." Victorian Poetry 15(1977):21-35.
- AB006 Bentley, D.M.R. "The Same Unnamed Delight: Lampman's Essay on 'Happiness' and 'Lyrics on Earth'." Essays on Canadian Writing no.5, Fall (1976):25-35.
- AB007 Bieman, E. "Devils' Yule and Mountain-Birth: Miltonic Echoes in Coleridge's 'Dejection Ode'." Milton and the Romantics 2, December (1976):16-22.
- AB008 Bieman, E. Review of Play of Double Senses: Spenser's Faerie Queene by A.B. Giamatti. Englewood Cliffs, New Jersey: Prentice-Hall, 1975. In Renaissance and Reformation 12(1976):56-58.
- AB009 Brown, M.M. "To the Reader." Introduction to The Wait Letters by B. Wait. Erin, Ontario: Press Porcépic, 1976.
- AB010 Collins, T.J. (Editor) "Letters from Robert Browning to the Rev. J.D. Williams, 1874-1889." In Browning Institute Studies, vol. 4. Edited by W.S. Peterson. New York, New York: Browning Institute, 1976. pp. 1-56.
- AB011 Collins, T.J. "Robert Browning." Victorian Poetry 14(1976):212-219.
- AB012 Devereux, E.J. "John Rastell's Utopian Voyage." Moreana 13,51(1976): 119-123.
- AB013 Feldman, S.R. Evolution of Style in the Early Work of Dziga Vertov. New York, New York: Arno Press, 1977.
- AB014 Garber, L.A. "Techniques of Characterization in Strachey's 'Elizabeth and Essex'." Dalhousie Review 56(1976):405-428.
- AB015 Graham, J.W. "The Drafts of Virginia Woolf's 'The Searchlight'." Twentieth Century Literature 22(1976):379-393.
- AB016 Graham, J.W. (Editor and Transcriber) The Waves/Virginia Woolf. Toronto, Ontario: University of Toronto Press, 1976.
- AB017 Hair, D.S. "Tennyson's 'Idylls of the King': Truth 'In the Fashion of the Day'." English Studies in Canada 2(1976):288-298.
- AB018 Heatt, A.K. Review of The Renaissance Chaucer by A.S. Miskimin. New Haven, Connecticut: Yale University Press, 1975. In Medium Aevum 45(1976):338-342.
- AB019 Heatt, A.K. "Symbolic and Narrative Patterns in 'Pearl', 'Clean-ness', 'Patience,' and 'Gawain'." English Studies in Canada 2(1976): 125-143.
- AB020 Heatt, C.B. "A Full Length Study of 'The Owl and the Nightingale'." Review of The Owl and the Nightingale: The Poem and Its Sources by K. Hume. Toronto, Ontario: University of Toronto Press, 1975. In Mosaic 10(1976/77):147-150.

- AB021 Hieatt, C.B. Review of Chaucer's Dream-Poems by J. Winny. New York, New York: Barnes & Noble, 1973. In Speculum 52(1977):186-188.
- AB022 Hieatt, C.B. Review of Eyrbyggja Saga. Translated by H. Pálsson and P. Edwards. Toronto, Ontario: University of Toronto Press, 1973; of The Faroe Islander's Saga. Translated by G. Johnston. Ottawa, Ontario: Oberon Press, 1975; and of Grettir's Saga. Translated by D. Fox and H. Pálsson. Toronto, Ontario: University of Toronto Press, 1974. In Humanities Association Review 27(1976):59-61.
- AB023 Hieatt, C.B. and Butler, S. Pleyn Delit: Medieval Cookery for Modern Cooks. Toronto, Ontario: University of Toronto Press, 1976.
- AB024 Klinck, C.F. "'The Frogs': An Exercise in Reading Lampman." In The Lampman Symposium. Edited and with an introduction by L. McMullen. Ottawa, Ontario: University of Ottawa Press, 1976. pp.29-37.
- AB025 Klinck, C.F. Introduction to The Canadian Brothers; or, The Prophecy Fulfilled: A Tale of the Late American War by J. Richardson. General editor D. Lochhead. (Literature of Canada, Poetry and Prose in Reprint, 18). Toronto, Ontario: University of Toronto Press, 1976.
- AB026 Klinck, C.F. Introduction to Wilfred Campbell: Selected Poems by W.W. Campbell. Ottawa, Ontario: Tecumseh Press, 1976. pp. 1-12.
- AB027 Klinck, C.F. (General Editor) Literary History of Canada: Canadian Literature in English, 3 vols. 2nd ed. Edited by A.G. Bailey; C. Bissell; R. Daniells; N. Frye and D. Pacey. Toronto, Ontario: University of Toronto Press, 1976.
- AB028 Klinck, C.F. Robert Service: A Biography. Toronto, Ontario: McGraw-Hill Ryerson, 1976.
- AB029 Klinck, C.F. "Thoughts on E.J. Pratt." In The E.J. Pratt Symposium. Edited and with an introduction by G. Clever. Ottawa, Ontario: University of Ottawa Press, 1977. pp. 9-13.
- AB030 Klinck, C.F. Wilfred Campbell: A Study in Late Provincial Victorianism. Ottawa, Ontario: Tecumseh Press, 1977.
- AB031 McKay, D.F. "Image of Energy: The Vortex in Dylan Thomas." English Studies in Canada 2(1976):314-328.
- AB032 Pitcher, E.W. "Changes in Short Fiction in Britain 1785-1810: Philosophic Tales, Gothic Tales, and Fragments and Visions." Studies in Short Fiction 13(1976):331-354.
- AB033 Pitcher, E.W. "Lane's Annual Novelist, 1786." Library 31(1976): 248-250.
- AB034 Pitcher, E.W. "The Short Story in Anthology and Miscellany 1750-1800: A Response to Robert Mayo." Studies in Short Fiction 14(1977):1-11.

- AB035 Pitcher, E.W. "Some Emendations to Melvin R. Watson's Checklist of Eighteenth-Century Magazine Serials." Notes and Queries 23(1976): 506-509.
- AB036 Rajan, B. Review of The Christian Revolutionary: John Milton by H. Richmond. Los Angeles: University of California Press, 1974. In English Language Notes 13(1975/76):302-304.
- AB037 Rajan, B. Review of Eliot by S. Spender. Series editor F. Kermode. (Fontana Modern Masters). London, England: Fontana, 1975. In T.S. Eliot Review 3,1/2(1977):62-66.
- AB038 Reaney, J. "An ABC to Ontario Literature and Culture." Black Moss series 2,no.3(1977):2-6.
- AB039 Reaney, J. (Editor) Halloween #2 (an occasional theatrical newsletter). London, Ontario: J. Reaney, 1976.
- AB040 Reaney, J. (Editor) Halloween #3 (an occasional theatrical newsletter). In Black Moss series 2,no.3(1977):18-22.
- AB041 Reaney, J. Handcuffs: The Donnellys Part III. Erin, Ontario: Press Porcepic, 1977.
- AB042 Reaney, J. "A Letter from James Reaney." In Halloween #3 (an occasional theatrical newsletter edited by J. Reaney). Black Moss series 2,no.3(1977):18-22.
- AB043 Reaney, J. "Topless Nightmares." In Halloween #2 (an occasional theatrical newsletter edited by J. Reaney). London, Ontario: J. Reaney, 1976. pp. 2-10.
- AB044 Tausky, T.E. "Duncan's Passage to India." Canadian Literature no. 73(1977):39-53.

Department of French

- AC001 Atance, F.R. "Les Comédies Profanes de Marguerite de Navarre." Revue d'Histoire et de Philosophie Religieuses no.3(1976):289-313.
- AC002 Atance, F.R. "Marguerite de Navarre et Ses Activités en Faveur des Novateurs." Neophilologus 60(1976):505-524.
- AC003 Baguley, D. Review of Through Those Living Pillars. Man and Nature in the Works of Emile Zola by W.R. Hewitt. (De Proprietatibus Litterarum, Series Practica, 75). The Hague, Netherlands: Mouton, 1974. In Nineteenth-Century French Studies 4(1975/76):531-533.
- AC004 Bush, W. Péguy à la Lumière de la Théologie Mystique de l'Église D'Orient." Contacts no.97(1977):48-60.

- AC005 Creighton, D.G. Review of Diderot: The Virtue of a Philosopher by C. Blum. New York, New York: Viking Press, 1974. In Clio 5(1976):401-402.
- AC006 Creighton, D.G. Review of Les "Pensées philosophiques" de Diderot Devant Leurs Principaux Contradicteurs au Dix-Huitième Siècle by R. Morin. Paris, France: Belles Lettres, 1975. In French Review 50 (1977):495-496.
- AC007 Forsyth, L.H. "Pourquoi une Nouvelle Critique au Québec (1900-1920)." APFUC Bulletin Avril(1977):157-176.
- AC008 Goldschläger, A. "Remarques sur la Notion de Dieu Chez Jules Lagneau et Simone Weil." Pensée et les Hommes 20^e année(1976/77):245-255.
- AC009 Goldschläger, A. Review of Le Grand Piège by S. Steven. Paris, France: Robert Laffont, 1976; and of L'Aveu by A. London. Paris, France: Gallimard, 1968. In Pensée et les Hommes, 20^e année(1976/77):236.
- AC010 Goldschläger, A. Review of Le Pacte Autobiographique by P. Lejeune. Paris, France: Le Seuil, 1976. In Pensée et les Hommes 20^e année (1976/77):233-235.
- AC011 Goldschläger, A. and Lemaire, J. "Technique Narrative Parataxique et Psychologie des Personnages dans 'l'Etranger' et 'la Chute' d'Albert Camus." Neophilologus 61(1977):185-193.
- AC012 Grunmann, M.H. "Temporal Patterns in the 'Chanson de Guillaume'." Olifant 4(1976/77):49-62.
- AC013 Holmes, G. "The Problem of Anglicized French at the University." Canadian Modern Language Review 33(1977):520-531.
- AC014 Issacharoff, M. "'Herodias' et la Symbolique Combinatoire des 'Trois Contes'." In Langages de Flaubert. Edited by M. Issacharoff. Paris, France: Lettres Modernes-Minard, 1977. pp. 53-76.
- AC015 Issacharoff, M. (Editor) Langages de Flaubert. Paris, France: Lettres Modernes-Minard, 1977.
- AC016 Issacharoff, M. "'Lucienne et le Boucher': (Semio) Logique du Méló." Magazine Littéraire no.124(1977):22-25.
- AC017 Issacharoff, M. Review of "Essays on Surrealism." Edited by M.A. Caws. Twentieth Century Literature 21(1975):1-149. In Oeuvres et Critiques 2,1(1977):169-172.
- AC018 Issacharoff, M. "Satre et les Signes: La Dynamique Spatiale de 'Huis clos'." Travaux de Linguistique et de Littérature 15,2(1977):80-94.
- AC019 Issacharoff, M. "Sartre Today: A Roundtable Discussion with R. Federman, Michel Rybalka and Michael Issacharoff." Contemporary French Civilization 1,1(1976):83-108.

- AC020 Jones, D.F. "Beckett's 'Colloque sentimental'." French Review 50 (1977):460-466.
- AC021 Richmond, I.M. "Deux Oeuvres Rendues à l'Abbé de Pure." Revue d'Histoire Littéraire de la France no.2(1977):179-186.
- AC022 Richmond, I.M. "L'Evolution du Pathétique Amoureux de Timocrate au Duc de Nemours." APFUC Bulletin Avril(1977):21-45.
- AC023 Sanders, J.B. "Antoine et Zola." Cahiers Naturalistes no.50(1976): 9-18.
- AC024 Sanders, J.B. "Brouillon Retrouvé d'une Lettre de J.-K. Huysmans au Chirurgien Arrou." Société J.-K. Huysmans. Bulletin 13,65(1976): 65-71.
- AC025 Sanders, J.B. "Emile Zola: Le Transplanté et l'Arbre." In Fiction, Form, Experience. Edited by G.E. Kaiser. Montréal, Québec: Editions France-Québec, 1976. pp. 53-66.
- AC026 Schatzberg, W. (Editor); Brostowin, P.R.; Dean, D.R.; Schatzberg, W.; Spear, F.A. and Walters, R.L. (Compilers) "Relations of Literature and Science: A Bibliography of Scholarship, 1974-1975." Clio 6(1976): 71-88.
- R.L. Walters is listed as one of the members of the Bibliography Committee.
- AC027 Venesoen, C.A. "Athalie ou le Demi-échec de la Théologie Tragique." In Racine: Mythes et Réalités. Edited by C.A. Venesoen. Paris, France: Société d'Etude du XVII^e Siècle, 1976. pp. 25-48.
- AC028 Venesoen, C.A. (Editor) Racine: Mythes et Réalités. Paris, France: Société d'Etude du XVII^e Siècle, 1976.

Department of German

- AD001 Hess, G.H.W. "Walter Bauer-ein Schriftsteller im Kanadischen Exil." Courier, 28 April 1977. pp. 9,11.
- AD002 Hess, G.H.W. "Zum Gedenken - Walter Bauer." Torontoer Zeitung, 20 May 1977. pp. 3-4.
- AD003 Immerwahr, R. "Friedrich Schlegel: Der Dichter als Journalist und Essayist." Jahrbuch für Internationale Germanistik 8,2(1976):145-168.
- AD004 Immerwahr, R. Review of Lettres sur le Romantisme Allemand by A. Béguin and G. Roud. Lausanne, Suisse: Etudes de lettres, 1974. In Germanistik 17(1976):531-532.

- AD005 Immerwahr, R. Review of Traumwelt und Romantik: Versuch über die Romantische Seele in Deutschland und in der Dichtung Frankreichs by A. Béguin. München, Bundesrepublik Deutschland: Francke Verlag, 1972. In Colloquia Germanica no.3/4(1975):353-356.
- AD006 Schluetter, H.-J. Review of Goethe's Knittelvers. A Prosodic Analysis by D. Chisholm. Bonn, Bundesrepublik Deutschland: Bouvier, 1975. In Germanistik 18(1977):160-161.
- AD007 Tracy, G.L. Review of E.T.A. Hoffmann and Music by R.M. Schafer. Toronto, Ontario: University of Toronto Press, 1975. In University of Toronto Quarterly 45(1975/76):403-404.
- AD008 Tracy, G.L. Review of Der Hofmeister. A Critical Analysis of Bertolt Brecht's Adaptation of Lenz's Drama by L.P.A. Kitching. München, Bundesrepublik Deutschland: Wilhelm Fink, 1976. In Seminar 13(1977):122-123.
- AD009 Tracy, G.L. "Theatre in the GDR." Canadian Theatre Review 14, Spring (1977):92-95.

Department of Philosophy

- AE001 Binkley, R.W. "The Logic of Action." In Action Theory. Edited by M. Brand and D. Walton. Dordrecht, Netherlands: D. Reidel, 1976. pp. 87-104.
- AE002 Block, I. Review of Aristotle's Man: Speculations Upon Aristotelian Anthropology by S.R.L. Clark. Oxford, England: Oxford University Press, 1975. In Philosophical Books 18(1977):11-14.
- AE003 Bronaugh, R.N. "Agreement, Mistake, and Objectivity in the Bargain Theory of Contract." William and Mary Law Review 18(1976):213-257.
- AE004 Bub, J. "Hidden Variables and Locality." Foundations of Physics 6 (1976):511-525.
- AE005 Bub, J. Review of Philosophy of Physics by M. Bunge. Dordrecht, Netherlands: D. Reidel, 1973. In Philosophia: Philosophical Quarterly of Israel 5(1975):352-356.
- AE006 Bub, J. and Demopoulos, W. "Critical Study: 'Paradigms and Paradoxes: The Philosophical Challenge of the Quantum Domain'." Philosophia: Philosophical Quarterly of Israel 6(1976):333-344.
- AE007 Butts, R.E. "Filozofia nauki w Kanadzie." Ruch Filozoficzny 34,3 (1976):167-182.
- AE008 Butts, R.E. "The Hypothetico-Deductive Model of Scientific Theories: A Sympathetic Disclaimer." In Basic Issues in the Philosophy of Science. Edited by W.R. Shea. Series editors J. King-Farlow and W.R. Shea. (Canadian Contemporary Philosophy Series). New York, New York: Science History Publications, 1976. pp. 36-57.

- AE009 Butts, R.E. "Kant and the Problem of Scientific Methodology." In Proceedings of the Ottawa Congress on Kant in the Anglo-American and Continental Traditions Held October 10-14, 1974. Edited by P. Laberge; F. Duchesneau and B.E. Morrisey. Ottawa, Ontario: University of Ottawa Press, 1976. pp.222-233.
- AE010 Cohen, R.S.; Hooker, C.A.; Michalos, A.C. and Van Evra, J.W. (Editors) PSA 1974. (Boston Studies in the Philosophy of Science, vol.32). (Synthese Library, vol.101). Dordrecht, Netherlands: D. Reidel, 1976.
- AE011 Davis, J.W. (Editor) Hume Studies 1-3,1(1975-77).
- AE012 Davis, J.W. Review of Touches of Sweet Harmony: Pythagorean Cosmology and Renaissance Poetics by S.K. Heninger, Jr. San Marino, California: Huntington Library, 1974. In Renaissance and Reformation 12(1976): 120-122.
- AE013 Demopoulos, W.G. "Critical Notice." Review of Contemporary Research in the Foundations and Philosophy of Quantum Theory. Edited by C.A. Hooker. (The University of Western Ontario Series in Philosophy of Science, v.2). Dordrecht, Netherlands: D. Reidel, 1973. In Synthese 33(1976):489-504.
- AE014 Demopoulos, W.G. "Remark on a Paper of Maczynski." Reports on Mathematical Physics 9(1976):171-176.
- AE015 Demopoulos, W.G. "What is the Logical Interpretation of Quantum Mechanics?" In PSA 1974. Edited by R.S. Cohen; C.A. Hooker; A.C. Michalos, and J.W. Van Evra. (Boston Studies in the Philosophy of Science, vol.32). (Synthese Library, vol.101). Dordrecht, Netherlands: D. Reidel, 1976. pp. 721-728.
- AE016 Lennon, T.M. "Jansenism and the 'Crise Pyrrhónienne'." Journal of the History of Ideas 38(1977):297-306.
- AE017 Lennon, T.M. Review of Le Cartésianisme de Malebranche by F. Alquié. Paris, France: Vrin, 1974. In Philological Quarterly 54(1975):999-1000.
- AE018 Marras, A. "Il Concetto d'Intenzionalità nella Filosofia Analitica Contemporanea." In Tommaso d'Aquino nel suo VII Centenario: Atti del Congresso Internazionale. Vol. 2: S. Tommaso nella Storia del Pensiero. Napoli, Italia: Edizioni Domenicane Italiane, 1976. pp. 638-646.
- AE019 Marras, A. Review of Leibniz e la Logica Simbolica. Edited by M. Mugnai. Firenze, Italia: Sansoni, 1973. In Philological Quarterly 54(1975):990-991.
- AE020 Marras, A. "Russell on General Facts." Rassegna di Scienze Filosofiche 29(1976):199-205.
- AE021 Marras, A. "Scholastic Roots of Brentano's Conception of Intentionality." In The Philosophy of Brentano. Edited by L.L. McAlister. London, England: Duckworth, 1976. pp. 128-139.

- AE022 Marras, A. "Sellars' Behaviourism: A Reply to Fred Wilson." Philosophical Studies 30(1976):413-418.
- AE023 Maynard, P. Design for announcement of Colloquium on Biomedical Ethics, October 27-30, 1977. Sponsored by the Faculty of Medicine and the Department of Philosophy, University of Western Ontario.
- AE024 Maynard, P. "Professor Gass's Transformations." Journal of Philosophy 73(1976):742-743.
- AE025 Maynard, P. (Abstract) "Professor Gass's Transformations." Review of Metaphysics 30(1976/77):547.
- AE026 Maynard, P. Review of On Art and The Mind by R. Wollheim. Cambridge, Massachusetts: Harvard University Press, 1974. In Philosophical Review 86(1977):125-128.
- AE027 Maynard, P. Ten illustrations for Philosophers in Action by A.H. Johnson. Toronto, Ontario: Charles E. Merrill, 1977.
- AE028 Nicholas, J.M. (Editor) Images, Perception, and Knowledge. Managing editor J.J. Leach. (University of Western Ontario Series in Philosophy of Science, vol.8). Dordrecht, Netherlands: D. Reidel, 1977.

Department of Russian Studies

- AF001 Pappmehl, K.A. Review of The Politics of Catherinian Russia: The Panin Party by D.L. Ransel. New Haven, Connecticut: Yale University Press, 1975. In Canadian Slavonic Papers 19(1977):91-92.
- AF002 Pappmehl, K.A. Review of Voltaire and Catherine the Great: Selected Correspondence. Edited by A. Lentin. Cambridge, England: Oriental Research Partners, 1974. In Canadian-American Slavic Studies 10(1976):129-130.
- AF003 Wilson, R.K. "Kochanowski and Ronsard: Contemporaries and Kindred Spirits." Polish Review 22,1(1977):19-28.
- AF004 Wilson, R.K. Review of Alfabet Wspomnień by A. Slonimski. Warszawa, Polska: Państwowy Instytut Wydawniczy, 1975. In World Literature Today 51(1977):125-126.
- AF005 Wilson, R.K. Review of Przed Nieznanym Trybunalem by J.J. Szczepański. Warsaw, Poland: Czytelnik, 1975. In Books Abroad 50(1976):684-685.
- AF006 Wilson, R.K. Review of The Revolution of Things by M. Bialoszewski. Translated and introduced by A. Burza and B. Czaykowski. Washington, D.C.: Charioteer Press, 1974. In Canadian Slavonic Papers 18(1976):489-490.

- AF007 Wilson, R.K. "Three Contemporary Slavic Poets: A View From the Other Side." Review of Selected Poems by A. Akhmatova. Translated and with an introduction by R. McKane. Harmondsworth, England: Penguin Modern European Poets, 1969; of Selected Poems by Z. Herbert. Translated by C. Mitoz and P.D. Scott. Harmondsworth, England: Penguin Modern European Poets, 1968; and of Selected Poems by M. Holub. Translated by I. Milner and G. Theiner. Harmondsworth, England: Penguin Modern European Poets, 1967. In New Quarterly Cave 1,4(1976):46-58.
- AF008 Wilson, R.K. (Translator) "Two Poems by Jan Kulka." New York Review 24,7(1977):37.

Department of Spanish & Italian

- AG001 Asensio, J. "Cinco Anotaciones al 'Quijote'." Revista de Archivos, Bibliotecas y Museos 79(1976):97-111.
- AG002 Asensio, J. "La Funcion de los Diminutivos en la 'Guia Espiritual', de Miguel de Molinos." Estudios 32(1976):319-332.
- AG003 Asensio, J. Review of La Critica Literaria en la Prensa Española del Siglo (1700-1750). Madrid, España: Taurus Ediciones, XVIII 1973. In Reflexion 2 3/4(1974/75):302-304.
- AG004 Asensio, J. Review of Guía de Nuevos Temas de Literatura Española by H. Serís. Madrid, España: Castalia, 1973. In Reflexion 2 3/4 (1974/75):296-299.
- AG005 Asensio, J. Review of Studies in Tirso, I: The Dramatist and His Competitors, 1620-26 by R.L. Kennedy. Chapel Hill, North Carolina: University of North Carolina, Department of Romance Languages, 1974. In Reflexion 2 3/4(1974/75):299-302.
- AG006 Asensio, J. Review of Vida y Obra de Emilia Pardo Bazán by C. Bravo-Villasante. (Colección Novelas y Cuentos). Madrid, España: Magisterio Español, 1973; and of Estructuras Novelísticas de Emilia Pardo Bazán by B. Varela Jacome. Santiago de Compostela, España: Consejo Superior de Investigaciones Científicas, Instituto P. Sarmiento de Estudios Gallegos, 1973. In Reflexion 2 3/4(1974/75):305-307.
- AG007 Asensio, J. "Tres Notas para 'Don Gil de las Calzas Verdes'." Reflexion 2 3/4(1974/75):146-152.
- AG008 Belladonna, R. "Alcune Osservazioni Intorno al Sunto di una Predica Sconosciuta di Bernardino Ochino." Critica Storica 14,1(1977):149-154.
- AG009 Flint, N. and Flint, W. "More on Galdós' 'La Fontana de Oro'." Romance Notes 17(1976):146-151.
- AG010 Lopez-Pacheco, J. (Lyricist) "Dos Canciones para un Gesto." On the record Vallecas by L. Pastor. Madrid, Spain: Movieplay (S32854), 1976.

- AG011 Lopez-Pacheco, J. "Para Antonio Machado." In Poesía Castellana de Cárcel (Antología). Edited by J.M. Balcells. (Colección Documentación y Ensayo, No. 14). Barcelona, España: Dirosa, 1976. pp. 314-315.
- AG012 Lopez-Pacheco, J. "Pogrzeb Hrabiego de Orgaz." Literatura na Swiecie no.9(1976):262-267.
- AG013 Newman, J.C. Review of Spanish: A Modular Approach, Books 1-3 by K. Hampares and N.E. Santos. New York, New York: Harper and Row, 1976. In Canadian Modern Language Review 33(1977):564-565.
- AG014 Newman, J.C. "Salinas Remembered and Remembering." Revista Canadiense de Estudios Hispánicos 1(1976/77):307-315.
- AG015 Newman, J.C. "Sobre el Ángel y los Ángeles." Revista Canadiense de Estudios Hispánicos 1(1976/77):114-117.

Department of Visual Arts

- AH001 Barrio-Garay, J.L. "Intension, Object, and Signification in the Work of Tàpies." In [Exhibition Catalogue]: Tàpies: Thirty-Three of His Work. Buffalo, New York: Bullalo Fine Arts Academy and Albright-Knox Art Gallery, 1977. pp. 3-30.
- AH002 Barrio-Garay, J.L. José Gutiérrez Solana: Paintings and Writings. Cranbury, New Jersey: Associated University Presses, 1976.
- AH003 Barrio-Garay, J.L. Review of The Art of Augustus John by A.E. John. Text by M. Easton and M. Holroyd. Boston, Massachusetts: David R. Godine, 1976. In Choice 14(1977):359.
- AH004 Becker, H. (Editorial Comment) "Artist's Survival." Canadian Artists' Representation Ontario Tradepaper 3,1(1977):3.
- AH005 Becker, H. (Financial Co-ordinator) [Exhibition Catalogue]: Imprint '76. Toronto, Ontario: Print and Drawing Council of Canada, 1976.
- AH006 Becker, H. "Handmade Papermaking for the Fine Arts." Artmagazine 8, 31/32(1977):Printmaking Supplement, pp.5-9.
- AH007 Becker, H. (Editorial Comment) "Ontario Graduate Studies at Stake." Canadian Artists' Representation Ontario Tradepaper 3,1(1977):5.
- AH008 Cameron, M.A.S. [Exhibition catalogue]: Mark Cameron. New Restoration Drawings of Minoan Frescoes, Photographs, Motifs, Diagrams, Model of Decorated Room. London, Ontario: M.A.S. Cameron, 1977.
- AH009 Crass, P. (Film) Walter Redinger. Toronto, Ontario. Omega Films, 1976.
- AH010 Hassan, J. and Becker, H. (Issue Editors) Canadian Artists' Representation Ontario Tradepaper 2,5(1976): 3,1(1977).

- AH011 McKaskell, R. "Paterson Ewen." In [Exhibition Catalogue]: Paterson Ewen Retrospective. London, Ontario: London Art Gallery, 1976. pp. 8-18.
- AH012 Tucker, W. "The Road to Tirgu Jiu." Art in America 64,6(1976):96-101.

For joint authors see Name Index at the end of this volume.

FACULTY OF SCIENCEDepartment of Applied Mathematics

- BA001 Cekirge, H.M. and Rogers, C. "On Elastic-Plastic Wave Propagation; Transmission of Elastic-Plastic Boundaries." Archives of Mechanics 29,1(1977):125-141.
- BA002 Chan, L.K.; Harris, A.W.; MacNeill, I.B. and Rachar, F.B. "Facts and Opinions Regarding the Teaching of Statistics in Ontario Secondary Schools: A Sample Survey of Mathematics Heads." Ontario Mathematics Gazette 15,2(1976):44-50.
- BA003 Chan, L.K.; Harris, A.W.; MacNeill, I.B. and Rachar, F.B. "Perceptions of the Mathematics Program of the Ontario Secondary School System: A Sample Survey of the Principals." Ontario Mathematics Gazette 15,1(1976):21-27.
- BA004 Chan, S.K. and Sakmar, I.A. "Tests of K_p^+ Phase Shifts." Il Nuovo Cimento 35A, 11(1976):234-250.
- BA005 Chen, T. and Ehrman, J.B. "Linear Stability Analysis of a Class of Solutions of the Filament Model for a Stationary Field Electron Ring Accelerator." Journal of Plasma Physics 16,1(1976):17-36.
- BA006 Christiansen, S. and Rasmussen, H. "Numerical Solutions for Two-Dimensional Annular Electrochemical Machining Problems." Journal of the Institute of Mathematics and Its Applications 18,3(1976):295-307.
- BA007 Collins, W.M. and Dennis, S.C.R. "Steady Flow in a Curved Tube of Triangular Cross Section." Proceedings of the Royal Society of London; Series A 352(1976):189-211.
- BA008 Collins, W.M. and Dennis, S.C.R. "Viscous Eddies near a 90° and a 45° Corner in Flow through a Curved Tube of Triangular Cross-Section." Journal of Fluid Mechanics 76,3(1976):417-432.
- BA009 Dennis, S.C.R. "A Numerical Method for Calculating Steady Flow Past a Cylinder." Lecture Notes in Physics 59(1976):165-172.
- BA010 Dennis, S.C.R. and Ng, M. "Flow in a Curved Tube at Moderate Dean Number." Proceedings of the Sixth Canadian Congress of Applied Mathematics. Vancouver, British Columbia. May 1977. pp.555-556.
- BA011 Dennis, S.C.R. and Singh, S.N. "Problems Relating to Flow in the Neighbourhood of Rotating Spheres." Proceedings of the Sixth Canadian Congress of Applied Mathematics. Vancouver, British Columbia. May-June 1977. pp.557-558.
- BA012 Dewey, R. and Sullivan, P.J. "The Asymptotic Stage of Longitudinal Turbulent Dispersion within a Tube." Journal of Fluid Mechanics 80,2(1977):293-303.

- BA013 Govindarajan, J.; Jacobs, P.W.M. and Nerenberg, M.A.H. "Theoretical Calculation of Entropy Changes Associated with the Formation of Point Defects in Ionic Crystals: 1. Substitutional Defects in Alkalinalides." Journal of Physics C: Solid State Physics 9(1976):3911-3924.
- BA014 Ho, Y.K. and Fraser, P.A. "S-Wave Collisions of Positrons with Helium." Journal of Physics B: Atomic and Molecular Physics 9(1976):3213-3224.
- BA015 McGeough, J.A. and Rasmussen, H. "A Perturbation Analysis of the Electroforming Process." Journal of Mechanical Engineering Science 18,6(1976):271-278.
- BA016 Moodie, T.B.; Rogers, C. and Clements, D.L. "Radial Propagation of Axial Shear Waves in an Incompressible Elastic Material under Finite Deformation". International Journal of Engineering Science 14(1976):585-603.
- BA017 Rasmussen, H. and Christiansen, S. "A Perturbation Solution for a Two-Dimensional Annular Electrochemical Machining Problem." Journal of the Institute of Mathematics and Its Applications 18,2(1976):149-153.
- BA018 Rasmussen, H. and Rogers, C. "A Note on a New Expansion Procedure for the Stefan Problem". Letters in Heat and Mass Transfer 3(1976):327-332.
- BA019 Rogers, C.; Clements, D.L. and Moodie, T.B. "Transient Displacement and Stress in Non-Homogenous Elastic Shells." Journal of Elasticity 7,2 (1977):171-184.
- BA020 Rogers, C. and Kingston, J.G. "Reciprocal Properties in Quasi One-Dimensional Non-Steady Oblique Field Magneto-Gasdynamics." Journal de Mechanique 15,1(1976):185-192.
- BA021 Rogers, C.; Moodie, T.B. and Clements, D.L. "Radial Propagation of Rotary Shear Waves in an Initially Stressed Neo-Hookean Material." Journal de Mechanique 15,4(1976):595-614.
- BA022 Sakmar, I.A. "Unitarity Upper Bounds on the Phase of the Amplitude from the Holder Inequality." Physical Review D 15,9(1977):2689-2694.
- BA023 Talman, J.D. and Shadwick, W.F. "Optimized Effective Atomic Central Potential". Physical Review A 14,1(1976):36-40.
- BA024 Zamir, M. "Optimality Principles in Arterial Branching." Journal of Theoretical Biology 62(1976):227-251.
- BA025 Zamir, M. "Shear Forces and Blood Vessel Radii in the Cardiovascular System." Journal of General Physiology 69(1977):449-461.

Department of Astronomy

- BB001 Borra, E.F. and Landstreet, J.D. "The Surface Magnetic Field Distributions of 53 *Camelopardalis* and α^2 *Canum Venaticorum*." Astrophysical Journal 212(1977):141-148.

- BB002 Falk, H. and Mitalas, R. "Proton-proton Chain in Convective Regions." Astronomy and Astrophysics 55(1977):273-275.
- BB003 Gray, D.F. "A Quest for Differential Stellar Rotation in A Stars." Astrophysical Journal 211(1977):198-206.
- BB004 Landstreet, J.D. and Angel, J.R.P. "Detection of Polarization Variation across Absorption Features of Mira Variables." Astrophysical Journal 211(1977):825-835.
- BB005 Landstreet, J.D. and Borra, E.F. "Discovery of Magnetic Fields in Three Short-Period Ap Stars." Astrophysical Journal 212(1977):L43-L46.
- BB006 Landstreet, J.D. and Borra, E.F. "Photoelectric Magnetic Field Measurements of Ap and Bp Stars." In Physics of Ap-Stars (IAU - Colloquium Number 32). Vienna, Austria. August 1975. pp.449-454.
- BB007 Lowe, R.P.; Moorhead, J.M. and Wehlau, W.H. "Near-Infrared Fourier Spectroscopy of the Orion Nebula." Astrophysical Journal 214(1977):712-717.
- BB008 Marlborough, J.M. "Cassiopeiae and the Transient X-Ray Source MX0053+60." Astronomical Society of the Pacific. Publications 89 (1977):122-126.
- BB009 Marlborough, J.M. "Models for the Circumstellar Envelope of Be Stars." In Be and Shell Stars (Symposia of the International Astronomical Union, series no. 70). Edited by A. Slettebak. Hingham, Massachusetts: Reidel 1976. pp.335-370.
- BB010 Marlborough, J.M. and Snow, T.P. "A Survey of Mass Loss from Be and Shell Stars Using Ultraviolet Data from Copernicus." In Be and Shell Stars (Symposia of the International Astronomical Union, series 70). Edited by A. Slettebak. Hingham, Massachusetts: Reidel, 1976. pp.179-189.
- BB011 Mitalas, R. "Effect of Instantaneous Mass Ejection on Orbital Elements of Circular Binaries." In Structure and Evolution of Close Binary Systems (Symposium of the International Astronomical Union, series 73). Edited by P. Eggleton. Hingham, Massachusetts: Reidel, 1976. pp.81-82.
- BB012 Poeckert, R. and Marlborough, J.M. "Intrinsic Linear Polarization of Be Stars as a Function of $V \sin i$." Astrophysical Journal 206(1976):182-195.
- BB013 Smith, M.A. and Gray, D.F. "Fourier Analysis of Spectral Line Profiles: A New Tool for an Old Art." Astronomical Society of the Pacific. Publications 88,526(1976):809-823.
- BB014 Wehlau, A. and Demers, S. "NGC 1261 and the Oosterhoff Type I Systems." Astronomy and Astrophysics 57(1977):251-256.
- BB015 Wehlau, A. and Hogg, S.H. "Red Variables in the Globular Cluster Messier 22." Astrophysical Journal 82,2(1977):137-149,185.

- BB016 Wehlau, W.H. "The Observatories of the University of Western Ontario, London, Canada." Bulletin American Astronomical Society 9,1(1977): 276-278.

Department of Chemistry

- BC001 Allnatt, A.R. "Generalized Molecular Distribution Functions for Fluids and Occupation Probabilities for Lattice Gases." Journal of Mathematical Physics 17(1976):937-940.
- BC002 Arnold, D.R.; Humphreys, R.W.; Leigh, W.J. and Palmer, G.E. "Electronic Excited States of Small Ring Compounds. 3: Cyclopropene, Vinylcarbene, and Vinylmethylene." Journal of the American Chemical Society 98(1976): 6225-6233.
- BC003 Arnold, D.R. and Maroulis, A.J. "Radical Ions in Photochemistry. 3. Photosensitized (Electron Transfer) Cleavage of β -Phenethyl Ethers." Journal of the American Chemical Society 98(1976):5931-5937.
- BC004 Arnold, D.R. and Morchat, R.M. "Electronic Excited States of Small Ring Compounds. IV. Bicyclo [2.1.0] Pentanes by the Photocycloaddition of Cyclopropenes to Olefines." Canadian Journal of Chemistry 55(1977): 393-406.
- BC005 Arnold, D.R. and Wong, P.C. "The Photochemistry of Chloroaromatic Compounds. Is ' π -Chlorobenzene' an Intermediate?" Journal of the American Chemical Society 99(1977):3361-3366.
- BC006 Ayer, W.A.; Browne, L.M.; Fung, S. and Stothers, J.B. "Concerning Stereochemical Assignments from ^{13}C Spectra of Systems Experiencing χ substituent Effects. Deshielding Antiperiplanar Interactions Can Mislead the Unwary." Canadian Journal of Chemistry 54(1976):3272-3275.
- BC007 Baird, N.C. "The Three Electron Bond." Journal of Chemical Education 54(1977):291-293.
- BC008 Baird, N.C. "What Can Photochemists Expect from Ab Initio Calculations Now and in the Near Future?" Pure and Applied Chemistry 49(1977):223-236.
- BC009 Baird, N.C. and Kathpal, H.B. " π and Σ States of the N-Formamido Radical: An Ab Initio Molecular Orbital Study." Journal of the American Chemical Society 98(1976):7532-7535.
- BC010 Baird, N.C. and Kathpal, H.B. "Relative Energies and Conformational Preferences of the Low-Lying Triplet States of Formamide." Chemical Physics Letters 43(1976):315-316.
- BC011 Baird, N.C. and Kathpal, H.B. "The Structure and Energetics of Low-Lying States of RCO and RNN Free Radicals." Canadian Journal of Chemistry 55(1977):863-868.
- BC012 Baird, N.C. and Wernette, D.A. "The Electronic Structures, Geometries and Relative Energies of Some N_2H_2 and N_2H_2^+ Systems." Canadian Journal of Chemistry 55(1977):350-354.

- BC013 Ball, R.G.; Bowman, N.J. and Payne, N.C. "Molecular Structure and Absolute Configuration of (-)₂₈₀-cis-Dichloro(1-methylamino-2(S)-aminopropane) platinum (II)." Inorganic Chemistry 15(1976):1704-1708.
- BC014 Ball, R.G. and Payne, N.C. "Chiral Phosphine Ligands in Asymmetric Synthesis. Molecular Structure and Absolute Configuration of (1,5-Cyclo-octadiene)-(2S,3S)-2,3-bis (Diphenylphosphino) Butanerhodium (I) Perchlorate Tetrahydrofuran Solvate." Inorganic Chemistry 16(1977):1187-1191.
- BC015 Ball, R.G. and Payne, N.C. "The Molecular Structure and Absolute Configuration of cis-Dichloro[(S)-methyl p-tolyl sulfoxide][(R)-styrene]platinum (II)." Inorganic Chemistry 15(1976):2494-2498.
- BC016 Bancroft, G.M.; Adams, I.; Lampe, H. and Sham, T.K. "An ESCA Study of Sn Organometallic Compounds: Solid State Broadening Effects." Journal of Electron Microscopy and Related Phenomena 9(1976):191-204.
- BC017 Bancroft, G.M.; Gudat, W. and Eastman, D.E. "Photoemission Studies of the Outer Core d Level Linewidths in Pb, In, and Sn Compounds Using Synchrotron Radiation." Journal of Electron Spectroscopy and Related Phenomena 10(1977):407-413.
- BC018 Bancroft, G.M. and Sham, T.K. "An Additive Treatment of ¹¹⁵In Nuclear Quadrupole Coupling Constants for Organoindium Compounds." Journal of Magnetic Resonance 25(1977):83-90.
- BC019 Bancroft, G.M. and Sham, T.K. "Mössbauer Studies of Electron Spin Relaxation and Radiolytic Effects in Diluted Tris(Acetylacetonato) Fe¹¹¹." Journal of the Chemical Society. Faraday Transactions 2 72(1976):1706-1715.
- BC020 Bancroft, G.M.; Sham, T.K.; Eastman, D.E. and Gudat, W. "Photoelectron Spectra of Solid Inorganic and Organometallic Compounds Using Synchrotron Radiation. Valence Bond Spectra and Ligand Field Broadening of Core d Levels." Journal of the American Chemical Society 99(1977):1752-1762.
- BC021 Bancroft, G.M.; Sham, T.K. and Larsson, S. "Configuration Interaction Satellites in the ESCA Spectra of Thorium and Other Actinide Compounds." Chemical Physics Letters 46(1977):551-557.
- BC022 Bancroft, G.M.; Sham, T.K.; Riddle, C.; Smith, T.E. and Turek, A. "Ferric/Ferrous-Iron Ratios in Bulk Rock Samples by Mössbauer Spectroscopy - The Determination of Standard Rock Samples G-2, GA, W-1 and Mica-Fe." Chemical Geology 19(1977):277-284.
- BC023 Bist, H.D. and Brand, J.C.D. "High Vibrational Levels and Vibronic Coupling in Nitrogen Dioxide." Journal of Molecular Spectroscopy 62(1976):60-61.
- BC024 Bist, H.D.; Parihar, J.S. and Brand, J.C.D. "The 341-nm Band System of Pyridine N-Oxide Assignment of the Out-of-Plane Fundamentals." Journal of Molecular Spectroscopy 64(1977):211-216.

- BC025 Bolton, J.R. and Warden, J.T. "Paramagnetic Intermediates in Photosynthesis." Annual Review of Plant Physiology 27(1976):375-383.
- BC026 Brand, J.C.D.; Hardwick, J.L. and Teo, K.E. "Laser-Excited Fluorescence of $^{15}\text{NO}_2$ and $^{18}\text{O}_2$." Canadian Journal of Physics 54(1976):1069-1076.
- BC027 Brand, J.C.D. and Hoy, A.R. "A Deconvolution of the $\tilde{A}-\tilde{X}$ Band System of Nitrogen Dioxide." Journal of Molecular Spectroscopy 65(1977):75-83.
- BC028 Brand, J.C.D. and Rao, Ch. V.S.R. "The Vibration-Rotation Problem in Triatomic Molecules Allowing for Two Large-Amplitude Stretching Vibrations." Journal of Molecular Spectroscopy 61(1976):360-370.
- BC029 Catlow, C.R.A.; Corish, J.; Diller, K.M.; Jacobs, P.W.M. and Norgett, M.J. "A Theoretical Study of Intrinsic and Extrinsic Defect Properties of Alkali Halides." Journal de Physique 37,12(1976):C7-253-259.
- BC030 Cheng, A.K. and Stothers, J.B. "Nuclear Magnetic Resonance Studies. XXX. Hydrogen-Deuterium Exchange in Bicyclo[3.2.1] and -[2.2.2]octenes through Allylic and Vinylic Anions." Canadian Journal of Chemistry 55(1977):50-55.
- BC031 Cheng, A.K.; Stothers, J.B. and Tan, C.T. "Nuclear Magnetic Resonance Studies. XXXI. Rearrangement and Deuterium Exchange through β -enolization in Bicyclo-octanones. An ^2H Nuclear Magnetic Resonance Study." Canadian Journal of Chemistry 55(1977):447-453.
- BC032 Corish, J.; Parker, B.M.C. and Jacobs, P.W.M. "Interionic Potentials for the Alkali Metal Chlorides." Canadian Journal of Chemistry 54(1976):3839-3849.
- BC033 Couture, A.; Ho, K.; Hoshine, M.; de Mayo, P.; Suau, R. and Ware, W.R. "Thione Photochemistry. Intramolecular Cyclization of Alkyl Thiones from S_2 ." Journal of the American Chemical Society 98(1976):6218-6225.
- BC034 Crump, D.B.; Stepaniak, R.F. and Payne, N.C. "Charge Distribution in Dioxygen Complexes of Cobalt (III). The Crystal Structure and Absolute Configuration of (+)546- Δ -cis- β -[2,13-Dimethyl-6,9-diphenyl-2,6,9,13-Tetraarstetradecane]-(Dioxygen)Cobalt(III)]Perchlorate." Canadian Journal of Chemistry 55(1977):438-446.
- BC035 Damude, L.C. and Dean, P.A.W. " η^2 -Arene Complexes of Cadmium(II) and Zinc(II)." Journal of Organometallic Chemistry 125(1977):C1-C4.
- BC036 Dave, V. and Warnhoff, E.W. "On the Putative Formation of Stable Enols." Tetrahedron Letters (1976):4695-4696.
- BC037 Dean, P.A.W.; Ibbott, D.G. and Bancroft, G.M. "New Examples of the Metal Basicity of Iron Pentacarbonyl." Journal of the Chemical Society Chemical Communications (1976):901-902.
- BC038 de Champlain, P.; Luche, J.-L.; Marty, R.A. and de Mayo, P. "Flash Thermolysis: Multiple Sigmatropic Rearrangements in Ortho-substituted Aromatic Compounds." Canadian Journal of Chemistry 54(1976):3749-3756.
- BC039 de Mayo, P. "Photochemistry from Higher Excited States." Afinidad 34, 343(1977):32-37.

- BC040 Freeland, B.H.; Hencher, J.L.; Tuck, D.G. and Contreras, J.G. "Coordination of Compounds of Indium. 32. Preparation and Properties of Hexahalogenatodiindate (II) Anions." Inorganic Chemistry 15(1976):2144-2146.
- BC041 Freeland, B.H. and Tuck, D.G. "Aluminium, Gallium, Indium, and Thallium." Annual Report in Inorganic and General Syntheses 4(1975):15-28.
- BC042 Giannotti, C. and Bolton, J.R. "Photochemical Electron Transfer Reactions in Alkylcobaloximes." Journal of Organometallic Chemistry 110(1976):383-388.
- BC043 Guthrie, J.P. "Enzyme Models and Related Topics." In Applications of Biochemical Systems in Organic Chemistry. Edited by J.B. Jones; C.J. Sih and D. Perlman. New York, New York: Wiley-Interscience, 1976. pp. 627-730.
- BC044 Guthrie, J.P. "Hydration and Dehydration of Phosphoric Acid Derivatives: Free Energies of Formation of the Pentacoordinate Intermediates for Phosphate Ester Hydrolysis and of Monomeric Metaphosphate." Journal of the American Chemical Society 99(1977):3991-4001.
- BC045 Guthrie, J.P. and Ueda, Y. "A Catalyst for Ester Hydrolysis Showing Electrostatic and Hydrophobic Binding Properties." Canadian Journal of Chemistry 54(1976):2745-2758.
- BC046 Hassner, A.; Cory, R.M. and Sartoris, N. "The Stereochemistry of Cycloadditions of Ketenes to Unsymmetrical Alkenes. Evidence of Nonparallel Transition States." Journal of the American Chemical Society 98(1976):7698-7704.
- BC047 Hor, A.M.; Jacobs, P.W.M. and Moodie, K.S. "Thermal Depolarization in Crystals of Potassium Chloride Containing Strontium Chloride." Physica Status Solidi (A) 38(1976):293-298.
- BC048 Hor, A.M.; Radhakrishna, S. and Jacobs, P.W.M. "Optical and Electrical Properties of Ammonium Perchlorate Doped with Chromate Ions." Canadian Journal of Physics 54(1976):1669-1675.
- BC049 Hui, M.H. and Ware, W.R. "Exciplex Photophysics. IV. Effect of Diffusion Controlled Quenching on Exciplex Photokinetics." Journal of the American Chemical Society 98(1976):4712-4717.
- BC050 Hui, M.H. and Ware, W.R. "Exciplex Photophysics. V. The Kinetics of Fluorescence Quenching of Anthracene by N,N-Dimethylaniline in Cyclohexane." Journal of the American Chemical Society 98(1976):4718-4727.
- BC051 Hunter, D.H.; Klinck, R.E.; Steiner, R.P. and Stothers, J.B. "Geometry and Rotational Barriers in 1,3,5-Triphenylpentadienyllithium by ¹H and ¹³C Nuclear Magnetic Resonance." Canadian Journal of Chemistry 54(1976):1464-1471.
- BC052 Hunter, D.H. and Perry, R.A. "Synthetic Applications of Crown Ethers: The Malonic Ester Synthesis." Synthesis (1977):37-39.

- BC053 Hunter, D.H.; Sim, S.K. and Steiner, R.P. "Effect of Aza-Substitution on the Geometry and Electrocyclization of Pentadienyl Anions: An Apparent Exception to the Woodward-Hoffmann Rules?" Canadian Journal of Chemistry 55(1977):1229-1241.
- BC054 Jacobs, P.W.M.; Stillman, M.J.; Gannon, K.O. and Simkin, D.J. "Magnetic Circular Dichroism in the A,B and C Absorption of KBr:In^+ ." Chemical Physics Letters 42(1976):530-532.
- BC055 King, J.F.; Beatson, R.P. and Buchshriber, J.M. "Organic Sulfur Mechanisms. 20. Sulfenes from l-Haloalkanesulfinic Acids: The 'Abnormal Route'." Canadian Journal of Chemistry 55(1977):2323-2330.
- BC056 King, J.F. and Harding, D.R.K. "Organic Sulfur Mechanisms. 19. Sulfene-Tertiary Amine Zwitterions and Base Size Effects in Sulfene Condensations." Canadian Journal of Chemistry 54(1976):2652-2657.
- BC057 King, J.F. and Loosmore, S.M. "S₂' Catalysis and Sulphene Formation." Journal of the Chemical Society, Chemical Communications (1976):1011-1012.
- BC058 Klinck, R.E. and Stothers, J.B. "¹³C Nuclear Magnetic Resonance Studies. 61. The Effect of Solute-Solvent Association on Internal Rotation in Substituted Benzaldehydes." Canadian Journal of Chemistry 54(1976): 3267-3271.
- BC059 Lawrence, A.H.; Liao, C.C.; de Mayo, P. and Ramamurthy, V. "Thione Photochemistry. Mechanism of the Short-Wavelength Cycloaddition of Adamantaethione: Evidence for an Excimer Derived from S₂." Journal of the American Chemical Society 98(1976):3572-3579.
- BC060 Lewis, C. and Ware, W.R. "Quenching of Toluene Fluorescence by Oxygen." Journal of the Chemical Society. Faraday Transactions 2,72(1976):1851-1859.
- BC061 Lorimer, J.W. "Non-Isothermal Transport Phenomena in Charged Gels and Membranes." In Charged Gels and Membranes II. Edited by E. Sélégný. Dordrecht, Holland: Reidel, 1976. pp.45-62.
- BC062 Loutfy, R.O. and de Mayo, P. "On the Mechanism of Enone Photoannulation: Activation Energies and the Role of Exciplexes." Journal of the American Chemical Society 99(1977):3559-3565.
- BC063 Lyke, R.L. and Ware, W.R. "An Instrument for Vacuum Ultraviolet Fluorescence Lifetime Measurements." Review of Scientific Instruments 48(1977): 320-326.
- BC064 Macdonald, J.R. and Jacobs, P.W.M. "Some Aspects of Polarization in Ionic Crystals with Electrode Reactions." Journal of Physics and Chemistry of Solids 37(1976):1117-1123.
- BC065 McIntosh, A.R. and Bolton, J.R. "Electron Spin Resonance Spectrum of Species "X" which May Function as the Primary Electron Acceptor in Photosystem I of Green Plant Photosynthesis." Biochimica et Biophysica Acta 430(1976):555-559.

- BC066 McIntosh, A.R. and Bolton, J.R. "Triplet State Involvement in Primary Photochemistry of Photosynthetic Photosystem II." Nature 263(1976): 443-445.
- BC067 Moloney, J.V. and Meath, W.J. "Phase and Temporal Average Transition Probabilities for a Multilevel System in a Sinusoidal Field." Molecular Physics 31(1976):1537-1548.
- BC068 Ng, K.C.; Meath, W.J. and Allnatt, A.R. "Charge Overlap Effects and the Validity of the Multipole Results for First-Order Molecule-Molecule Interaction Energies. Formalism and an Application to H_2-H_2 ." Molecular Physics 32(1976):177-194.
- BC069 Ng, K.C.; Meath, W.J. and Allnatt, A.R. "Validity of the Multiple Results for First-Order Molecule-Molecule Interaction Energies. Dependence on the Nature of the Nature of the Interaction Using $(HF)_2$, $(LiH)_2$ and $(N_2)_2$ as Models." Molecular Physics 33(1977):699-715.
- BC070 O'Connor, D.V. and Ware, W.R. "Exciplex Photophysics. III. Kinetics of Fluorescence Quenching of α -Cyanonaphthalene by Dimethylcyclopentene-1,2 in Hexane." Journal of the American Chemical Society 98(1976): 4706-4711.
- BC071 Parmenter, C.S.; Tang, K.Y. and Ware, W.R. "Band Intensities in SVL Fluorescence from C_6H_6 Vapor: Franck-Condon Factors. Fermi Resonances, and a Quantitative Test of Herzberg-Teller Theory." Chemical Physics 17 (1976):359-376.
- BC072 Rampersad, M.B. and Stothers, J.B. "Skeletal Rearrangements through Homo-enolizable Methyl Groups in Acyclic Ketones. The Effect of Strain on the Regioselectivity of β -enolate Cleavage." Journal of the Chemical Society, Chemical Communications (1976):709-711.
- BC073 Rushbrook Williams, S.J.C. and Allnatt, A.R. "Isothermal Diffusion of ^{54}Mn in Pure NaCl and KCl and of ^{85}Sr in KCl." Journal of Physics C: Solid State Physics 10(1977):1151-1157.
- BC074 Rushbrook Williams, S.J.C. and Allnatt, A.R. "Thermotransport of ^{85}Sr and ^{54}Mn in Potassium Chloride Single Crystals." Journal de Physique 37,12(1976):C7-371-372.
- BC075 Rushbrook Williams, S.J.C. and Allnatt, A.R. "Thermotransport of ^{85}Sr and ^{54}Mn in Potassium Chloride Single Crystals." Journal of Chemical Physics 66(1977):2272-2281.
- BC076 Rushbrook Williams, S.J.C. and Allnatt, A.R. "Thermotransport of Manganese Ions in Sodium Chloride Single Crystals." Journal of the Chemical Society. Faraday Transactions 1,73(1977):1093-1097.
- BC077 Springall, J.; Stillman, M.J. and Thomson, A.J. "Low Temperature Magnetic Circular Dichroism Spectra of Met- and Myoglobin Derivatives." Biochimica et Biophysica Acta 453(1976):494-501.

- BC078 Stillman, M.J.; Hollebone, B.R. and Stillman, J.S. "Characterization of the Chromophores in Horseradish Peroxidase Compounds I and II Using Magnetic Circular Dichroism." Biochemical and Biophysical Research Communications 72(1976):554-559.
- BC079 Stillman, M.J. and Thomson, A.J. "Emission Spectra of Some Lanthanoid Decatungstate and Undecatungstosilicate Ions." Journal of the Chemical Society, Dalton Transactions (1976):1138-1144.
- BC080 Stoessl, A.; Stothers, J.B. and Ward, E.W.B. "Sesquiterpenoid Stress Compounds of the Solanaceae." Phytochemistry 15(1976):855-872.
- BC081 Stoessl, A.; Ward, E.W.B. and Stothers, J.B. "Incorporation of Doubly Labelled Sodium Acetate-¹³C₂ into Phytuberin and Other Sesquiterpenes in Potatoes: Experimental Confirmation of Postulated C-C Cleavages." Tetrahedron Letters (1976):3271-3274.
- BC082 Stothers, J.B. and Tan, C.T. "¹³C Nuclear Magnetic Resonance Studies. 64. The ¹³C Spectra of a Variety of Bicyclo [3.2.1.]Octanols." Canadian Journal of Chemistry 55(1977):841-848.
- BC083 Ware, W.R.; Garcia, A.M.; Parmenter, C.S.; Schuh, M.D. and Tang, K.Y. "New Measurements of SVL Lifetimes and Quantum Yields in Benzene Vapor: Herzberg-Teller Comparisons of Radiative Transition Probabilities." Chemical Physics 17(1976):377-389.
- BC084 Ware, W.R. and Rothman, W. "Relative Fluorescence Quantum Yields Using an Integrating Sphere. The Quantum Yield of 9,10-Diphenylanthracene in Cyclohexane." Chemical Physics Letters 39(1976):449-453.
- BC085 Warnhoff, E.W. "A Base-Induced Transannular 1,4-Hydride Shift in a Cyclohexanone." Journal of the Chemical Society. Chemical Communications (1976):517-518.
- BC086 Warnhoff, E.W. "Intramolecular Hydride Shifts in 4-Hydroxycyclohexanones." Canadian Journal of Chemistry 55(1977):1635-1643.
- BC087 Warnhoff, E.W. and Srinivasaw, V. "Intramolecular Alkylation of a Ketone by 1,2-Epoxy Groups of Differing Stereochemistry." Canadian Journal of Chemistry 55(1977):1629-1634.
- BC088 Willis, C.J. Problem-Solving in General Chemistry. Boston, Massachusetts: Houghton Mifflin, 1977.

Department of Computer Science

- BD001 Carroll, J.M. "Canada". In Informatics and Administration. Edited by G. Braibant. Brussels, Belgium: International Institute of Administrative Sciences, 1977. pp.138-147.
- BD002 Carroll, J.M. "Canadian Capability for Computer Security". Learned Societies; Computer Science Association. Conference Proceedings. University of New Brunswick, Fredericton, New Brunswick. May 1977. pp. 53-62.

- BD003 Carroll, J.M. Computer Security Research Catalogue. Final Report. Ottawa, Ontario: Department of Communications, 1977.
- BD004 Carroll, J.M. Data Base and Computer Systems Security. Wellesley, Massachusetts, QED Information Sciences, 1976.
- BD005 Carroll, J.M. and Tague, J.M. "Community Information Centers and the Computer (L'Ordinateur et les Renseignements Populaire)". L'Association Canadienne des Sciences de l'Information. Canadian Association for Information Science. Proceedings of the Third Open Conference on Information Science in Canada. Quebec, Quebec. May 1975. pp.1-7.
- BD006 Davies, D.J.M. "POPLER 1.5 Functional Specification". Research Report no. 27. London, Ontario, University of Western Ontario, Department of Computer Science, 1976.
- BD007 Dewdney, A.K. "The Bandwidth of a Graph - Some Recent Results." Proceedings of the Seventh Southeastern Conference on Combinatorics and Computing. Louisiana State University, Baton Rouge, Louisiana. February 1976. pp.275-288.
- BD008 Dewdney, A.K. "Intersection Numbers of a Complex." Aequationes Mathematicae 14,3(1976):357-362.
- BD009 Dewdney, A.K. and Harary, F. "The Adjacency Graphs of a Complex". Czechoslovak Mathematical Journal 26,101(1976):137-144.
- BD010 Dixon, A.H. "Implementation of a 'Vision System'." CSCSI/SCEIO Newsletter 1,3(1976):41-43.
- BD011 Dunham, C.B. "Alternating Chebyshev Approximation with a Non-Continuous Weight Function". Canadian Mathematical Bulletin 19,2(1976):155-157.
- BD012 Dunham, C.B. "Chebyshev Approximation by First Degree Rationals on 2-Space". Journal of Approximation Theory 16,4(1976):338-340.
- BD013 Dunham, C.B. "Density of Complex Q-Polynomials". Studia Scientiarum Mathematicarum Hungarica 9(1974):305-306.
- BD014 Dunham, C.B. "Discrete Minimax Approximation by 2 Exponentials". Research Report no. 32. London, Ontario: University of Western Ontario, Department of Computer Science, 1977.
- BD015 Dunham, C.B. "The Limit of Mean Transformed Rational Approximation on Subsets". Journal of Approximation Theory 19,3(1977):195-199.
- BD016 Dunham, C.B. "Nonexistence of Best Alternating Approximations on Subsets". Proceedings of the American Mathematical Society 60(1976): 203-206.
- BD017 Dunham, C.B. "Remark on Algorithm 500". ACM Transactions on Mathematical Software 3,1(1977):112.

- BD018 Dunham, C.B. "Simultaneous Approximation of a Set". Research Report no. 33. London, Ontario: University of Western Ontario, Department of Computer Science, 1977.
- BD019 Dunham, C.B. "Transformed Rational Chebyshev Approximation". Journal of Approximation Theory 19,3(1977):200-204.
- BD020 Dunham, C.B. "Transformed Rational Chebyshev Approximation". Technical Report no. 30. London, Ontario: University of Western Ontario, Department of Computer Science, 1977.
- BD021 Elcock, E.W. "Representation of Knowledge in a Geometry Machine." In Machine Intelligence 8. Edited by E.W. Elcock and D. Michie. Chichester, England: Ellis Horwood, 1977. pp.11-29.
- BD022 Elcock, E.W. and Michie, D. (Editors) Machine Intelligence 8. Chichester, England: Ellis Horwood, 1977.
- BD023 Garganti, I. "Comparing Parallel Newton's Method with Parallel Laguerre's Method". Computers and Mathematics with Applications 2(1976):201-206.
- BD024 Garganti, I. "Parallel Laguerre Iterations: The Complex Case". Numerische Mathematik 26(1976):317-323.
- BD025 Harper, M.; Hart, J.F.; Kidd, D. and McHardy, L. "Experiments with the 'Learning Centre Cafeteria' Model". Proceedings of the Second Canadian Conference on Instructional Technology. Laval University, Quebec, Quebec. June 1976. pp. 441-450.
- BD026 Kuehner, D.G. "The Aximatisation of STRIPS as a Predicate Calculus Program". Proceedings of the First Canadian Society for Computational Studies of Intelligence. National Conference. University of British Columbia, Vancouver, British Columbia. August 1976. pp.203-213.
- BD027 Mullin, J.K. "The Effect of Input/Output Operations on Program and System Performance". In System Tuning. (INFOTECH State of the Art Report). Edited by G.H. White. Berkshire, England: INFOTECH International, 1977. pp.325-333.
- BD028 Szilard, A.L. "What Turns Computers On?" Recursive Definitions and Processes". Science Terrapin 3,2(1977):5-9.

Department of Geology

- BE001 Andrews, A.J. and Fyfe, W.S. "Metamorphism and Massive Sulphide Generation in Oceanic Crust". Geoscience Canada 3,2(1976):84-94.
- BE002 Bancroft, G.M.; Brown, J.R. and Fyfe, W.S. "Quantitative X-Ray Photoelectron Spectroscopy (ESCA): Studies of Ba²⁺ Sorption on Calcite". Chemical Geology 19(1977):131-144.
- BE003 Church, W.R. "Ages of Zircons from the Bay of Islands Ophiolite Complex, Western Newfoundland: Comment". Geology October (1976):623-624.

- BE004 Church, W.R. and Coish, R.A. "Oceanic Versus Island Arc Origin of Ophiolites". Earth and Planetary Science Letters 31(1976):8-14.
- BE005 Church, W.R. and Riccio, L. "Fractionation Trends in the Bay of Islands Ophiolite of Newfoundland: Polycyclic Cumulate Sequences in Ophiolites and their Classification". Canadian Journal of Earth Sciences 14(1977): 1156-1165.
- BE006 Dreimanis, A. "Late Wisconsin Glacial Retreat in the Great Lakes Region, North America". Annals of the New York Academy of Sciences 288(1977): 70-89.
- BE007 Dreimanis, A. "Progress Report on Late Pleistocene Stratigraphy of Southeastern Canada". In Quaternary Glaciations in the Northern Hemisphere; Project 73-1-24, Report number 3. Edited by D.J. Easterbrook; and V. Sibrava. Washington, District of Columbia: IUGS-UNESCO International Geological Correlation Program, 1976. pp.240-249.
- BE008 Dreimanis, A. "Progress Report on Project 1974 - A Genetic Classification of Till". Uniwersytet im. Adama Mickiewicza w Poznaniu - Seria Geografia NR 12. (1976):9-11.
- BE009 Duke, N.A. and Edgar, A.D. "Petrology of the Blue Mountain and Bigwood Felsic Alkaline Complexes of the Grenville Province of Ontario". Canadian Journal of Earth Sciences 14,4,part 1(1977):515-538.
- BE010 Edgar, A.D. "A Comment on 'Aegaeity Revisited: Pattern Recognition in the Chemistry of Nepheline Syenite Rocks' by Dagbert et al." Geochimica et Cosmochimica Acta 41(1977):439-440.
- BE011 Edgar, A.D. Preface to "Water and Magna Genesis; Proceedings of a Symposium Held on the Occasion of the Joint Annual Meetings of the Mineralogical Association of Canada, Geological Society of Canada (north-central section), National Association of Geology Teachers (east-central section), Paleontological Society (north-central section) and the Pander Society at the University of Waterloo, Waterloo, Ontario, May 15-17, 1975." Canadian Mineralogist 14(1976):225-227.
- BE012 Edgar, A.D.; Green, D.H. and Hibberson, W.O. "Experimental Petrology of a Highly Potassic Magma". Journal of Petrology 17,3(1976):339-356.
- BE013 Evenson, E.B. and Dreimanis, A. "Late Glacial (14,000-10,000 Years B.P.) History of the Great Lakes Region and Possible Correlations". In Quaternary Glaciations in the Northern Hemisphere. Project 73-1-24. Report number 3. Edited by D.J. Easterbrook and V. Sibrava. Washington, District of Columbia: IUGS-UNESCO International Geological Correlation Program, 1976. pp.217-239.
- BE014 Fleet, M.E. "Axial Ratios of MX Compounds with the Wurtzite Structure". Materials Research Bulletin 11,9(1976):1179-1184.
- BE015 Fleet, M.E. "The Crystal Structure of Heazlewoodite, and Metallic Bonds in Sulfide Minerals". American Mineralogist 62(1977):341-345.

- BE016 Fleet, M.E. "Stacking Disorder in Natural 2H Wurtzite". Journal of Applied Crystallography 9,3(1976):190-192.
- BE017 Fleet, M.E. "Structural Chemistry of Marcasite and Pyrite Type Phases". Zeitschrift für Kristallographie 142(1975):332-346.
- BE018 Francis, C.A.; Fleet, M.E.; Misra, K. and Craig, J.R. "Orientation of Exsolved Pentlandite in Natural and Synthetic Nickiliferous Pyrrhotite". American Mineralogist 61(1976):913-920.
- BE019 Fryer, B.J. "Rare Earth Evidence in Iron-Formations for Changing Precambrian Oxidation States". Geochimica et Cosmochimica Acta 41 (1977):361-367.
- BE020 Fryer, B.J. and Edgar, A.D. "Significance of Rare Earth Distributions in Coexisting Minerals of Peralkaline Undersaturated Rocks". Contributions to Mineralogy and Petrology 61,1(1977):35-48.
- BE021 Fyfe, W.S. "Chemical Aspects of Rock Deformation". Philosophical Transactions. Royal Society of London. Series A 283(1976):221-228.
- BE022 Fyfe, W.S. "How Approximate are the Laws of Plate Tectonics?" Nature 262(1976):645.
- BE023 Fyfe, W.S. "Hydrosphere and Continental Crust: Growing or Shrinking?" Geoscience Canada 3,2(1976):82-83.
- BE024 Fyfe, W.S. "Presentation of the Mineralogical Society of America Award for 1975 to Roger George Burns". American Mineralogist May-June(1976): 514-515.
- BE025 Fyfe, W.S. "The Water Inventory for Earth". Proceedings of the Colloquium on Water in Planetary Regoliths. Hanover, New Hampshire. October 1976. pp.2-4.
- BE026 Fyfe, W.S. and Kerrich, R. "Geochemical Prospecting: Extensive Versus Intensive Factors". Journal of Geochemical Exploration 6(1976):177-192.
- BE027 Jordan, T.H. and Fyfe, W.S. "Lithosphere-Asthenosphere Boundary". Geology 4(1976):770-772.
- BE028 Lenz, A.C. "Lower Devonian Brachiopod Communities of the Northern Canadian Cordillera". Lethaia 9(1976):19-27.
- BE029 Lenz, A.C. "Reply to Johnson and Potter". ("Late Ordovician-Early Silurian Glaciation and the Ordovician-Silurian Boundary in the Northern Canadian Cordillera: Comments and Replies"). Geology 4(1976):795-796.
- BE030 Lenz, A.C. "Reply to Miller". ("Late Ordovician-Early Silurian Glaciations and the Ordovician-Silurian Boundary in the Northern Canadian Cordillera: Comments and Replies"). Geology 4(1976):797.
- BE031 Lenz, A.C. "Yukon Territory". In The Silurian-Devonian Boundary. Stuttgart, Germany: IUGS Series A, no.5, 1977. pp.272-280.

- BE032 Leonardos, O.H.; Fyfe, W.S. and Fuck, R.A. "Panafrikan Thrusting and Melting within the Brazilian Continental Margin". Anals da Academia Brasileira de Ciencias 48(1976):153-158.
- BE033 MacRae, N.D. Review of Short Course in Microbeam Techniques. Edited by D.G.W. Smith. Toronto, Ontario: Mineralogical Association of Canada, 1976. In Geoscience Canada 4,2(1977):103.
- BE034 MacRae, N.D.; Grant, M. and Kullerud, G. "A Note on the Sulphurization of Fe-Tremolite". Geological Magazine 113,6(1976):575-578.
- BE035 Newton, R.C. and Fyfe, W.S. "High Pressure Metamorphism". In The Evolution of the Crystalline Rocks. Edited by D.K. Bailey and R. Macdonald. New York, New York: Academic Press, 1977. pp.101-186.
- BE036 Starkey, J. "The Contouring of Orientation Data Represented in Spherical Projection". Canadian Journal of Earth Sciences 14,2(1977):268-277.
- BE037 Tuck, G.J.; Stacey, F.D. and Starkey, J. "A Search for the Peizoelectric Effect in Quartz-Bearing Rocks". Tectonophysics 39(1977):T7-T11.
- BE038 Winder, C.G. "Enigmatic Objects in North American Ordovician Carbonates". In The Ordovician System: Proceedings of a Palaeontological Association Symposium. Edited by M.G. Bassett. Birmingham, England: University of Wales Press and National Museum of Wales, Cardiff, 1976. pp.645-657.
- BE039 Young, G.M. and Long, D.G.F. "Stromatolites and Basin Analysis: An Example from the Upper Proterozoic of Northwestern Canada". Palaeogeography, Palaeoclimatology, Palaeoecology 19(1976):303-318.

Department of Geophysics

- BF001 Beck, A.E. "Geothermal Measurements in Five Small Lakes of Northwest Ontario: Discussion". Canadian Journal of Earth Sciences 14,2(1977): 332-334.
- BF002 Beck, A.E. "An Improved Method of Computing the Thermal Conductivity of Fluid-Filled Sedimentary Rocks". Geophysics 41,1(1976):133-144.
- BF003 Beck, A.E. "The Use of Thermal Resistivity Logs in Stratigraphic Correlation". Geophysics 41,2(1976):300-309.
- BF004 Beck, A.E.; Hamza, V.M. and Chang, C.C. "Analysis of Heat Flow Data-Correlation of Thermal Resistivity and Shock Metamorphic Grade and its Use as Evidence for an Impact Origin of the Brent Crater". Canadian Journal of Earth Sciences 13,7(1976):929-936.
- BF005 Carmichael, C.M. Introduction to "Paleomagnetic Field Intensity: Its Measurements in Theory and Practice". Physics of the Earth and Planetary Interiors 13(1977):v-vii.

- BF006 Carmichael, C.M. "Magnetization and Suitability for Paleomagnetic Field Intensity Measurements of Selected Samples from Sites 332, 334, and 335 of Leg 37 DSDP". Canadian Journal of Earth Sciences 14,4,part 2 (1977):745-755.
- BF007 Carmichael, C.M. "Paleointensity Studies of Oceanic Basalts from DSDP Leg 37 and NRM/ARM Ratios of Oceanic and Recent Lavas." Physics of the Earth and Planetary Interiors 13(1977):332-338.
- BF008 Conaway, J.G. "Deconvolution of Temperature Gradient Logs". Geophysics 42,4(1977):823-837.
- BF009 Darbha, D.M. and Schloessin, H.H. "Anisotropic Lattice Thermal Conductivity of α -Quartz as a Function of Pressure and Temperature". In Thermal Conductivity 14. Edited by P.G. Klemens and T.K. Chu. New York, New York: Plenum, 1976. pp.183-190.
- BF010 Grant, J.A. and Mansinha, L. "Seismic Magnitude from Fourier Analysis". Bulletin of the Seismological Society of America 67,2(1977):453-461.
- BF011 Hayatsu, A. and Carmichael, C.M. "Removal of Atmospheric Argon Contamination and the Use and Misuse of the K-Ar Isochron Method". Canadian Journal of Earth Sciences 14,3(1977):337-345.
- BF012 Langel, R.A.; Mereu, R.F.; Knopoff, L. and Brown, R. "Analysis, Processing and Interpretation of Geophysical Data". Physics of the Earth and Planetary Interiors. Special Issue, August(1976):iv-v.
- BF013 Mansinha, L. and Shen, P.Y. "Core Stability and Earth Tides." Tectonophysics 35(1976):285-293.
- BF014 Mansinha, L. and Shen, P.Y. "Rotational Deformation of the Earth". Physics of the Earth and Planetary Interiors 11(1976):200-206.
- BF015 Mereu, R.F. "Exact Wave-Shaping with a Time-Domain Digital Filter of Finite Lengths". Geophysics 41,4(1976):659-672.
- BF016 Mereu, R.F. "High-Resolution Time-Series Analysis with an Error-Free Wave-Shaping Filter of Finite Length". Physics of the Earth and Planetary Interiors 12(1976):232-236.
- BF017 Mereu, R.F.; Majumdar, S.C. and White, R.E. "The Structure of the Crust and Upper Mantle under the Highest Ranges of the Canadian Rockies from a Seismic Refraction Survey". Canadian Journal of Earth Sciences 14,2 (1977):196-208.
- BF018 Ram, A. and Mereu, R.F. "Lateral Variations in Upper-Mantle Structure around India as Obtained from Guaribidanur Seismic Array Data." Royal Astronomical Society. Geophysical Journal 49(1977):87-113.
- BF019 Schloessin, H.H. "A Comparison of the Effects of Pressure, Temperature, and H₂O Adsorption and Desorption on the Electrical Conductivity of Basalts". Journal of Geophysical Research 81,23(1976):4077-4086.

- BF020 Schloessin, H.H. "On the Pressure Dependence of Solidus Temperatures and Electrical Conductivity during Melting of JOIDES Leg 37 Samples". Canadian Journal of Earth Sciences 14,4, part 2(1977):756-767.
- BF021 Schloessin, H.H. and Timco, G.W. "On the Problem of the Ferroelectric Inclusion in a Matrix Subjected to Pressure". Ferroelectrics 14(1976): 729-730.
- BF022 Shen, P.Y. and Mansinha, L. "Oscillation, Nutation and Wobble of an Elliptical Rotating Earth with Liquid Outer Core". Royal Astronomical Society. Geophysical Journal 46(1976):467-496.
- BF023 Timco, G.W. and Schloessin, H.H. "Dielectric Properties of Ferroelectric Perovskite $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ Ceramics in a Solid Matrix Subjected to Pressure". High Temperatures - High Pressures 8(1976):73-82.
- BF024 Timco, G.W. and Schloessin, H.H. "The Effects of High Pressure and Temperature on the Dielectric Constant of Ferroelectric Perovskite Ceramic PZT-4." Ferroelectrics 11(1976):409-412.

Department of Mathematics

- BG001 Ali, M.M. "An Alternative Proof of Order Statistics Moment Problem". Canadian Journal of Statistics 4,1(1976):151-153.
- BG002 Ali, M.M. "Geometric Proof of a Bound in Order Statistics". Canadian Journal of Statistics. Section D: Notes & Students' Corner 4,2(1976): 315-318.
- BG003 Baskerville, J.C. and Solomon, D.L. "Bayes Two-Decision Procedures for Two-Sample Problems and Rank-Order Data". Canadian Journal of Statistics 3,2(1975):187-201.
- BG004 Berglund, J.F. and Milnes, P. "Algebras of Functions on Semitopological Left-Groups". Transactions of the American Mathematical Society 222 (1976):157-178.
- BG005 Borwein, D. and Cass, F.P. "Equivalence of Riesz Methods of Summability". Journal of the London Mathematical Society. Series 2. 13(1976):205-208.
- BG006 Borwein, D. and Shawyer, B.L.R. "On Functional Cesaro and Holder Methods of Summability". Canadian Journal of Mathematics 28,5(1976):1058-1061.
- BG007 Borwein, D. and Watson, B. "A Tauberian Theorem for Abelian Summability Methods". Journal fur die Reine und Angewandte Mathematik 285 (1976):75-76.
- BG008 Bruen, A.A. "Some New Replaceable Translation Nets". Canadian Journal of Mathematics 29,2(1977):225-237.
- BG009 Bruen, A.A. and Thas, J.A. "Flocks, Chains and Configurations in Finite Geometries." Accademia Nazionale Dei Lincei Rome - Rendiconti della Classe di Scienze Fische, Matematiche e Naturali. 59, Series 8, fasc. 6 (1975):744-748.

- BG010 Bruen, A.A. and Thas, J.A. "Partial Spreads, Packings and Hermitian Manifolds in $PG(3,q)$ ". Mathematische Zeitschrift 151(1976):207-214.
- BG011 Chacron, M. and Thierrin, G. "An Algebraic Dependence over the Quasi-Centre". Annali di Matematica Pura ed Applicata 110,4(1976):1-14.
- BG012 Ditor, S.Z. and Haydon, R. "On Absolute Retracts $P(S)$, and Complemented Subspaces of $\mathcal{C}(D^1)$ ". Studia Mathematica 56(1976):243-251.
- BG013 Haq, M.S. "On Marginal Likelihood Inference about the Parameters of Linearly Related Responses". Statistische Hefte 16,1(1975):2-13.
- BG014 Haq, M.S. and Ng, V.M. "A Note on Structural Distribution of the Intra-Class Correlation Coefficient". Statistische Hefte 17,3(1976):205-210.
- BG015 Haq, M.S. and Rinco, S. " \mathcal{B} -Expectation Tolerance Regions for a Generalized Multivariate Model with Normal Error Variables". Journal of Multivariate Analysis 6,3(1976):414-421.
- BG016 Holsztynski, W. "Initial and Universal Metric Spaces". Proceedings of the American Mathematical Society 58(1976):306-310.
- BG017 Holsztynski, W. "On the Product and Composition of Universal Mappings of Manifolds into Cubes". Proceedings of the American Mathematical Society 58(1976):311-314.
- BG018 Holsztynski, W. "Precise Generators of Modules over Monoid Algebras". American Journal of Mathematics 99,1(1977):191-224.
- BG019 Holsztynski, W. and Kuperberg, W. "On a Property of Tetrahedra". Alabama Journal of Mathematics 1,1(1977):40-42.
- BG020 Kruglak, H. and Moore, J.T. Teoria Problemas de Matematicas Aplicadas a Ciencia y Tecnologia. (Serie de Compendios Schaum). Toronto, Ontario: McGraw-Hill, 1976.
- BG021 Madsen, I.; Snaithe, V.P. and Tornehave, J. "Infinite Loop Maps in Geometric Topology". Cambridge Philosophical Society. Mathematical Proceedings 81(1977):399-430.
- BG022 Miller, C.B. and Rajagopalan, M. "Topologies in Locally Compact Groups, III". Proceedings of the London Mathematical Society. Third Series 31(1975):55-78.
- BG023 Milnes, P. "Compactifications of Semitopological Semigroups II". Journal of the Australian Mathematical Society Series A - Part 2 22(1976):129-134.
- BG024 Milnes, P. "Continuity of Coordinate Functionals". Mathematics Magazine 49,3(1976):139.
- BG025 Milnes, P. "An Extension Theorem for Functions on Semigroups". Proceedings of the American Mathematical Society 55,1(1976):152-154.

- BG026 Panjer, H.H. "Discussion of Preceding Paper". ["A Probabilistic Model for (Life) Contingencies and a Delta-Free Approach to Contingency Reserves" by H.U. Gerber]. Transactions of the Society of Actuaries 28(1976):143-145.
- BG027 Panjer, H.H. "Discussion of Preceding Paper". ["Some Practical Considerations in Connection with the Calculation of Stop-Loss Premiums" by H.U. Gerber and D.A. Jones] Transactions of the Society of Actuaries 28(1976):233-235.
- BG028 Rankin, S.A.; Reis, C.M. and Wang, M.L. "Globally Abelian Transformation Semigroups". Semigroup Forum 13(1977):221-228.
- BG029 Robinson, I.J.W. and Borwein, D. "A Tauberian Theorem for Borel-Type Methods of Summability". Journal fur die Reine und Angewandte Mathematik 273(1975):153-164.
- BG030 Shyr, H.J. and Thierrin, G. "Preorder Relations Associated with Developmental Systems and Languages. In Automata, Languages, Development. Edited by A. Lindemayer, and G. Rozenberg. New York, New York: North-Holland, 1976. pp.301-311.
- BG031 Shyr, H.J. and Thierrin, G. "Some Properties of the (n,k) -Languages". Tamkang Journal of Mathematics 6,2(1975):281-284.
- BG032 Snaith, V.P. "The Complex J-Homomorphism, I". Proceedings of the London Mathematical Society. Series - 3 34(1977):269-302.
- BG033 Snaith, V.P. "Infinite Loop Maps and the Complex J-Homomorphism". Bulletin of the American Mathematical Society 82,3(1976):508-510.
- BG034 Snaith, V.P. "A Note on Symmetric Maps for Spheres". Mathematica Scandinavica 38(1976):78-80.
- BG035 Snaith, V.P. "Some Nilpotent H-Spaces". Osaka Journal of Mathematics 13(1976):145-156.
- BG036 Snaith, V.P. "The Total Chern and Stiefel-Whitney Classes are Not Infinite Loop Maps". Illinois Journal of Mathematics 21(1977):300-304.
- BG037 Snaith, V.P. "Towards Algebraic Cobordism". Bulletin of the American Mathematical Society 83,3(1977):384-385.
- BG038 Thierrin, G. "A Characterization of the Commutator Subgroup of a Group". Canadian Mathematical Bulletin 19,1(1976):93-94.
- BG039 Thierrin, G. "Regular Prefix Codes and Right Power-Bounded Languages". Semigroup Forum 13(1976):77-83.
- BG040 Vbranch, J. "On Critical $r, /$ -Systems". Canadian Mathematical Bulletin 19,2(1976):217-220.
- BG041 Wonnacott, T.H. and Wonnacott, R.J. Introductory Statistics for Business and Economics. 2nd ed. (Wiley Series in Probability and Mathematical Statistics). Toronto, Ontario: Wiley, 1977.

Department of Physics

- BH001 Borwein, B.; Sanwal, M.; Medeiros, J.A. and McGowan, J.W. "Scanning Electron Microscopy of Normal and Lased Rabbit Retina". Canadian Journal of Ophthalmology 11,4(1976):309-322.
- BH002 Box, S.J.C.; John, P.K. and Byszewski, W.W. "Interaction of a CO₂ Laser Beam with a Shock-Tube Plasma". Journal of Applied Physics 48,5(1977):1946-1952.
- BH003 Boyd, R.N.; Alford, W.P.; Flynn, E.R. and Hardekopf, R.A. "⁷(t,p) Reaction to Unnatural Parity Levels in ⁵⁸Fe and ⁶⁰Ni". Physical Review C 15,3(1977):1160-1163.
- BH004 Boyd, R.N.; Elmore, D.; Alford, W.P.; Draayer, J.P. and Lindgren, R.A. "Levels in ²⁸Si via the ²⁶Mg (³He,n) Reaction". Physical Review C 14,1(1976):4-7,
- BH005 Boyd, R.N.; Elmore, D.; Clement, H.; Alford, W.P.; Kuehner, J.A. and Jones, G.D. "Positive Parity Levels in ⁴¹Ca Populated in the ⁴⁰Ca (d,p) ⁴¹Ca(J⁺) Reaction". Physical Review C 14,3(1976):946-951.
- BH006 Boyd, R.N.; Gunn, G.D.; Clement, H.; Alford, W.P.; Taylor, T₅₃; Ikossi, P. and Cameron, J.A. "The Structure of Low-Lying Levels in ⁵³Cr". Nuclear Physics A277(1977):119-125.
- BH007 Brannen, E. and Kucerovsky, Z. "Laser Heterodyne Techniques". CRS Report QE-10. London, Ontario: University of Western Ontario, 1976.
- BH008 Choo, F.C. and Tong, B.Y. "The Electronic DOS for Different Models of Amorphous Ge". In International Conference on Structure and Excitations of Amorphous Solids. Edited by G. Lucovsky and F.L. Galeener. New York, New York: American Institute of Physics, 1976. p.58-62.
- BH009 Elmore, D. and Alford, W.P. "Proton Transfer Studies of ¹⁷²Lu". Physical Review C 14,2(1976):583-589.
- BH010 Elmore, D. and Alford, W.P. "The Residual n-p Interaction in Doubly Odd Deformed Nuclei". Nuclear Physics A273(1976):1-14.
- BH011 Elmore, D. and Alford, W.P. "Single-Particle Transfer Studies of ¹⁸⁴Re". Canadian Journal of Physics 54,14(1976):1493-1508.
- BH012 Fielding, H.W.; Anderson, R.E.; Lind, D.A.; Zafiratos, C.D. and Alford, W.P. "Two-Proton Transfer near Z = 40." Nuclear Physics A269(1976):125-137.
- BH013 Freedman, S.J.; Holt, R.A. and Papaliolios, C. "Experimental Status of Hidden Variable Theories". In Quantum Mechanics, Determinism, Causality, and Particles. Edited by M. Flato et al. Boston, Massachusetts: Reidel, 1976. pp.43-59.
- BH014 Froelich, H.R. "Design of a Shuttle Microtron for Radiation Therapy." IEEE Transactions on Nuclear Science NS-24,3(1977):1022-1024.

- BH015 Froelich, H.R.; Thompson, A.S.; Edmonds, D.S., Jr.; Manca, J.J.; McGowan, J.W.; MacDonald, J.C.F.; Beard, J. and Bees, G. "Three-Cavity Variable Energy Racetrack Microtron with Intra-Sector Beam Focusing. Nuclear Instruments and Methods 143,3(1977):473-486.
- BH016 Hay, D.R. Final Report on "Lidar Mapping and Observations on Atmospheric Particulates". (DSS Contract - OSZ5-0218). London, Ontario: University of Western Ontario, 1976.
- BH017 Hay, D.R.; Sells, V.E. and Cole, A.J. Report to the Ontario Ministry of the Environment on Air Resources Branch Project: Atmospheric Sink Mechanisms for Airborne Particulates from a Metal Processing Industry (A Preliminary Lidar Study). Final Report. London, Ontario: University of Western Ontario, 1977.
- BH018 Holt, R.A.; Rosner, S.D. and Gaily, T.D. "Ion-Beam Laser Fluorescence Measurement of Xe^+ Hyperfine Structure". Physical Review A 15,6(1977): 2293-2297.
- BH019 Jones, J. and Webster, A.R. "A Consideration of the Effects of Ground Reflections on Faraday Rotation and Related Measurements on Satellite Radio Transmissions". Radio Science 11,7(1976):635-640.
- BH020 Kucerovsky, Z. and Brannen, E. "Attenuation of 33- μ m Laser Radiation by Atmospheric Water Vapor". Applied Optics 15,9(1976):2027-2028.
- BH021 Leung, M.; Choo, F.C. and Tong, B.Y. "Application of Modified Ising Model to the Helix-Coil Transition of DNA Molecules". Biopolymers 16, 6(1977):1233-1244.
- BH022 McGowan, J.W.; Caudano, R. and Keyser, J. "Detailed Study of Recombination: The Importance of the Rydberg State in Electron- H^+ Recombination". Physical Review Letters 36,24(1976):1447-1450.
- BH023 Manca, J.J.; Edmonds, D.S., Jr. and Froelich, H.R. "Annular-Cathode Electron Gun for In-Line Injection in a Racetrack Microtron". Review of Scientific Instruments 47,9(1976):1148-1152.
- BH024 Manca, J.J. and Froelich, H.R. "Ferrite-Induction Orbit Current and Beam Position Detectors for a Variable Energy Racetrack Microtron". Nuclear Instruments and Methods 136(1976):249-253.
- BH025 Rosner, S.D.; Gaily, T.D. and Holt, R.A. "Laser Fluorescence Measurements of Relative Electron Impact Cross Sections for Metastable States of Ar^+ and Xe^+ ". Journal of Physics B: Atomic Molecular Physics 9,16 (1976):L489-L491.
- BH026 Ting, C.L. and Hay, D.R. "Thermal Plumes and Turbulence Spectra in the Atmospheric Boundary Layer". Boundary-Layer Meteorology 11,2(1977): 243-263.
- BH027 Tong, B.Y. and Leung, M.L.C. "Correlation between Percentage Guanine-Cytosine Content and Melting Temperature of Deoxyribonucleic Acid". Biopolymers 16,6(1977):1223-1231.

- BH028 Tunaley, J.K.E. "Diffusion in a Lattice of Randomly Placed Sites and Application to AC Conductivity". Journal of Statistical Physics 15,2 (1976):167-177.
- BH029 Tunaley, J.K.E. "Moments of the Montroll-Weiss Continuous-Time Random Walk for Arbitrary Starting Time". Journal of Statistical Physics 14,5 (1976):461-463.
- BH030 Tunaley, J.K.E. "A Theory of $1/f$ Current Noise Based on a Random Walk Model". Journal of Statistical Physics 15,2(1976):149-156.
- BH031 Vroom, D.A.; Palmer, R.L. and McGowan, J.W. "Measurement of Energy Distributions of Secondary Electrons Ejected from Argon by Fast Electrons". Journal of Chemical Physics 66,2(1977):647-654.

Department of Plant Sciences

- BJ001 Bancroft, J.B.; McDonald, J.G. and Rees, M.E. "A Mutant of Cowpea Chlorotic Mottle Virus with a Perturbed Assembly Mechanism." Virology 75(1976):293-305.
- BJ002 Coleman, W.K. and Greyson, R.I. "Analysis of Root Formation in Leaf Discs of Lycopersicon esculentum Mill. Cultured In Vitro." Annals of Botany 41(1977):307-320.
- BJ003 Coleman, W.K. and Greyson, R.I. "The Growth and Development of the Leaf in Tomato (Lycopersicon esculentum). I. The Plastochron Index, a Suitable Basis for Description." Canadian Journal of Botany 54(1976):2421-2428.
- BJ004 Coleman, W.K. and Greyson, R.I. "The Growth and Development of the Leaf in Tomato (Lycopersicon esculentum). II. Leaf Ontogeny." Canadian Journal of Botany 54(1976):2704-2717.
- BJ005 Coleman, W.K. and Greyson, R.I. "Promotion of Root Initiation by Gibberellic Acid in Leaf Discs of Tomato (Lycopersicon esculentum) Cultured In Vitro." New Phytologist 78(1977):47-54.
- BJ006 Coleman, W.K. and Greyson, R.I. "Root Regeneration from Leaf Cuttings of Lycopersicon esculentum Mill.: Application of the Leaf Plastochron Index and Responses to Exogenous Gibberellic Acid." Journal of Experimental Botany 27(1976):1339-1351.
- BJ007 Cummins, J.E. and Day, A.W. "Genetic and Cell Cycle Analysis of a Smut Fungus (Ustilago violacea)." In Methods in Cell Biology vol. 15. Edited By D. Prescott. New York, New York: Academic Press, 1977. pp.445-469.
- BJ008 Davies, J.S.; Wellman, A.M. and Zajic, J.E. "Oxidation of Ethane by an Acremonium Species." Applied and Environmental Microbiology 32(1976):14-20.
- BJ009 Day, A.W. "Communication through Fimbriae during Conjugation in a Fungus." Nature 262(1976):583-584.

- BJ010 Durham, A.C.H. and Haidar, M.A. "Cation Binding by Tobacco Rattle Virus." Virology 77(1977):520-523.
- BJ011 Erickson, J.W.; Bancroft, J.B. and Horne, R.W. "The Assembly of Papaya Mosaic Virus Protein." Virology 72(1976):514-517.
- BJ012 Fahselt, D. "Prothallal Lichen Substances in Two Species of Crustose Lichens, Fuscidea cyathoides and Rhizocarpon geographicum." Canadian Journal of Botany 54(1976):1742-1749.
- BJ013 Fahselt, D.; Ownbey, M. and Borton, M. "Seed Fertility in Tragopogon Hybrids (Compositae)." American Journal of Botany 63(1976):1109-1118.
- BJ014 Goodman, R.M.; McDonald, J.G.; Horne, R.W. and Bancroft, J.B. "Assembly of Flexuous Plant Viruses and Their Proteins." Philosophical Transactions of the Royal Society of London. Series B. 276(1976):173-179.
- BJ015 Greyson, R.I. "Why Biology?" Terrapin 3,3(1977):3-5.
- BJ016 Haidar, M.A. "Tobacco Rattle Virus RNA-Protein Interactions." Philosophical Transactions of the Royal Society of London. Series B. 276(1976):165-172.
- BJ017 Haidar, M.A. and Hirth, L. "5'-Terminal Structure of Tobacco Rattle Virus. RNA: Evidence for Polarity of Reconstitution." Virology 76(1977):173-185.
- BJ018 Hawthorn, W.R. and Cavers, P.B. "Population Dynamics of the Perennial Herbs Plantago major L. and P. rugelli Decne." Journal of Ecology 64(1976):511-527.
- BJ019 Kertesz, A. and Phipps, J.B. "Numerical Taxonomy of Aphasia." Brain and Language 4(1977):1-10.
- BJ020 Kossatz, V.C. and van Huystee, R.B. "The Specific Activities of Peroxidase and Aminolevulinic Acid Dehydratase during the Growth Cycle of Peanut Suspension Culture." Canadian Journal of Botany 54(1976):2089-2094.
- BJ021 McDonald, J.G.; Beveridge, T.J. and Bancroft, J.B. "Self-assembly of Protein from a Flexuous Virus." Virology 69(1976):327-331.
- BJ022 McKeen, W.E. "Furarium in Barley and Corn Roots." Canadian Journal of Botany 55(1977):12-16.
- BJ023 McKeen, W.E. "Growth of Pythium graminicola in Barley Roots." Canadian Journal of Botany 55(1977):44-47.
- BJ024 McKeen, W.E. and MacDonald, B. "Leakage, Infection, and Emergence of Injured Corn Seed." Phytopathology 66(1976):928-930.
- BJ025 Maun, M.A. "Biography of Curly Dock." Weeds Today February/March(1977):14.

- BJ026 Maun, M.A. "Ecological Effects of Barnyard Grass on Soybeans in a Green-House." Weed Science 25(1977):128-131.
- BJ027 Maun, M.A. "Response of Seeds to Dry Heat." Canadian Journal of Plant Science 57(1977):305-307.
- BJ028 Maun, M.A. "Suppressing Effect of Soybeans on Barnyard Grass." Canadian Journal of Plant Science 57(1977):485-490.
- BJ029 Muniyamma, M. "A Cytoembryological Study of Agrostis pilosula." Canadian Journal of Botany 54(1976):2490-2496.
- BJ030 Muniyamma, M.; Sindhe, N.R.A. and Narayan, K.N. "IOPB Chromosome Number Reports LII." Taxon 25(1976):344.
- BJ031 Orłóci, L. "TRGRPS - An Interactive Algorithm for Group Recognition with an Example from Spartinetea." Vegetatio 32(1976):117-120.
- BJ032 Orłóci, L. and Beshir, M.E. "A Heuristic Test for Homogeneity in Species Populations." Vegetatio 31(1976):141-145.
- BJ033 Pendyala, L. and Wellman, A.M. "Developmental-Stage-Dependent Adenine Transport in Neurospora crassa." Canadian Journal of Genetics and Cytology 18(1976):570.
- BJ034 Phipps, J.B. and Cullen, J. "Centres of Diversity Quantified - A Maximum Variance Approach to a Biogeographic Problem." Vegetatio 31(1976):147-159.
- BJ035 Poon, N.H. and Day, A.W. "Somatic Nuclear Division in the Sporidia of Ustilago violacea. III. Ultrastructural Observations." Canadian Journal of Microbiology 22(1976):495-506.
- BJ036 Raman, K. and Greyson, R.I. "Graft Unions between Floral Half-Meristems of Differing Genotypes Nigella damascena L." Plant Science Letters 8 (1977):367-373.
- BJ037 Stanek, W.; Jeglum, J.K. and Orłóci, L. "Comparisons of Peatland Types Using Macro-Nutrient Contents of Peat." Vegetatio 33(1977):163-173.
- BJ038 Staniforth, R.J. and Cavers, P.B. "An Experimental Study of Water Dispersal in Polygonum spp." Canadian Journal of Botany 54(1976):2587-2596.
- BJ039 Staniforth, R.J. and Cavers, P.B. "The Importance of Cottontail Rabbits in the Dispersal of Polygonum spp." Journal of Applied Ecology 14(1977):261-267.
- BJ040 van der Maarel, E.; Orłóci, L. and Pignatti, S. "Data-Processing in Phytosociology, Retrospect and Anticipation." Vegetatio 32(1976):65-72.
- BJ041 van Huystee, R.B. "Hormonal Control of Transcription in Higher Plants." Colloques Internationaux CNRS (1976):545-550.
- BJ042 van Huystee, R.B. "Immunological Studies on Proteins Released by a Peanut (Arachis hypogaea L.) Suspension Culture." Botanical Gazette 137(1976):325-329.

- BJ043 van Huystee, R.B. "A Study of Peroxidase Synthesis by Means of Double Labelling and Affinity Chromatography." Canadian Journal of Botany 54 (1976):876-880.
- BJ044 Walden, D.B. "Nature's Gold: Corn Western Style." Alumni Gazette 53, 3(1977):14-17.

Department of Zoology

- BK001 Ankney, C.D. and Bisset, A.R. "An Explanation of Egg-Weight Variation in the Lesser Snow Goose." Journal of Wildlife Management 40(1976):729-734.
- BK002 Atkinson, K.H.; Atkinson, B.G. and Merrifield, P.A. "Morphogenetic Sequences during Tadpole Tail Regeneration." Canadian Journal of Zoology 54(1976):1314-1325.
- BK003 George, J.A. and Ruhm, M.E. "Modifications of Adult Olive Fruit Fly Diet to Control the Production of Mottled Eggs and to Increase Fecundity." Journal of Economic Entomology 70(1977):1-4.
- BK004 Judd, W.W. "An Early Morning Bird Hike to Saunders Pond in 1925 with a Photograph of the Participants." Cardinal 88(1977):9-12.
- BK005 Judd, W.W. "Henry Philemon Attwater (1854-1931) and his Museum in the Mechanics' Institute (1886, 1887) in London, Ontario." Cardinal 87(1976):7-16.
- BK006 Judd, W.W. "Insects Associated with Flowering Bloodroot, Sanguinaria canadensis L., at Fanshawe Lake, Ontario." Entomological News 88(1977):13-17.
- BK007 Judd, W.W. "Minutes of the Entomological Society of Ontario while Headquartered in London, Ontario, 1872-1906." London Public Library and Art Mueum. Occasional Paper 21(1976):1-75.
- BK008 Judd, W.W. "1,000 Beer Bottles (\$50.00) from Ontario Roads in a Year." Probe 5,2(1976):2.
- BK009 Judd, W.W. "A Praying Mantis Trapped in a Spider Web." Ontario Field Biologist 30(1976):53-55.
- BK010 Judd, W.W. "Sighting of Black Rat Snake near Nelles Corner." Oriskany of Ontario, University of Western Ontario, Department of Plant Sciences (1977):24-25.
- BK011 Keenleyside, M.H.A. and Prince, C.E. "Spawning-Site Selection in Relation to Parental Care of Eggs in Aequidens paraguayensis (Pisces: Cichlidae) Canadian Journal of Zoology 54(1976):2135-2139.
- BK012 Kidder, G.M. "RNA Synthesis and the Ribosomal Cistrons in Early Molluscan Development." American Zoologist 16(1976):501-520.

- BK013 Locke, M. Review of The Golgi Apparatus (Cell Biology Monographs, vol. 2. Continuation of Protoplasmatologia) by W.G. Whaley. New York, New York: Springer-Verlag, 1975. In BioScience 27,2(1976):132.
- BK014 Locke, M. "The Role of Plasma Membrane Plaques and Golgi Complex Vesicles in Cuticle Deposition during the Molt/Intermolt Cycle." In The Insect Integument. Edited by H.R. Hepburn. Amsterdam, Holland: Elsevier North-Holland, 1976. pp.237-258.
- BK015 Locke, M. "Specialized Features of the Integument." In The Future of Insecticides: Needs and Prospects. Edited by R.L. Metcalf and J.J. McKelvey, Jr. New York, New York: Wiley, 1976. pp.397-419.
- BK016 Locke, M. and Huie, P. "The Beads in the Golgi Complex-Endoplasmic Reticulum Region." Journal of Cell Biology 70(1976):384-394.
- BK017 Locke, M. and Huie, P. "The Developmental Origin of Golgi Complexes." Canadian Federation of Biological Societies, Programme and Proceedings 19(1976):63.
- BK018 Locke, M. and Huie, P. "Nucleoprotein Localization by Bismuth Staining." Journal of Cell Biology 70,2(1976):91a.
- BK019 Locke, M. and Huie, P. "Nucleoprotein Localization by Bismuth Staining." Microscopical Society of Canada 3(1976):96-97.
- BK020 Locke, M. and Huie, P. "Vertebrate Golgi Complexes Have Beads in a Similar Position to Those Found in Arthropods." Tissue and Cell 8 (1976):739-743.
- BK021 Misra, R.K. "Multivariate Analysis for Hybridization among Organisms of Unequal Ages." Biometrische Zeitschrift 18(1976):313-318.
- BK022 Popovich, J.W. and Caveney, S. "An Electrophysiological Study of the Junctional Membrane of Epidermal Cells in Tenebrio molitor." Journal of Insect Physiology 22(1976):1617-1622.
- BK023 Popovich, J.W. and Caveney, S. "An Electrophysiological Study of the Non-Junctional Membrane of Epidermal Cells in Tenebrio molitor." Journal of Insect Physiology 23(1977):253-257.
- BK024 Scott, D.M.; Ankney, C.D. and Jarosch, C.H. "Sapsucker Hybridization in British Columbia: Changes in 25 Years." Condor 78(1976):253-257.
- BK025 Shivers, R.R. "Formation of Junctional Complexes at Sites of Contact of Hemocytes with Tissue Elements in Degenerating Nerves of the Crayfish, Orconectes virilis." Tissue and Cell 9(1977):43-56.
- BK026 Shivers, R.R. "'Tight' Junctions in the Sheath of Normal and Regenerating Motor Nerves of the Crayfish, Orconectes virilis." Cell and Tissue Research 177(1977):475-480.
- BK027 Shivers, R.R. and Brightman, M.W. "Formation of Hemi-desmosomes during Regeneration of Crayfish Nerve Root Sheath as Studied with Freeze-Fracture." Journal of Comparative Neurology 173(1977):1-21.

- BK028 Shivers, R.R. and Chauvin, W.J. "Intercellular Junctions of Antennal Gland Epithelial Cells in the Crayfish, Orconectes virilis." Cell and Tissue Research 175(1977):425-438.
- BK029 Shivers, R.R. and Locke, M. "Golgi Complex-Endoplasmic Reticulum Transition Region has Rings of Beads in Freeze-Fracture Too." Journal of Cell Biology 70,2(1976):339a.
- BK030 Steele, J.E. "Hormonal Control of Metabolism in Insects." In Advances in Insect Physiology. Edited by J. Treherne, M. Berridge and V.B. Wiggleworth. London, England: Academic Press, 1977. pp.239-323.
- BK031 Tolman, J.H. and Steele, J.E. "A Oubain-Sensitive, (Na⁺-K⁺)-Activated ATPase in the Rectal Epithelium of the American Cockroach. Periplaneta americana." Insect Biochemistry 6(1976):513-517.

For joint authors see the Name Index at the end of this volume.

FACULTY OF SOCIAL SCIENCEDepartment of Anthropology

- CA001 Creider, C.A. "Thematization in Luo!" Pragmatics Microfiche 1,7(1976): C1-D2.
- CA002 Creider, C.A. "Towards a Description of East African Gestures." Sign Language Studies 14(1977):1-20.
- CA003 Finlayson, W.D. (Editor) Canadian Archaeological Association. Bulletin no.7(1975).
- CA004 Finlayson, W.D. "The Crisis in Canadian Salvage Archaeology: A Reply to Hayden." Arch Notes April/May(1977):14-20,27-29.
- CA005 Finlayson, W.D. "The 1975 Rescue Excavations at the Draper Site - A Preliminary Report." Canadian Archaeological Association. Bulletin no.7(1975):221-229.
- CA006 Finlayson, W.D. The Saugeen Culture: A Middle Woodland Manifestation in Southwestern Ontario, 2 vols. (National Museum of Man, Mercury Series. Archaeological Survey of Canada, Paper No. 61). Ottawa, Ontario: National Museums of Canada, 1977.
- CA007 Freedman, J. (Editor) History of Canadian Anthropology: Proceedings No. 3, Canadian Ethnology Society. Hamilton, Ontario: Canadian Ethnology Society, 1976.
- CA008 Guemple, L. "The Institutional Flexibility of Inuit Social Life." In Inuit Land Use and Occupancy Project. Volume 2: Supporting Studies. Ottawa, Ontario: Department of Indian and Northern Affairs, 1976. pp. 181-186.
- CA009 Spence, M.W. "Human Skeletal Material From the Oaxaca Barrio in Teotihuacan, Mexico." In Archaeological Frontiers: Papers on New World High Cultures in Honor of J. Charles Kelley. Edited by R.B. Pickering. (University Museum Studies No. 4). Carbondale, Illinois: Southern Illinois University, University Museum and Art Galleries, 1976. pp. 129-148.

Department of Computing Laboratory

- CB001 Bellhouse, D.R. "On the Application of Fiducial Probability to Two-Stage Sampling." Utilitas Mathematica 11(1977):33-42.
- CB002 Bellhouse, D.R.; Thompson, M.E. and Godambe, V.P. "Two-Stage Sampling With Exchangeable Prior Distributions." Biometrika 64(1977):97-103.
- CB003 Hanis, E.H. and Mitchell, S.P. "Publication Processing of Machine Readable Numeric Data (MICDAT) Files for the Social Sciences." Canadian Journal of Information Science 2,1(1977):26-33.

Department of Economics

- C001 Adams, J.D.R. and Whalley, J. The International Taxation of Multinational Enterprises in Developed Countries. London, England: Associated Business Programmes, 1977.
- C002 Ahsan, S.M. "Progression and Risk-Taking: A Further Note." Public Finance 31(1976):427-435.
- C003 Blomqvist, A.G. "Empirical Evidence on the Two-Gap Hypothesis." Journal of Development Economics 3(1976):181-193.
- C004 Blomqvist, A.G. Review of Patterns of Development, 1950-1970 by H. Chenery and M. Syrquin. Oxford, England: Oxford University Press, 1975. In Journal of Development Economics 3(1976):300-301.
- C005 Blomqvist, A.G. and Davies, G.W. "Population Policy and Optimal Economic Growth: A Proposed Methodology Applied to Ghana." Economic Bulletin of Ghana 4,3/4(1974):35-52.
- C006 Boyer, R.S. "Commercial Policy Under Alternative Exchange Rate Regimes." Canadian Journal of Economics 10(1977):218-232.
- C007 Boyer, R.S. "Devaluation and Portfolio Balance." American Economic Review 67,2(1977):54-63.
- C008 Burgess, D.F. "The Income Distributional Effects of Processing Incentives: A General Equilibrium Analysis." Canadian Journal of Economics 9(1976):595-612.
- C009 Davies, G.W. "General Income Averaging." Canadian Public Policy 3(1977):164-170.
- C010 Davies, G.W. and Sharir, S. "Toward 'A Rational Immigration Policy': Comments and a Proposal." Canadian Public Policy 2(1976):492-496.
- C011 Gray, M. and Parkin, M. "Discriminating Between Alternative Explanations of Inflation." In Bank Credit, Money and Inflation in Open Economies. Edited by M. Fratianni and K. Tavernier. Berlin, Germany: Duncker and Humblot, 1976. pp. 403-427.
- (Published as a supplement to the journal Kredit und Kapital).
- C012 Howitt, P. "Intertemporal Utility Maximization and the Timing of Transactions." American Economic Review 67(1977):156-165.
- C013 Laidler, D.E.W. "Inflation-Alternative Explanations and Policies: Tests on Data Drawn from Six Countries." In Institutions, Policies and Economic Performance. Edited by K. Brunner and A.H. Meltzer. (Carnegie-Rochester Conference Series on Public Policy, Vol. 4). New York, New York: North-Holland, 1976. pp.251-306.
- C014 Laidler, D.E.W. "Inflation in Britain: A Monetarist Perspective." American Economic Review 66(1976):485-500.

- CC015 Laidler, D.E.W. and Parkin, M. "Unwinding Wage and Price Controls." In Which Way Ahead? Canada after Wage and Price Control. Edited by M. Walker. Vancouver, British Columbia: Fraser Institute, 1977. pp. 71-89.
- CC016 Leith, J.C. "The Ontario Mining Profits Tax: An Evaluation." In Natural Resource Revenues: A Test of Federalism. Edited by A. Scott. (British Columbia Institute for Economic Policy Analysis Series). Vancouver, British Columbia: University of British Columbia Press, 1976. pp. 206-213.
- CC017 Leith, J.C. Review of Development Financing Under Constraints: A Decade of African Development Bank by I.E. Ebong. (Vierteljahresberichte. Special Issue. Research Institute of the Friedrich-Ebert-Foundation, no. 8). Bonn, Bundesrepublik Deutschland: Neue Gesellschaft, 1974. In Canadian Journal of African Studies 10(1976):173-174.
- CC018 Leith, J.C. Review of Exchange and Trade Controls by J. Swidrowski. Essex, England: Gower Press, 1975. In Canadian Journal of Economics 9(1976):553-554.
- CC019 Markusen, J.R. "Dividing Ocean Resources: A Development and Application of the Theory of Factor Transfer." Economic Record 52(1976):213-227.
- CC020 Markusen, J.R. "Profit-Sharing, Labour Effort and Optimal Distributive Shares." Economica 43(1976):405-410.
- CC021 Mayston, D.J. "On Achieving Consistent Social Choices." Research Report 7622. London, Ontario: University of Western Ontario, Department of Economics, 1976.
- CC022 Mayston, D.J. "On the Nature of Marginal Utility - A Neo-Marshallian Theory of Demand." Economic Journal 86(1976):493-507.
- CC023 Melvin, J.R. "A Comment on 100 Per Cent Reserves." Indian Economic Journal 23(1975/76):135-143.
- CC024 Melvin, J.R. "A Theory of Leisure." Eastern Economic Journal 1(1974):251-267.
- CC025 Parkin, M. "The Economic Council Annual Review: The Inflation Dilemma." Canadian Public Policy 3(1977):230-234.
- CC026 Parkin, M. "Indexing the Economy Through Financial Intermediation: A Comment." In Stabilization of the Domestic and International Economy. Edited by K. Brunner and A.H. Meltzer. (Carnegie-Rochester Conference Series on Public Policy, Vol. 5). New York, New York: North-Holland, 1977. pp.169-171.
- CC027 Parkin, M. "Inflation Without Growth: A Long-Run Perspective On Short-Run Stabilization Policies." In Stabilization of the Domestic and International Economy. Edited by K. Brunner and A.H. Meltzer (Carnegie-Rochester Conference Series on Public Policy, Vol. 5). New York, New York: North-Holland, 1977. pp. 31-68.
- CC028 Parkin, M. "International Liquidity and World Inflation in the 1960s." In Inflation in Open Economies. Edited by M. Parkin and G. Zis. Toronto, Ontario: University of Toronto Press, 1976. pp. 48-63.
- CC029 Parkin, M. "A 'Monetarist' Analysis of the Generation and Transmission of World Inflation: 1958-71." American Economic Review 67,1(1977):164-171.

- CC030 Parkin, M. "The Transition from Fixed Exchange Rates to Money Supply Targets." Journal of Money, Credit and Banking 9(1977):228-242.
- CC031 Parkin, M. "World Inflation, International Relative Prices and Monetary Equilibrium under Fixed Exchange Rates." In The Political Economy of Monetary Reform. Edited by R.Z. Aliber. London, England: Macmillan Press, 1977. pp. 220-242.
- CC032 Parkin, M.; Richards, I. and Zis, G. "The Determination and Control of the World Money Supply under Fixed Exchange Rates, 1961-71." In Inflation in Open Economies. Edited by M. Parkin and G. Zis. Toronto, Ontario: University of Toronto Press, 1976. pp. 24-47.
- CC033 Parkin, M. and Smith, G.W. "Inflationary Expectations and the Long-Run Trade-Off between Inflation and Unemployment in Open Economies." In Inflation in Open Economies. Edited by M. Parkin and G. Zis. Toronto, Ontario: University of Toronto Press, 1976. pp. 280-289.
- CC034 Parkin, M. and Zis, G. (Editors) Inflation in Open Economies. Toronto, Ontario: University of Toronto Press, 1976.
- CC035 Reuber, G.L. "Comments on the 1977 Bank Act Revision." Canadian Public Policy 2(1976):398-402.
- CC036 Reuber, G.L. "The Economy Without Controls." In Which Way Ahead? Canada after Wage and Price Control. Edited by M. Walker. Vancouver, British Columbia: Fraser Institute, 1977. pp. 58-68.
- CC037 Reuber, G.L. "Recent Government Economic Policy Documents: Description is Not Analysis." Canadian Journal of Economics 10(1977):156-162.
- CC038 Robson, A.J. "The Effect of Urban Structure on the Concentration of Pollution." Urban Studies 14(1977):89-93.
- CC039 Robson, A.J. "Two Models of Urban Air Pollution." Journal of Urban Economics 3(1976):264-284.
- CC040 Whalley, J. "Fiscal Harmonization in the EEC; Some Preliminary Findings of Fixed Point Calculations." In Fixed Points: Algorithms and Applications. Edited by S. Karamardian and C.B. Garcia. New York, New York: Academic Press, 1977. pp. 435-471.
- CC041 Whalley, J. "Some General Equilibrium Analysis Applied to Fiscal Harmonization in the European Community." European Economic Review 8(1976):291-312.
- CC042 Wonnacott, R.J. and Wonnacott, T.H. Econometria. Traduc e de M.C. Silva. Rio de Janeiro, Brazil: Livros T cnicos e Cientificos, 1976.

Department of Geography

- CD001 Belanger, M. and Janelle, D.G. (Editors) Building Regions of the Future/Les Regions Qu'il Faudrait Faire. (Notes et Documents de Recherche, No. 6). Quebec, Quebec: Universite Laval, Departement de Geographie, 1975.
- CD002 Butler, R.W. The Development of Tourism in the Canadian North and Implications for the Inuit. Series editor J.G. Nelson. (Renewable Resources Project, vol. 9). Ottawa, Ontario: Inuit Tapirisat, 1975.
- CD003 Butler, R.W. "Public Parks in Great Britain: Part I." Conservation Council of Ontario. Bulletin 22,2(1975):4-12.
- CD004 Butler, R.W. "Public Parks in Great Britain: Part II." Conservation Council of Ontario. Bulletin 22,3(1975):4-7.
- CD005 Butler, R.W. Review of Land and Leisure: Concepts and Methods in Outdoor Recreation. Edited by D.W. Fischer; J.E. Lewis and G.B. Priddle. Chicago, Illinois: Maaroufa Press, 1974. In Canadian Geographer 19(1975):358-360.
- CD006 Butler, R.W. "Tourism as an Agent of Social Change." In Tourism as a Factor in National and Regional Development. Edited by F.M. Helleiner. (Occasional Papers in the Department of Geography, Trent University, no.4). Peterborough, Ontario: Trent University, Department of Geography, 1975. pp. 85-90.
- CD007 Butler, R.W. and Phillips, S.E. Women's Concerns about the Quality of Life in London, Ontario. London, Ontario: University of Western Ontario, Department of Geography, 1975. [A report prepared for the Ministry of State for Urban Affairs, Ottawa]
- CD008 Cartwright, D.G. "The Designation of Bilingual Districts in Canada Through Linguistic and Spatial Analysis." Tijdschrift voor Economische en Sociale Geografie 68(1977):16-29.
- CD009 Cartwright, D.G. "Institutions on the Frontier: French-Canadian Settlement in Eastern Ontario in the Nineteenth Century." Canadian Geographer 21(1977):1-21.
- CD010 Code, W.R. The Containment of an Office Community: An Analysis of the Structural and Economic Effects of Restricting the Growth of Office Space in Toronto's Core, 2 vols. London, Ontario: William R. Code, 1977. [A report prepared for the Ontario Municipal Board]
- CD011 Code, W.R. Planning for the Decentralization of Offices: An Analysis of the Structural and Economic Effects of Containing the Growth of Central Toronto Office Communities. London, Ontario: William R. Code, 1977. [A study prepared for the Canadian Institute of Public Real Estate Companies]

- CD012 Code, W.R. Review of Organization, Location and Behavior: Decision-making in Economic Geography by P. Toyne. New York, New York: Halsted Press, 1974. In American Institute of Planners. Journal 42(1976): 337-338.
- CD013 Code, W.R. "The Spatial Evolution of Financial Communities in Canada." In International Geographical Congress, 23rd, Moscow, 1976. (International Geography, 1976; vol. 9: Historical Geography). pp. 46-50.
- CD014 Goodchild, M.F. The Determinants of Land Capability. (Occasional Paper No. 7). Ottawa, Ontario: Environment Canada, Lands Directorate, 1976.
- CD015 Goodchild, M.F. "Geographic Data Processing Concepts and Their Application to Park and Other Land Use Planning." In Canadian Outdoor Recreation Demand Study. Vol. 2: Technical Notes. (Cord Study Technical Note 42). Ottawa, Ontario: Parks Canada, 1976. pp. 595-626.
- CD016 Goodchild, M.F. "The Meaning of R^2 in Using Analysis of Variance to Explain Participation in Recreation Activities." In Canadian Outdoor Recreation Demand Study. Vol. 2: Technical Notes. (Cord Study Technical Note 36). Ottawa, Ontario: Parks Canada, 1976. pp. 582-594.
- CD017 Goodchild, M.F. "Perception, Preference, and Geometry: A Commentary." In Spatial Choice and Spatial Behavior: Geographic Essays on the Analysis of Preferences and Perceptions. Edited by R.G. Golledge and G. Rushton. Columbus, Ohio: Ohio State University Press, 1975. pp. 179-188.
- CD018 Goodchild, M.F. "Statistical Considerations Using Gravity Type Models to Explain Visitor Flows." In Canadian Outdoor Recreation Demand Study. Vol. 2: Technical Notes. (Cord Study Technical Note 35). Ottawa, Ontario: Parks Canada, 1976. pp. 564-581.
- CD019 Goodchild, M.F.; Ross, J.H. and Swanson, W.G. Plus: A Conversational Regional Planning Tool. (Occasional Paper No. 14). Ottawa, Ontario: Fisheries and Environment Canada, Lands Directorate, 1977.
- CD020 Hilts, S.G. (Editor) Natural Areas in Oxford County: A Preliminary Survey. London, Ontario: University of Western Ontario, Department of Geography, 1976.
- CD021 Hosse, H.A. Conserving and Improving our Property. Toronto, Ontario: Ministry of Housing, Community Renewal Branch, 1976.
- CD022 Hosse, H.A. and Przybylowski, G.A. (Editors) Business Improvement Areas, Proceedings of a Workshop on Downtown Improvements: Ways and Means (Toronto, June 29, 1976). Toronto, Ontario: Ministry of Housing, 1976.
- CD023 Janelle, D.G. "From Spatial Bureaucracy to Spatial Adhocracy." In Building Regions of the Future/Les Régions Qu'il Faudrait Faire. Edited by M. Belanger and D.G. Janelle. (Notes et Documents de Recherche, No. 6). Québec, Québec: Université Laval, Département de Géographie, 1975. pp. 25-31.

- CD024 Janelle, D.G. "Problems on the Frontier of Regional Science." Regional Science Association. Papers 34(1975):184-186.
- CD025 Janelle, D.G. Review of Main Street: Windsor to Quebec City by M. Yeates. Toronto, Ontario: Macmillan, 1975. In Tijdschrift Voor Economische en Sociale Geografie 67(1976):309-310.
- CD026 Janelle, D.G. "Spatial Reorganization: A Model and Concept." In Readings in New Geography. Edited by S. Noma. Tokyo, Japan: Tokyo Metropolitan University Press, 1977. pp. 119-145.
- This is a Japanese publication and this entry has been translated into English for inclusion in this Bibliography.
- CD027 Janelle, D.G. "Temporal and Spatial Coordination of Stage-Coach Service in Maine 1826-1829." In International Geographical Congress, 23rd, Moscow, 1976. (International Geography, 1976; vol. 9: Historical Geography). pp. 56-59.
- CD028 Janelle, D.G. "Time-Space Convergence and Urban Transportation Issues." In Systems Thinking and the Quality of Life. Edited by C.K. Blong. Washington, D.C.: Society for General Systems Research, 1975. pp. 594-600.
- CD029 Janelle, D.G. "Urban Geography in Preparation for Life." Ontario Geography 9(1975):73-82.
- CD030 Janelle, D.G. and Millward, H.A. "Locational Conflict Patterns and Urban Ecological Structure." Tijdschrift voor Economische en Sociale Geografie 67(1976):102-113.
- CD031 King, R.H. (Abstract) "The Influence of Recent Volcanic Ash on Alpine and Subalpine Pedogenesis in the Canadian Cordillera." In American Quaternary Association. Abstracts of the Fourth Biennial Meeting, October 9 and 10, 1976. Tempe, Arizona: Arizona State University, Department of Geology, 1976.
- CD032 King, R.H. "The Pedogenic Influence of Volcanic Ash in Subalpine and Alpine Soils in the Front Ranges of the Canadian Cordillera." In International Geographical Congress, 23rd, Moscow, 1976. (International Geography, 1976; vol. 4: Biogeography and Soil Geography). pp. 166-170.
- CD033 King, R.H. Review of Archaeological Sediments: A Survey of Analytical Methods by M.L. Shackley. New York, New York: Halstead Press, 1975. In Geoscience Canada 3(1976):252.
- CD034 Langtvat, O. "The Energy Approach to the Study of the Dynamics of an Agricultural System, the Method and its Application to S.E. Norway." In Agricultural Typology and Land Utilisation. Verona, Italy: Center of Agricultural Geography, 1975. pp. 253-264.
- CD035 Langtvat, O. Grains in the Farm System of S.E. Norway. A selection of maps for the international exhibit on "Maps in the Service of Agriculture", Budapest, Hungary, October 19-November 1, 1976. London, Ontario: University of Western Ontario, Department of Geography, 1976.

- CD036 Langtvet, O. Review of the international exhibit: Maps in the Service of Agriculture; and of the conference: Use of Agricultural Maps in the Organization of Production. Budapest, Hungary, 1976. In Association of Canadian Map Libraries. Bulletin no.23(1977):10-11.
- CD037 Nicholson, N.L. "The Beginnings of Geography at 'Western'." University of Western Ontario, Department of Geography. Newsletter 1,1(1976): 3-4.
- CD038 Nicholson, N.L. "Canada." In Worldmark Encyclopedia of the Nations, 5th ed., vol. 3, Americas. Toronto, Ontario: John Wiley and Sons, 1976. pp. 55-72.
- CD039 Nicholson, N.L. "The Current Content of Atlases." In Association of Canadian Map Libraries. Proceedings of the Tenth Annual Conference. Edited by D.M. Ahlgren and E.H. Dahl. Ottawa, Ontario: Association of Canadian Map Libraries, 1976. pp. 37-39.
- CD040 Nicholson, N.L. "Education Examined: An 'A' for Effort." CAUT Bulletin 24,8(1976):24.
- CD041 Nicholson, N.L. Review of A Commitment to Excellence. Report of a Task Force on Graduate Studies and Research in the Humanities and Social Sciences. Kingston, Ontario: Queen's University, 1975. In Canadian Journal of Higher Education 6,2(1976):75-76.
- CD042 Nicholson, N.L. "Yerevan Symposium on National and Regional Atlases and Thematic Mapping." Association of Canadian Map Libraries. Bulletin no.22(1976):4-5.
- CD043 Packer, R.W. "Cartology and Cartophilia." In Association of Canadian Map Libraries. Proceedings of the Tenth Annual Conference. Edited by D.M. Ahlgren and E.H. Dahl. Ottawa, Ontario: Association of Canadian Map Libraries, 1976. pp. 11-14.
- CD044 Packer, R.W. "Coastal Research Activities." In Workshop on Great Lakes Coastal Erosion and Sedimentation. Proceedings. Edited by N.A. Rukavina. Burlington, Ontario: Canada Centre for Inland Waters, 1976. pp. 85-88.
- CD045 Packer, R.W. Review of Canada-Ontario Great Lakes Shore Damage Survey. Coastal Zone Atlas. Ottawa, Ontario: Environment Canada and Ontario Ministry of Natural Resources, 1976. In Association of Canadian Map Libraries. Bulletin no.22(1976):21-23.
- CD046 Packer, R.W. Review of Landmarks of Map Making by R.V. Tooley and C. Bricker. New York, New York: Thomas Y. Crowell, 1976. In Canadian Geographical Journal 94,1(1977):74-75.
- CD047 Quigley, R.M.; Gelinas, P.J.; Bou, W.T. and Packer, R.W. "Cyclic Erosion-Instability Relationships, Lake Erie Northshore Bluffs." In 29th Canadian Geotechnical Conference. Preprint. Vancouver, British Columbia. October 12-16, 1976. pp. II-10 to II-27.

- CD048 Troughton, M.J. "Approaches to an Agricultural Typology for Canada." In Agricultural Typology and Land Utilisation. Verona, Italy: Center of Agricultural Geography, 1975. pp. 357-384.
- CD049 Troughton, M.J. "Comparative Profiles of Land Holding Types in the Rural-Urban Fringe of London." Ontario Geography no.10(1976):27-53.
- CD050 Troughton, M.J. Landholding in a Rural-Urban Fringe Environment: The Case of London, Ontario. (Occasional Paper No. 11). Ottawa, Ontario: Environment Canada, Lands Directorate, 1976.
- CD051 Whebell, C.F.J. "Non-National Separatism: With Special Reference to Australian Cases Past and Present." In The Politics of Separatism. Edited by W.H. Morris-Jones. (Collected Seminar Papers #19). London, England: Institute of Commonwealth Studies, 1976. pp. 19-29.

Department of History

- CE001 Armstrong, F.H. "Computerized History." Review of The People of Hamilton, Canada West: Family and Class in a Mid-Nineteenth Century City by M.B. Katz. Cambridge, Massachusetts: Harvard University Press, 1975. In Canadian Forum 56,667(1976/77):39-40.
- CE002 Armstrong, F.H. "Metropolitanism and Toronto Re-examined, 1825-1850." In The Canadian City: Essays in Urban History. Edited by G.A. Stelter and A.F.J. Artibise. (Carleton Library Series, no. 109). Toronto, Ontario: McClelland and Stewart, 1977. pp.37-50.
- CE003 Armstrong, F.H. Review of Bishop Alexander Macdonell and the Politics of Upper Canada by J.E. Rea. (Research Publication no. 4). Toronto, Ontario: Ontario Historical Society, 1974. In Canadian Historical Review 57(1976):197-198.
- CE004 Armstrong, F.H. and Hyatt, A.M.J. "Fred Hitchins." In Catalogue. The Beatrice Hitchins Memorial Collection of Aviation History by M.W. Hopkinson. (Library Bulletin No. 9). London, Ontario: University of Western Ontario, The D.B. Weldon Library, 1976. pp.xi-xiii.
- CE005 Avery, D.H. "The Immigrant Industrial Worker in Canada 1896-1919: The Vertical Mosaic as an Historical Reality." In Identities: The Impact of Ethnicity on Canadian Society. Edited by W. Isajiw. (Canadian Ethnic Studies Association, Vol.5). Toronto, Ontario: Peter Martin, 1977. pp.15-33.
- CE006 Avery, D.H. "The Radical Alien and the Winnipeg General Strike of 1919." In The West and the Nation: Essays in Honour of W.L. Morton. Edited by C. Berger and R. Cook. Toronto, Ontario: McClelland and Stewart, 1976. pp.209-231.
- CE007 Crunican, P.E. Review of Father Lacombe by J.G. MacGregor. Edmonton, Alberta: Hurtig, 1975. In Canadian Historical Review 58(1977):228-230.

- CE008 Crunican, P.E. "Sir Mackenzie Bowell K.C.M.G. (1823-1917." In The Prime Ministers of Canada by the Canadian Historical Association. Rexdale, Ontario: Franklin Mint, 1976. pp.17-19.
- CE009 Dickinson, J.A. Review of Francois-Etienne Cugnet 1719-1751: Entrepreneur et Entreprises en Nouvelle-France by C. Nish. (Histoire Economique et Sociale du Canada Français). Montréal, Québec: Fides, 1975. In Revue d'Histoire de l'Amérique Française 30(1976/77):280-284.
- CE010 Dreyer, F. "Burke's Religion." Studies in Burke and His Time 17(1976): 199-212.
- CE011 Flaherty, D.H. "Privacy and Access to Government Microdata." In Expanding the Right to Privacy: Research and Legislative Initiatives for the Future. Edited by S.E. Aufrecht. Washington, D.C.: Washington Public Affairs Center, 1977. pp.107-117.
- CE012 Flaherty, D.H. Review of Social Control in the Colonial Economy by J.R.T. Hughes. Charlottesville, Virginia: University Press of Virginia, 1976. In William and Mary Quarterly 34(1977):338-339.
- CE013 Flaherty, D.H. "The Use of Early American Court Records in Historical Research". Law Library Journal 69(1976):342-346.
- CE014 Guinsburg, T.N. Review of The Standard-Vacuum Oil Company and United States East Asian Policy, 1933-1941 by I.H. Anderson, Jr. Princeton, New Jersey: Princeton University Press, 1975. In Canadian Journal of History 11(1976):135-136.
- CE015 Hall, R.D. "Minding Our Own Business." Archivaria no.3(1976/77):73-78.
- CE016 Hall, R.D. "Portrait of a Tory Burg." Review of To Preserve and Defend: Essays on Kingston in the Nineteenth Century. Edited by G. Tulchinsky. Montreal, Quebec: McGill-Queen's University Press, 1976. In Books in Canada 5,12(1976):14-15.
- CE017 Hall, R.D. Review of The Diaries of Louis Riel. Edited by T. Flanagan. Edmonton, Alberta: Hurtig, 1976. In Globe and Mail, 25 December 1976. p.31.
- CE018 Hall, R.D. Review of The Writing of Canadian History: Aspects of English-Canadian Historical Writing: 1900-1970 by C. Berger. Toronto, Ontario: Oxford University Press, 1976. In Globe and Mail, 2 April 1977. p.37.
- CE019 Hilborn, K.H.W. Review of The Indian Ocean and the Threat to the West: Four Studies in Global Strategy. Edited by P. Wall. London, England: Stacey International, 1975. In Academic Reviewer Spring/Summer(1977): 21-22.
- CE020 Hilborn, K.H.W. Review of Post-War Southeast Asia: Independence Problems by J.F. Cady. Athens, Ohio: Ohio University Press, 1975. In Canadian Journal of History 11(1976):136-137.

- CE021 Hilborn, K.H.W. Review of The Rise of Nationalism in Vietnam, 1900-1941 by W.J. Duiker. Ithaca, New York: Cornell University Press, 1976. In Canadian Journal of History 11(1976):257-258.
- CE022 Lander, J.R. "The Crown and the Aristocracy in England, 1450-1509." Albion 8(1976):203-218.
- CE023 Lander, J.R. Politics and Power in England, 1450-1509. London, England: Edward Arnold, 1976.
- CE024 Lander, J.R. Review of Edward IV by C. Ross ("English Monarchs" Series). Berkeley, California: University of California Press, 1974. In American Historical Review 81(1976):572-573.
- CE025 McLaughlin, J.P. "Ideology and Conquest: The Question of Proselytism and Expansion in the French Revolution, 1789-1793." In Canadian Historical Association. Historical Papers. Edited by P. Gillis and M. Caya. Ottawa, Ontario: Canadian Historical Association, 1976. pp.49-66.
- CE026 McLaughlin, J.P. Review of Origines et Histoire des Cabinets des Ministres en France by M. Antoine et al. Geneva, Switzerland: Droz, 1975. In Canadian Journal of History 11(1976):394-395.
- CE027 Metcalf, G. "Harrison, Samuel Bealey." In Dictionary of Canadian Biography, vol. 9, 1861-1870. Toronto, Ontario: University of Toronto Press, 1976. pp.369-373.
- CE028 Neary, P.F. "Bell Island Ballads." In East of Canada, an Atlantic Anthology. Edited by R. Fraser. Portugal Cove, Newfoundland: Breakwater Books, 1976. pp.186-193.
- CE029 Neary, P.F. "Terre-Neuve et la Guerre." Review of Documents Relatifs aux Relations entre le Canada et Terre-Neuve, Vol.1: 1935-1949. Edited by P. Bridle. Ottawa, Ontario: Ministere des Affaires Exterieures, 1974; and of More Fighting Newfoundlanders by G.W.L. Nicholson. Ottawa, Ontario: Government of Newfoundland and Labrador, 1969. In Revue d'Histoire de la Deuxieme Guerre Mondiale no.104(1976):87-89.
- CE030 Pospelovsky, D.V. "Einige Aspekte Nationaler Spannungen in der UdSSR." Osteuropa 27(1977):210-225.
- CE031 Pospelovsky, D.V. Review of Russian Social Democracy in the Underground. A Study of the RSDRP in the Ukraine, 1907-1914 by R.C. Elwood. Assen, Netherlands: Van Gorcum, 1974. In Historian 38(1975/76):753-754.
- CE032 Pospelovsky, D.V. "Russian Nationalist Thought and the Jewish Question." Soviet Jewish Affairs 6,1(1976):3-17.
- CE033 Ruud, C.A. Review of Marx and the Marxists: An Outline of Practice and Theory by D. Childs. Toronto, Ontario: General Publishing, 1973. In History and Social Science Teacher 11,3(1976):66-67.
- CE034 Ruud, C.A. "Stalin Reconsidered." History and Social Science Teacher 12,3(1977):153-158.

- CE035 Steele, I.K. "Integration and Disintegration of the British Atlantic to 1776: An Interpretation of Some Recent Literature." History and Social Science Teacher 12,3(1977):145-152.
- CE036 Steele, I.K. "A London Trader and the Atlantic Empire: Joseph Cruttenden, Apothecary, 1710 to 1717." William and Mary Quarterly 34(1977):281-297.
- CE037 Steele, I.K. Review of The Politics of Command in the American Revolution by J.G. Rossie. Toronto, Ontario: Burns and MacEachern, 1975; and of Alexander McDougall and the American Revolution in New York by R.J. Champagne. Toronto, Ontario: Burns and MacEachern, 1975. In History and Social Science Teacher 12,2(1976):127-128.
- CE038 Talman, J.J. "Askin, John Baptist." In Dictionary of Canadian Biography, vol.9, 1861-1870. Toronto, Ontario: University of Toronto Press, 1976. pp.8-9.
- CE039 Talman, J.J. "Coventry, George." In Dictionary of Canadian Biography, vol.9, 1861-1870. Toronto, Ontario: University of Toronto Press, 1976. pp.163-164.
- CE040 Talman, J.J. "Merritt, William Hamilton." In Dictionary of Canadian Biography, vol.9, 1861-1870. Toronto, Ontario: University of Toronto Press, 1976. pp.544-548.
- CE041 Talman, J.J. "Stephenson, Eleazer Williams." In Dictionary of Canadian Biography, vol.9, 1861-1870. Toronto, Ontario: University of Toronto Press, 1976. pp.744-745.

Department of Political Science

- CF001 Barnard, F.M. "Growth and Political Development." In Proceedings, International Political Science Association, 10th Triennial World Congress, Edinburgh, 1976. Edinburgh, Scotland: International Political Science Association, 1976.
- CF002 Barnard, F.M. Review of Power Influence, and Authority: An Essay in Political Linguistics by D.V.J. Bell. Don Mills, Ontario: Oxford University Press, 1975. In Canadian Journal of Political Science 9 (1976):511-512.
- CF003 Barnard, F.M. "Sensibility, Self-Understanding, and Self-Redemption." Review of Vico and Herder: Two Studies in the History of Ideas by I. Berlin. London, England: Hogarth Press, 1976. In Canadian Journal of Political and Social Theory 1,2(1977):109-119.
- CF004 Cartwright, J.R. Review of Societal Development: Five Approaches with Conclusions from Comparative Analysis by S. Chodak. New York, New York: Oxford University Press, 1973. In Canadian Journal of Political Science 9(1976):339-340.
- CF005 Dobell, W.M. "More Difficulties on N.A.T.O.'s South-Eastern Flank. Aegean Oil in Troubled Waters." Canadian Defence Quarterly 6,2 (1976):37-41.

- CF006 Dobell, W.M. Review of The Arctic in Question. Edited by E.J. Dosman. New York, New York: Oxford University Press, 1976. In Perspective 6 (1977):57-58.
- CF007 Dobell, W.M. Review of Canada at the Polls: The General Election of 1974. Edited by H.R. Penniman. (Foreign Affairs Studies). Washington, D.C.: American Enterprise Institute for Public Policy Research, 1975. In World Affairs 139,1(1976):64-65.
- CF008 Dobell, W.M. Review of Canada-United States Relations. Edited by H.E. English. (Praeger Special Studies in International Politics and Government). New York, New York: Praeger, 1976. In Perspective 5(1976):209-210.
- CF009 Dobell, W.M. Review of Divided Loyalties: Canadian Concepts of Federalism by E.R. Black. Montreal, Quebec: McGill-Queen's University Press, 1975. In Canadian Book Review Annual 1975. Edited by D. Tudor; N. Tudor and L. Biesenthal. Toronto, Ontario: Peter Martin, 1976. pp. 218-219.
- CF010 Dobell, W.M. Review of Government in Canada by T.A. Hockin. (Comparative Modern Governments Series). New York, New York: W.W. Norton, 1976. In Perspective 5(1976):184-185.
- CF011 Khan, R.A.; McNiven, J.D. and MacKown, S.A. An Introduction to Political Science. Revised ed. Georgetown, Ontario: Irwin-Dorsey, 1977.
- CF012 Long, D.G. Bentham on Liberty: Jeremy Bentham's Idea of Liberty in Relation to His Utilitarianism. Toronto, Ontario: University of Toronto Press, 1977.
- CF013 McDougall, J.N. "Canada and the World Petroleum Market." In A Foremost Nation: Canadian Foreign Policy and a Changing World. Edited by N. Hillmer and G. Stevenson. Toronto, Ontario: McClelland and Stewart, 1977. pp. 85-125.
- CF014 McDougall, J.N. "The Parties and the Pipeline." Canadian Forum 56, 666(1976):38.
- CF015 Westmacott, M.W. "The Canadian Transport Commission, Freight Rates, and the Public Interest." In Transportation Policy: Regulation, Competition, and the Public Interest. Edited by K.M. Ruppenthal and W.T. Stanbury. Vancouver, British Columbia: University of British Columbia, Center for Transportation Studies, 1977. pp. 49-91.

Department of Psychology

- CG001 Bermant, G.; Nemeth, C. and Vidmar, N. (Editors) Psychology and the Law. Toronto, Ontario: D.C. Heath, 1976.

- CG002 Bermant, G.; Nemeth, C. and Vidmar, N. "Psychology and the Law: Status and Challenge." In Psychology and the Law. Edited by G. Bermant; C. Nemeth and N. Vidmar. Toronto, Ontario: D.C. Heath, 1976. pp.3-32.
- CG003 Brainerd, C.J. "Analysis and Synthesis of Research on Children's Ordinal and Cardinal Number Concepts." Research Bulletin no.394. London, Ontario: University of Western Ontario, Department of Psychology, November 1976.
- CG004 Brainerd, C.J. "Cognitive Development and Instructional Theory." Research Bulletin no.415. London, Ontario: University of Western Ontario, Department of Psychology, May 1977.
- CG005 Brainerd, C.J. "Concerning Macnamara's Analysis of Piaget's Theory of Number." Child Development 47(1976):893-896.
- CG006 Brainerd, C.J. "Concerning Macnamara's Analysis of Piaget's Theory of Number." Research Bulletin no.381. London, Ontario: University of Western Ontario, Department of Psychology, July 1976.
- CG007 Brainerd, C.J. "Group Theory and Discrimination Shift Behavior." Research Bulletin no.416. London, Ontario: University of Western Ontario, Department of Psychology, May 1977.
- CG008 Brainerd, C.J. "Identity and Reversibility Reprised." Review of Children from 5-7: Some Aspects of the Number Concept by B.R. Hamel. (Studies in Developmental Psychology, vol.1). Rotterdam, Netherlands: Rotterdam University Press, 1974. In Contemporary Psychology 21(1976):59-60.
- CG009 Brainerd, C.J. "Measuring the Ordination—>Cardination Sequence." Psychological Reports 38(1976):1266.
- CG010 Brainerd, C.J. "On the Validity of Propositional Logic as a Model for Adolescent Intelligence." Interchange 7,1(1976):40-45.
- CG011 Brainerd, C.J. "A Worthy Addition." Review of Minnesota Symposia on Child Psychology, Vol.9. Edited by A.D. Pick. Minneapolis, Minnesota: University of Minnesota Press, 1975. In Contemporary Psychology 21(1976):634-636.
- CG012 Broga, M.I. and Neufeld, R.W.J. "Dimensions of Thinking among Process and Reactive Schizophrenics." Psychological Record 2(1977):265-277.
- CG013 Bucher, B. and Okovita, H. "Effects of Differential Reinforcement and Task Difficulty on Preschoolers' Compliance with Teacher Instructions." Journal of Experimental Child Psychology 23(1977):226-236.
- CG014 Bucher, B.; Reykdal, B. and Albin, J. "Brief Physical Restraint to Control Pica in Retarded Children." Journal of Behavior Therapy and Experimental Psychiatry 7(1976):137-140.
- CG015 Cain, D.P. "Seizure Development Following Repeated Electrical Stimulation of Central Olfactory Structures." New York Academy of Sciences. Annals 290(1977):200-216.

- CG016 Clement, R.; Gardner, R.C. and Smythe, P.C. "Motivational Variables in Second Language Acquisition: A Study of Francophones Learning English." Canadian Journal of Behavioural Science 9(1977):123-133.
- CG017 Clement, R.; Major, L.J.; Gardner, R.C. and Smythe, P.C. "Attitudes and Motivation in Second Language Acquisition: An Investigation of Ontario Francophones." In Working Papers on Bilingualism, no. 12. Toronto, Ontario: Ontario Institute for Studies in Education, 1977. pp.1-20.
- CG018 Clement, R.; Smythe, P.C. and Gardner, R.C. "Échelles d'Attitudes et de Motivations Reliées à l'Apprentissage de l'Anglais, Langue Seconde." Canadian Modern Language Review 33(1976/77):5-26.
- CG019 Corcoran, M.E.; Cain, D.P. and Wada, J.A. (Abstract) "Photically Induced Seizures in Ethiopian Baboons, 'Papio Cynocephalus'." In Neuroscience Abstracts: Sixth Annual Meeting of the Society for Neuroscience, Toronto, Canada, November 7-11, 1976. Bethesda, Maryland: Society for Neuroscience, 1976. p.258.
- CG020 D'Agostino, P.R.; O'Neill, B.J. and Paivio, A. "Memory for Pictures and Words as a Function of Level of Processing: Depth or Dual Coding?" Memory and Cognition 5(1977):252-256.
- CG021 Denny, J.P. "Die Auswirkungen von Angst und Intelligenz auf die Begriffsbildung." In Angst bei Schülern und Studenten. Edited by H.W. Krohne. Hamburg, Bundesrepublik Deutschland: Hoffman und Campe, 1977. pp.150-158.
- CG022 Denny, J.P. "Semantics of Abstract Finals in Inanimate Intransitive Verbs." In Actes du Huitième Congrès des Algonquinistes. Edited by W. Cowan. Ottawa, Ontario: Carleton University, 1977. pp.124-142.
- CG023 Denny, J.P. "What are Noun Classifiers Good For?" In Papers from the Twelfth Regional Meeting Chicago Linguistic Society. Edited by S.S. Mufwene; C.A. Walker and S.B. Steever. Chicago, Illinois: Chicago Linguistic Society, 1976. pp.122-132.
- CG024 Evans, D.R. "Programmes in Applied Psychology in Ontario: 1976." Ontario Psychologist 8,4(1976/77)34-49.
- CG025 Evans, D.R. "A Systematized Introduction to Behavior Therapy Training." Journal of Behavior Therapy and Experimental Psychiatry 7(1976):23-26.
- CG026 Evans, D.R. "The Use of the MMPI to Predict Conscientious Hotline Workers." Journal of Clinical Psychology 32(1976):684-686.
- CG027 Evans, D.R. and Hearn, M.T. "The Growth of Humanistic Psychology: A Review Essay." Journal of Educational Thought 11(1977):64-76.
- CG028 Evans, D.R. and Kazarian, S.S. "Development of a State Measure of Obsessive Compulsive Behavior." Journal of Clinical Psychology 33(1977):436-439.

- CG029 Evans, D.R.; Kazarian, S.S. and Greenough, T. (Letter) "The Illusive Attention-Placebo Control for Covert Sensitization." Behavior Therapy 8(1977):98-99.
- CG030 Gardner, R.C. Review of French: From Age Eight, or Eleven? by H.H. Stern; C. Burstall and B. Harley. Toronto, Ontario: Ontario Institute for Studies in Education, 1975. In Canadian Modern Language Review 33 (1976/77):96-97.
- CG031 Harshman, R.A.; Crawford, H.J. and Hecht, E. "Marihuana, Cognitive Style, and Lateralized Hemispheric Functions." In The Therapeutic Potential of Marihuana. Edited by S. Cohen and R.C. Stillman. New York, New York: Plenum, 1976. pp.205-254.
- CG032 Helmes, E. and Jackson, D.N. "The Item Factor Structure of the Personality Research Form." Applied Psychological Measurement 1(1977):185-194.
- CG033 Hoffman, H. and Jackson, D.N. "Substantive Dimensions of Psychopathology Derived from MMPI Content Scales and the Differential Personality Inventory." Journal of Consulting and Clinical Psychology 44(1976):862.
- CG034 Hundert, J. and Bucher, B. "Effect of Word Discrimination Training on Word Pronunciation in Reading." In Behavior Analysis in Education: Self-control and Reading. Edited by T.A. Brigham; R.P. Hawkins; J.W. Scott and T.F. McLaughlin. Dubuque, Iowa: Kendall/Hunt, 1976. pp. 183-188.
- CG035 Jackson, D.N. "Distinguishing Trait and Method Variance in Multitrait-Multimethod Matrices: A Reply to Golding." Multivariate Behavioral Research 12(1977):99-110.
- CG036 Jackson, D.N. "Reliability of the Jackson Personality Inventory." Psychological Reports 40(1977):613-614.
- CG037 Jackson, D.N. and Benko, B.F. "Career Exploration: The Case of Kathryn S." School Guidance Worker 32,4(1977):51-56.
- CG038 Jaffe, P.G. and Katz, A.N. "Attenuating Anterograde Amnesia in Korsakoff's Psychosis." Journal of Abnormal Psychology 84(1975):559-562.
- CG039 Jessup, B.A. and Neufeld, R.W.J. "Effects of Biofeedback and 'Autogenic Relaxation' Techniques on Physiological and Subjective Responses in Psychiatric Patients: A Preliminary Analysis." Behavior Therapy 8 (1977):160-167.
- CG040 Katz, A.N. and Denny, J.P. "Memory-Load and Concreteness in the Order of Dominance Effect for Verbal Concepts." Journal of Verbal Learning and Verbal Behaviour 16(1977):13-20.
- CG041 Kazarian, S.S. and Evans, D.R. "Modification of Obsessional Ruminations: A Comparative Study." Canadian Journal of Behavioural Science 9(1977): 91-100.

- CG042 Kazarian, S.S.; Evans, D.R. and Lefave, K. "Modification and Factorial Analysis of the Leyton Obsessional Inventory." Journal of Clinical Psychology 33(1977):422-425.
- CG043 Kimura, D. "The Neural Basis of Language Qua Gesture." In Studies in Neurolinguistics, vol.2. Edited by H. Avakian-Whitaker and H.A. Whitaker. New York, New York: Academic Press, 1976. pp.145-156.
- CG044 Kimura, D.; Battison, R. and Lubert, B. "Impairment of Nonlinguistic Hand Movements in a Deaf Aphasic." Brain and Language 3(1976):566-571.
- CG045 Kuiper, N.A. and Paivio, A. "Incidental Recognition Memory for Concrete and Abstract Sentences Equated for Comprehensibility." Psychonomic Society. Bulletin 9(1977):247-249.
- CG046 Lomas, J. and Kimura, D. "Intrahemispheric Interaction Between Speaking and Sequential Manual Activity." Neuropsychologia 14(1976):23-33.
- CG047 Marschark, M. and Paivio, A. "Integrative Processing of Concrete and Abstract Sentences." Journal of Verbal Learning and Verbal Behavior 16(1977):217-231.
- CG048 Mateer, C. and Kimura, D. "Impairment of Nonverbal Oral Movements in Aphasia." Brain and Language 4(1977):262-276.
- CG049 Miller, D.T. "Ego Involvement and Attributions for Success and Failure." Journal of Personality and Social Psychology 34(1976):901-906.
- CG050 Miller, D.T. "Personal Deserving Versus Justice for Others: An Exploration of the Justice Motive." Journal of Experimental Social Psychology 13(1977):1-13.
- CG051 Miller, D.T. and Karniol, R. "Coping Strategies and Attentional Mechanisms in Self-Imposed and Externally Imposed Delay Situations." Journal of Personality and Social Psychology 34(1976):310-316.
- CG052 Miller, D.T. and Karniol, R. "The Role of Rewards in Externally and Self-Imposed Delay of Gratification." Journal of Personality and Social Psychology 33(1976):594-600.
- CG053 Neufeld, R.W.J. "Components of Processing Deficit Among Paranoid and Nonparanoid Schizophrenics." Journal of Abnormal Psychology 86(1977):60-64.
- CG054 Neufeld, R.W.J. "Evidence of Stress as a Function of Experimentally Altered Appraisal of Stimulus Aversiveness and Coping Adequacy." Journal of Personality and Social Psychology 33(1976):632-646.
- CG055 Neufeld, R.W.J. "Simultaneous Processing of Multiple Stimulus Dimensions among Paranoid and Nonparanoid Schizophrenics." Multivariate Behavioral Research 11(1976):425-441.
- CG056 Paivio, A. "A Dual Coding Approach to Perception and Cognition." In Modes of Perceiving and Processing Information. Edited by H.L. Pick and E. Saltzman. Potomac, Montana: Lawrence Erlbaum, 1977. pp.39-51.

- CG057 Paivio, A. "Images, Propositions, and Knowledge." In Images, Perception and Knowledge. Edited by J.M. Nicholas. Managing editor J.J. Leach. (University of Western Ontario Series in Philosophy of Science, vol.8). Dordrecht, Netherlands: D. Reidel, 1977. pp.47-71.
- CG058 Paquin, M.J. and Jackson, D.N. "Labelling Effects in Clinical Judgments of Psychopathology." Journal of Clinical Psychology 33(1977): 109-115.
- CG059 Poitras-Martin, D. and Stone, G.L. "Psychological Education: A Skill-Oriented Approach." Journal of Counseling Psychology 24(1977):153-157.
- CG060 Roberts, W.A. "Failure to Replicate Visual Discrimination Learning with a 1-Min Delay of Reward." Learning and Motivation 7(1976):313-325.
- CG061 Roberts, W.A. "Still No Evidence for Visual Discrimination Learning: A Reply to Lett." Learning and Motivation 8(1977):140-144.
- CG062 Robinson, T.E.; Kramis, R.C. and Vanderwolf, C.H. "Two Types of Cerebral Activation during Active Sleep: Relations to Behavior." Brain Research 124(1977):544-549.
- CG063 Rokeach, M. and Vidmar, N.J. "Testimony Concerning Possible Jury Bias in a Black Panther Murder Trial." In Psychology and the Litigation Process. Toronto, Ontario: Law Society of Upper Canada, Department of Continuing Education, 1977. pp.132-143.
- CG064 Rollman, G.B. "Signal Detection Theory Assessment of Pain Modulation: A Critique." In Advances in Pain Research and Therapy, Vol. 1. Edited by J.J. Bonica and D. Albe-Fessard. New York, New York: Raven Press, 1976. pp.355-362.
- CG065 Scheid, A.B. "Clients' Perception of the Counselor: The Influence of Counselor Introduction and Behavior." Journal of Counseling Psychology 23(1976):503-508.
- CG066 Schnore, M.M. "Pros and Cons in the Psychology of Ageing." Research Bulletin no.407. London, Ontario: University of Western Ontario, Department of Psychology, April 1977.
- CG067 Simner, M.L. "Interflash Interval and the Chicks' Differential Attraction toward Intermittent Light." Behavioral Biology 17(1976):355-365.
- CG068 Simner, M.L. and Kaplan, W. "The Cardiac Self-Stimulation Hypothesis and the Chick's Differential Attraction toward Intermittent Sound." Developmental Psychobiology 10(1977):177-186.
- CG069 Sorrentino, R.M.; Vidmar, N. and Goodstadt, M.S. "Opinion Change in a Crisis: Effects of the 1970 Canadian Kidnapping Crisis on Political and Ethnic Attitudes." In Canada: A Sociological Profile. Compiled by W.E. Mann. Toronto, Ontario: Copp Clark, 1977. pp.119-130.
- CG070 Stebbins, P. and Stone, G.L. "Internal-External Control and the Attribution of Responsibility Under Questionnaire and Interview Conditions." Journal of Counseling Psychology 24(1977):165-168.

- CG071 Steele, D. and Pederson, D.R. "Stimulus Variables Which Affect the Concordance of Visual and Manipulative Exploration in Six-Month-Old Infants." Child Development 48(1977):104-111.
- CG072 Stone, G.L. and Morden, C.J. "Effect of Distance on Verbal Productivity." Journal of Counseling Psychology 23(1976):486-488.
- CG073 Strasburger, E.L. and Jackson, D.N. "Improving Accuracy in a Clinical Judgmental Task." Journal of Consulting and Clinical Psychology 45 (1977):303-309.
- CG074 Turner, G.H. "Consciousness and Free Will." Ontario Psychologist 8,5 (1976/77):36-40.
- CG075 Uhlemann, M.R.; Lea, G.W. and Stone, G.L. "Effect of Instructions and Modeling on Trainees Low in Interpersonal-Communication Skills." Journal of Counseling Psychology 23(1976):509-513.
- CG076 Vanderwolf, C.H. "Hippocampal Activity and Scopolamine." Science 192 (1976):914.
- CG077 Vidmar, N.J. "Choosing, Finding, and Evaluating Methods of Obtaining Legal Justice." Review of Procedural Justice: A Psychological Analysis by J. Thibaut and L. Walker. Hillsdale, New Jersey: Erlbaum, 1975. In Contemporary Psychology 21(1976):773-774.
- CG078 Vidmar, N.J. "Social Science and Jury Selection." In Psychology and the Litigation Process. Toronto, Ontario: Law Society of Upper Canada, Department of Continuing Education, 1977. pp.100-131.
- CG079 Weigel, R.G. and Uhlemann, M.R. "Developing Individualized Behavior-Change Goals with Clients." Journal of Contemporary Psychotherapy 7,2 (1975):91-95.
- CG080 Whishaw, I.Q.; Bland, B.H.; Robinson, T.E. and Vanderwolf, C.H. "Neuro-muscular Blockade: The Effects on Two Hippocampal RSA (Theta) Systems and Neocortical Desynchronization." Brain Research Bulletin 1(1976): 573-581.
- CG081 Wright, M.J. and Myers, C.R. "Joint Report on the XXIst International Congress of Psychology in Paris, France, July 18-25, 1976." Canadian Psychological Association. Bulletin 4,2(1976):6-8.

Department of Secretarial & Administrative Studies

- CH001 Stevenson, J.H. (Compiler) The Canadian Letterhead/Envelope Portfolio. London, Ontario: Alexander, Blake Associates, 1976.

Department of Sociology

- CJ001 Balakrishnan, T.R. "Determinants of Female Age at Marriage in Rural and Semi-Urban Areas of Four Latin American Countries." Journal of Comparative Family Studies 7(1976):167-173.

- CJ002 Balakrishnan, T.R. "Ethnic Residential Segregation in the Metropolitan Areas of Canada." Canadian Journal of Sociology 1(1976):481-498.
- CJ003 Balakrishnan, T.R. and Jarvis, G.K. "Socioeconomic Differentiation in Urban Canada." Canadian Review of Sociology and Anthropology 13 (1976):204-216.
- CJ004 Balakrishnan, T.R. and Wolf, L.C. "Life Expectancy of Mentally Retarded Persons in Canadian Institutions." American Journal of Mental Deficiency 80(1976):650-662.
- CJ005 Beaujot, R.P. "Fécondité Différentielle selon l'Origine Ethnique: Quelques Remarques Théoriques." Cahiers Québécois de Démographie 5,2 (1976):27-44.
- CJ006 Ferrence, R.G. and Whitehead, P.C. "Impaired Driving and Public Policy: An Evaluation of Proposed Countermeasures." Blutalkohol 14 (1977):106-117.
- CJ007 Frankel, B.G.; Brook, R.C. and Whitehead, P.C. Therapeutic Communities for the Management of Addictions: A Critically Annotated Bibliography. Series editor R.J. Hall. (Bibliographic Series, no. 12). Toronto, Ontario: Addiction Research Foundation of Ontario, 1976.
- CJ008 Frankel, B.G.; Ferrence, R.G.; Johnson, F.G. and Whitehead, P.C. "Drinking and Self-Injury: Toward Untangling the Dynamics." British Journal of Addiction 71(1976):299-306.
- CJ009 George, P.M.; Ebanks, G.E. and Nobbe, C.E. "Labor Force Participation and Fertility, Contraceptive Knowledge Attitude and Practice of the Women of Barbados." Journal of Comparative Family Studies 7(1976): 273-284.
- CJ010 George, P.M.; Ebanks, G.E.; Nobbe, C.E. and Anwar, M. "Fertility Differences Between the Family of Orientation and the Family of Procreation in Barbados." International Journal of Sociology of the Family 6(1976):57-69.
- CJ011 Gillis, A.R. Review of Deviants and Deviance: An Introduction to the Study of Disvalued People and Behavior by E. Sagarin. New York, New York: Praeger, 1975. In Journal of Criminal Law and Criminology 66 (1975):516.
- CJ012 Grindstaff, C.F. "The Baby Bust: Changes in Fertility Patterns in Canada." Canadian Studies in Population 2(1975):15-22.
- CJ013 Grindstaff, C.F. "The Canadian Pharmacist and Family Planning." Family Planning Perspectives 9(1977):81-84.
- CJ014 Grindstaff, C.F. "The Role of the Canadian Pharmacist in the Control and Prevention of Venereal Disease." Canadian Pharmaceutical Journal 110,3(1977):3-6.

- CJ015 Grindstaff, C.F. "Trends and Incidence of Childlessness by Race: Indicators of Black Progress Over Three Decades." Sociological Focus 9(1976):265-284.
- CJ016 Hamblin, R.L. and Kunkel, J.H. (Editors) Behavioral Theory in Sociology: Essays in Honor of George C. Homans. New Brunswick, New Jersey: Transaction Books, 1977.
- CJ017 Henshel, R.L. (Editorial Comment) "Around the Disciplines." Sociological Practice 1(1976):140-141.
- CJ018 Henshel, R.L. (Editor) Futures Canada 1(1976/77).
- CJ019 Henshel, R.L. Reacting to Social Problems. General editor A.-M. Henshel. (Canadian Social Problems Series). Don Mills, Ontario: Longman, 1976.
- CJ020 Henshel, R.L. Review of Crime and Privilege: Toward a New Criminology by B. Krisberg. Englewood Cliffs, New Jersey: Prentice-Hall, 1975. In Journal of Criminal Law and Criminology 67(1976):494-495.
- CJ021 Levine, C.G. "Role-Taking Standpoint and Adolescent Usage of Kohlberg's Conventional Stages of Moral Reasoning." Journal of Personality and Social Psychology 34(1976):41-46.
- CJ022 Nobbe, C.E.; Ebanks, G.E. and George, P.M. "A Re-exploration of the Relationship between Types of Sex Unions and Fertility: the Barbadian Case." Journal of Comparative Family Studies 7(1976):295-308.
- CJ023 Palmore, J.A.; Oh, N.K.; Hong, S. and Grindstaff, C.F. "Drug Stores and Family Planning: The Cheju, Korea, Pilot Survey." Journal of East and West Studies 6,1(1977):71-80.
- CJ024 Rinehart, J.W. "Wage Controls, Unions, and Class Conflict." Our Generation 11,3(1976):27-34.
- CJ025 Singer, B.D. Racial Factors in Psychiatric Intervention. San Francisco, California: R & E Research Associates, 1977.
- CJ026 Teevan, J.J., Jr. "Deterrent Effects of Punishment for Breaking and Entering and Theft." In Fear of Punishment: Deterrence. Ottawa, Ontario: Law Reform Commission of Canada, 1976. pp. 121-149.
- CJ027 Teevan, J.J., Jr. "Deterrent Effects of Punishment for Breaking and Entering and Theft." In Fear of Punishment: Deterrence. Ottawa, Ontario: Law Reform Commission of Canada, 1976. pp. 121-149. Reprinted in Canadian Journal of Criminology and Corrections 19,2(1977).
- CJ028 Teevan, J.J., Jr. "Subjective Perception of Deterrence (Continued)." Journal of Research in Crime and Delinquency 13(1976):155-164.
- CJ029 Whitehead, P.C. Drinking Practices and Attitudes Toward Alcoholic Beverages in Fredericton New Brunswick: Panel Study, 1976. Fredericton, New Brunswick: Department of Health, Alcoholism Program, 1976.

- CJ030 Whitehead, P.C. "An Epidemiological Description of the Development of Drug Dependence: Environmental Factors and Prevention." American Journal of Drug and Alcohol Abuse 3(1976):323-338.
- CJ031 Whitehead, P.C. Evaluating the AWARE Program: Progress and Prospects. Regina, Saskatchewan: Department of Health, 1976.
- CJ032 Whitehead, P.C. and Cabral, R.M. "Scaling the Sequence of Drug Using Behaviours: A Test of the Stepping-Stone Hypothesis." Drug Forum 5 (1975/76):45-54.
- CJ033 Whitehead, P.C. and Ferrence, R.G. "Liberated Drinking: New Hazard for Women." Addictions 24,1(1977):36-53.
- CJ034 Whitehead, P.C. and Ferrence, R.G. "Women and Children Last: Implications of Trends in Consumption for Women and Young People." In Alcoholism Problems in Women and Children. Edited by M. Greenblatt and M.A. Schuckit. New York, New York: Grune & Stratton, 1976. pp. 163-192.

For joint authors see the Name Index at the end of this volume.

FACULTY OF MUSIC

- D001 Anderson, J. i thank you God for most this amazing: for Four-Part Chorus of Mixed Voices with Organ (or Piano) Accompaniment. New York, New York: Lawson-Gould, 1976.
- D002 Bailey, K. "The Art of Fugue: A New Explanation." Studies in Music from the University of Western Ontario 1,1(1976):31-42.
- D003 Bailey, T.W. "Accentual and Cursive Cadences in Gregorian Psalmody." Journal of the American Musicological Society 29,3(1976):463-471.
- D004 Bailey, T.W. "Modes and Myth." Studies in Music from the University of Western Ontario 1,1(1976):43-54.
- D005 Behrens, J. (Phonodisc) The Feast of Life (for piano). Greenville, Maine: Opus One (13), 1976.
- D006 Behrens, J. "Music Theory - An Alternative Approach." Improving University Teaching Third International Conference. Contributed Papers. Newcastle-upon-Tyne, England. June 1977. pp. B219-B226.
- D007 Bray, K.I. "The Arts in Education: A Need or a Luxury?" The Recorder 19,4(1977):178-180.
- D008 Downs, P.G. "Mozart's Use of the Commentator in Drama." Studies in Music from the University of Western Ontario 1,1(1976):71-87.
- D009 Fiske, H.E. "The Brain and Musical Behaviour: Current Research Results." The Recorder 19,3(1977):144-147.
- D010 Fiske, H.E. (Abstract) "Hemispheric Dominance in Judge Reliability of Musical Performance." Music Research News 3(1977):4.
- D011 Green, J.P. "Music in Higher Education: Programs or Politics?" The Recorder 19,2(1976):67-69.
- D012 Greene, G.K. "Incipient Ars Nova in the Brussels Rotulus." Studies in Music from the University of Western Ontario 1,1(1976):8-14.
- D013 McLean, H.J. "'Haydn' or Haydn?" Poland: Illustrated Magazine (Simultaneously appearing in translation in Swedish, Polish, French, German and Spanish editions of the journal) 7(1976):pp.38-39,50.
- D014 McLean, H.J. "He's Back in the Land of the Living." In Songs of the Liturgy. Compiled and edited by D.J. Newman. Evergreen Park, Illinois: St. Bernadette Parish, 1976. p.9.
- D015 McLean, H.J. "Mozart Parodies and Haydn Perplexities: New Sources in Poland." Studies in Music from the University of Western Ontario 1,1(1976):1-7.
- D016 Neville, D.J. "La Clemenza Di Tito: Metastasio, Mazzola and Mozart." Studies in Music from the University of Western Ontario 1,1(1976):124-148.

- D017 Proctor, G.A. "Introduction." In Canadian Music Scores and Recordings: A Classified Catalogue. Edited by G. Creelman, E. Cooke, and G. King. Sackville, New Brunswick: Mount Allison University, Ralph Packard Bell Library, 1976. pp. ii-iii.
- D018 Proctor, G.A. "Neo-Classicism and Neo-Romanticism in Canadian Music." Studies in Music from the University of Western Ontario 1,1(1976): 15-22.
- D019 Spilsted, G. "Toward the Genesis of the Trent Codices: New Directions and New Findings." Studies in Music from the University of Western Ontario 1,1(1976):55-70.
- D020 Stokes, J.L. "Beethoven's Endorsements of Maelzel's Metronome." Studies in Music from the University of Western Ontario 1,1(1976): 23-30.
- D021 Wuensch, G. (Phonodisc) Suite for Trumpet and Organ, op. 40. Montreal, Quebec: Radio Canada International (RCI 406), 1976.

For joint authors see the Name Index at the end of this volume.

FACULTY OF MEDICINEDepartment of Anaesthesia

- EA001 Bain, J.A. and Spoerel, W.E. [Untitled Letter to the Editor.] In Canadian Anaesthetists' Society Journal 24(1977):142.
- EA002 Bryan, A.C.; Bryan, M.H.; Kirkpartrick, S.M.L. and Knill, R.L. "The Use of Airway Occlusion in Infants." Chest 70,Supp.(1976):142S-145S.
- EA003 Bryan, M.H.; Knill, R.L. and Bryan, A.C. "Chest Wall Instability and its Influence on Respiration in the Newborn Infant." In Intensive Care in the Newborn. Edited by L. Stern; B. Friis-Hansen and P. Kildeberg. New York, New York: Masson, 1976. pp. 249-258.
- EA004 Coles, J.C.; Doctor, A.; Lefcoe, M. and Butlin, G. "A Method of Anaesthesia for Imminent Tracheal Obstruction." Surgery 80(1976):379-381.
- EA005 Glennie, G.D. "Operative Anesthesia" in Basic Surgery. Edited by J.A. McCredie. New York, New York: Macmillan, 1977. pp. 222-232.
- EA006 Greenway, R.E.; Heeneman, H. and Keeri-Szanto, M. "Circulatory Monitoring Using a Carbon Dioxide Analyzer During Planned Hypotension: A Clinical Note." Canadian Anaesthetists' Society Journal 24(1977):282-285.
- EA007 Keeri-Szanto, M. "Anaesthesia Time/Dose Curves IX: The Use of Hydro-morphone in Surgical Anaesthesia and Postoperative Pain Relief in Comparison to Morphine." Canadian Anaesthetists' Society Journal 23(1976):587-595.
- EA008 Keeri-Szanto, M. (Letter) "Bain Circuit." Canadian Anaesthetists' Society Journal 23(1976):673-674.
- EA009 Keeri-Szanto, M. (Letter) "Fear of Anesthesia." Canadian Medical Association Journal 116(1977):20.
- EA010 Keeri-Szanto, M. (Letter) "Supplementation of General Anaesthesia with Narcotic Analgesics." British Journal of Anaesthesia 49(1977):517-518.
- EA011 Knill, R.L. (Abstract) "Ventilatory Response to Hypoxaemia during Halothane Anaesthesia in Man." Clinical Research 24(1976):691A.
- EA012 Knill, R.; Cosgrove, J.F.; Olley, P.M. and Levison, H. "Components of Respiratory Depression after Narcotic Premedication in Adolescents." Canadian Anaesthetists' Society Journal 23(1976):449-458.
- EA013 Lobb, T. "Management of Adult Respiratory Distress Syndrome ("Shock Lung")." In Management of the Critically Ill Medical/Surgical Patient. Edited by W. Sibbald, T. Lobb and R. Holliday. London, Ontario: University of Western Ontario, 1976. pp.135-140.
- EA014 Sellery, G.R. "A Canadian's Overview of Anaesthesia Training in Great Britain." Canadian Anaesthetists' Society Newsletter, 1977.
- EA015 Sellery, G.R. "Certification of Anesthetists in Canada." International Anesthesiology Clinics 14,4(1976):145-163.

- EA016 Spoerel, W.F. "Akupunktur-Analgesie in China." Anaesthesist 25(1976): 197-203.
- EA017 Spoerel, W.E. [Untitled Letter to the Editor] In Canadian Anaesthetists' Society Journal 23(1976):556.
- EA018 Spoerel, W.E. and Chan, C.K. "Jet Ventilation for Tracheobronchial Suction." Anesthesiology 45(1976):450-452.
- EA019 Spoerel, W.E.; Varkey, M. and Leung, C.Y. "Acupuncture in Chronic Pain." American Journal of Chinese Medicine 4(1976):267-279.

Department of Anatomy

- EB001 Altmann, G.G. (Abstract) "A Possible Mechanism of Epithelial Cell Extrusion in the Small Intestine." Anatomical Record 187(1977):523.
- EB002 A-Wahab, Z. and Altmann, G.G. (Abstract) "Ultrastructural Changes in Small Intestinal Epithelium Following Alterations of Cell Metabolism." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):134.
- EB003 Buck, R.C. "Optical Staining for Lipid Droplets in Living Cells Using a Laser Beam." Journal of the Biological Photographic Association 45, 2(1977):67-68.
- EB004 Buck, R.C. "Organ Cultures of Rat Aorta: A Scanning and Transmission Electron Microscopic Study." Experimental and Molecular Pathology 26 (1977):260-276.
- EB005 Buck, R.C.; Ohara, P.T. and Daniels, W.H. "Intercellular Bridges of Chick Blastoderm Studied by Scanning and Transmission Electron Microscopy". Experientia 32(1976):505-507.
- EB006 Chang, L.W.; Mak, L.L.M. and Martin, A.H. "Dose-Dependent Effects of Methylmercury on Limb Regeneration of Newts (*Triturus Viridescens*)." Environmental Research 11(1976):305-309.
- EB007 Drury, P. "The Histological Demonstration of Tyzzer's Disease." DVTA 22,12(1976).
- EB008 Egan, D.A.; Flumerfelt, B.A. and Gwyn, D.G. "Axon Reaction in the Red Nucleus of the Rat; Perikaryal Volume Changes and the Time Course of Chromatolysis Following Cervical and Thoracic Lesions." Acta Neuropathologica 37(1977):13-19.
- EB009 Flumerfelt, B.A. and Kapogianis, E.M. (Abstract) "The Organization of the Lateral Reticular Nucleus in the Rat." Anatomical Record 187,4 (1977):579.
- EB010 Galil, K.A. "Abdominal Pain of Possible Dental Origin." Journal of Oral Medicine 31,4(1976):112-114.
- EB011 Galil, K.A. "Accurate Replication of Enamel for Examination by Scanning Electron Microscopy." Journal of Dental Research 55,4(1976):710.

- EB012 Galil, K.A. Abstract of "Alveolar Soft-Part Sarcoma in the Oral Cavity." Report of a Case" by R.A.J. Olson and K. Perkins. Journal of Oral Surgery 34(1976):73-76: In Oral Research Abstracts 12(1977):221, no.1661.
- EB013 Galil, K.A. Abstract of "Antibiotic Efficacy in Odontogenic Infections" by M.L. Gabrielson and E. Stroh. Journal of Oral Surgery 33(1975):807-810. In Oral Research Abstracts 11(1976):829, no.6070.
- EB014 Galil, K.A. Abstract of "Composite Materials for Dental Implants" by A. Schulman, S.J. Piliero, L. Pentel, W.R. Ott and H.D. Maskowitz. Oral Surgery, Oral Medicine, Oral Pathology 40(1975):183-193. In Oral Research Abstracts 11(1976):1034, no.7617.
- EB015 Galil, K.A. Abstract of "Computer-Assisted Instruction at the University of Toronto" by R.W. Hillis. Ontario Dentist 52(1975):8-10. In Oral Research Abstracts 12(1977):205, no.1533.
- EB016 Galil, K.A. Abstract of "Effectiveness of Self Prophylaxis and Rubber Prophylaxis for Improving Pedodontic Home Care" by P. Clarke and I. Seabrooke. Journal of the Canadian Dental Association 41(1975):511-514. In Oral Research Abstracts 11(1976):984, no.7176.
- EB017 Galil, K.A. Abstract of "Electron Microscopy at the Dental School" by R. Quinton-Cox. Oregon Dental Association Journal 45(1975):8-9. In Oral Research Abstracts 12(1977):393, no.3015.
- EB018 Galil, K.A. Abstract of "Facilitation by Oxygen of an Induced Hyperpyrexia during General Anesthesia in Dogs" by J.G. Morgan and E.E. Gatz. Journal of Oral Surgery 32(1974):823-828. In Oral Research Abstracts 11(1976):9, no.18.
- EB019 Galil, K.A. Abstract of "Fine Anatomy of Neurosecretory Cells in the Human Gingiva" by M.J. Luzardo-Baptista and J. Garcia-Tamayo. Oral Surgery, Oral Medicine, Oral Pathology 38(1974):928-933. In Oral Research Abstracts 11(1976):196, no.1309.
- EB020 Galil, K.A. Abstract of "Formation of Supporting Bone in Association with Periodontal Ligament Organization in the Mouse" by A.R. Tencate. Archives of Oral Biology 20(1975):137-138. In Oral Research Abstracts 11(1976):422, no.2992.
- EB021 Galil, K.A. Abstract of "Histologic Evaluation of Vital Root Retention" by D.L. Johnson; J.F. Kelly; R.J. Flinton and M.T. Cornell. Journal of Oral Surgery 32(1974):829-833. In Oral Research Abstracts 11(1976):22, no.125.
- EB022 Galil, K.A. Abstract of "Inexpensive Osteotomes for Orthognathic Surgery" by F.A. Bell and E.W. Small. Journal of Oral Surgery 33(1975):545. In Oral Research Abstracts 11(1976):847, no.6220.
- EB023 Galil, K.A. Abstract of "Injuries to the Teeth and Jaw - a Problem for All Seasons" by A. Reid and A. Ruprecht. Ontario Dentist 52(1975):5-9. In Oral Research Abstracts 12(1977):270, no.2044.

- EB024 Galil, K.A. Abstract of "Intentional Submucosal Submergence of Non Vital Roots" by M.P. Levin; L. Getter, D.E. Cutright and S.N. Bhaskar. Journal of Oral Surgery 32(1974):834-839. In Oral Research Abstracts 11(1976):79,no.579.
- EB025 Galil, K.A. Abstract of "Intraoral Use of Kirschner Pins" by A. Reyes-Buerra, Jr. Journal of Oral Surgery 33(1975):304-306. In Oral Research Abstracts 11(1976):663,no.4816.
- EB026 Galil, K.A. Abstract of "Keratoacanthoma of the Lower Lip." Oral Surgery, Oral Medicine, Oral Pathology 38(1974):918-927. In Oral Research Abstracts 11(1976):85,no.625.
- EB027 Galil, K.A. Abstract of "Maxillary Exostoses. Surgical Management of an Unusual Case" by J.R. Blackmore, D.J. Eller, and A.J. Tomaro. Oral Surgery, Oral Medicine, Oral Pathology 40(1975):200-204. In Oral Research Abstracts 11(1976):1034,no.7616.
- EB028 Galil, K.A. Abstract of "Membrane Junctions on Cat Odontoblasts" by G.R. Holland. Archives of Oral Biology 20(1975):551-552. In Oral Research Abstracts 11(1976):966,no.7023.
- EB029 Galil, K.A. Abstract of "Metal Implants and the Mandibular Bone Plate" by I.A. Small. Journal of Oral Surgery 33(1975):571-585. In Oral Research Abstracts 11(1976):966,no.7630.
- EB030 Galil, K.A. Abstract of "Middle Third Facial Osteotomies: Their Use in the Correction and Developmental Dento-Facial and Craniofacial Deformities" by B.N. Epker and L.M. Wolford. Journal of Oral Surgery 33(1975):491-514. In Oral Research Abstracts 11(1976):848,no.6222.
- EB031 Galil, K.A. Abstract of "Mucormycosis of the Craniofacial Structures" by T.T. Tabachink and B. Levine. Journal of Oral Surgery 33(1975):464-469. In Oral Research Abstracts 11(1976):710,no.5171.
- EB032 Galil, K.A. Abstract of "Oral papillomas. Clinicopathologic Evaluation and Retrospective Examination for Dyskeratosis in 110 Lesions" by R.O. Greer and H.M. Goldman. Oral Surgery, Oral Medicine, Oral Pathology 38(1974):435-440. In Oral Research Abstracts 11(1976):247,no.1713.
- EB033 Galil, K.A. Abstract of "Patient Consent Procedures for Dental Care" by P. Milgrom and J.I. Ingle. Journal of Oral Surgery 33(1975):515-522. In Oral Research Abstracts 11(1976):698,no.5080.
- EB034 Galil, K.A. Abstract of "Pericardial Effusion with Tamponade: An Unusual Complication Associated with Oral Bleeding" by J.W. Gormley and C.E. Schnow, Jr. Journal of Oral Surgery 33(1975):292-295. In Oral Research Abstracts 11(1976):536,no.3910.
- EB035 Galil, K.A. Abstract of "Phenylbutazone-Induced Sialadenitis" by A.A. Garfunkel, N.W. Roller and I.I. Ship. Oral Surgery, Oral Medicine, Oral Pathology 38(1974):223-226. In Oral Research Abstracts 11(1976):247,no.1712.

- EB036 Galil, K.A. Abstract of "Primary Malignant Melanoma of the Oral Cavity in Indians" by C.S. Soman and M.V. Sirsat. Oral Surgery, Oral Medicine, Oral Pathology 38(1974):426-434. In Oral Research Abstracts 11(1976): 233,no.1591.
- EB037 Galil, K.A. Abstract of "Proplast in Dental Facial Reconstruction" by J.N. Kent, C.A. Homsy, and E.C. Hinds. Oral Surgery, Oral Medicine, Oral Pathology 39(1975):347-355. In Oral Research Abstracts 11(1976): 278,no.1970.
- EB038 Galil, K.A. Abstract of "Radiologic Examination: General Consideration" by J.A. Reid and A. Ruprecht. Ontario Dentist 51,12(1974):6-8. In Oral Research Abstracts 11(1976):376,no.2617.
- EB039 Galil, K.A. Abstract of "Reconstruction of the Orbital Floor with Chrome-Cobalt Mesh" by R. Kummoona and S.N. Fattah. Journal of Oral Surgery 33(1975):542-544. In Oral Research Abstracts 11(1976):847,no. 6221.
- EB040 Galil, K.A. (Abstract) "Scanning and Transmission Electron Microscopic Examination of Occlusal Surface Plaque Following Tooth Brushing". Journal of the Canadian Dental Association 41(1975):499-503. In Oral Research Abstracts 11(1976):1018,no.7474.
- EB041 Galil, K.A. Abstract of "Self-Application in Phospho-Fluoride Brushing Study" by S.J. Gallagher, M.W. Maclean, G.A. Constanzo and R. Caldwell. Journal of the Canadian Dental Association 41(1975):505-508. In Oral Research Abstracts 11(1976):985,no.7177.
- EB042 Galil, K.A. Abstract of "A Simple Probe for Cryosurgical Therapy for Hemangiomas" by J.E. Hickory, W.M. Wade, J.R. Grossman and F.R. Jones. Journal of Oral Surgery 33(1975):546-547. In Oral Research Abstracts 11(1976):847,no.6219.
- EB043 Galil, K.A. Abstract of "Simplified Method of Palatal Splinting" by R.G. Bourdeau. Journal of Oral Surgery 34(1976):79-80. In Oral Research Abstracts 12(1977):270,no.2046.
- EB044 Galil, K.A. "Supernumerary Teeth and Dentigerous Cyst". Oral Surgery, Oral Medicine, Oral Pathology 41(1976):687-688.
- EB045 Galil, K.A. Abstract of "Surgical Correction of Posterior Crossbite" by W.H. Bell and T.A. Turvey. Journal of Oral Surgery 32(1974):811-822. In Oral Research Abstracts 10(1975):1139,no.7598.
- EB046 Galil, K.A. Abstract of "Surgical Draping of the Nasoendotracheal Tube" by J.L. Landsman and L.P. Allora. Journal of Oral Surgery 33 (1975):629. In Oral Research Abstracts 11(1976):1035,no.7625.
- EB047 Galil, K.A. Abstract of "Survey of Maxillofacial Fractures" by E.W. Small. Journal of Oral Surgery 34(1976):27-28. In Oral Research Abstracts 12(1977):269,no.2043.

- EB048 Galil, K.A. Abstract of "Swallowing and Speech After Radical Total Glossectomy with Tongue Prosthesis" by L.J. de Souza and O.J. Martins. Oral Surgery, Oral Medicine, Oral Pathology 39(1975):356-360. In Oral Research Abstracts 11(1976):461,no.3341.
- EB049 Galil, K.A. Abstract of "Transplantation of Third Molar into Edentulous Site" by W.W. Conklin. Oral Surgery, Oral Medicine, Oral Pathology 38(1974):193-197. In Oral Research Abstracts 11(1976):269,no.1891.
- EB050 Galil, K.A. Abstract of "Transport and Storage of Human Teeth in Vitro for Autotransplantation and Replantation" by L. Kristerson, P.O. Soder and P. Otteskog. Journal of Oral Surgery 34(1976):13-18. In Oral Research Abstracts 12(1977):270,no.2045.
- EB051 Galil, K.A. Abstract of "Treatment of Temporomandibular Joint Ankylosis with Methylmethacrylate Interpositional Orthroplasty: Report of Four Cases" by J. Kameros and R. Himmelfarb. Journal of Oral Surgery 33(1975):282-287. In Oral Research Abstracts 11(1976):663,no.4815.
- EB052 Galil, K.A. Abstract of "A 'True Giant Cell Tumour' in the Mandible?" by G.S. Small and N.H. Rowe. Journal of Oral Surgery 33(1975):296-301. In Oral Research Abstracts 11(1976):521,no.3794.
- EB053 Galil, K.A. Abstract of "The Ultrastructure of Bacterial Plaque Attached to the Gingiva of Man" by N. Halhoul and J.R. Colvin. Archives of Oral Biology 20,2(1975):115-118. In Oral Research Abstracts 11(1976):443, no.3183.
- EB054 Galil, K.A. Abstract of "Use of Scialom Pins for Fracture Fixation" by S.L. Bahn. Journal of Oral Surgery 33(1975):268-274. In Oral Research Abstracts 11(1976):663,no.4817.
- EB055 Galil, K.A. Abstract of "Vertical Osteotomy Vs Saggital Split Osteotomy of the Mandibular Ramus: Comparison of Operative and Post-Operative Factors" by J.H. Wang and D.E. Waite. Journal of Oral Surgery 33(1975):596-600. In Oral Research Abstracts 11(1976):1035,no.7626.
- EB056 Galil, K.A. Abstract of "Von Willebrand's Disease" by G.L. Quast and J.D. Schoettger. Journal of Oral Surgery 32(1974):840-846. In Oral Research Abstracts 11(1976):44,no.295.
- EB057 Galil, K.A. "Xerostomia as a Post-Operative Complication of Vagotomy; Case Report." Journal of Oral Medicine 31,3(1976):82-83.
- EB058 Gammal, E.B. "Intimal Thickening in Arteries of Rats Treated with Synthetic Sex Hormones". British Journal of Experimental Pathology 57(1976):248-254.
- EB059 Gammal, E.B. and Monture, M.C. (Abstract) "Permeability of Aortic Endothelium in Oestrogen Treated Rats". Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):27.
- EB060 Heinicke, E. "Influence of Exogenous Triiodothyronine on Axonal Regeneration and Wound Healing in the Brain of the Rat". Journal of the Neurological Sciences 31(1977):293-305.

- EB061 Hrycyshyn, A.W. and Flumerfelt, B.A. (Abstract) "Synaptic Organization of the Lateral Reticular Nucleus in the Cat." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):159.
- EB062 Kiernan, J.A. "Histochemical Demonstration of Unsaturated Hydrophilic Lipids with Palladium Chloride". Journal of Histochemistry and Cytochemistry 25,3(1977):200-205.
- EB063 Kiernan, J.A. "A Study of Chemically Induced Acute Inflammation in the Skin of the Rat". Quarterly Journal of Experimental Physiology 62(1977):151-161.
- EB064 Lampe, M. and Kiernan, J.A. "Cytochemical Variation of Mast Cells in the Skin of the Rat." Archives for Dermatological Research 258(1977):69-80.
- EB065 Lampe, M. and Kiernan, J.A. "Degranulation of Dermal Mast Cells: Effects of Fixation and of Antidromic Nervous Impulses on two Histochemically Identified Cell-Types". Archives for Dermatological Research 257(1976):125-129.
- EB066 Malczak, H.T. and Buck, R.C. "Regeneration of Endothelium in Rat Aorta after Local Freezing". American Journal of Pathology 86(1977):133-141.
- EB067 Naik, D.V. "Immuno-Histochemical Localization of LH-RH during Different Phases of Estrus Cycle of Rat, with Reference to the Preoptic and Arcuate Neurons, and the Ependymal Cells". Cell and Tissue Research 173(1976):143-166.
- EB068 Naik, D.V. "LH-RH Neurons and the Role of the Ependyma in the Transport and Control of LH-RH Secretion and the Regulation of Fertility". In Cellular and Molecular Bases of Neuroendocrine Processes. Edited by E. Endroczi. Budapest, Hungary: Hungarian Academy of Sciences, 1976. pp.67-76.
- EB069 Naik, D.V. "Neuroendocrine Control of ACTH Secretion in the Pars Intermedia and the Rostral Zone". In Cellular and Molecular Bases of Neuroendocrine Processes. Edited by E. Endroczi. Budapest, Hungary: Hungarian Academy of Sciences, 1976. pp. 431-450.

Department of Bacteriology & Immunology

- EC001 Albert, D.M.; Lahav, M.; Carmichael, L.E. and Percy, D.H. "Canine Herpes-Induced Retinal Dysplasia and Associated Ocular Anomalies". Investigative Ophthalmology & Visual Science 15(1976):267-278.
- EC002 Anderson, R.; Kates, M. and Volcani, B.E. "Sulphonium Analogue of Lecithin in Diatoms". Nature 263,5572(1976):51-53.
- EC003 Aronson, A.I. and Fitz-James, P.C. "Structure and Morphogenesis of the Bacterial Spore Coat". Bacteriological Reviews 40(1976):360-402.
- EC004 Ball, R.F.; Sanders, G. and Medzon, E.L. "An Economical Roller Bottle Apparatus for Animal Cell Culture". Tissue Culture Association Manual 2(1976):389-392.

- EC005 Beveridge, T.J. and Murray, R.G.E. "Dependence of the Superficial Layers of Spirillum putridiconchylum on Ca^{2+} or Sr^{2+} ." Canadian Journal of Microbiology 22(1976):1233-1244.
- EC006 Beveridge, T.J. and Murray, R.G.E. "Uptake and Retention of Metals by Cell Walls of Bacillus subtilis". Journal of Bacteriology 127(1976):1502-1518.
- EC007 Black, W.A.; Path, M.R.C. and Dorse, S.E. "A Regional Quality Control Program in Microbiology. 2. Advantages of Simulated Clinical Specimens". American Journal of Clinical Pathology 66(1976):407-415.
- EC008 Black, W.A.; Path, M.R.C.; Dorse, S.E. and Whitby, J.L. "A Regional Quality Control Program in Microbiology. 1. Administrative Aspects." American Journal of Clinical Pathology 66(1976):401-406.
- EC009 Coulton, J.W. and Murray, R.G.E. "Membrane-Associated Components of the Bacterial Flagellar Apparatus." Biochimica et Biophysica Acta 465(1977):290-310.
- EC010 Dales, S. and Pons, M.W. "Penetration of Influenza Examined by Means of Virus Aggregates". Virology 69(1976):278-286.
- EC011 Dales, S.; Stern, W.; Weintraub, S.B. and Huima, T. "Genetically Controlled Surface Modifications by Poxviruses Influencing Cell-Cell and Cell-Virus Interactions". In Cell Membrane Receptors for Viruses, Antigens and Antibodies, Polypeptide Hormones, and Small Molecules. (Miles International Symposium Series, Ninth). Edited by R.F. Beers, Jr. and E.G. Bassett. New York, New York: Raven Press, 1976. pp. 253-270.
- EC012 Dinel, B.A.; Ayotte, D.L.; Behme, R.J.; Black, B.L. and Whitby, J.L. "Comparative Stability of Antibiotic Admixtures in Minibags and Minibottles." Drug Intelligence and Clinical Pharmacy 11(1977):226-239.
- EC013 Duwe, A.K. and Singhal, S.K. (Abstract) "Immunoregulatory Factors Released by B-Cells in the Bone Marrow". Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):12,no.47.
- EC014 Flintoff, W.F.; Davidson, S.V. and Siminovitch, L. "Isolation and Partial Characterization of Three Methotrexate-Resistant Phenotypes from Chinese Hamster Ovary Cells". Somatic Cell Genetics 2(1976):245-261.
- EC015 Flintoff, W.F.; Spindler, S.M. and Siminovitch, L. "Genetic Characterization of Methotrexate-Resistant Chinese Hamster Ovary Cells". In Vitro 12,11(1976):749-757.
- EC016 Friedrich, R.; Morris, V.L.; Goodman, H.M.; Bishop, J.M. and Varmus, H.E. "Differences between Genomes of Two Strains of Mouse Mammary Tumor Virus as Shown by Partial RNA Sequence Analysis". Virology 72(1976):330-340.

- EC017 Galil, K.A. and Gwinnett, A.J. "Morphological Characteristics of Pits and Fissures." In The Use of Adhesives in Dentistry. Edited by M.G. Buonocore. Springfield, Illinois: C.C. Thomas, 1975. pp. 107-119.
- EC018 Galsworthy, S.B. and Gurofsky, S.M. (Abstract) "Biological Properties of the Monocytosis-Producing Activity of Listeria monocytogenes". Meeting of the Canadian Public Health Association. Laboratory Division. Program. Montreal, Quebec. December(1976):72,no.G4.
- EC019 Galsworthy, S.B.; Gurofsky, S.M. and Murray, R.G.E. "Purification of a Monocytosis-Producing Activity from Listeria monocytogenes". Infection and Immunity 15(1977):500-509.
- EC020 Gupta, R.S.; Flintoff, W.F. and Siminovitch, L. "Purification and Properties of Dihydrofolate Reductase from Methotrexate-Sensitive and Methotrexate-Resistant Chinese Hamster Ovary Cells". Canadian Journal of Biochemistry 55(1977):445-452.
- EC021 Hendry, G.S.; Gillespie, J.B. and Fitz-James, P.C. "Bacteriophage and Bacteriophage-Like Structures Carried by Bacillus medusa and their Effect on Sporulation". Journal of Virology 18(1976):1051-1062.
- EC022 Murray, R.G.E. "Why Life Sciences?" Science Terrapin 3,3(1977):12-15.
- EC023 Olgiati, D.D.G.; Pogo, B.G.T. and Dales, S. "Biogenesis of Vaccinia: Specific Inhibition of Rapidly Labeled Host DNA in Vaccinia Inoculated Cells". Virology 71(1976):325-335.
- EC024 Olgiati, D.D.G.; Pogo, B.G.T. and Dales, S. "Evidence of RNA Linked to Nascent DNA in Hela Cells". Journal of Cell Biology 68(1976):557-566.
- EC025 Percy, D.H. and Danylchuk, K.D. "Experimental Retinal Dysplasia Due to Cytosine Arabinoside". Investigative Ophthalmology & Visual Science 16(1977):353-364.
- EC026 Purkey, R.M. and Ebisuzaki, K. "Purification and Properties of a DNA-Dependent ATPase Induced by Bacteriophage T4". European Journal of Biochemistry 75(1977):303-310.
- EC027 Roder, J.C.; Bell, D.A. and Singhal, S.K. (Abstract) "Loss of Self-Tolerance to Single Stranded Deoxyribonucleic Acid (sDNA) in vitro". Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):157,no.625.
- EC028 Roder, J.C.; Bell, D.A. and Singhal, S.K. "Regulation of the Immune Response of Autoimmune NZB/NZW F₁ Mice. 1. The Spontaneous Generation of Splenic Suppressor Cells". Cellular Immunology 29,2(1977):272-284.
- EC029 Roder, J.C.; Bourns, T.K.R. and Singhal, S.K. "Trichobilharzia ocellata: Cercariae Masked by Antigens of the Snail, Lymnaea stagnalis". Experimental Parasitology 41(1977):206-212.

- EC030 Sinclair, R.N.StC.; Lees, R.K.; Missiuna, P.C. and Vichos, E.E. "Regulation of the Immune Response. 12. Targets for Suppressor Cell Activity in an in vitro Cell-Mediated Immune Response". Cellular Immunology 27 (1976):163-170.
- EC031 Sinclair, N.R.StC.; Lees, R.K.; Wheeler, M.E.; Vichos, E.E. and Fung, F.Y. "Regulation of the Immune Response. 11. Cell-Mediated Feedback of an in vitro Cell-Mediated Immune Response". Cellular Immunology 27 (1976):153-162.
- EC032 Sinclair, N.R.StC. and McCredie, J.A. "Immune Response in Tissue Transplantation and Cancer". In Basic Surgery. Edited by J.A. McCredie. Toronto, Ontario: Collier Macmillan, 1977. pp. 103-116.
- EC033 Singhal, S.K.; Tyler, L.; Roder, J.; Ball, J. and de Vebber, L.L. (Abstract) "Mechanisms of Immunosuppression in Leukemic Mice." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977): 85,no.340.
- EC034 Stern, W. and Dales, S. "Biogenesis of Vaccinia: Isolation and Characterization of a Surface Component that Elicits Antibody Suppressing Infectivity and Cell-Cell Fusion". Virology 75(1976):232-241.
- EC035 Stern, W. and Dales, S. "Biogenesis of Vaccinia: Relationship of the Envelope to Virus Assembly". Virology 75(1976):242-255.
- EC036 Stiller, C.R.; Sinclair, N.R.StC.; Howson, W.; McGirr, D.; Abrahams, S. and Ulan, R.A. (Abstract) "Specific Pre-Transplant Sensitization to Donor Antigens". Annals of the Royal College of Physicians and Surgeons of Canada 10,1(1977):80.
- EC037 Trust, T.J. and Whitby, J.L. "Antibiotic Resistance of Bacteria in Water Containing Ornamental Fishes". Antimicrobial Agents and Chemotherapy 10(1976):598-603.
- EC038 Wakem, L.P. and Ebisuzaki, K. "Pathways of DNA Repair in T4 Phage. 2. Sedimentation Analysis of Intracellular DNA in Repair-Defective Mutants". Virology 73(1976):155-164.

Department of Biochemistry

- ED001 Aithal, H.N.; Janki, R.M.; Gushulak, B.D. and Tustanoff, E.R. "Lipid-Protein Interactions in the Outer Membranes of Yeast and Rat Liver Mitochondria." Archives of Biochemistry and Biophysics 176(1976):1-11.
- ED002 Ali, M. and Brownstone, Y.S. "A Study of Phosphoglycerate Kinase in Human Erythrocytes. 1. Enzyme Isolation, Purification and Assay." Biochimica et Biophysica Acta 445(1976):74-88.
- ED003 Ali, M. and Brownstone, Y.S. "A Study of Phosphoglycerate Kinase in Human Erythrocytes. 2. Kinetic Properties". Biochimica et Biophysica Acta 445(1976):89-103.
- ED004 Barratt, D.G.; Sharom, F.J.; Thede, A.E. and Grant, C.W.M. "Isolation and Incorporation into Lipid Vesicles of a Concanavalin A Receptor from Human Erythrocytes". Biochimica et Biophysica Acta 465(1977):191-197.

- ED005 Brennan, M.; Metcalfe, L.; Harding, P.G.R.; Dougall, A.; Passi, R.B.; Enhorning, G. and Possmayer, F. (Abstract) "Effect of Experimental Haemorrhagic Pancreatitis on Pulmonary Surfactant". Canadian Federation of Biological Societies, Programme and Proceedings 20(1977):132,no.525.
- ED006 Brownstone, D.Y.; Brownstone, Y.S.; Diamond, M.J.; Foreman, E.E. and Keeri-Szanto, M. (Abstract) "Identification and Estimation of Drugs and Metabolites in the Serum of Overdose Patients Using Gas Chromatography." Twenty-First Annual Conference of the Canadian Society of Clinical Chemists. Program. Vancouver, British Columbia. June 1977.
- ED007 Carroll, K.K. (Abstract) "Dietary Protein in Relation to Atherosclerosis." Journal of the American Oil Chemists' Society 54,4(1977):144A,no.55.
- ED008 Carroll, K.K. (Abstract) "Essential Fatty Acids: What Level in the Diet is Desirable?" International Symposium on Function and Biosynthesis of Lipids. Program. Sierra de la Ventana, Argentina. November (1976):35.
- ED009 Carroll, K.K. (Abstract) "Role of Dietary Protein in Hypercholesterolemia and Atherosclerosis." Journal of the American Oil Chemists' Society 53, 7(1976):458A,no.54.
- ED010 Carroll, K.K.; Huff, M.W. and Roberts, D.C.K. (Abstract) "Dietary Protein, Hypercholesterolemia and Atherosclerosis." Fourth International Symposium on Atherosclerosis. Program. Tokyo, Japan. August(1976): 55,no.W-66.
- ED011 Carroll, K.K. and Rupar, C.A. (Abstract) "Preparation of Dolichyl Phosphate Glycoses". Journal of Supramolecular Structure 6,Suppl.1 (1977):21,no.082.
- ED012 Chan, A.C.; Ng, S.K.C. and Walker, I.G. "Reduced DNA Repair during Differentiation of a Myogenic Cell Line". Journal of Cell Biology 70 (1976):685-691.
- ED013 Chan, S.K. and Ball, J.K. (Abstract) "Evidence for Heterozygote Formation between the Genomes of Moloney Sarcoma and Leukemia Viruses." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):21,no.84.
- ED014 Cook, R.A. and Kiernan, J.A. "Effects of Triiodothyronine on Protein Synthesis in Regenerating Peripheral Neurons." Experimental Neurology 52(1976):515-524.
- ED015 Creighton, M.O.; Mousa, G.Y. and Trevithick, J.R. "Differentiation of Rat Lens Epithelial Cells in Tissue Culture. (1) Effects of Cell Density, Medium and Embryonic Age of Initial Culture." Differentiation 6(1976):155-167.
- ED016 Dufresne, M.J.P.; Rogers, J.; Coulter, M.B.; Ball, E.; Lo, T. and Sanwal, B.D. "Apparent Dominance of Serine Auxotrophy and the Absence of Expression of Muscle-Specific Proteins in Rat Myoblast X Mouse L-Cell Hybrids." Somatic Cell Genetics 2(1976):521-535.

- ED017 Falconer, A.D. and Carroll, K.K. (Abstract) "Effects of Commercial and Semipurified Diets on Rates of Oxidation of Cholesterol and Plasma Cholesterol Levels." Canadian Federation of Biological Societies, Programme and Proceedings 20(1977):116,no.463.
- ED018 Ferris, R.J. and Smith, D.B. (Abstract) "The Cross-Linking of Human Met-Hemoglobin (Hb) Using Dimethyl Adipimidate." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):33,no.129.
- ED019 Freeman, D.J. and Hobkirk, R. "Metabolites of Estradiol- 17β in Guinea Pig Uterus Late in Pregnancy." Steroids 28(1976):613-619.
- ED020 Freeman, D.J. and Hobkirk, R. (Abstract) "Metabolites of 3 H-Estradiol- 17β in the Pregnant Guinea Pig Uterus." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):101,no.404.
- ED021 Galella, G. and Smith, D.B. (Abstract) "Stability of Microtubule Proteins over One pH Range 6.9-9.5." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):135,no.540.
- ED022 Geisser, M. and Mackie, G.A. "The Binding Site of Escherichia Coli Ribosomal Protein S4 on 16-S Ribosomal RNA from Different Bacterial Species." European Journal of Biochemistry 70(1976):159-170.
- ED023 Ghei, O.K.; Rupar, C.A. and Carroll, K.K. (Abstract) "Biological Activity of Dolichyl Phosphate Synthesized by a New Chemical Method." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):129,no.516.
- ED024 Gordon, B.A.; Carson, R.A. and Li, K.T. "Methylmalonic Acidemia Controlled with Oral Administration of Vitamin B $_{12}$." Canadian Medical Association Journal 115(1976):233-236.
- ED025 Gordon, B.A.; Gatfield, P.D. and Taller, E. "Ornithine Methyl Ester. An Unusual Metabolite in the Urine of Patients with a Urea Cycle Disorder Characterized by Hyperammonemia, Hyperornithinemia and Homocitrullinuria." Clinical Biochemistry 10(1977):78-82.
- ED026 Gordon, B.A.; Gatfield, P.D. and Taller, E. (Abstract) "Ornithine Methyl Ester: An Unusual Urinary Metabolite." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):62,no.132.
- ED027 Gordon, B.A.; Gatfield, P.D. and Wolfe, D.M. (Abstract) "Studies on the Metabolic Defect in Patients with Hyperammonemia, Hyperornithinemia and Homocitrullinuria." Clinical Research 24(1976):668A.
- ED028 Grant, C.W.M.; Barratt, D.G. and Sharom, F.J. (Abstract) "Receptor Glycoproteins in Lipid Bilayers." Canadian Federation of Biological Societies. Programme and Proceedings. 20(1977):174,no.694.
- ED029 Haines, D.S.M. and Tokmakjian, S. (Abstract) "The Effect of Choline upon Liver Ethanolamine Metabolism in Choline-Deficient Rats." Tenth International Congress of Biochemistry. Program. Hamburg, Germany. July(1976):383,no.07-4-173.

- ED030 Hamilton, R.M.G. and Carroll, K.K. "Plasma Cholesterol Levels in Rabbits Fed Low Fat, Low Cholesterol Diets. Effects of Dietary Proteins, Carbohydrates and Fibre From Different Sources." Atherosclerosis 24 (1976):47-62.
- ED031 Hamilton, R.M.G. and Carroll, K.K. "Plasma Cholesterol Levels in Suckling and Weaned Kittens, Puppies and Guinea Pigs." Lipids 12 (1977):145-148.
- ED032 Harvey, P.R.C. and Hobkirk, R. (Abstract) "Properties of a 16 μ Hydroxylase Acting Upon Estrone Sulfate (E₁3S) in Guinea Pig Liver Microsomes." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):102,no.407.
- ED033 Haust, H.L. (Abstract) "A New Short-Term Mode of Chelant Administration for Diagnostic and Therapeutic Lead Mobilization." Fourth International Congress of the International Association for the Scientific Study of Mental Deficiency. Program. Washington, D.C. August(1976):16.
- ED034 Haust, H.L.; McCourtie, D.R.M. and Poon, H.C. (Abstract) "Blood Histamine (HM) and Forced Expiratory Volume (FEV₁) Changes during Antigen (A) and Methacholine (M) Inhalation Challenge." International Journal of Clinical Pharmacology 14(1976):232.
- ED035 Haust, M.D.; Gordon, B.A. and Hinton, G.G. "Ultrastructure and Peroxidase of Leucocytes in Five Patients with Juvenile Form of Ceroid Lipofuscinoses." Current Trends in Sphingolipidoses and Allied Disorders 68(1976):413-427.
- ED036 Hobkirk, R.; Freeman, D.J.; Harvey, P.R.C.; Nilsen, M. and Jennings, B. "In Vitro and In Vivo Studies on the Metabolism of Estrogens and Their Sulfates in Guinea Pigs." Canadian Journal of Biochemistry 55(1977):390-397.
- ED037 Huff, M.W. and Carroll, K.K. (Abstract) "Effects of Dietary Protein on Plasma Cholesterol Levels and Cholesterol Oxidation in Rabbits." American Society for Experimental Biology Federation Proceedings 36 (1977):no.4402.
- ED038 Huff, M.W.; Roberts, D.C.K. and Carroll, K.K. (Abstract) "Influence of Diet on Plasma Cholesterol Levels in Weanling Rabbits." Journal of the American Oil Chemists' Society 53,7(1976):463A,no.110.
- ED039 Huff, M.W.; Roberts, D.C.K. and Carroll, K.K. (Abstract) "Plasma Lipoproteins of Suckling and Weaned Rabbits." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):132,no.527.
- ED040 Leung, F.Y. and Capling, G. (Abstract) "Use of the Digoxin-Creatinine Clearance Ratios as an Index of Digoxin Therapy in Patients with Renal Insufficiency." Clinical Chemistry 22(1976):1168,no.047.
- ED041 Leung, F.Y.; Ward, P. and Janik, B. (Abstract) "Characteristic Factors of Immobilized Glucose Oxidase in the Automated Determinations of Glucose." Clinical Biochemistry 10(1977):P.4,no.2.

- ED042 Lin, C.H.; Hudson, A.J. and Strickland, K.P. "Palmityl-CoA Synthetase Activity in the Muscle of Dystrophic Mice." Life Sciences 18(1976): 613-618.
- ED043 Lipton, J.H. and McMurray, W.C. "Mitochondrial Biogenesis in Cultured Mammalian Cells. 3. Synthesis of Mitochondrial Phospholipids by Sub-cellular Fractions Isolated from Normal and Chloramphenicol-Treated BHK-21 Cells." Biochimica et Biophysica Acta 486(1977):228-242.
- ED044 Mackie, G.A. "Evidence for a Precursor-Product Relationship in the Biosynthesis of Ribosomal Protein S20." Biochemistry 16(1977):1391-1398.
- ED045 Mackie, G.A. "Kinetic Evidence for the Processing of Ribosomal Proteins S6 and S8." FEBS Letters 71(1976):178-180.
- ED046 McMurray, W.C. Essentials of Human Metabolism: The Relationship of Biochemistry to Human Physiology and Disease. New York, New York: Harper and Row, 1977.
- ED047 Ng, S.K.; Rogers, J. and Sanwal, B.D. "Alterations in Differentiation and Pyrimidine Pathway Enzymes in 5-Azacytidine Resistant Variants of a Myoblast Line." Journal of Cellular Physiology 90(1977):361-374.
- ED048 Pavlis, R. and Walker, I.G. (Abstract) "Repair of Mammalian Cell DNA after Treatment with 4-Nitroquinoline-1-Oxide and Methyl Methanesulfonate." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):188,no.752.
- ED049 Poon, H.C.; McCourtie, D.R.M. and Haust, H.L. (Abstract) "Inhibition of Histaminase Activity by Methacholine." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):127,no.505.
- ED050 Rae, A.S. and Strickland, K.P. "Studies on Phosphate Transport in Escherichia Coli. 2. Effects of Metabolic Inhibitors and Divalent Cations." Biochimica et Biophysica Acta 433(1976):564-582.
- ED051 Rae, A.S.; Strickland, K.P.; Medveczky, N. and Rosenberg, H. "Studies of Phosphate Transport in Escherichia Coli. 1. Reexamination of the Effect of Osmotic and Cold Shock on Phosphate Uptake and Some Attempts to Restore Uptake with Phosphate Binding Protein." Biochimica et Biophysica Acta 433(1976):555-563.
- ED052 Rupar, C.A. and Carroll, K.K. "Preparation of Tritiated Dolichol and Dolichyl Phosphate." Chemistry and Physics of Lipids 17(1976):193-206.
- ED053 Rupar, C.A. and Carroll, K.K. (Abstract) "Studies on Dolichol and Dolichyl Phosphate." Twelfth National Meeting of the Argentine Society of Biochemical Investigation. Program. Sierra de la Ventana, Argentina. November 1976.
- ED054 Sharom, F.J.; Barratt, D.G.; Thede, A.E. and Grant, C.W.M. "Glycolipids in Model Membranes Spin Label and Freeze-Etch Studies." Biochimica et Biophysica Acta 455(1976):485-492.

- ED055 Sharom, F.J. and Grant, C.W.M. (Abstract) "Behaviour of Gangliosides in Lipid Bilayers." Canadian Federation of Biological Societies. Programme and Proceedings. 20(1977):174,no.695.
- ED056 Sharom, F.J. and Grant, C.W.M. "A Ganglioside Spin Label: Ganglioside Head Group Interactions." Biochemical and Biophysical Research Communications 74(1977):1039-1045.
- ED057 Sharom, F.J. and Grant, C.W.M. (Abstract) "Reassembly of Functional Membrane Receptors into Lipid Bilayers." AMSA-UTMB National Student Research Forum. Program. Galveston, Texas. May(1977):50.
- ED058 Shum, P.T.Y. and Strickland, K.P. (Abstract) "Deacylation of Phosphatidyl Inositol by Rat Brain Preparations." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):74,no.293.
- ED059 Stewart-DeHaan, P.J. and McMurray, W.C. "Intracellular Phospholipid Transfer and Exchange." Chemistry and Physics of Lipids 17(1976):290-300.
- ED060 Tashiro, Y. and Trevithick, J.R. "The Role of Carbohydrate in the Glycoenzyme Invertase of Neurospora Crassa." Canadian Journal of Biochemistry 55(1977):249-256.
- ED061 Terpstra, F.A. and Smith, D.B. "The Preparation of Human Hemoglobin α -Subunit and a Study of its Monomer-Dimer Association." Canadian Journal of Biochemistry 54(1976):1002-1010.
- ED062 Terpstra, F.A. and Smith, D.B. "The Purification of Porcine Haptoglobin by Affinity Chromatography with Concanavalin A-Sepharose." Canadian Journal of Biochemistry 54(1976):999-1001.
- ED063 Terpstra, F.A. and Smith, D.B. "The Reaction Between Hemoglobin α -Subunit and Haptoglobin." Canadian Journal of Biochemistry 54(1976):1011-1015.
- ED064 Tokmakjian, S. and Haines, D.S.M. (Abstract) "Metabolism of Ethanolamine in Orotic Acid-Induced Fatty Liver." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):73,no.292.
- ED065 Trevithick, J.R. and Braun, R. "Timing of Mitosis in Physarum Polycephalum: Effects of Agents Affecting Cyclic AMP Concentrations." Experientia 33(1977):28-29.
- ED066 Ward, P.; Ewen, M.; Pomeroy, J.A. and Leung, F.Y. "Kinetic Urine Creatinine Determination with the Gemsac Analyzer." Clinical Biochemistry 9(1976):225-227.

Department of Biophysics

- EE001 Allcock, J.M. and Canham, P.B. "Angiographic Study of the Growth of Intracranial Aneurysms." Journal of Neurosurgery 45(1976):617-621.

- EE002 Boughner, D.R. "Transcutaneous Aortic Velocity Patterns and the Echocardiogram in I.H.S.S." In Ultrasound in Medicine, vol. 3A. Edited by D. White and R.E. Brown. New York, New York: Plenum Press, 1977. pp.139-147.
- EE003 Burton, A.C. "Why Do Human Cancer Death Rates Increase with Age? A New Method of Analysis of the Biology of Cancer." Perspectives in Biology and Medicine 20(1977):327-344.
- EE004 Canham, P.B. "Orientation of Cerebral Vascular Smooth Muscle, Mathematically Modelled." Journal of Biomechanics 10(1977):241-251.
- EE005 Canham, P.B.; Walmsley, J.G. and Smith, J.F.H. "The Morphometry and Stereology of Cerebral Arterial Bifurcations." Proceedings of the Fourth International Congress for Stereology. Gaithersburg, Maryland: National Bureau of Standards Special Publication 431(1976):415-418.
- EE006 Clark, C. "Turbulent Velocity Measurements in a Model of Aortic Stenosis." Journal of Biomechanics 9(1976):677-687.
- EE007 Cope, D.A. and Roach, M.R. "Effects of High Static Pressures on Human Cerebral Arteries in Vitro." Stroke 8(1977):254-257.
- EE008 Damude, L.C.; Cope, D.A. and Roach, M.R. "The Effects of Enzymatic Digestion on the Elastic Properties of Isolated Human Cerebral Arteries." Canadian Journal of Physiology and Pharmacology 55(1977):161-169.
- EE009 Edgeworth, P. and Roach, M.R. "Elastin Fragmentation in the Pulmonary Artery of the Newborn Rabbit." Blood Vessels 14(1977):77-90.
- EE010 Geiger, H.B.; Song, S.H. and Groom, A.C. "Release of Red Cells From the Slowly-Exchanging Splenic Pool after Noradrenaline Administration." Canadian Journal of Physiology and Pharmacology 54(1976):477-484.
- EE011 Gerson, D.F. and Burton, A.C. "The Relation of Cycling of Intracellular pH to Mitosis in the Acellular Slime Mould *Physarum Polycephalum*." Journal of Cellular Physiology 91(1977):297-303.
- EE012 Groom, A.C.; Plyley, M.J. and Sutherland, G. "Oxygen Transport in Skeletal Muscle: Capillary Geometry in Longitudinal Section." Advances in Experimental Medicine and Biology 75(1976):685-692.
- EE013 Hill, D.A. and Sherebrin, M.H. "Action Potential Fatigue in Nonmyelinated Nerve Fibers: Garfish Olfactory and Rabbit Vagus Nerve." Canadian Journal of Physiology and Pharmacology 54(1976):485-493.
- EE014 Jay, A.W.L. and Canham, P.B. "Viscoelastic Properties of the Human Red Blood Cell Membrane. 2. Area and Volume of Individual Red Cells Entering a Micropipette." Biophysical Journal 17(1977):169-178.
- EE015 Levesque, M.J. and Groom, A.C. "pH Environment of Red Cells in the Spleen." American Journal of Physiology 231(1976):1672-1678.
- EE016 Levesque, M.J. and Groom, A.C. (Abstract) "Removal of Damaged or Foreign Red Cells by the Spleen." Federation Proceedings 36(1977):523, no.1330.

- EE017 Levesque, M.J. and Groom, A.C. "Washout Kinetics of Red Cells and Plasma from the Spleen." American Journal of Physiology 231(1976): 1665-1671.
- EE018 Lim, K.O. and Boughner, D.R. "The Low Frequency Dynamic Viscoelastic Properties of Human Aortic Valve Tissue." Circulation Research 39 (1976):209-214.
- EE019 Lim, K.O. and Boughner, D.R. "Low Frequency Dynamic Viscoelastic Properties of Human Mitral Valve Tissue." Cardiovascular Research 10 (1976):459-465.
- EE020 Lim, K.O. and Boughner, D.R. "Morphology and Relationship to Extensibility Curves of Human Mitral Valve Chordae Tendinae." Circulation Research 39(1976):580-585.
- EE021 Lim, K.O. and Boughner, D.R. "Scanning Electron Microscopical Study of Human Mitral Valve Chordae Tendinae." Archives of Pathology and Laboratory Medicine 101(1977):236-238.
- EE022 Nieh, H.L. and Song, S.H. (Abstract) "Distribution of Red Cells in the Coronary Circulation of Isolated Perfused Feline Hearts." Federation Proceedings 36(1977):473,no.1064.
- EE023 Roach, M.R. "Biophysical Analyses of Blood Vessel Walls and Blood Flow." Annual Review of Physiology 39(1977):51-71.
- EE024 Roach, M.R. "The Effects of Bifurcations and Stenoses on Arterial Disease." In Cardiovascular Flow Dynamics and Measurements. Edited by N.H.C. Hwang and N.A. Norman. Baltimore, Maryland: University Park Press, 1977. pp.489-539.
- EE025 Roach, M.R. "The Umbilical Vessels." In Perinatal Medicine: The Basic Science Underlying Clinical Practice. Edited by J.W. Goodwin, J.O. Godden and G.W. Chance. Baltimore, Maryland: Williams & Wilkins, 1976. pp.134-142.
- EE026 Roach, M.R. and Boughner, D.R. "Biophysical Principles in the Cardiovascular System." In Perinatal Medicine: The Basic Science Underlying Clinical Practice. Edited by J.W. Goodwin, J.O. Godden and G.W. Chance. Baltimore, Maryland: Williams & Wilkins, 1976. pp.119-133.
- EE027 Roach, M.R. and Fletcher, J. "Effect of Unilateral Nephrectomy on the Localization of Aortic Sudanophilic Lesions in Cholesterol-Fed Rabbits." Atherosclerosis 24(1976):327-333.
- EE028 Roach, M.R.; Fletcher, J. and Cornhill, J.F. "The Effect of the Duration of Cholesterol Feeding on the Development of Sudanophilic Lesions in the Rabbit Aorta." Atherosclerosis 25(1976):1-11.
- EE029 Schürch, S.F. and Roach, M.R. "Interference of Bronchographic Agents with Lung Surfactant." Respiration Physiology 28(1976):99-117.

- EE030 Sewchand, L. and Canham, P.B. "Induced Rouleaux Formation in Inter-species Populations of Red Cells." Canadian Journal of Physiology and Pharmacology 54(1976):437-442.
- EE031 Smith, P. "A Comparison of the Orientation of Elastin Fibers in the Elastic Laminae of the Pulmonary Trunk and Aorta of Rabbits Using the Scanning Electron Microscope." Laboratory Investigation 35(1976):525-529.
- EE032 Taylor, C.P.S. "The EPR of Low Spin Heme Complexes. Relation of the t_{2g} Hole Model to the Directional Properties of the g Tensor, and a New Method for Calculating the Ligand Field Parameters." Biochimica et Biophysica Acta 491(1977):137-149.
- EE033 Willner, L.A. and Groom, A.C. (Abstract) "Inadequacy of Filling the Capillary Bed of Skeletal Muscle with Microfil." Federation Proceedings 36(1977):523, no.1329.

Department of Cancer Research

- EF001 Blair, D.G. "Genetic Recombination Between Avian Leukosis and Sarcoma Viruses. Experimental Variables and the Frequencies of Recombination." Virology 77(1977):534-544.
- EF002 Blair, D.G.; Mason, W.S.; Hunter, E. and Vogt, P.K. "Temperature-Sensitive Mutants of Avian Sarcoma Viruses: Genetic Recombination between Multiple or Coordinate Mutants and Avian Leukosis Viruses." Virology 75(1976):48-59.
- EF003 Kowalski, J. and Cheevers, W.P. "Synthesis of High Molecular Weight DNA Strands During S Phase." Journal of Molecular Biology 104(1976):603-615.
- EF004 McCarter, J.A. "Genetic Studies of the Ploidy of Moloney Murine Leukemia Virus." Journal of Virology 22(1977):9-15.
- EF005 McCarter, J.A. (Abstract) "Xenotropic Murine Leukemia Virus of CFW/D Mouse." Canadian Federation of Biological Societies, Programme and Proceedings 20(1977):90, no.357.

Department of Clinical Neurological Sciences

- EG001 Ball, M.J. "Neurofibrillary Tangles and the Pathogenesis of Dementia: A Quantitative Study." Neuropathology and Applied Neurobiology 2(1976):395-410.
- EG002 Ball, M.J. "Neurofibrillary Tangles in the Dementia of 'Normal Pressure' Hydrocephalus." Canadian Journal of Neurological Sciences 3(1976):227-235.
- EG003 Ball, M.J. "Neuronal Loss, Neurofibrillary Tangles and Granulovacuolar Degeneration in the Hippocampus with Ageing and Dementia." Acta Neuropathologica 37(1977):111-118.

- EG004 Ball, M.J. and Lo, P. "Granulovacuolar Degeneration in the Ageing Brain and in Dementia." Journal of Neuropathology and Experimental Neurology 36(1977):474-487.
- EG005 Barnett, H.J.M. "Clinical Evaluation of Strokes and Threatened Strokes." Clinical Neurosurgery 23(1976):540-554.
- EG006 Barnett, H.J.M. "Pathogenesis of Transient Ischemic Attacks." In Cerebrovascular Diseases. Edited by P. Scheinberg. New York, New York: Raven Press, 1976. pp.1-21.
- EG007 Barnett, H.J.M. "Platelet and Coagulation Function in Relation to Thromboembolic Stroke." Advances in Neurology 16(1977):45-70.
- EG008 Barnett, H.J.M.; Jones, M.W.; Boughner, D.R. and Kostuk, W.J. "Cerebral Ischemic Events Associated with Prolapsing Mitral Valve." Archives of Neurology 33(1976):777-782.
- EG009 Blume, W.T.; Paty, D.W.; Jones, D.C. and Vera, R.S. (Abstract) "Patterned Visual Evoked Responses: A Sensitive Detector of Occult Optic Neuritis." Twelfth Canadian Congress of Neurological Sciences. Program. Quebec City, Quebec. June 1977.
- EG010 Drake, C.G. and Girvin, J.P. "The Surgical Treatment of Subarachnoid Hemorrhage with Multiple Aneurysms." In Current Controversies in Neurosurgery. Edited by T.P. Morley. Philadelphia, Pennsylvania: Saunders, 1976. pp.274-278.
- EG011 Genton, E.; Barnett, H.J.M.; Fields, W.S.; Gent, M. and Hoak, J.C. "XIV. Cerebral Ischemia: The Role of Thrombosis and of Antithrombotic Therapy. Study Group of Antithrombotic Therapy." Stroke 8(1977):150-175.
- EG012 Girvin, J.P. "The Failure of Antifibrinolytic Agents to Improve the Operative Treatment of Ruptured Intracranial Aneurysms." In Current Controversies in Neurosurgery. Edited by T.P. Morley. Philadelphia, Pennsylvania: Saunders, 1976. pp.279-281.
- EG013 Girvin, J.P. and Del Maestro, R.F. "Recent Advances in the Management of Head Trauma." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald, H.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.161-167.
- EG014 Kadrie, H.A.; Yates, S.K.; Milner-Brown, H.S. and Brown, W.F. "Multiple Point Electrical Stimulation of Ulnar and Median Nerves." Journal of Neurology, Neurosurgery and Psychiatry 39(1976):973-985.
- EG015 Kertesz, A. Review of Intelligence and Aphasia by Y. Lebrun and R. Hoops. Amsterdam, Netherlands: Swets and Zeitlinger, 1974. In Brain and Language 3(1976):335-336.
- EG016 Kertesz, A. and Kormos, R. "Low Back Pain in the Workman in Canada." Canadian Medical Association Journal 115(1976):901-903.
- EG017 Kertesz, A. and McCabe, P. "Recovery Patterns and Prognosis in Aphasia." Brain 100(1977):1-18.

- EG018 Kertesz, A. and Phipps, J.B. "Numerical Taxonomy of Aphasia." Brain and Language 4(1977):1-10.
- EG019 Mackenzie, E.T.; Strandgaard, S.; Graham, D.I.; Jones, J.V.; Harper, A.M. and Farrar, J.K. "Effects of Acutely Induced Hypertension in Cats on Pial Arteriolar Caliber, Local Cerebral Blood Flow, and the Blood-Brain Barrier." Circulation Research 39(1976):33-41.
- EG020 Miller, J.D.; Reilly, P.L.; Farrar, J.K. and Rowan, J.O. "3. Cerebrovascular Reactivity Related to Focal Brain Edema in the Primate." In Dynamics of Brain Edema. Edited by H.M. Pappius and W. Feindel. Berlin, Germany: Springer-Verlag, 1976. pp.68-76.
- EG021 Paty, D.W.; Cousin, H.K. and Stiller, C.R. "ALA-Antigens and Mitogen Responsiveness in Multiple Sclerosis." Transplantation Proceedings 9, Supplement 1(1977):187-189.
- EG022 Paty, D.W.; Cousin, H.K.; Stiller, C.R.; Boucher, D.W.; Furesz, J.; Warren, K.G. and Dossetor, J.B. (Abstract) "HLA-Dw2 Related Low Response to Herpes Simplex (Type 1) Antigen in Multiple Sclerosis." Third Annual Meeting of the American Association for Clinical Histocompatibility Testing. Program. New Orleans, Louisiana. April 1977.
- EG023 Paty, D.W.; Cousin, H.K.; Stiller, C.R.; Boucher, D.W.; Furesz, J.; Warren, K.G. and Dossetor, J.B. (Abstract) "Lymphocyte Transformation Responses in Multiple Sclerosis Related to HLA Type." Twelfth Canadian Congress of Neurological Sciences. Program. Quebec City, Quebec. June 1977.
- EG024 Paty, D.W.; Cousin, H.K.; Stiller, C.R.; Boucher, D.W.; Warren, K.G. and Dossetor, J.B. (Abstract) "HLA-Dw2 Hyporesponsiveness to Herpes Simplex Antigen in Multiple Sclerosis." Annals of Neurology 1,5(1977): 498-499.
- EG025 Paty, D.W.; Donnelly, M. and Bernardo, M.E. (Abstract) "A Photographic Method for Enhancing the Appearance of Oligoclonal Globulin in Cerebrospinal Fluid." Twelfth Canadian Congress of Neurological Sciences. Program. Quebec City, Quebec. June 1977.
- EG026 Paty, D.W.; Furesz, J.; Boucher, D.W.; Rand, C.G. and Stiller, C.R. "Measles Antibodies as Related to HLA-A Types in Multiple Sclerosis." Neurology 26(1976):651-655.
- EG027 Spence, D.J. "Effects of Antihypertensive Drugs on Blood Velocity: Implications for Prevention of Cerebral Vascular Disease." Canadian Journal of Neurological Sciences 4(1977):93-97.
- EG028 Steinbok, P.; Kendall, M.J.; Clarke, R.J. and Peerless, S.J. "The Reactivity of Canine Cerebral Arteries to O₂ and CO₂ in vitro." Canadian Journal of Neurological Sciences 3(1976):255-262.
- EG029 Stiller, C.R. ; Ward, M.; Sinclair, N.R.; McGirr, D.; Howson, W.T.; Paty, D.W. and Cousin, H.K. (Abstract) "CML Specificities in Kidney Donors, Normals, and Multiple Sclerosis Patients." Third Annual Meeting of the American Association for Clinical Histocompatibility Testing. Program. New Orleans, Louisiana. April 1977.

- EG030 Tevaarwerk, G.M.J. and Hudson, A.J. "Carbohydrate Metabolism and Insulin Resistance in Myotonia Dystrophica." Journal of Clinical Endocrinology and Metabolism 44(1977):491-498.
- EG031 Warren, K.G.; Ball, M.J.; Paty, D.W. and Banna, M. "Computer Tomography in Disseminated Sclerosis." Canadian Journal of Neurological Sciences 3(1976):211-216.
- EG032 Westmoreland, B.F.; Blume, T. and Gomez, M.R. (Abstract) "Activation of Periodic Complexes of Subacute Sclerosing Panencephalitis (SSPE)." Electroencephalography and Clinical Neurophysiology 40(1976):321,no.32.
- EG033 Westmoreland, B.F.; Blume, T. and Gomez, M.R. (Abstract) "Slow Spike and Wave and Electrodecremental Pattern in Subacute Sclerosing Panencephalitis (SSPE)." Electroencephalography and Clinical Neurophysiology 40(1976):216,no.16.
- EG034 Westmoreland, B.F.; Gomez, M.R. and Blume, W.T. "Activation of Periodic Complexes of Subacute Sclerosing Panencephalitis by Sleep." Annals of Neurology 1(1977):185-187.
- EG035 Westmoreland, B.F.; Jones, H.R.; Blume, W.T. and Sharbrough, F.W. (Abstract) "The EEG in the 'Defferented State' - A Case Report." Electroencephalography and Clinical Neurophysiology 41(1976):103,no.5.

Department of Communicative Disorders

- EH001 Brainerd, S.H. "Answers to Aural Rehabilitation Crossword Puzzle No. 3." Human Communication Autumn(1976):60.
- EH002 Brainerd, S.H. "Aural Rehabilitation Crossword Puzzle No. 3." Human Communication Summer(1976):59-62.
- EH003 Brainerd, S.H. Review of Hearing in Children by J.L. Northern and M.P. Downs. Baltimore, Maryland: Williams and Wilkins, 1974. In Human Communication Spring(1976):81-82.
- EH004 Brainerd, S.H. Review of Speech and Deafness by D.R. Calvert and S.R. Silverman. Washington, District of Columbia: Bell Association for the Deaf, 1975. In Human Communication Spring(1976):84.
- EH005 Brainerd, S.H. "Total Communication as a Recommended Clinical Philosophy". Human Communication Spring(1976):5-8.
- EH006 Shewan, C.M. "Error Patterns in Auditory Comprehension of Adult Aphasics". Cortex 12(1976):325-336.
- EH007 Shewan, C.M. "Facilitating Sentence Formulation: A Case Study." Journal of Communication Disorders 9(1976):191-197.

Department of Diagnostic Radiology & Nuclear Medicine

- EJ001 Carey, L.S. (Editor) First Canadian Telemedicine Symposium. London, Ontario: University of Western Ontario, 1975. 119 p.
- EJ002 Carey, L.S. "Moose Factory Program." In First Canadian Telemedicine Symposium. Edited by L.S. Carey. London, Ontario: University of Western Ontario, 1975. pp.109-119.
- EJ003 Chamberlain, M.J. "Where Shall John Go?" British Medical Journal 1 (1977):693-696.
- EJ004 Driedger, A.A. (Letter) "Effects of Iron on ⁶⁷GA Uptake." Journal of Nuclear Medicine 17(1976):852.
- EJ005 Grace, D.M.; Pitt, D.F. and Gold, R.E. "Vascular Embolization and Occlusion by Angiographic Techniques as an Aid or Alternative to Operation." Surgery, Gynecology and Obstetrics 143(1976):469-482.
- EJ006 Kostuk, W.J. and Chamberlain, M.J. "Predictive Value of Myocardial Perfusion Imaging for Aortocoronary Bypass Surgery." Canadian Journal of Surgery 20(1977):112-117.
- EJ007 Prato, F.S.; Kurdiak, R.; Saibil, E.A.; Carruthers, J.S.; Rider, W.D. and Aspin, N. "The Incidence of Radiation Pneumonitis as a Result of Single Fraction Upper Half Body Irradiation." Cancer 39(1977):71-78.
- EJ008 Prato, F.S.; Kurdiak, R.; Saibil, E.A.; Rider, W.D. and Aspin, N. "Physiological and Radiographic Assessment during the Development of Pulmonary Radiation Fibrosis." Radiology 122(1977):389-397.
- EJ009 Prato, F.S. and Reese, L. (Abstract) "Dead-Time and Uniformity Corrections of Studies Performed with an Anger and a Multi-Crystal Camera." Journal of Nuclear Medicine 18,6(1977):639.
- EJ010 Santon, L.W.; Prato, F.S. and Aspin, N. (Letter) "Long-Distance Transmission of Scintillation Camera Signals. Reply." Journal of Nuclear Medicine 18(1977):93-94.
- EJ011 Wood, T.; Lesk, D.; Prato, F.S.; Reese, L. and Grainger, W. (Abstract) "Abnormal Ventilation/Perfusion Relationships in Children with Idiopathic Kyphoscoliosis." American Review of Respiratory Diseases 115(1977):296.

Department of Epidemiology & Preventive Medicine

- EK001 Anderson, J.A.D.; Buck, C.; Danaher, K. and Fry, J. "Users and Non-Users of Doctors - Implications for Self-Care." Journal of the Royal College of General Practitioners 27(1977):155-159.
- EK002 Buck, C.W. (Letter) "Whooping-Cough Vaccination." Lancet 1(1977):746-747.
- EK003 Buck, C.W.; Simpson, H. and Wanklin, J.M. "Survival of Nieces and Nephews of Schizophrenic Patients." British Journal of Psychiatry 130 (1977):506-508.

- EK004 Stavraky, K.M. "The Role of Ecologic Analysis in Studies of the Etiology of Disease: A Discussion with Reference to Large Bowel Cancer." Journal of Chronic Disease 29(1976):435-444.

Department of Family Medicine

- EL001 Bass, M.J. "Health Care Planning Compendium Compiled". Review of Epidemiology as a Fundamental Science. Edited by K.L. White and M.M. Henderson. Don Mills, Ontario: Oxford University Press, 1976. In Canadian Family Physician 23(1977):107.
- EL002 Bass, M.J. (Audiotape) "Most Common Symptoms Presented in One Year in Three Family Practices." Medifacts 7,5(1977).
- EL003 Bass, M.J. "A System View of Primary Care and the Role of the Family Physican". Journal of Family Practice 3(1976):665.
- EL004 Bass, M.J.; Newell, J.P. and Dickie, G.L. "An Information System for Family Practice. Part 2: The Value of Defining a Practice Population". Journal of Family Practice 3(1976):525-528.
- EL005 Biehn, J.T. "Characteristics of an Effective Medical Teacher." Canadian Family Physician 22(1976):135-136.
- EL006 Biehn, J.T. "The Complex Doctor-Patient Relationship." University of Western Ontario Medical Journal 47,3(1977):14-15.
- EL007 Brennan, M. and Spano, L. "The BJS System: Recording and Retrieving Data for Family Medicine." Canadian Family Physician 22(1976):32-44.
- EL008 Dickie, G.L.; Newell, J.P. and Bass, M.J. "An Information System for Family Practice. Part 4: Encounter Data and Their Uses". Journal of Family Practice 3(1976):639-644.
- EL009 McWhinney, I.R. "Invited Discussion." In Preventive and Community Medicine in Primary Care. Edited by W.H. Barker. Bethesda, Maryland: DHEW Publication No. (NIH) 76-879, 1976. pp.79-86.
- EL010 McWhinney, I.R. "Research Implications of the Virginia Study." Journal of Family Practice 3(1976):13-14.
- EL011 Molineux, J.; Hennen, B.K. and McWhinney, I.R. "In-Training Performance Assessment in Family Practice". Journal of Family Practice 3(1976):405-408.
- EL012 Morrissy, J.R. "Where Next for Canadian Family Medicine?" Canadian Family Physician 23(1977):116-117.
- EL013 Newell, J.P.; Bass, M.J. and Dickie, G.L. "An Information System for Family Practice. Part 1: Defining the Practice Population". Journal of Family Practice 3(1976):517-520.

- EL014 Newell, J.P.; Dickie, G.L. and Bass, M.J. "An Information System for Family Practice. Part 3: Gathering Encounter Data". Journal of Family Practice 3(1976):633-636.
- EL015 Stewart, M. and Weston, W.W. "Research in a Family Practice: An Inside View". Canadian Family Physician 23(1977):55-63.
- EL016 Weston, W.W. "The Defined Data Base and Special Forms". In Manual for the College Office Record. Edited by M. McCaffery. Toronto, Ontario: College of Family Physicians of Canada, n.d. pp.27-32.
- EL017 Weston, W.W. "Prevention and the Clinical Record." In Manual for the College Office Record. Edited by M. McCaffery. Toronto, Ontario: College of Family Physicians of Canada, n.d. pp.42-47.

Department of History of Medicine & Science

- EM001 Plotkin, H.N. "Henry Draper, the Discovery of Oxygen in the Sun, and the Dilemma of Interpreting the Solar Spectrum." Journal for the History of Astronomy 8(1977):44-51.
- EM002 Plotkin, H.N. "Radio Astronomy". In Dictionary of American History, vol. 6. Edited by L.B. Ketz. New York, New York: Scribner, 1976. pp.16-17.

Department of Medicine

- EN001 Ahuja, S.P. and Johnson, M.E. "Clinical Experience with an Adjustable Pulse Width Demand Pacemaker." In Cardiac Pacing. Edited by Y. Watanabe. International Congress Series, No. 395. New York, New York: Excerpta Medica, 1977. pp.285-289.
- EN002 Ali, M.; Barnett, W.H.; Stoessl, A.J. and McDonald, J.W.D. (Abstract) "Four Nonsteroidal Antiinflammatory Drugs as Inhibitors of Platelet and Gastric Mucosal Prostaglandin Synthesis." Clinical Research 24(1976): 669A.
- EN003 Ali, M. and McDonald, J.W.D. "Effects of Sulfinpyrazone on Platelet Prostaglandin Synthesis and Platelet Release of Serotonin." Journal of Laboratory and Clinical Medicine 89(1977):868-875.
- EN004 Austin, T.W. "Nosocomial Infections in the Critically Ill." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.146-150.
- EN005 Austin, T.W.; Coles, J.C.; Finley, R. and Schieven, B. "Prophylactic Antibiotic Therapy and Heart Valve Replacement." Canadian Journal of Surgery 19(1976):349-352.
- EN006 Austin, T.W.; Coles, J.C.; McKechnie, P.; Sandoval, W. and Doctor A. "Cephalothin Prophylaxis and Valve Replacement." Annals of the Thoracic Surgery 23(1977):333-336.

- EN007 Austin, T.W. and Holmes, K.K. "Gonococcal Disease." Contemporary Surgery 9(1976):21-22.
- EN008 Bell, D.A. and Kushnier, L.K. (Abstract) "In Vitro Lymphocyte Responses in Systemic Lupus Erythematosus (SLE): Characterization of a Suppressive Factor in SLE Serum." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):97, no.281.
- EN009 Black, W.A.; Grabec, M. and Stiller, C.R. (Abstract) "Endogenous Staphylococcus Aureus Infection in Renal Transplant Recipients." Kidney International 11(1977):379.
- EN010 Boughner, D.R.; Nolan, J. and Rechnitzer, P. "Usefulness of Echocardiographic Peak Velocity of Circumferential Fibre Shortening." Ultrasound in Medicine 2(1976):21-30.
- EN011 Boughner, D.R.; Rakowski, H. and Wigle, E.D. (Abstract) "Idiopathic Hypertrophic Subaortic Stenosis: Combined Doppler Echocardiographic Assessment." Circulation 54, Suppl.2(1976):191, no.0749.
- EN012 Cape, R.D.T. "A Concept of Geriatric Medicine." Canadian Medical Association Journal 115(1976):9-10.
- EN013 Cape, R.D.T. Review of Teaching of Chronic Illness and Aging. Edited by D.W. Clark and T.F. Williams. Washington, District of Columbia: U.S. Department of Health, Education and Welfare, 1976. In Canadian Medical Association Journal 116(1977):143.
- EN014 Chamberlain, M.J. and Kostuk, W.J. (Abstract) "Predictive Value of Myocardial Perfusion Imaging for Aortocoronary Bypass Surgery." JNM; Journal of Nuclear Medicine 18(1977):612.
- EN015 Chodirker, W.B. Review of Allergy and Clinical Immunology. Edited by L. Criepe. Toronto, Ontario: Longman Canada, 1976. In Canadian Medical Association Journal 116(1977):726.
- EN016 Chodirker, W.B. and Piotrowska, A. "Allergy Testing: Comparison of Skin and In Vitro Tests of Allergic Reagin." Canadian Medical Association Journal 116(1977):1254-1257.
- EN017 Clark, P.I.; Kostuk, W.J. and Henderson, A.R. "The Human Red Cell Haemolysate: A Source of LDH Isoenzymes." Clinica Chimica Acta 73(1976):207-211.
- EN018 Clark, P.I.; Kostuk, W.J. and Henderson, A.R. "A Simple and Rapid Procedure for the Preparation of Human LDH-1 and LDH-5 Using an Ion-Exchange Mini-Column." Clinica Chimica Acta 69(1976):361-366.
- EN019 Clark, P.I.; Kostuk, W.J. and Henderson, A.R. (Letter) "Time Dependency of Human Lactate Dehydrogenase Isoenzyme 5 Inhibition by Urea." Clinical Chemistry 22(1976):2059.
- EN020 Clark, W.F. "Alterations in Drug Therapy with Renal Failure." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.67-76.

- EN021 Clark, W.F.; Friesen, M.; Linton, A.L. and Lindsay, R.M. "The Platelet as a Mediator of Tissue Damage in Immune Complex Glomerulonephritis." Clinical Nephrology 6(1976):287-289.
- EN022 Clarke, O.; Rand, C.G. and Swinton, C. A Report on the Paramedic Training Programme in Thailand. Chiang Mai, Thailand: Canadian International Development Agency and Department of Accelerated Rural Development (Thai Ministry of the Interior), 1976.
- EN023 Courtney, J.M.; Gilchrist, T.; Venn, R.F. and Lindsay, R.M. "22. Compatibility Assessment of Semipermeable Films." In Biocompatibility of Implant Materials. Edited by D. Williams. London, England: Sector Publishing, 1976. pp.183-186.
- EN024 Courtney, J.M.; Park, G.B.; Fairweather, I.A. and Lindsay, R.M. "Polymer Structure and Blood Compatibility Evaluation-Application of an Acrylonitrile Copolymer." Biomaterials, Medical Devices and Artificial Organs 4(1976):324-339.
- EN025 Driedger, A.A. (Letter) "Effects of Iron on ⁶⁷Ga Uptake." Journal of Nuclear Medicine 17(1976):852.
- EN026 Dupre, J.; Greenidge, N.; McDonald, T.J.; Ross, S.A. and Rubinstein, D. "Inhibition of Actions of Glucagon in Adipocytes by Gastric Inhibitory Polypeptide." Metabolism 25(1976):1197-1198.
- EN027 Dupre, J.; McDonald, T.J.; Radziuk, J.; Caussignac, Y. and Van Vliet, S. (Abstract) "Glucagonotropic Action of Gastric Inhibitory Polypeptide in Man." Clinical Research 24(1976):680A.
- EN028 Edwards, K.N. (Letter) "EMS Organization, London, Ontario." Journal of the American College of Emergency Physicians 6(1977):126-127.
- EN029 Fellows, B.J.; Linton, A.; Roseberg, I.K.; Trunkey, D.D. and Weisberg, H.F. (Consulting Editors) Principles and Techniques of Critical Care. The Renal System by R. Wilson. Kalamazoo, Michigan: Upjohn, 1976.
- EN030 Ferguson, K.G. "Patient Documentation in the Emergency Department." Ontario Medical Review 44(1977):247-250.
- EN031 Flanagan, P.R. and Forstner, G.G. (Abstract) "Dissociation of Rat Intestinal Maltase-Glucoamylase." Federation Proceedings 35(1976):284, no.435.
- EN032 Flanagan, P.R. and Zbarsky, S.H. "Purification of Phosphodiesterase II from Rat and Guinea Pig Intestinal Mucosa." Biochemical Journal 155(1976):607-613.
- EN033 Flanagan, P.R. and Zbarsky, S.H. "Rat Intestinal Phosphodiesterase II. Properties of the Highly Purified Enzyme and its Inactivation by Iodoacetic Acid." Biochimica et Biophysica Acta 480(1977):204-218.
- EN034 Friesen, A.; Klein, G.J.; Kostuk, W.J. and Ahuja, S.P. "Percutaneous Insertion of a Permanent Transvenous Pacemaker Electrode through the Subclavian Vein." Canadian Journal of Surgery 20(1977):131-135.

- EN035 Green, R.N. "27. Thyroid, Parathyroid, and Adrenal Glands." In Basic Surgery. Edited by J.A. McCredie. London, England: Bailliere-Tindall, 1977. pp.474-493.
- EN036 Harth, M.; Haines, D.S.M. and Bondy, D.C. "6. Atomic Absorption Spectroscopy." In Drug Fate and Metabolism. Edited by E.R. Garrett and J.L. Hirtz. New York, New York: Dekker. 1977. pp.229-241.
- EN037 Harth, M.; Stiller, C.R.; Evans, J.; Zuberi, R.; McGirr, D. and Sinclair, N. (Abstract) "Effects of Sodium Aurothiomalate (SATM) on Human Lymphocyte Functions in Normal Controls (NC) and Patients with Rheumatoid Arthritis (RA)." Arthritis and Rheumatism 19(1977):802.
- EN038 Harth, M.; Stiller, C.R.; Sinclair, N.R. St.C.; Evans, J, J.; McGirr, D. and Zuberi, R. "Effects of a Gold Salt on Lymphocyte Responses." Clinical and Experimental Immunology 27(1977):357-364.
- EN039 Hickey, J.P.; Harth, M.; Coulter, W.K.; Thompson, J. and Disney, T. (Abstract) "Thrombocytopenia Associated with Chrysotherapy in Rheumatoid Arthritis." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):98, no.284.
- EN040 Inwood, M.J. "Clotting." In Hemophilia '76. A Canadian Handbook. Edited by W. Cummings. Hamilton, Ontario: Canadian Hemophilia Society, 1976. pp.14-20.
- EN041 Inwood, M.J. "Hemophilia - Why Concern Yourself?" University of Western Ontario Medical Journal 47,1(1976):3-4.
- EN042 Inwood, M.J. "Thrombo-Embolic Disease: Some Practical Considerations." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.4-11.
- EN043 Inwood, M.J. and Thomson, S. "Section 4: Hematology and Blood Bank." In Lynch's Medical Laboratory Technology. 3rd ed. vol. 2 by S.S. Raphael, Senior Author. Toronto, Ontario: Saunders, 1976. pp.1064-1346.
- EN044 Jones, D.T. "Medical Management of Acute Myocardial Infarction Subsequent to the First 48 Hours." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald,; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.17-20.
- EN045 Jones, D.T. "Specific Complications of Acute Myocardial Infarction Subsequent to the First 48 Hours." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.21-26.
- EN046 Kadrie, H.; Driedger, A.A. and McInnis, W. "Persistent Dural Cerebrospinal Fluid Leak Shown by Retrograde Radionuclide Myelography: Case Report." Journal of Nuclear Medicine 17(1976):797-799.

- EN047 Kelton, J.; Ulan, R.A.; Mitton, R. and Stiller, C.R. (Abstract) "Monitoring of Patients on Chronic Peritoneal Dialysis by Analysis of Ascitic Fluid." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):78, no.199.
- EN048 Kelton, J.; Ulan, R.A.; Mitton, R. and Stiller, C.R. (Abstract) "Monitoring of Patients on Chronic Peritoneal Dialysis by Analysis of Ascitic Fluid." Kidney International 11(1977):382.
- EN049 Keown, P.; Stiller, C.R.; Ulan, R.A. and McGirr, D. (Abstract) "Effect of Methylprednisolone on In Vitro Parameters of the Immune Response in the Transplant Recipient." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):81, no.212.
- EN050 Keown, P.; Stiller, C.R.; Ulan, R.A. and McGirr, D. (Abstract) "Effect of Methylprednisolone on In Vitro Parameters of the Immune Response in the Transplant Recipient." Kidney International 11(1977):382.
- EN051 Klein, G. and Kostuk, W.J. (Abstract) "Diagnostic Accuracy of Non-Invasive Stress Myocardial Perfusion Imaging." Circulation 54, Suppl. 2(1976):207, no.0812.
- EN052 Ko, P.; Kostuk, W.J. and Deatrigh, D. "Technetium Pyrophosphate Scanning in the Detection of Acute Myocardial Infarction: Clinical Experience." Canadian Medical Association Journal 116(1977):260-263.
- EN053 Kobric, M. and Dupre, J. (Abstract) "Effects of Gastric Inhibitory Polypeptide on Release of Glucagon from Tissues of Diabetic Rats." Clinical Research 24(1977):681A.
- EN054 Kostuk, W.J. "Advances in Pharmacological Management of Myocardial Ischemia and Infarction." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.27-32.
- EN055 Kostuk, W.J. and Chamberlain, M. "10.9 Myocardial Perfusion Abnormalities in Patients with Cardiomyopathy." In Microcirculation. Vol. 1. Edited by J. Grayson and W. Zingg. New York, New York: Plenum, 1976. pp.303-305.
- EN056 Kostuk, W.J. and Chamberlain, M.J. "Myocardial Perfusion Defects in Patients with Valvular Heart Disease." In Microcirculation, Vol. 1. Edited by J. Grayson and W. Zingg. New York, New York: Plenum, 1976. pp.301-302.
- EN057 Kostuk, W.J. and Chamberlain, M.J. "Predictive Value of Myocardial Perfusion Imaging for Aortocoronary Bypass Surgery." Canadian Journal of Surgery 20(1977):112-117.
- EN058 Kostuk, W.J. and Chamberlain, M.J. "10.7 Predictive Value of Myocardial Scanning for Coronary Artery Bypass Surgery." In Microcirculation. Vol. 1. Edited by J. Grayson and W. Zingg. New York, New York: Plenum, 1976. pp.299-300.

- EN059 Kostuk, W.J.; Klein, G. and Deitrich, D. (Abstract) "Non-Invasive Stress Myocardial Scanning - Diagnostic Accuracy." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):33, no.13.
- EN060 Kostuk, W.J.; Ko, P. and Deatrich, D. (Letter) "Technetium Pyrophosphate Scanning in Acute Myocardial Infarction." Canadian Medical Association Journal 116(1977):1119.
- EN061 Leid, R.W.; Paterson, N.A.M. and Austen, K.F. (Abstract) "Inhibition of Mediator Release by a Factor Derived from Lungs of Rats." Federation Proceedings 35,3(1976):865, no.3637.
- EN062 Lickley, L.; Chisholm, D. and Dupre, J. "High Portal Blood Pressure and Insulin Secretion: Reply." Metabolism 26(1977):105-106.
- EN063 Lim, K.O. and Boughner, D.R. (Abstract) "Morphology of Chordae Tendineae and its Relation to Their Extensibility Curves." Canadian Federation of Biological Societies. Programme and Proceedings. 19(1976):22, no.86.
- EN064 Lindsay, R.M. "Acute Renal Failure/Etiological Considerations and Pathogenesis." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.63-66.
- EN065 Lindsay, R.M. "Frequent Electrolyte Disturbances in Critically Ill Patients." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.81-85.
- EN066 Lindsay, R.M.; Friesen, M.; Koens, F.; Linton, A.L.; Oreopoulos, D. and deVeber, G. "Platelet Function in Patients on Long Term Peritoneal Dialysis." Clinical Nephrology 6(1976):336-339.
- EN067 Lindsay, R.M.; Rourke, J.T.B.; Reid, B.D.; Linton, A.L.; Gilchrist, T.; Courtney, J. and Edwards, R.O. "The Role of Heparin on Platelet Retention by Acrylonitrile Co-Polymer Dialysis Membranes." Journal of Laboratory and Clinical Medicine 89(1977):724-734.
- EN068 Linton, A.L. "Diagnosis and Management of Acute Renal Failure." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.77-80.
- EN069 Linton, A.L. "Diagnosis and Treatment of Infections of the Urinary Tract." Heart and Lung 5(1976):607-610.
- EN070 McCain, G.; Chodirker, W.B.; Komar, R. and Bell, D.A. (Abstract) "Antibodies to Extractable Nuclear Antigen (ENA) in Rheumatic Diseases." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):96-97, no.277.
- EN071 McCrimmon, D.R.; Cunningham, D.A.; Rechnitzer, P.A.; and Griffiths, J. "Effect of Training on Plasma Catecholamines in Post Myocardial Infarction Patients." Medicine and Science in Sports 8(1976):152-156.

- EN072 McDonald, T.J.; Caussignac, Y.; Dupre, J.; Levy, M.; Radziuk, J.; Van Vliet, S. and Wexler, M. (Abstract) "Hypersecretion of Glucagon in Hepatic Cirrhosis in Man and Dog." Diabetologia 12(1976):409, no.183.
- EN073 McKay, W.; Gordon, K.D. and Borda, I.T. (Abstract) "High-Dose Cholestyramine Treatment of Obesity." Tenth International Congress of Gastroenterology. Program (1976):535, no.592.
- EN074 Mayer, P.P.; Chughtai, M.A. and Cape, R.D.T. "An Immunological Approach to Dementia in the Elderly." Age and Ageing 5(1976):164-170.
- EN075 Mazza, J. and Ahmad, D. (Abstract) "Double-Blind Study of the Pulmonary and Circulatory Effects of Single Dose of Parenteral Terbutaline and Aminophylline during Acute Bronchospasm." Annual Meeting of the Canadian Thoracic Society. Program. Vancouver, British Columbia. June 1976.
- EN076 Melendez, L.J. "Medical Management of the Acute Myocardial Infarction: The First Forty-Eight Hours." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.12-16.
- EN077 Moore, T.J.; Dluhy, R.G.; Williams, G.H. and Cain, J.P. "Nelson's Syndrome: Frequency, Prognosis, and Effect of Prior Pituitary Irradiation." Annals of Internal Medicine 85(1976):731-734.
- EN078 Nichol, P.M.; Boughner, D.R. and Persaud, J.A. "Noninvasive Assessment of Mitral Insufficiency by Transcutaneous Doppler Ultrasound." Circulation 54(1976):656-661.
- EN079 Nichol, P.M.; Gilbert, B.W. and Kisslo, J.A. "Evaluation of Mitral Stenosis by Two-Dimensional Echocardiography." Ultrasound in Medicine 3(1977):99-106.
- EN080 Nichol, P.M.; Gilbert, B.W. and Kisslo, J.A. "Two-Dimensional Echocardiographic Assessment of Mitral Stenosis." Circulation 55(1977):120-128.
- EN081 O'Grady, L.R. and Ralph, E.D. "Anaerobic Meningitis and Bacteremia Caused by Fusobacterium Species." American Journal of Diseases of Children 130(1976):871-873.
- EN082 Pace, W.E. "Treatment of Cutaneous Ulcers with Benzoyl Peroxide." Canadian Medical Association Journal 115(1976):1101-1106.
- EN083 Paterson, N.A.M.; Leid, R.W.; Said, J.W., Jr.; Wasserman, S.I. and Austen, K.F. "Release of Chemical Mediators from Dispersed and Partially Purified Human and Rat Lung Mast Cells." In Lung Cells in Disease. Edited by A. Bouhuys. New York, New York: Elsevier/North Holland, 1976. pp.223-238.
- EN084 Paterson, N.A.M.; Wasserman, S.I.; Said, J. and Austen, K.F. (Abstract) "Chemical Mediator Release from Lung Cells." Pneumonologie 153(1976):148.
- EN085 Paterson, N.A.M.; Wasserman, S.I.; Said, J.W. and Austen, K.F. "Release of Chemical Mediators from Partially Purified Human Lung Mast Cells." Journal of Immunology 117(1976):1356-1362.

- EN086 Paterson, N.A.M.; Wasserman, S.I.; Said, J.; Kater, L.A. and Austen, K.F. (Abstract) "Mediator Release from Human Lung Cells Distributed According to Density." Federation Proceedings 35(1976):865, no.3641.
- EN087 Pederson, L.L. and Lefcoe, N.M. "A Psychological and Behavioural Comparison of Ex-Smokers and Smokers." Journal of Chronic Diseases 29(1976):431-434.
- EN088 Pflugfelder, P.; Robertson, D. and Cape, R.D.T. "Predicting Mortality after Elective Abdominal Aortic Aneurysmectomy in the Elderly." Gerontology 23(1977):368-375.
- EN089 Poon, H.C.; McCourtie, D.R.M. and Haust, H.L. (Abstract) "Inhibition of Histaminase Activity by Methacholine." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):127, no.505.
- EN090 Radziuk, J. and Dupre, J. (Abstract) "The Effect of Changes in Plasma Glucagon Concentration on the Rate of Production and Clearance of Glucose." Federation Proceedings 36(1977):338, no.361.
- EN091 Radziuk, J.; Dupre, J.; McDonald, T.J.; Levy, M. and Wexler, M. (Abstract) "Decreased Sensitivity of Glucose Turnover to Glucagon and its Hypersecretion in Hepatic Cirrhosis in Dogs." Clinical Research 25(1977):397A.
- EN092 Radziuk, J.; McDonald, T.J.; Rubinstein, D. and Dupre, J. (Abstract) "Systemic Appearance of Ingested Glucose and Suppression of Endogenous Glucose Production after Oral Glucose Loading." Diabetes 25, Suppl.1 (1976):332, no.45.
- EN093 Rakowski, H.; Boughner, D.R.; Sole, M.J. and Wigle, E.D. (Abstract) "The Echocardiographic Diagnosis of Amyloid Cardiomyopathy." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):33, no.15.
- EN094 Rakowski, H.; Boughner, D.R.; Sole, M.J. and Wigle, E.D. (Abstract) "The Echocardiographic Diagnosis of Amyloid Cardiomyopathy." Circulation 54, Suppl.2(1976):84, no.0328
- EN095 Rechnitzer, P.A.; Howard, J.H. and Cunningham, D.A. "A Study of Executives with Type A Behaviour." University of Western Ontario Medical Journal 46,4(1976):13-17.
- EN096 Redinger, R.N. "The Effect of Loss of Gallbladder Function on Biliary Lipid Composition in Subjects with Cholesterol Gallstones." Gastroenterology 71(1976):470-474.
- EN097 Redinger, R.N. (Abstract) "The Extrahepatic Effect of Phenobarbital on Bile Acid Metabolism." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):53, no.94.
- EN098 Redinger, R.N. and Grace, D.M. (Abstract) "A Cholesterol Breath Test Employing ^{14}C -Cholesterol and $^{14}\text{CO}_2$ Analysis in the Primate." Clinical Research 24(1976):666A.

- EN099 Redinger, R.N. and Grace, D.M. (Abstract) "Cholestyramine Induced Cholesterol Gallstones in the Baboon." Clinical Research 24(1976):666A.
- EN100 Redinger, R.N. and Grace, D.M. (Abstract) "Specificity and Interrelation of Bile Acids on Bile Acid Synthesis in the Baboon." Gastroenterology 72,5(1977):A141/1164.
- EN101 Robertson, D. "Continuing Care of the Elderly Disabled. A Challenge for the 1980's." Geriascope, March 1977.
- EN102 Robertson, D.; Griffiths, R.A. and Cosin, L.Z. "A Community-Based Continuing Care Program for the Elderly Disabled. An Evaluation of Planned Intermittent Hospital Readmission." Journal of Gerontology 32 (1977):334-339.
- EN103 Robertson, D. and Kostuk, W.J. "Coronary Artery Disease with Single Coronary Artery." Yale Journal of Biology and Medicine 49(1976):461-465.
- EN104 Roder, J.C.; Bell, D.A. and Singhal, S.K. (Abstract) "Loss of Self-Tolerance to Single Stranded Deoxyribonucleic Acid (sDNA) In Vitro." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):157, no.625.
- EN105 Roder, J.C.; Bell, D.A. and Singhal, S.K. "Regulation of the Immune Response in Autoimmune NZB/NZW F₁ Mice. I. The Spontaneous Generation of Splenic Suppressor Cells." Cellular Immunology 29(1977):272-284.
- EN106 Rodger, N.W. "Diabetic Hearts and Biguanides." Canadian Medical Association Journal 115(1976):379-380.
- EN107 Rodger, N.W. Review of Insulin. Part 2. Edited by A. Hasselblatt and F.V. Bruchhausen. New York, New York: Springer, 1970. In Annals of Internal Medicine 85(1976):416.
- EN108 Ross, S.A.; Lorrain, J.; Dupre, J.; Robillard, R. and Cartier, A. (Abstract) "Abnormal Glucagon Secretion in Pregnant Women with Suspected Diabetes Mellitus." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):46, no.66.
- EN109 Salcedo, J.R.; Melendez, L.J. and Jones, D.T. (Abstract) "Usefulness of Additional Chest Leads in the Diagnosis of True Posterior (Dorsal) Wall Myocardial Infarct." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):36, no.25.
- EN110 Sibbald, W.J. "Adult Respiratory Distress Syndrome (ARDS)." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.110-119.
- EN111 Sibbald, W.J. "Bacteremia and Endotoxemia: A Discussion of Their Roles in the Pathophysiology of Gram-Negative Sepsis." Heart and Lung 5 (1976):765-771.
- EN112 Sibbald, W.J. "Drug Overdose: Management of Lipophilic Hypnotic and Tricyclic Overdose." In Recent Developments in the Management of Critically Ill and Injured Patients. Edited by R.F. Wilson. Detroit, Michigan: Wayne State University Press, 1976. pp.22-1-22-12.

- EN113 Sibbald, W.J. "Endocrine Changes in Critically Ill and Injured Patients. Plasma Cortisol and Serum Parathormone." In Recent Developments in the Management of Critically Ill and Injured Patients. Edited by R.F. Wilson. Detroit, Michigan: Wayne State University Press, 1976. pp.29-1-29-9.
- EN114 Sibbald, W.J. Review of Critical Care Medicine Handbook by M.H. Weil and H. Shubin. New York, New York: Kolen, 1976. In Ontario Medical Review 44(1977):86.
- EN115 Sibbald, W.J. "Shock Following Myocardial Infarction." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.33-41.
- EN116 Sibbald, W.J.; Anderson, R. and Holliday, R.L. "Pulmonary Capillary Permeability in Sepsis." Sixth Annual Critical Care Symposium. Proceedings. Detroit, Michigan: Wayne State University, 1977. pp. 11-1-11-5.
- EN117 Sibbald, W.J.; Sardesai, V.M.; Short, A. and Wilson, R.F. "Variations in Plasma Levels of Adenosine 3'-5'-Monophosphate during Clinical Sepsis." Surgery, Gynecology and Obstetrics 144(1977):199-204.
- EN118 Sinclair, N.R. St.C.; Lees, R.K.; Missiuna, P.C. and Vichos, E.E. "Regulation of the Immune Response. XII. Targets for Suppressor Cell Activity in an In Vitro Cell-Mediated Immune Response." Cellular Immunology 27(1976):163-170.
- EN119 Sinclair, N.R. St.C.; Lees, R.K.; Wheeler, M.E.; Vichos, E.E. and Fung, F.Y. "Regulation of the Immune Response. XI. Cell-Mediated Feedback of an In Vitro Cell-Mediated Immune Response." Cellular Immunology 27 (1976):153-162.
- EN120 Sinclair, N.R. St.C. and McCredie, J.A. "Chapter 4: Immune Response in Tissue Transplantation and Cancer." In Basic Surgery. Edited by J.A. McCredie. Toronto, Ontario: Bailliere-Tindall, 1977. pp.103-116.
- EN121 Sinclair, N.R. St.C.; Stiller, C.R.; Abrahams, S.; McGirr, D.; Singh, H.; Howson, W. and Ulan, R.A. (Abstract) "Anti-Donor Specific Immune Responses in Allograft Rejection Episodes." Sixth International Congress of the Transplantation Society. Program. New York, New York. August 1976.
- EN122 Stiller, C.R. "Clinical Immunosuppression with Antilymphocyte Globulin." Canadian Medical Association Journal 115(1976):1190-1191.
- EN123 Stiller, C.R.; Dossetor, J.B.; Carpenter, C.B. and Myburgh, J.A. "Immunologic Monitoring of the Transplant Recipient." Transplantation Proceedings 9(1977):1245-1250.
- EN124 Stiller, C.R.; Jevnikar, A.; Sinclair, N.R. St.C.; McGirr, D. and Ulan, R.A. (Abstract) "Donor Specific Post-Transplant Humoral and Cell-Mediated Responses." Sixth International Congress of the Transplantation Society. Program. New York, New York. August 1976.

- EN125 Stiller, C.R.; Sinclair, N.R. St.C.; Abrahams, S.; Fung, M.; Ulan, R.A.; Wallace, A.C. and McGirr, D. "Transplant Monitoring: Patterns of the Immune Response." Proceedings of the European Dialysis and Transplantation Association 12(1976):415-422.
- EN126 Stiller, C.R.; Sinclair, N.R. St.C.; Howson, W.; McGirr, D.; Abrahams, S. and Ulan, R.A. (Abstract) "Specific Pre-Transplant Sensitization to Donor Antigens." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):80, no.206.
- EN127 Stiller, C.R.; Sinclair, N.R. St.C.; Howson, W.; McGirr, D.; Abrahams, S. and Ulan, R.A. (Abstract) "Specific Pre-Transplant Sensitization to Donor Antigens." Kidney International 11(1977):383-384.
- EN128 Stiller, C.R.; Sinclair, N.R. St.C.; Howson, W.; McGirr, D.; Abrahams, S. and Ulan, R.A. (Abstract) "Specific Pre-Transplant Sensitization to Donor Antigens." Sixth International Congress of the Transplantation Society. Program. New York, New York. August 1976.
- EN129 Stiller, C.R.; Sinclair, N.R. St.C.; McGirr, D.; Howson, W.; Ulan, R.A. and Keown, P. (Abstract) "Humoral and Cellular Sensitization and Graft Outcome." First International Symposium on Immunological Monitoring of the Transplant Recipient. Program. June 1977.
- EN130 Stiller, C.R.; Ward, M.; Sinclair, N.R. St.C.; McGirr, D.; Howson, W.T.; Paty, D.W. and Cousin, H.K. (Abstract) "CML Specificities in Kidney Donors, Normals and Multiple Sclerosis Patients." Third Annual Meeting of the American Association for Clinical Histocompatibility Testing. Program. New Orleans, Louisiana. April, 1977.
- EN131 Tevaarwerk, G.J.M. "An Approach to Metabolic Acidosis." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.86-95.
- EN132 Tevaarwerk, G.J.M. and Boyd, D. (Abstract) "Propranolol Pretreatment and Thyroid Hormone Levels during Subtotal Thyroidectomy for Graves' Disease." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):42, no.50.
- EN133 Tevaarwerk, G.J.M.; Boyle, D.A.; Hurst, C.; Anguish, I. and Uksik, P. (Abstract) "A Double Antibody Solid Phase (DASP) Separating System for Radioimmunoassays." Twenty-Fourth Annual Meeting of the Society of Nuclear Medicine. Program. Chicago, Illinois. June 1977.
- EN134 Tevaarwerk, G.J.M. and Hudson, A.J. "Carbohydrate Metabolism and Insulin Resistance in Myotonia Dystrophica." Journal of Clinical Endocrinology and Metabolism 44(1977):491-498.
- EN135 Tevaarwerk, G.J.M.; Masood, Z., Anguish, I. and Uksik, P. (Abstract) "Microradioimmunoassays of Thyroid Hormones in Capillary Blood Using A Double Antibody Solid Phase Separation System." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):86, no.232.

- EN136 Tevaarwerk, G.J.M.; Rose, M.D.I.; Harding, P.G.R.; Milne, J.K.; Jaco, N.T. and Hardie, M.J. (Abstract) "The Outcome of Sixty-Five Pregnancies in Diabetic Women." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):90, no.250.
- EN137 Thomson, A.B.R. and Valberg, L.S. "Kinetics of the Subcellular Distribution of Iron and Cobalt in the Intestinal Mucosa of the Rat." American Journal of Digestive Diseases 21(1976):305-312.
- EN138 Toogood, J.H. "Perennial Rhinitis with Negative Allergy Skin Tests." Oto-Rhino-Laryngology Digest 38(1976):7-14.
- EN139 Toogood, J.H. and Errington, N. (Abstract) "Application of Citation Analysis to Radiographic Detection of Adverse Lung Reactions to Drugs." Clinical Research 24(1976):693A.
- EN140 Toogood, J.H.; Lefcoe, N.M.; Errington, N.; Jennings, B.; Baskerville, J.A. and Chuang, L. (Abstract) "Implications of Dosage, Goals of Therapy, and Patient Variability in Determining the Best Dose of Beclomethasone (BA) for Chronic Asthma." Annual Meeting of the Canadian Thoracic Society. Program. Moncton, New Brunswick. June 1977.
- EN141 Toogood, J.H.; Lefcoe, N.M. and Haines, D.S.M. (Abstract) "Differences in the Response to High-Dosage Beclomethasone of Steroid-Dependent Asthmatics on Daily vs. Alternate-Day Prednisone." Clinical Pharmacology and Therapeutics 21(1977):119.
- EN142 Toogood, J.H.; Lefcoe, N.M.; Haines, D.S.M.; Jennings, B.; Errington, N. and Baksh, L. "A Graded Dose Assessment of the Efficacy of Beclomethasone Dipropionate Aerosol for Severe Chronic Asthma." Journal of Allergy and Clinical Immunology 59(1977):298-308.
- EN143 Toogood, J.H.; Lefcoe, N.M. and Mazza, J. (Abstract) "Assessment of Relative Sensitivity of Several Airflow Indices during Beclomethasone Aerosol (BA) Therapy of Asthma." Clinical Research 24(1976):652A.
- EN144 Toogood, J.H.; Mazza, J.A.; Haines, D.S.M. and Lefcoe, N.M. (Abstract) "Dosage Requirements of Beclomethasone and Prednisone for Severe Chronic Asthma." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):94, no.268.
- EN145 Ulan, R.A.; Wallace, A.C.; Lockwood, J.F.B.; Keown, P. and Stiller, C.R. (Abstract) "Morphologic Evidence of Perfusion Injury in Machine-Preserved Kidneys." Kidney International 11(1977):384.
- EN146 Ulan, R.A.; Wallace, A.C.; Lockwood, J.F.B.; Keown, P. and Stiller, C.R. (Abstract) "Morphologic Evidence of Perfusion Injury in Machine Preserved Kidneys." Ninth Annual Meeting of the American Society of Nephrology. Program. Washington, District of Columbia. November 1976.
- EN147 Valberg, L.S.; Haist, J.; Cherian, M.G.; Delaquerriere-Richardson, L. and Goyer, R.A. "Cadmium-Induced Enteropathy: Comparative Toxicity of Cadmium Chloride and Cadmium-Thionein." Journal of Toxicology and Environmental Health 2(1977):963-975.

- EN148 Valberg, L.S.; Sorbie, J. and Hamilton, D.L. "Gastrointestinal Metabolism of Cadmium in Experimental Iron Deficiency." American Journal of Physiology 231(1976):462-467.
- EN149 Valberg, L.S.; Sorbie, J. and Ludwig, J. "Mucosal Iron-Binding Proteins in Mice with X-Linked Anaemia." British Journal of Haematology 35 (1977):321-330.
- EN150 Vallely, J.F.; Sharpe, J.R.; Hayman, W.P.; Stiller, C.R. and Ulan, R.A. "Spontaneous Rupture of the Renal Pelvis: Complication of Renal Homotransplantation." Journal of Urology 116(1976):253-254.
- EN151 Van Vliet, S.; Caussignac, Y.; Dupre, J.; McDonald, T.J. and Radziuk, J. (Abstract) "Glucagonotropic Action of Gastric Inhibitory Polypeptide in Liver Cirrhosis." Clinical Research 25(1977):402A.
- EN152 Walker, J.B. "Executive Health." Record-Society of Actuaries 2(1976):1077-1093.
- EN153 Watson, W.C. "2. Clinical Diagnosis of the Causes of Diarrhea." Canadian Medical Association Journal 116(1977):739-741.
- EN154 Watson, W.C.; Corke, M.; Pomare, E.W. and Sullivan, S.N. (Abstract) "A Double-Blind Study on the Effect of Dietary Fibre on Stool Frequency and Appearance, Abdominal Symptoms and Serum Lipid Levels in Patients with the Irritable Bowel Syndrome (IBS)." Gastroenterology 72(1977):A123/1146.
- EN155 Watson, W.C. and Sadikali, F. "Celiac Axis Compression. Experience with 20 Patients and a Critical Appraisal of the Syndrome." Annals of Internal Medicine 86(1977):278-284.
- EN156 Wilcox, L.D.; DeRose, G. and Cooke, D. "Use of the Dog Spleen for Studying Effects of Irradiation and Chemotherapeutic Agents, with Suggested Uses of Other Organs." Cancer 38(1976):62-72.
- EN157 Wilson, R.F. and Sibbald, W.J. "Approach to Acid-Base Problems in the Critically Ill and Injured." Journal of the American College of Emergency Physicians 5(1976):515-522.
- EN158 Wolfe, B.M. and Ahuja, S.P. (Abstract) "Inhibition of Splanchnic Triglyceride Secretion by Clofibrate in Glucose-Fed Hypertriglyceridemic Men." Clinical Research 24(1976):684A.
- EN159 Wolfe, B.M. and Grace, D.M. (Abstract) "Inhibition of Hepatic Lactate Production by Contraceptive Steroids in Glucose-Fed Swine." Clinical Research 24(1976):664A.
- EN160 Wolfe, B.M. and Grace, D.M. (Abstract) "Inhibition of Triglyceride Secretion by Norethindrone Acetate in Conscious Glucose-Fed Swine." Circulation 51, Suppl.2(1976):211, no.0827.
- EN161 Wood, T.E.; Edgar, H. and Salcedo, J. "Recovery from Inhalation of Diquat Aerosol." Chest 70(1976):774-775.

- EN162 Wood, T.E.; Lesk, D.; Prato, F.S.; Reese, L. and Grainger, W. (Abstract) "Abnormal Ventilation/Perfusion Relationships in Children with Idiopathic Kyphoscoliosis." American Review of Respiratory Disease 115,5,Suppl. (1977):296.

Department of Obstetrics and Gynaecology

- EP001 Allen, H.H. and Collins, J.A. "Surgical Management of Carcinoma of the Cervix." American Journal of Obstetrics and Gynecology 127(1977): 741-744.
- EP002 Armstrong, D.T. (Abstract) "Sites of Action of Follicle-Stimulating and Luteinizing Hormones in Regulation of Ovarian Estrogen Secretion in Vivo." Ninth Annual Meeting of the Society for the Study of Reproduction. Program. Philadelphia, Pennsylvania. August (1976):56, no. 81.
- EP003 Armstrong, D.T. and Dorrington, J.H. "Androgens Augment FSH-Induced Progesterone Secretion by Cultured Rat Granulosa Cells." Endocrinology 99(1976):1411-1414.
- EP004 Armstrong, D.T. and Dorrington, J.H. "Estrogen Biosynthesis in the Ovaries and Testes." In Regulatory Mechanisms Affecting Gonadal Hormone Action. Edited by J.A. Thomas and R.L. Singhal. (Advances in Sex Hormone Research, v.3). Baltimore, Maryland: University Park Press, 1977, pp.217-258.
- EP005 Armstrong, D.T.; Dorrington, J.H. and Robinson, J. "Effects of Indomethacin and Aminoglutethimide Phosphate In Vivo on Luteinizing-Hormone-Induced Alterations of Cyclic Adenosine Monophosphate, Prostaglandin F, and Steroid Levels in Preovulatory Rat Ovaries." Canadian Journal of Biochemistry 54(1976):796-802.
- EP006 Armstrong, D.T.; Moon, Y.S. and Leung, P.C.K. "Uterotrophic Effects of Testosterone and 5 α -Dihydrotestosterone in Intact and Ovariectomized Immature Female Rats." Biology of Reproduction 15(1976):107-114.
- EP007 Armstrong, D.T. and Papkoff, H. "Stimulation of Aromatization of Exogenous and Endogenous Androgens in Ovaries of Hypophysectomized Rats In Vivo by Follicle-Stimulating Hormone." Endocrinology 99(1976): 1144-1151.
- EP008 Brown, S.E.; Allen, H.H. and Robins, R.N. "The Use of Delayed Primary Wound Closure in Preventing Wound Infections." American Journal of Obstetrics and Gynecology 127(1977):713-717.
- EP009 Challis, J.R.G.; Hartley, P.; Johnson, P.; Patrick, J.E.; Robinson, J.S. and Thorburn, G.D. "Steroids in the Amniotic Fluid of the Rhesus Monkey (Macaca Mulatta)." Journal of Endocrinology 73(1977):355-363.
- EP010 Dalton, K.J.; Dawes, G.S. and Patrick, J.E. "Diurnal, Respiratory, and Other Rhythms of Fetal Heart Rate in Lambs." American Journal of Obstetrics and Gynecology 127(1977):414-424.

- EP011 Dorrington, J.H.; Fritz, I.B. and Armstrong, D.T. (Abstract) "FSH Control of Estrogen Synthesis by Cultured Sertoli Cells." Fifth International Congress of Endocrinology. Program. (1976):316, no.768.
- EP012 Dorrington, J.H.; Fritz, I.B. and Armstrong, D.T. "Site at which FSH Regulates Estradiol-17 β Biosynthesis in Sertoli Cell Preparations in Culture." Molecular and Cellular Endocrinology 6(1976):117-122.
- EP013 Dorrington, J.H.; Fritz, I.B. and Armstrong, D.T. "Testicular Estrogens: Synthesis by Isolated Sertoli Cells and Regulation by Follicle-Stimulating Hormone." In Regulatory Mechanisms of Male Reproductive Physiology. Edited by C.H. Spilman, T.J. Lobl, and K.T. Kirton. Amsterdam, Netherlands: Excerpta Medica, 1976. pp.63-70.
- EP014 Fortune, J.E. and Armstrong, D.T. "Androgen Production by Theca and Granulosa Isolated from Proestrus Rat Follicles." Endocrinology 100 (1977):1341-1347.
- EP015 Harding, P.G.R. "Fetal Growth and Nutrition." In Perinatal Medicine, the Basic Science Underlying Clinical Practice. Edited by J.W. Goodwin, J.O. Godden and G.W. Chance. Baltimore, Maryland: Williams and Wilkins, 1976. pp.255-269.
- EP016 Katz, Y. and Armstrong, D.T. "Inhibition of Ovarian Estradiol-17 β Secretion by Luteinizing Hormone in Prepubertal, Pregnant Mare Serum-Treated Rats." Endocrinology 99(1976):1442-1447.
- EP017 Katz, Y. and Armstrong, D.T. (Abstract) "Inhibitory Effect of LH on Estradiol-17 β Biosynthesis in Ovaries of PMS-Treated Immature Rats." Fifth International Congress of Endocrinology. Program. Hamburg, Germany, July (1976):259, no.632.
- EP018 Kennedy, T.G. (Abstract) "Adrenal Glands and the Control of the Diurnal Prolactin Surge in Female Rats." Canadian Federation of Biological Societies, Programme and Proceedings 20(1977):68, no.270.
- EP019 Kennedy, T.G. "Effects of Analogues of Prostaglandins E₂ and F_{2a} on Uterine Luminal Fluid Accumulation in the Estrogen-Treated Ovariectomized Rat: An Indirect Measure of Cervical Tone." Prostaglandins 12 (1976):1061-1071.
- EP020 Kennedy, T.G. (Abstract) "Effects of Oxytocin on Uterine Luminal Fluid Accumulation in Estrogen-Treated Ovariectomized Rats." Fifty-Ninth Annual Meeting of the Endocrine Society. Program. Chicago, Illinois. June(1977):345, no.565.
- EP021 Kennedy, T.G. "Evidence for a Role for Prostaglandins in the Initiation of Blastocyst Implantation in the Rat." Biology of Reproduction 16 (1977):286-291.
- EP022 Patrick, J.; Fetherston, W.; Vick, H. and Voegelin, R. (Abstract) "Human Fetal Breathing Movements at 34-35 Weeks Gestation." Clinical Research 24(1977):653A.
- EP023 Patrick, J.; Fetherston, W.; Vick, H. and Voegelin, R. (Abstract) "Human Fetal Breathing Movements at 34-35 Weeks' Gestation." Gynecologic Investigation 8,1-2(1977):110, no.174.

- EP024 Phi, L.T.; Moon, Y.S. and Armstrong, D.T. "Effects of Systemic and Intrafollicular Injections of LH, Prostaglandins, and Indomethacin on the Luteinization of Rabbit Graafian Follicles." Prostaglandins 13 (1977):543-552.
- EP025 Phillips, J.M.; Corson, S.L.; Keith, L.; Levinson, C.J. and Yuzpe, A.A. (Editors) Laparoscopy. Baltimore, Maryland: Williams and Wilkins, 1977.
- EP026 Possmayer, F.; Duwe, G. and Hahn, M. "Acyl Specificity of CDP Choline: 1,2-Diacylglycerol Cholinephosphotransferase in Rat Lung." Canadian Journal of Biochemistry 55(1977):609-617.
- EP027 Possmayer, F.; Duwe, G.; Longmore, G.; Metcalfe, L.; Stewart-DeHaan, P.J.; Wong, T.; Harding, P.G.R.; Buchnea, D. and Holub, B. (Abstract) "ACYL Specificity of Cholinephosphotransferase (CPT) and Ethanolamine-phosphotransferase (EPT) in Lung." Canadian Federation of Biological Societies, Programme and Proceedings 20(1977):73, no.290.
- EP028 Possmayer, F.; Duwe, G.; Metcalfe, L.; Stewart-DeHaan, P.J.; Wong, C.; Las Heras, J.; Buchnea, D. and Harding, P.G.R. (Abstract) "Effect of Hydrocortisone Induction of Pulmonary Maturation on Enzymes Related to Phospholipid Metabolism and Marker Enzymes for Subcellular Organelles." American Review of Respiratory Disease 115,4, Part 2(1977):365.
- EP029 Robinson, J.; Armstrong, D.T.; Zamecnik, J.; Moon, Y.S. and Dorrington, J.H. (Abstract) "Interrelationships between Ovarian Levels of Cyclic 3',5'-AMP, Progesterone and Prostaglandins during the Preovulatory Period in the Rat." Journal of Endocrinology [Proceedings of the Society for Endocrinology.] 71(1976):48P-49P.
- EP030 Sanfacon, R.; Possmayer, F. and Harding, P.G.R. "Dexamethasone Treatment of the Guinea Pig Fetus: Its Effects on the Incorporation of ³H-Thymidine into Deoxyribonucleic Acid." American Journal of Obstetrics and Gynecology 127(1977):745-752.
- EP031 Wearing, M.P. "Nostalgia - The Swing Era." London Free Press, January 29, 1977.
- EP032 Wright, V.C. "Evaluating the Cervix." Canadian Family Physician 22 (1976):81-83.
- EP033 Yuzpe, A.A. "Cervical Stenosis in Infertility." Obstetrics-Gynecology Collected Letters, Series 18, January(1977):14.
- EP034 Yuzpe, A.A. (Audiotape) "Immediate Complications of Gynecologic Endoscopy." Audio Education Tapes, 1976.
- EP035 Yuzpe, A.A. (Audiotape) "Laparoscopy - What's New?" Obstetrics and Gynecology - Audio-Digest Foundation 23(1976):no.115.
- EP036 Yuzpe, A.A. "Ovarian Biopsy." In Laparoscopy. Edited by J.M. Phillips. Baltimore, Maryland: Williams and Wilkins, 1977. pp.103-
- EP037 Yuzpe, A.A. "Television in Laparoscopy." In Laparoscopy. Edited by J.M. Phillips. Baltimore, Maryland: Williams and Wilkins, 1977, pp.306-

- EP038 Yuzpe, A.A. and Rioux, J-E.; Loffer, F.D. and Pent, D. "Laparoscopic Tubal Sterilization by the 'Burn Only' Technic." Obstetrics-Gynecology 49(1977):106-109.

Department of Occupational Therapy

- EQ001 Finlay, J.B. and Repo, R.U. "Controlled Impact Testing of Living Articular Cartilage." In Proceedings of the Fourth New England Bio-engineering Conference. Edited by S. Saha. New Haven, Connecticut: Raven Press, 1976. pp.69-71.
- EQ002 Finlay, J.B. and Repo, R.U. "Impact Characteristics of Articular Cartilage." Biomedical Sciences Instrumentation 13(1977):47-50,144-145.
- EQ003 Finlay, J.B. and Repo, R.U. "Instrumentation for Cartilage Impact Studies". Digest of the Eleventh International Conference on Medical and Biological Engineering. Ottawa, Canada. August (1976):68-69.
- EQ004 Fox, A.M. "Psychological Problems of Physically Handicapped Children". British Journal of Hospital Medicine May(1977):479-490.
- EQ005 Gill, T. "O.T. with Adolescents". British Journal of Occupational Therapy 39(1976):222-224.
- EQ006 Hunter, J.A.A. and Finlay, J.B. "Scanning Electron Microscopy of Normal Human Scar Tissue and Keloids." British Journal of Surgery 63 (1976):826-830.
- EQ007 Posthuma, B.W. "A Deprivation Experience." Canadian Journal of Occupational Therapy 43,3(1976):129-130.

Department of Ophthalmology

- ER001 Dyson, C. "A Clinical Study of the Autorefractor, an Automatic Refracting Device". Canadian Journal of Ophthalmology 12(1977):29-33.
- ER002 Dyson, C. (Audio Visual Production) Excision of Ciliary Body Melanomas. Las Vegas, Nevada: American Academy of Ophthalmology and Otolaryngology Annual Meeting, 1976.
- ER003 Dyson, C. (Audio Visual Production) Phakoemulsification and Lens Implantation. London, Ontario: Dearness Home, 1977 and Victoria Hospital, Department of Nursing, 1976.
- ER004 Dyson, C. (Audio Visual Production) Repair of Subluxated Lens Implant. Mont Gabriel, Quebec: International Ophthalmic Microsurgical Group, 1976.
- ER005 Mills, D.W. Review of Becker-Shaffer's Diagnosis and Therapy of the Glaucomas, 4th ed. by A.E. Kolker and J. Hetherington, Jr. St. Louis, Missouri: Mosby, 1976. In Canadian Journal of Ophthalmology 12(1977): 165-166.

Department of Otolaryngology

- ES001 Greenway, R.E. "Management of the Airway: Intubation or Tracheostomy? In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald, T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.141-145.
- ES002 Gullane, P.J.; Ruby, R.R.F.; Rounthwaite, F.J.; Babb, J.W. and Wong, G.L. "The High Jugular Bulb." Journal of Otolaryngology 5(1976): 437-441.
- ES003 Heeneman, H. and Ward, K. "Epiglottic Abscess: Its Occurrence and Management." Journal of Otolaryngology 6(1977):31-36.
- ES004 McClure, J.A.; Lycett, P. and Bicker, G.R. "A Quantitative Rotational Test of Vestibular Function." Journal of Otolaryngology 5(1976):279-288.
- ES005 Rounthwaite, F.J. "Otolaryngological Manpower in Canada." Journal of Otolaryngology 5(1976):263-271.

Department of Paediatrics

- ET001 Advisory Committee on Inborn Errors of Metabolism (Members: Hanley, W.B.; Jenner, M.R.; Khazen, R.S.; Partington, M.W.; Percy, W.J.A.; Rathbun, J.; Webb, J.F.; and Whelan, D.T.) "Phenylketonuria Variants in Ontario." Canadian Medical Association Journal 115(1976):509-512.
- ET002 Binns Smith, M.; Braidwood, J.L.; Hardie, M.J. and Jaco, N.T. "The Application of a Simple, Inexpensive Method for the Assay of Total Thyroxine and a Free Thyroxine Parameter to Neonates." Clinical Biochemistry 10,2(1977):71-73.
- ET003 Boone, J.E. (Chairman) Second Report of the Council of Ontario Faculties of Medicine on Postgraduate Manpower. Toronto, Ontario. July 1976.
- ET004 DeHaan, R.; Patrick, J.; Chess, G.F. and Jaco, N.T. "Definition of Sleep State in the Newborn Infant by Heart Rate Analysis." American Journal of Obstetrics and Gynecology 127(1977):753-758.
- ET005 Donald, L.J. (Abstract) "The Genetic Structure of Canadian Populations." Canadian Journal of Genetics and Cytology 18(1976):557.
- ET006 Donald, L.J. "Genetical Variation of Placental Alkaline Phosphatase in Canada." In Protides of the Biological Fluids. Proceedings of the Twenty-Fourth Colloquium. Oxford, England: Pergamon Press, 1976. pp.95-98.
- ET007 Donald, L.J. "Placental Enzyme Polymorphisms in Canadian Populations. I. Adenylate Kinase and Esterase D." Human Heredity 26(1976):234-238.
- ET008 Donald, L.J. (Abstract) "Rare Phenotypes of Human Placental Alkaline Phosphatase in a London Ontario Population." Canadian Journal of Genetics and Cytology 18(1976):557.

- ET009 Holliday, N.J. and Donald, L.J. (Abstract) "Enzyme Polymorphism in Carabids." Annual Meeting of the Entomological Society of Canada. Program. Toronto, Ontario. October 1976.
- ET010 Soltan, H.C. and Members of the Task Force (Report) Genetic Services. Toronto, Ontario: Ontario Council of Health, 1976.
- ET011 Valentine, G.H. "The Reproductive Counseling Process. Comments Based on Experience." Clinical Pediatrics 16(1977):233-238.

Department of Pathology

- EU001 Anderson, C. and Danylchuk, K.D. (Abstract) "First Order Effects of Environmental Pollutants on Bone Remodeling Activity." Laboratory Investigation 36(1977):26.
- EU002 Anderson, C. and Danylchuk, K.D. "Scanning Electron Microscopic Observations on Bone." Archives of Pathology and Laboratory Medicine 101(1977):19-21.
- EU003 Barr, J.D.; Chauvin, W.J.; Warren, B.A. and Inwood, M.J. (Abstract) "The Need to Filter Cryoprecipitate. A Microscopic Assessment of Filter Deposition." Twelfth Congress of the World Federation of Hemophilia. Program. New York, New York, June 1977.
- EU004 Cherian, G.M. "Biliary Excretion of Cadmium in Rat. II. The Role of Metallothionein in the Hepatobiliary Transport of Cadmium." Journal of Toxicology and Environmental Health 2(1977):955-961.
- EU005 Cherian, M.G. "Studies on the Synthesis and Metabolism of Zinc-Thionein in Rats." Journal of Nutrition 107(1977):965-972.
- EU006 Cherian, M.G.; Goyer, R.A. and Delaquerriere-Richardson, L. "Cadmium-Metallothionein Induced Nephropathy." Toxicology and Applied Pharmacology 38(1976):399-408.
- EU007 Cherian, M.G. and Vostal, J.J. "Biliary Excretion of Cadmium in Rat. I. Dose-Dependent Biliary Excretion and the Form of Cadmium in the Bile." Journal of Toxicology and Environmental Health 2(1977):945-954.
- EU008 Chiu, H.F.; Troster, M.M.; Gilbert, J.J. and Smout, M.S. (Abstract) "The Ultrastructure and Cytogenesis of Malignant Schwannomas." Third Annual Meeting of the Microscopical Society of Canada. Program. Ottawa, Ontario. June(1976):156-157.
- EU009 Chiu, H.F.; Troster, M.M.; Smout, M.S. and Hutcheson, K.D. (Abstract) "Electron Microscopy in the Diagnosis of Malignant Spindle Cell Neoplasms." Third Annual Meeting of the Microscopical Society of Canada. Program. June(1976):158-159.
- EU010 Craddock, V.M. and Frei, J.V. "Induction of Tumours in Intact and Partially Hepatectomized Rats with Ethyl Methanesulphonate." British Journal of Cancer 34(1976):207-209.

- EU011 Frei, J.V. and Lawley, P.D. (Abstract) "Alkylation of DNA of Target Tissues of Mice at Doses of Alkylating Agents which Induce Low Yields of Thymic Lymphomas." Sixty-Eighth Annual Meeting of the American Association for Cancer Research. Proceedings. Denver, Colorado, 18(1977):no.103.
- EU012 Gardner, D.G. "Genetic Disorders Affecting the Dental Pulp." In Oral Facial Genetics. Edited by R.E. Stewart and G.H. Prescott. St. Louis, Missouri: Mosby, 1976. pp.288-312.
- EU013 Gardner, D.G. "Peripheral Ameloblastoma. A Study of 21 Cases, Including 5 Reported as Basal Cell Carcinoma of the Gingiva." Cancer 39(1977): 1625-1633.
- EU014 Gardner, D.G.; Sapp, J.P. and Wysocki, G.P. "Epithelial Cysts of the Jaws." International Pathology Bulletin 17(1976):6-22.
- EU015 Gardner, D.G.; Sapp, J.P. and Wysocki, G.P. (Audio Visual Study Set) Odontogenic Tumours. Ottawa, Ontario: Canadian Tumour Reference Centre, National Cancer Institute, 1977.
- EU016 Goyer, R.A.; Delaquerriere-Richardson, L. and Cherian, M.G. (Abstract) "Renal Effects of EDTA: Repeated Administration During Excessive Exposure to Lead." International Congress on Toxicology. Program. Toronto, Ontario. (1977):13.
- EU017 Goyer, R.A. and Mushak, P. "Lead Toxicity Laboratory Aspects." In Recent Advances in Toxicology. Edited by R.A. Goyer and M. Mehlman. New York, New York: Hemisphere Publishing, 1977. pp.41-71.
- EU018 Haust, M.D. "Electron Microscopy in the Study and Diagnosis of Human Disease." Microscopical Society of Canada Bulletin 3(1976):146-149.
- EU019 Haust, M.D. "Myogenic Foam Cells in Explants of Fatty Dots and Streaks from Rabbit Aorta." Atherosclerosis 26(1977):441-464.
- EU020 Haust, M.D. "The Smooth Muscle of the Arterial Wall." Advances in Experimental Medicine and Biology 57(1975):30-31; 129-133; 157; 159; 269; 279.
- EU021 Haust, M.D. "Sudden Infant Death Syndrome (SIDS) - An Overview of Present Status." University of Western Ontario Medical Journal 46,3(1976):3-9.
- EU022 Haust, M.D. and Gatfield, P.D. (Abstract) "Hepatic Ultrastructure in a Child with Carbamyl Phosphate Synthetase Deficiency, Hyperornithinaemia, Hyperammonaemia and Homocitrullinuria." Archives of Disease in Childhood 50(1975):663.
- EU023 Haust, M.D.; Gordon, B.A. and Hinton, G.G. "Ultrastructure and Peroxidase of Leucocytes in Five Patients with Juvenile Form of Ceroid Lipofuscinoses." Advances in Experimental Medicine and Biology 62(1976):413-427.
- EU024 Haust, M.D.; Las Heras, J. and Harding, P.G. "Fat-Containing Uterine Smooth Muscle Cells in 'Toxemia:' Possible Relevance to Atherosclerosis?" Science 195(1977):1353-1354.

- EU025 Hinton, G.G.; Gordon, B.A. and Haust, M.D. (Abstract) "Clinical Course and Leukocytic Biochemistry and Ultrastructure in Five Girls With Cerebroretinal Degeneration." Canadian Journal of Neurological Sciences 2 (1975):336.
- EU026 Hursh, J.B.; Clarkson, T.W.; Cherian, M.G.; Vostal, J.J. and Vander Mallie, R. "Clearance of Mercury (Hg-¹⁹⁷, Hg-²⁰³) Vapor Inhaled by Human Subjects." Archives of Environmental Health 31(1976):302-309.
- EU027 Kaufmann, J.C.E. "Medical Imagination - A Name Like Yours." University of Western Ontario Medical Journal 47,2(1976):8-10.
- EU028 Kaufmann, J.C.E. and Blume, W.T. (Abstract) "Dendritic Abnormalities in Human Epileptic Neocortex: A Golgi-Cox Study." Twelfth Canadian Congress of Neurological Sciences. Program. Quebec City, Quebec. June(1977):77.
- EU029 Khan, S.P. and Haust, M.D. (Abstract) "Electron Microscopy of Endothelial Cells Cultured from Rabbit Aortae." Microscopical Society of Canada Bulletin 4(1977):38-39.
- EU030 Lach, B. and Haust, M.D. "Evolution of the Intraneuronal Storage Material in Sanfilippo Disease." Seventh International Congress of Neuropathology. Amsterdam, Holland: Excerpta Medica International Congress Series, no.362 (1976):287-290.
- EU031 Lach, B. and Haust, M.D. (Abstract) "Glial and Neuronal Alterations in Hurler, Hunter and Sanfilippo Diseases." Canadian Journal of Neurological Sciences 2(1975):336.
- EU032 MacPherson, C.F.C. and Wallace, A.C. (Abstract) "Concentration of the Anti-Encephalitogenic Spinal Cord Protein (SCP) in Axons." Meeting of the Society for Neuroscience. Program. Toronto, Ontario: November (1976):no.871.
- EU033 Proctor, N.S.F. and Kaufmann, J.C.E. (Abstract) "Tapeworm Cyst Infestation of the Central Nervous System." Eleventh International Congress of the International Academy of Pathology. Program. Washington, D.C. October (1976):204.
- EU034 Ramzy, I. "Benign Schwannoma: Demonstration of Verocay Bodies Using Fine Needle Aspiration." Acta Cytologica 21(1977):316-319.
- EU035 Ramzy, I. (Abstract) "Signet-Ring Stromal Ovarian Tumor Found." Obstetrics and Gynecology News 11,20(1976):39.
- EU036 Ramzy, I. (Abstract) "Signet-Ring Stromal Tumor of Ovary." Acta Cytologica 20(1976):590.
- EU037 Ramzy, I. "Signet-Ring Stromal Tumor of Ovary." Cancer 38(1976):166-172.
- EU038 Ramzy, I. (Abstract) "Signet-Ring Stromal Tumor of Ovary: Histochemical, Light, and Electron Microscopic Study." Oncology Abstracts 1(1977): 161, no.1J744.

- EU039 Ramzy, I. and Bos, C. "Sertoli Cell Tumors of Ovary. Light Microscopic and Ultrastructural Study with Histogenetic Considerations." Cancer 38 (1976):2447-2456.
- EU040 Ramzy, I. and Delaney, M. "Signet-Ring Cell Stromal Tumor of Ovary." Cytologic Appearances of Fine Needle Aspiration Biopsy." Acta Cytologica 21(1977):14-17.
- EU041 Sapp, J.P. "Individual Identification." In Forensic Dental Identification. A Practical Manual. Edited by S.L. Kogon. London, Ontario: University of Western Ontario, 1976. pp.1-7.
- EU042 Shubik, P.; Feldman, R.; Garcia, H. and Warren, B.A. "Vascularization Induced in the Cheek Pouch of the Syrian Hamster by Tumor and Nontumor Substances." Journal of the National Cancer Institute 57(1976):769-774.
- EU043 Trillo, A. and Haust, M.D. "Arterial Elastic Tissue and Collagen in Experimental Poststenotic Dilatation in Dogs." Experimental and Molecular Pathology 23(1975):473-490.
- EU044 Ulan, R.A.; Wallace, A.C.; Lockwood, J.F.B.; Keown, P. and Stiller, C.R. (Abstract) "Morphologic Evidence of Perfusion Injury in Machine Preserved Kidney." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):79-80, no.205.
- EU045 Van Hove Holdrinet, M.; Braun, H.E.; Frank, R.; Stopps, G.J.; Smout, M.S. and McWade, J.W. "Organochlorine Residues in Human Adipose Tissue and Milk from Ontario Residents, 1969-1974." Canadian Journal of Public Health 68(1977):74-80.
- EU046 Waldes-Dapena, M.A.; Nissim, J.E.; Arey, J.B.; Godleski, J.; Schaaf, H.D. and Haust, M.D. "Yellow Pulmonary Hyaline Membranes." Journal of Pediatrics 89(1976):129-130.
- EU047 Warren, B.A. (Abstract) "The Changes in Endothelial Cells Induced by Atheroemboli." Ninth World Conference of the European Society for Microcirculation. Program. Antwerp, Belgium. July(1976):255.
- EU048 Warren, B.A. "Some Aspects of Blood Borne Tumour Emboli Associated with Thrombosis." Zeitschrift fur Krebsforschung und Klinische Onkologie 87(1976):1-15.
- EU049 Warren, B.A. and Chauvin, W.J. (Abstract) "Scanning Electron Microscopy of Exfoliated Cells in Sputa from Epidermoid Carcinomas." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):54, no.216.
- EU050 Warren, B.A. and Chauvin, W.J. (Abstract) "Transmission and Scanning Electron Microscopy of Renal Adenocarcinomas." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):74, no.183.
- EU051 Warren, B.A.; Chauvin, W.J. and Jeynes, B.J. "The Induction of Arterial Thrombosis by Injected Atheromatous Material." Microscopical Society of Canada Bulletin 4(1977).

- EU052 Warren, B.A.; Chauvin, W.J. and Philips, J. "Blood Borne Tumor Emboli and their Adherence to Vessel Walls." International Workshop on Cancer Invasion and Metastasis: Biologic Mechanisms and Therapy. Proceedings. New York, New York, (1976):101-104.
- EU053 Warren, B.A. and Lytton, D.G. "The Effects and Morphology of Athero-embolism in Limb Arteries: An Experimental Study." Pathology 8(1976): 231-245.
- EU054 Warren, B.A. and Shubik, P. (Abstract) "The Microcirculation of Melanomas." Federation Proceedings 36(1977):1330, no.5625.
- EU055 Warren, B.A.; Shubik, P. and Feldman, R. "Changes in the Microcirculation Melanomas with Growth." Microscopical Society of Canada Bulletin 4(1977).

Department of Pharmacology

- EV001 Blum, K.; Hamilton, M.G.; Meyer, E.K.; Hirst, M. and Marshall, A. (Letter) "Isoquinoline Alkaloids as Possible Regulators of Alcohol Addiction." Lancet 1(1977):799-800.
- EV002 Blum, K.; Meyer, E.; Wallace, J.E.; Schwertner, H.A.; Futterman, S.; Hirst, M.; Marshall, A. and Hamilton, M. (Abstract) "Effects of Intra-cerebral Administration of Salsolinol on Nociceptive Stimulation, Narcotic Antagonism and Morphine Analgesia in Mice." Sixth Annual Meeting of the Society for Neuroscience. Neuroscience Abstracts 2, Pt. 2(1976):862, no. 1241.
- EV003 Brands, B.; Hirst, M. and Gowdey, C.W. "Duration of Analgesia in Mice after Heroin by Two Testing Methods." Canadian Journal of Physiology and Pharmacology 54(1976):381-385.
- EV004 Freeman, D.J. and Philp, R.B. "Changes in Blood Enzyme Activity and Hematology of Rats with Decompression Sickness." Aviation, Space, and Environmental Medicine 6(1976):945-949.
- EV005 Hamilton, M.G. and Hirst, M. "Effects of Salsolinol on Smooth Muscle Responses to Various Biogenic Amines." European Journal of Pharmacology 39(1976):237-243.
- EV006 Hamilton, M.G.; Marshall, A.M.; Blum, K. and Hirst, M. (Abstract) "Effect of Salsolinol on the Field-Stimulated Guinea Pig Ileum." Pharmacologist 18,2(1976):132, no.102.
- EV007 Hirst, M.; Hamilton, M.G. and Marshall, A.M. "10. Pharmacology of Isoquinoline Alkaloids and Ethanol Interactions." In Alcohol and Opiates, Neurochemical and Behavioral Mechanisms. Edited by K. Blum. New York, New York: Academic Press, 1977. pp.167-187.
- EV008 Hirst, M.; Thornhill, J.A. and Gowdey, C.W. (Abstract) "Inhibition of Morphine-Induced Hyperthermia in Rats by Naloxone Pretreatment." Pharmacologist 18,2(1976):177, no.358.

- EV009 Jones, T.R.; Hamilton, J.T. and Lefcoe, N.M. (Abstract) "Adrenergic and Non-Adrenergic Inhibitory Responses of the Laryngeal and Bronchial Ends of the Guinea Pig Trachea to Electrical Stimulation in Vitro." Meeting of the Canadian Tuberculosis and Respiratory Disease Association. Program. Vancouver, British Columbia, June 1976.
- EV010 Jones, T.R.; Hamilton, J.T. and Lefcoe, N.M. (Abstract) "Inhibitory Responses of the Guinea Pig Trachea to Electrical (Field) Stimulation in Vitro." Meeting of the Canadian Tuberculosis and Respiratory Disease Association. Program. Moncton, New Brunswick. June 1977.
- EV011 Kurek, E.J. and Colhoun, E.H. (Abstract) "In Vivo Studies on the Toxicity of Choline Mustard Aziridinium Ion." International Congress on Toxicology. Program. (1977):40.
- EV012 Marshall, A. and Hirst, M. "Potentiation of Ethanol Narcosis by Dopamine- and L-DOPA-Based Isoquinolines." Experientia 32(1976):201-203.
- EV013 Okwuasaba, F.K. and Hamilton, J.T. "The Effect of Metoclopramide on Intestinal Muscle Responses and the Peristaltic Reflex in Vitro." Canadian Journal of Physiology and Pharmacology 54(1976):393-404.
- EV014 Okwuasaba, F.K.; Hamilton, J.T. and Cook, M.A. "Antagonism by Methylxanthines of Purine Nucleotide- and Dipyridamole-Induced Inhibition of Peristaltic Activity of the Guinea Pig Ileum." European Journal of Pharmacology 43(1977):181-194.
- EV015 Rylett, B.J. and Colhoun, E.H. (Abstract) "Evidence for, and Limitations on, the Acetylation of Choline Mustard Aziridinium Ion by Choline Acetyltransferase." Federation Proceedings 36,3(1977):980, no.3750.
- EV016 Smith, R.W.; Hirst, M. and Gowdey, C.W. "Duration of Analgesia and Hyperactivity in Mice after Single Injections (s.c. and i.v.) of Heroin." Archives Internationales de Pharmacodynamie et de Therapie 221(1976):266-273.
- EV017 Thornhill, J.A.; Hirst, M. and Gowdey, C.W. "Changes in Diurnal Temperature and Feeding Patterns of Rats during Repeated Injections of Heroin and Withdrawal." Archives Internationales de Pharmacodynamie et de Therapie 223(1976):120-131.
- EV018 Thornhill, J.A.; Hirst, M. and Gowdey, C.W. (Abstract) "Temperature and Feeding Changes in Rats following Repeated Amphetamine Administration and during Withdrawal." Canadian Federation of Biological Societies. Programme and Proceedings 20(1977):144, no.574.

Department of Physiology

- EW001 Assaf, S.Y. and Mogenson, G.J. "Evidence that the Preoptic Region is a Receptive Site for the Dipsogenic Effects of Angiotensin II." Pharmacology Biochemistry and Behavior 5(1976):697-699.

- EW002 Avrith, D. and Mogenson, G.J. (Abstract) "Reversible Hyperphagia and Obesity Following Intracerebral Microinjections of Colchicine into the Ventromedial Hypothalamus of the Rat." Sixth Annual Meeting of the Society for Neuroscience. Neuroscience Abstracts 2(1976):296, no.418.
- EW003 Brimley, C.C. and Mogenson, G.J. (Abstract) "Deficits in Ingestive Behavior after 6-Hydroxydopamine Administration to the A9 and A10 Dopamine Pathways." Canada Physiology 8(1977):31.
- EW004 Brooks, V.B.; Hore, J.; Meyer-Lohmann, J. and Vilis, T. (Abstract) "Cerebellar Pathway for Precentral Responses following Arm Perturbations." Sixth Annual Meeting of the Society for Neuroscience. Neuroscience Abstracts 11(1976):516, no. 744.
- EW005 Calaresu, F.R.; Ciriello, J. and Mogenson, G.J. "Identification of Pathways Mediating Cardiovascular Responses Elicited by Stimulation of the Septum in the Rat." Journal of Physiology 260(1976):515-530.
- EW006 Chivers-Wilson, J. and Vilis, T. (Abstract) "Effects of Fastigial Nuclear Cooling on Biceps EMG to Sinusoidal Stretch in Cebus Monkeys." Canadian Federation of Biological Societies. Programme and Proceedings. 20(1977):49, no.194.
- EW007 Ciriello, J. and Calaresu, F.R. (Abstract) "Descending Pathways from Hypothalamic Sites Producing Cardiovascular Responses in the Cat." Canada Physiology 8(1977):32.
- EW008 Cook, J.R. and Wiesendanger, M. "Input from Trigeminal Cutaneous Afferents to Neurones of the Inferior Olive in Rats." Experimental Brain Research 26(1976):193-202.
- EW009 Cooke, J.D. and Eastman, M.J. "Long-Loop Reflexes in the Tranquilized Monkey." Experimental Brain Research 27(1977):491-500.
- EW010 Cooke, J.D. and Eastman, M.J. (Abstract) "Long-Loop Reflexes in the Tranquilized Monkey." Sixth Annual Meeting of the Society for Neuroscience. Neuroscience Abstracts 2(1976):539, no.770.
- EW011 Cooke, J.D. and Thomas, J.S. "Forearm Oscillation during Cooling of the Dentate Nucleus in the Monkey." Canadian Journal of Physiology and Pharmacology 54(1976):430-436.
- EW012 Evans, C.A. and Kennedy, T.G. (Abstract) "Evidence for a Role for Prostaglandins in the Initiation of Blastocyst Implantation in the Hamster." Canadian Federation of Biological Societies. Programme and Proceedings. 20(1977):168, no.669.
- EW013 Faiers, A.A.; Calaresu, F.R. and Mogenson, G.J. "Factors Affecting Cardiovascular Responses to Stimulation of Hypothalamus in the Rat." Experimental Neurology 51(1976):188-206.
- EW014 Faiers, A.A. and Mogenson, G.J. "Electrophysiological Identification of Neurons in Locus Coeruleus." Experimental Neurology 53(1976):254-266.

- EW015 Goff, A.K. and Armstrong, D.T. (Abstract) "Stimulatory Actions of Gonadotropins on Cyclic AMP and Progesterone Production by Isolated Rat Granulosa Cells." Fifty-Ninth Annual Meeting of the Endocrine Society. Program. Chicago, Illinois. June (1977):170, no.228.
- EW016 Hore, J.; Meyer-Lohmann, J. and Brooks, V.B. "Basal Ganglia Cooling Disables Learned Arm Movements of Monkeys in the Absence of Visual Guidance." Science 195(1977):584-586.
- EW017 Hore, J. and Vilis, T. (Abstract) "Initiation of Monkey Arm Movements during Globus Pallidus Cooling." Sixth Annual Meeting of the Society for Neuroscience. Neuroscience Abstracts. 11(1976):63, no.86.
- EW018 Katz, Y.; Leung, P.C.K. and Armstrong, D.T. (Abstract) "Ability of Testosterone to Restore Estradiol-17 β Production in Prepubertal, PMS-Treated Rats, following LH Administration." Fifty-Ninth Annual Meeting of the Endocrine Society. Program. Chicago, Illinois, June(1977): 245, no.377.
- EW019 Kline, R.L. and Yeung, K.-Y. (Abstract) "Changes in Coronary Blood Flow (CBF) during Stimulation of Somatic Nerves in Dogs." Canada Physiology 8(1977):42.
- EW020 Kline, R.L.; Yeung, K.-Y. and Calaresu, F.R. (Abstract) "Effect on Blood Pressure and Heart Rate of Electrical Stimulation of Acupuncture and Non-Meridian Points in Anesthetized Rabbits." Sixth Annual Meeting of the Society for Neuroscience. Neuroscience Abstracts 11(1976): 76, no.104.
- EW021 Kucharczyk, J.; Assaf, S.Y. and Mogenson, G.J. "Differential Effects of Brain Lesions on Thirst Induced by the Administration of Angiotensin-II to the Preoptic Region, Subfornical Organ and Anterior Third Ventricle." Brain Research 108(1976):327-337.
- EW022 Kucharczyk, J. and Mogenson, G.J. "The Role of Mesencephalic Structures in Thirst Induced by Centrally Administered Angiotensin II." Brain Research 126(1977):225-241.
- EW023 Kucharczyk, J. and Mogenson, G.J. "Specific Deficits in Regulatory Drinking following Electrolytic Lesions of the Lateral Hypothalamus." Experimental Neurology 53(1976):371-385.
- EW024 McKelvie, R.S.; Kline, R.L. and Heimbecker, R.O. (Abstract) "Reactive Hyperemia (RH) in Aorto-Coronary Saphenous Vein Grafts." Annals of the Royal College of Physicians and Surgeons of Canada 10(1977):37, no.33.
- EW025 Mercer, P.F. "University of Western Ontario." Canada Physiology 8,2 (1977):85-87.
- EW026 Mogenson, G.J. "Septal-Hypothalamic Relationships." In The Septal Nuclei. Edited by J.F. Defrance. (Advances in Behavioral Biology, Vol. 20). New York, New York: Plenum Press, 1976. pp.149-184.

- EW027 Mogenson, G.J. and Avrith, D. (Abstract) "The Use of Colchicine as a Reversible Blocker of Neural Activity to Investigate the Control of Food Intake and Body Weight Regulation." Proceedings of the International Symposium on Food Intake and Chemical Senses (1976):19.
- EW028 Mogenson, G. and Cioe, J. "Central Reinforcement - A Bridge between Brain Function and Behavior." In Handbook of Operant Behavior. Edited by W.K. Honig, and J.E.R. Staddon. Englewood Cliffs, New Jersey: Prentice-Hall, 1977. pp.570-595.
- EW029 Mogenson, G.J. and Faiers, A.A. "Do Olfactory Inputs Reach the Substantia Nigra?" In Brain-Stimulation Reward. Edited by A. Wauquier and E.T. Rolls. Amsterdam, The Netherlands: North-Holland, 1976. pp.579-585.
- EW030 Patrick, J.E. "The Role of Fetoscopy in Prenatal Diagnosis." Clinical Obstetrics and Gynaecology 19(December 1976):909-917.
- EW031 Robertson, A.; Kucharczyk, J. and Mogenson, G.J. "Subfornical Organ: A Site of Brain Self-Stimulation." Brain Research 114(1976):511-516.
- EW032 Rolls, E.T.; Burton, M.J.; Judge, S.J.; Mogenson, G.J.; Mora, F. and Sanghera, M. (Abstract) "Comparison of Activity of Neurones in the Inferotemporal Cortex and Region of the Substantia Nigra with the Activity of Neurones in the Lateral Hypothalamus during Feeding." Sixth Annual Meeting of the Society for Neuroscience. Program. Toronto, Ontario. 2(1976):294, no.415.
- EW033 Seguin, J.J. and Chapman, C.E. (Abstract) "The Effects of Electro-Acupuncture and Group II Muscle Afferent Activity on Responses to Noxious Heat in the Cat." Canada Physiology 8(1977):63.
- EW034 Soper, B.D. and Weick, R.F. (Abstract) "Neural Control of Pulsatile LH Release in the Ovariectomized Rat." Canadian Federation of Biological Societies. Programme and Proceedings. 20(1977):68, no.269.
- EW035 Stella, A.; Calaresu, F. and Zanchetti, A. "Neural Factors Contributing to Renin Release during Reduction in Renal Perfusion Pressure and Blood Flow in Rats." Clinical Science and Molecular Medicine 51(1976):453-461.
- EW036 Szucs, A.J.; Pomerantz, D.K. and Armstrong, D.T. (Abstract) "Estrogen Production in the Prepubertal Male Rat." Canadian Federation of Biological Societies. Programme and Proceedings. 20(1977):102, no.405.
- EW037 Takigawa, M.; Robertson, A. and Mogenson, G.J. (Abstract) "Brain Stimulation Reward Associated with Stimulation of the Supracallosal Bundle." Sixth Annual Meeting of the Society for Neuroscience. Neuroscience Abstracts 2(1976):506, no.732.
- EW038 Thomas, M.R.; Ulrichsen, R.F. and Calaresu, F.R. "Function of Lateral Reticular Nucleus in Central Cardiovascular Regulation in the Cat." American Journal of Physiology 232,2(1977):H157-H166.

- EW039 Vilis, T. and Cooke, J.D. "Modulation of the Functional Stretch Reflex by the Segmental Reflex Pathway." Experimental Brain Research 25(1976): 247-254.
- EW040 Vilis, T. and Hore, J. (Abstract) "Analysis of Cerebellar Intention Tremor in the Monkey." Sixth Annual Meeting of the Society of Neuroscience. Neuroscience Abstracts 11(1976):118, no.173.
- EW041 Vilis, T.; Hore, J.; Meyer-Lohmann, J. and Brooks, V.B. "Dual Nature of the Precentral Responses to Limb Perturbations Revealed by Cerebellar Cooling." Brain Research 117(1976):336-340.
- EW042 Weick, R.F. "Effects of Estrogen and Progesterone on Pulsatile Discharges of Luteinizing Hormone in the Ovariectomized Rat." Canadian Journal of Physiology and Pharmacology 55(1977):226-233.
- EW043 Wiesendanger, M.; Rüegg, D.G. and Lucier, G.E. "The Influence from Stretch Receptors on Cortical Cells of Area 3a and 4 in Monkey." Experimental Brain Research 26, Suppl.1(1976):437-439.

Department of Psychiatry

- EX001 Betts, T.A.; Merskey, H. and Pond, D.A. "Psychiatry." In A Textbook of Epilepsy. Edited by J. Laidlaw and A. Richens. London, England: Churchill-Livingston, 1976. pp.145-184.
- EX002 Galbraith, D.A. and Turner, T.J. "A Case Report. Gilles de la Tourette Syndrome." In Gilles de la Tourette's Syndrome. Vol. 1: International Registry. Edited by F. Abuzahab, Sr. and F. Anderson. St. Paul, Minnesota: Mason, 1976. pp.99-102.
- EX003 Goldberg, B. "Child Psychiatry Text Authored by Two Pioneers in Field." Review of Psychological Problems of the Child and his Family by P.D. Steinhauer and Q. Rae-Grant. Toronto, Ontario: Macmillan, 1977. In Medical Post 13,13(1977):14.
- EX004 Kral, V.A. "On the Etiology of Senile Dementia." Psychiatric Journal of the University of Ottawa (1977):31-33.
- EX005 MacPherson, C.F.C. and Armstrong, H. "Prevention of Experimental Allergic Encephalitis in Lewis Rats by Rat and Bovine Spinal Cord Proteins." Nature 266(1977):459-461.
- EX006 MacPherson, C.F.C.; Wallace, A.C. and Weir, K.G. (Abstract) "Human Spinal Cord Protein (HSCP): Partial Characterization and Localization." Twelfth Canadian Congress of Neurological Sciences. Program. Quebec City, Quebec. June 1977.
- EX007 MacPherson, C.F.C. and Weir, K. (Abstract) "Human SCP: Characterization and Localization." Eighth Annual Meeting of the American Society for Neurochemistry. Program. Denver, Colorado. March(1977):no.137.

- EX008 Merskey, H. "Bio-Feedback: Opening Discussant's Remarks after Professor Neal Miller's Talk." Journal of Psychosomatic Research 20 (1976):367.
- EX009 Merskey, H. "Pain" In Encyclopedic Handbook of Psychology. Edited by S. Krauss. Boston, Massachusetts: Butterworths, 1976. pp.359-360.
- EX010 Merskey, H. "The Status of Pain." In Modern Trends in Psychosomatic Medicine, Vol. 3. Edited by O.W. Hill. Boston, Massachusetts: Butterworths, 1976. pp.166-186.
- EX011 Waring, E.M. "Beginning Psychiatric Training Syndrome: Cross-Cultural Prevalence Study." In Yearbook of Psychiatry and Applied Mental Health. Edited by F.J. Braceland. Chicago, Illinois: Yearbook Medical Publishers, 1977. pp.168-169.
- EX012 Waring, E.M.; Weisz, G.M. and Bailey, S.I. "Predictive Factors in the Treatment of Low Back Pain by Surgical Intervention. In Advances in Pain Research and Therapy. Vol. 1. Edited by J.J. Bonica and D. Albe-Fessard. New York, New York: Raven Press, 1976. pp.939-942.
- EX013 Zarfes, D.E.; Lovering, B.I. and Robbins, H.J. "Personnel Training." In Mental Retardation and Developmental Disabilities. An Annual Review. Edited by J. Wortis. New York, New York: Brunner/Mazel, 1976. pp. 299-312.

Department of Surgery

- EY001 Calne, R.Y.; Wall, W.J.P. and Wilkins, D.C. "Inhibition of Rejection of Canine Renal Allografts by Treatment with Sulphated Polysaccharides, Promethazine Hydrochloride and Azathioprine." IRCS Medical Science: Immunology and Allergy; Kidneys and Urinary System; Pharmacology; Surgery and Transplantation 3(1975):556.
- EY002 Carroll, S.E. "End-to-Side Anastomoses of Vein Grafts to Arteries." Canadian Journal of Surgery 19(1976):311.
- EY003 Carroll, S.E. (Abstract) "Extraperitoneal Iliac Endarterectomy Versus Femoral to Femoral By-Pass." Meeting of the Canadian Association of Clinical Surgeons - Eastern Division. Program. June 1977.
- EY004 Duff, J.H. "Cardiovascular and Metabolic Changes in Shock and Sepsis. Review of Changing Concepts." European Surgical Research 9(1977): 155-165.
- EY005 Duff, J.H. "Cardiovascular Changes in Sepsis." Heart and Lung: Journal of Critical Care 5(1976):772-776.
- EY006 Duff, J.H. "Sepsis in Critically Ill Patients - Pathophysiology and Management." In Management of the Critically Ill Medical/Surgical Patient. Edited by W.J. Sibbald; T.R. Lobb and R.L. Holliday. London, Ontario: University of Western Ontario, 1976. pp.151-156.

- EY007 Holliday, R.L. "Intra-Abdominal Sepsis." Heart and Lung: Journal of Critical Care 5(1976):781-783.
- EY008 McFarlane, R.M. and Mayer, J.R. "Digital Nerve Grafts with the Lateral Antebrachial Cutaneous Nerve." Journal of Hand Surgery 1(1976):169-173.
- EY009 McFarlane, R.M.; Mayer, J.R. and Hugill, J.V. "Further Observations on the Anatomy of the Ulnar Nerve at the Wrist." Hand; Journal of the British Society for Surgery of the Hand 8(1976):115-117.
- EY010 McLachlin, A.D.; Olsson, L.S. and Pitt, D.F. "Anterior Anastomosis of the Rectosigmoid Colon: An Experimental Study." Surgery 80(1976):306-311.
- EY011 Paul, M.; Tew, W.L. and Holliday, R.L. "Perforated Peptic Ulcer in Pregnancy with Survival of Mother and Child: Case Report and Review of the Literature." Canadian Journal of Surgery 19(1976):427-429.
- EY012 Pentlow, B.D.; Wall, W.J.; Kostakis, A.J.; Baker, P.G.; Smith, D.P.; Underwood, J. and Calne, R.Y. "24 Hour Preservation of Warm Ischaemically Injured Canine Kidneys with Hypertonic Citrate Solution: The Importance of Mannitol." IRCS Medical Science: Biomedical Technology; Kidneys and Urinary System; Pathology; Pharmacology; Surgery and Transplantation 4(1976):560.
- EY013 Rorabeck, C.H. and Bobechko, W.P. "Acute Dislocation of the Patella with Osteochondral Fracture. A Review of Eighteen Cases." Journal of Bone and Joint Surgery 58B(1976):237-240.
- EY014 Rorabeck, C.H. and MacNab, I. "Anterior Tibial-Compartment Syndrome Complicating Fractures of the Shaft of the Tibia." Journal of Bone and Joint Surgery 58A(1976):549-550.
- EY015 Wall, W.J.; Calne, R.Y.; Herbertson, B.M.; Baker, P.G.; Smith, D.P.; Underwood, J.; Kostakis, A. and Williams, R. "Simple Hypothermic Preservation for Transporting Human Livers Long Distances for Transplantation." Transplantation 23(1977):210-216.
- EY016 Wall, W.J.; Calne, R.Y. and Wilkins, D.C. "Apparent Antagonism by Heparin of the Immunosuppressant Effect of Carrageenan, Azathioprine and Promethazine in Canine Renal Allografts." IRCS Medical Science: Immunology and Allergy; Kidneys and Urinary System; Pharmacology; Surgery and Transplantation 4(1976):119.

Department of Therapeutic Radiology

- EZ001 Balogh, J.M. and Koch, C.J. (Abstract) "The Repair of Sublethal Damage by EMT6 Cells in the Exponential and Plateau Phases of Growth." Twenty-Fifth Annual Meeting of the Radiation Research Society. Program. San Juan, Puerto Rico. May(1977):106, no.Gg-11.

- EZ002 Bergsagel, D.E.; Bailey, A.J.; Langley, G.R.; MacDonald, N.; White, D.F. and Miller, A.B. (Abstract) "Treatment of Plasma Cell Myeloma with Prednisone (P) and Sequential, Alternating, or Concurrent Schedules of Melphalan (M), Cyclophosphamide (CTX) and Carmustine (BCNU)." Sixty-Fourth Annual Meeting of the American Association for Cancer Research. Program. Denver, Colorado 18(1977):329, no.C-249.
- EZ003 Biaglow, J.E.; Jacobson, B. and Koch, C. "The Catalytic Effect of the Carcinogen '4-Nitroquinoline-N-Oxide' on the Oxidation of Vitamin C." Biochemical and Biophysical Research Communications 70(1976):1316-1323.
- EZ004 Dawson, D.J. (Abstract) "Conversion of Fractional Depth Doses from one Target-Surface Distance to Another for High Energy X-Rays." Physics in Medicine and Biology 22(1977):572.
- EZ005 Franko, A.J. and Sutherland, R.M. (Abstract) "Oxygen Diffusion in Control of Growth and Radiation Response of Multicell Spheroids." Twenty-Fourth Annual Meeting of the Radiation Research Society. Program. San Francisco, California. June(1976):106, no.Hi-5.
- EZ006 Gerig, L.H.; MacDonald, J.C.F. and Dawson, D.J. (Abstract) "The Use of a Hand-Held Programmable Calculator for Dose Calculations in Radiotherapy." Physics in Canada 33(1977):16, no.CD7.
- EZ007 Harris, J.W.; Power, J.A. and Koch, C.J. "Synergistic Chemical Radiosensitization of Hypoxic Mammalian Cells." International Journal of Radiation Oncology, Biology, Physics 1(1976):487-489.
- EZ008 Haynes, M.J. and Inch, W.R. "Effect of Metronidazole on the Radio-curability and Oxygenation of the C₃HBA Tumor." Radiation Research 68(1976):184-189.
- EZ009 Haynes, M.J. and Inch, W.R. "Some Pharmacological Aspects of Multiple Dose Metronidazole in C3H/HeJ Mice." International Journal of Radiation Oncology, Biology, Physics 1(1976):1125-1131.
- EZ010 Inch, W.R.; McCredie, J.A.; Haynes, M.J. and Sutherland, R.M. "Effect of Metronidazole on the C3H/HeJ Mouse and Growth of the C3HBA Mammary Adenocarcinoma." Growth 41(1977):15-23.
- EZ011 Koch, C.J. (Abstract) "Characterization of Fast Split-Dose Repair Found in Plateau-Phase Mammalian Cells." Twenty-Fourth Annual Meeting of the Radiation Research Society. Program. San Francisco, California. June (1976):87, no.GK-2.
- EZ012 Koch, C.J. "Diode or Transistor Makes Fully Linear Thermometer." Electronics 47(1976):110-112.
- EZ013 Koch, C.J. and Burki, H.J. "Enhancement of X-Ray Induced Potentially Lethal Damage by Low Temperature Storage of Mammalian Cells." British Journal of Radiology 50(1977):290-293.
- EZ014 McCredie, J.A. (Editor) Basic Surgery. New York, New York: Macmillan, 1977.

- EZ015 McCredie, J.A. "Immunologic Considerations of Large Volume Radiotherapy." Journal of the Canadian Association of Radiologists 27(1976):264-272.
- EZ016 McCredie, J.A. "Management of the Contralateral Breast." In Breast Cancer Management - Early and Late. Edited by B.A. Stoll. Chicago, Illinois: Year Book Medical, 1977. pp.203-211.
- EZ017 McCredie, J.A. and Inch, W.R. "Cancer: Spread and Principles of Treatment." In Basic Surgery. Edited by J.A. McCredie. New York, New York: Macmillan, 1977. pp.141-157.
- EZ018 McCredie, J.A.; Inch, W. and Sutherland, R. "Effect of Splenectomy and Radiotherapy on Peripheral Blood Lymphocytes and Prognosis in Hodgkin's Disease." In Neoplasm Immunity: Mechanisms. Edited by R.G. Crispen. Chicago, Illinois: University of Illinois, 1976. pp.145-147.
- EZ019 McCredie, J.A. and Watson, T.A. "Skin and Soft Tissues." In Basic Surgery. Edited by J.A. McCredie. New York, New York: Macmillan, 1977. pp.435-444.
- EZ020 MacDonald, H.R. (Abstract) "Effect of Hyperthermia on Cytotoxic T Lymphocyte Function." Sixty-Eighth Annual Meeting of the American Association for Cancer Research. Program. Denver, Colorado. May(1977): 162, no.645.
- EZ021 MacDonald, H.R. and Koch, C.J. (Abstract) "Role of Aerobic and Anaerobic Energy Metabolism in T-Cell Mediated Cytolysis." Federation Proceedings 36(1977):1325, no.5592.
- EZ022 MacDonald, H.R.; Sutherland, R.M. and Howell, R.L. (Abstract) "Infiltration and Cytotoxicity Mediated by Alloimmune Lymphocytes in an In Vitro Solid Tumor Model." Third European Immunology Meeting. Program. Copenhagen, Denmark. August(1976):89, no.P185.
- EZ023 McDonald, J.C.F.; Dawson, D.J. and Drew, J.F. (Abstract) "Physical Measurements on the Therac-6/Neptune Linear Accelerator." Physics in Medicine and Biology 22(1977):567.
- EZ024 Plata, F.; MacDonald, H.R. and Engers, H.D. "Characterization of Effector Lymphocytes Associated with Immunity to Murine Sarcoma Virus (MSV) Induced Tumors. I. Physical Properties of Cytolytic T Lymphocytes Generated In Vitro and of their Immediate Progenitors." Journal of Immunology 117(1976):52-58.
- EZ025 Plata, F.; MacDonald, H.R. and Sordat, B. "Studies on the Distribution and Origin of Cytolytic T Lymphocytes Present in Mice Bearing Moloney Murine Sarcoma Virus (MSV)-Induced Tumors." Bibliotheca Haematologica 43(1976):274-277.
- EZ026 Sridhar, R. (Abstract) "Selective Toxicity of 2-Deoxy-D-Glucose towards Hypoxic Mammalian Cells." Federation Proceedings 36(1977):336, no.355.
- EZ027 Sridhar, R.; Koch, C. and Sutherland, R. "Cytotoxicity of Two Nitroimidazole Radiosensitizers in an In Vitro Tumor Model." International Journal of Radiation Oncology, Biology, Physics 1(1976):1149-1157.

- EZ028 Sridhar, R.; Stroude, E.C. and Inch, W.R. (Abstract) "Cytotoxic Effect of Glucose Analogues on V-79 Multicell Spheroids." Sixty-Eighth Annual Meeting of the American Association for Cancer Research. Program. Denver, Colorado 18(1977):64, no.257.
- EZ029 Sutherland, R.M.; Howell, R.L. and Stroude, E.C. (Abstract) "Radiation Responses of EMT6 Tumor Cells Grown In Vitro as Multicell Spheroids." Twenty-Fourth Annual Meeting of the Radiation Research Society. Program. San Francisco, California. June(1976):106, no.Hi-4.
- EZ030 Sutherland, R.M.; MacDonald, H.R. and Howell, R.L. "Multicellular Spheroids: A New Model Target for In Vitro Studies of Immunity to Solid Tumor Allografts: Brief Communication." Journal of the National Cancer Institute 58(1977):1849-1852.
- EZ031 Watson, T.A. "Clinical Experience with High-Energy Photons." In High-Energy Photons and Electrons. Edited by S. Kramer. New York, New York: Wiley, 1976. pp.103-114.
- EZ032 Zeiss, G.D.; Meath, W.J.; MacDonald, J.C.F. and Dawson, D.J. "Accurate Evaluation of Stopping and Straggling Mean Excitation Energies for N, O, H₂, O₂, NO, NH₃, H₂O and N₂O Using Dipole Oscillator Strength Distributions. A Test of the Validity of Bragg's Rule." Radiation Research 70(1977):284-303.

FACULTY OF NURSING

- F001 Brown, L.S. A Descriptive Analysis of Parents Expecting Their First Child and Their Reasons for Attendance or Non-Attendance at Pre-Natal Classes. London, Ontario: University of Western Ontario, 1976.
- F002 Flaherty, M.J. "Change in Nursing: A Professional Imperative." CUNSA Newsletter April(1977):2-4.
- F003 Flaherty, M.J. "Nursing and the Health Field Concept." Ontario Occupational Health Nurses Association Newsletter. September(1976):8-22.
- F004 Griffin, A.E. Follow-Up Study of the Colleges of Applied Art and Technology. Toronto, Ontario: Ontario Advisory Council on Senior Citizens, 1977.
- F005 Griffin, A.E. Policies Affecting the Life-Styles of Residents in Homes for the Aged, Charitable Institutions and Private Nursing Homes in Ontario. Toronto, Ontario: Ontario Advisory Council on Senior Citizens, 1977.
- F006 Griffin, A.E. Report of a Study of the College of Applied Art and Technology in Ontario. Toronto, Ontario: Ontario Advisory Council on Senior Citizens, 1976.
- F007 Griffin, A.E. Report to the Council of the Canadian Association on Gerontology. Toronto, Ontario: Ontario Advisory Council on Senior Citizens, 1976.
- F008 McGee, M. "A Précis of the Address Given on October 22 at the Workshop of the Ontario Occupational Health Nurses' Association." Ontario Occupational Health Nurses' Association Newsletter. September(1976):23-26.

For joint authors see the Name Index at the end of this volume.

FACULTY OF DENTISTRYDepartment of Oral Medicine

- GA001 Brooke, R.I. (Audiotape) The Many Faces of Candida. Ottawa, Ontario: Medifacts Ltd., 1977.
- GA002 Brooke, R.I. and Sapp, J.P. "Herpetiform Ulceration." Oral Surgery, Oral Medicine, Oral Pathology 42(1976):182-188.
- GA003 Johnson, R.H.; Rozanis, J.; Schofield, I.D.F. and Haq, M.S. (Abstract) "Clinical and Photographic Evaluation of Plaque Control by Spiramycin." Journal of Dental Reserach 56, Special Issue A(1977):A184, no.564.
- GA004 Moore, D.S. "Preventive Dentistry in Action in a Dental College." Journal of Dental Education 40(1976):349-354.
- GA005 Reid, J.A. "A Simple Device for Testing the Accuracy of X-Ray Timers." Journal of the Canadian Association of Radiologists 28(1977):82-83.
- GA006 Reid, J.A. and Ruprecht, A. "Duplication of Radiographs: Simple Methods to be Used in the Dental Office." Dental Journal 43(1977):278-280.
- GA007 Reid, J.A. and Ruprecht, A. Fundamentals of Oral Radiology. Toronto, Ontario: Scholar House Publishers, 1976.
- GA008 Reid, J.A. and Ruprecht, A. "Simple Methods of Accommodating to Fast Dental X-Ray Films." Dental Journal 42(1976):447-452.
- GA009 Reid, J.A.; Ruprecht, A. and Stoneman, D. Practical Radiation Physics. A Preclinical Programme for Dental Students. Saskatoon, Saskatchewan: University of Saskatchewan Press, 1976.
- GA010 Reid, J.A. and Stephens, R.G. "Paralleling Radiographic Technique without the Long Cone." Dental Journal 43(1977):289-292.
- GA011 Ruprecht, A. and Reid J.A. (Editorial) "Radiographs and Third-Party Carriers." Dental Journal 43(1977):256.
- GA012 Sapp, J.P. and Brooke, R.I. "Intranuclear Inclusion Bodies in Recurrent Aphthous Ulcers with a Herpetiform Pattern." Oral Surgery, Oral Medicine, Oral Pathology 43(1977):416-421.
- GA013 Stephens, R.G.; Kogon, S.L.; Reid, J.A. and Ruprecht, A. "A Comparison of Panorex and Intraoral Surveys for Routine Dental Radiography." Dental Journal 43(1977):281-286.

Department of Oral Surgery

- GB001 Rozanis, J.; Johnson, R.H.; Haq, M.S. and Schofield, I.D.F. (Abstract) "Spiramycin as a Dental Plaque Control Agent." Journal of Dental Research 56, Special Issue A(1977):no.16.
- GB002 Rozanis, J.; Schofield, I.D.F. and Warren, B.A. "Is Dry Socket Preventable?" Dental Journal 43(1977):233-236.

Department of Paediatric & Community Dentistry

- GC001 Banting, D.W. and Ellen, R.P. "Carious Lesions on the Roots of Teeth: A Review for the General Practitioner." Dental Journal 42(1976):496-504.
- GC002 Dunn, W.J. "Practice What You Preach, New Dentist!" Dental Student 55,2(1976):53.
- GC003 Enlow, D.H.; Harvold, E.P.; Latham, R.A.; Moffett, B.C.; Christiansen, R.L. and Hausch, H.G. "Research on Control of Craniofacial Morphogenesis: An NIDR State-of-the-Art Workshop." American Journal of Orthodontics 71 (1977):509-530.
- GC004 Hunter, W.S. and Dijkman, D.J. "The Timing of Height and Weight Deficits in Twins Discordant for Cleft of the Lip and/or Palate." Cleft Palate Journal 14(1977):158-166.
- GC005 Latham, R.A. "An Appraisal of the Early Maxillary Growth Mechanism." In Factors Affecting the Growth of the Midface. Edited by J.A. McNamara, Jr. Ann Arbor, Michigan: Center for Human Growth and Development, 1976. pp.43-59.
- GC006 Latham, R.A.; Kusy, R.P. and Georgiade, N.G. "An Extraorally Activated Expansion Appliance for Cleft Palate Infants." Cleft Palate Journal 13 (1976):253-261.
- GC007 Wright, G.Z.; Banting, D.W. and Feasby, W.H. "Dorchester Dental Flossing Study. Preliminary Report." Caries Research 10(1976):379-385.

For joint authors see the Name Index at the end of this volume.

SCHOOL OF BUSINESS ADMINISTRATION

- H001 Archibald, T.R. "Some Factors Related to the Depreciation Switchback". Financial Analysts Journal 32,5(1976):67-73.
- H002 Cawsey, T.F.; Hodgson, R.C.; Lord, R.J.A. and Peach, D.A. Managing the Political/Regulatory Environment: A Study of Business Response to the A.I.B.. London, Ontario: University of Western Ontario, School of Business Administration, Research and Publication Division, 1976.
- H003 Cooper, R.G. and Little, B. "Determinants of Market Research Expenditures for New Industrial Products". Industrial Market Management 6,2 (1977):103-112.
- H004 Crookell, H. and Killing, J.P. The Importance of Design and Product Development in the Canadian Appliance Industry. Winnipeg, Manitoba: Design Canada, 1977.
- H005 Haehling von Lanzener, C. "Better Risk Management through Better Insurance Buying Decisions". California Management Review 19,3(1977): 90-95.
- H006 Haehling von Lanzener, C. and Wright, D.D. "Optimizing Claims Fluctuations Reserves". Management Science 23,11(1977):1199-1207.
- H007 Howard, J.H. "The Management of Stress". Bank Canadian National Monthly Letter 7,11(1976):unpaged.
- H008 Howard, J.H. and Boyd, M. "New Managerial Attitudes on Geographic Mobility." Canadian Personnel and Industrial Relations Journal 23,4 (1976):34, 36-42.
- H009 Howard, J.H.; Cunningham, D.A.; Rechnitzer, P.A. and Goode, R.C. "Stress in the Job and Career of a Dentist". Journal of the American Dental Association 93(1976):630-636.
- H010 Howard, J.H.; Kets de Vries, M.F.R. and Zalesnik, A. "Stress Reactions in Organizations: Syndromes, Causes and Consequences". Behavioral Science 22,3(1977):151-162.
- H011 Lecraw, D.J. "Empirical Tests for X-Inefficiency: A Note". Kylos 30(1977):Fasc. 1.
- H012 McDougall, W.J. (Editor) The Role of the Voluntary Trustee. London, Ontario: University of Western Ontario, School of Business Administration, Research and Publication Division, 1976.
- H013 Pearce, M.R.; Burgoyne, D.G. and Wilkinson, S.R. An Introduction to Business Decision-Making: Text and Cases. London, Ontario: University of Western Ontario, School of Business Administration, Research and Publication Division, 1976.
- H014 Rechnitzer, P.A.; Howard, J.H. and Cunningham, D.A. "A Study of Executives with Type A Behaviour". Journal of Human Stress 2(1976): 24-31.

- H015 Shaw, D.C. and Archibald, T.R. The Canadian Securities Market: A Framework and a Plan. (The Management of Change in the Canadian Securities Industry. Study Eight.) Toronto, Ontario: Toronto Stock Exchange, 1977.
- H016 Wood, A.R. and Elgie, R.J. Early Adoption of Manufacturing Innovation. London, Ontario: University of Western Ontario, School of Business Administration, Research and Publications Division, 1976.
- H017 Wood, D.A. and Erskine, J.A. "Strategies in Canonical Correlation with Application to Behavioral Data". Educational and Psychological Measurement 36(1976):861-878.
- H018 Wrigley, L. Conglomerate Growth in Canada. Ottawa, Ontario: Royal Commission on Corporate Concentration, 1976.

For joint authors see the Name Index at the end of this volume.

SCHOOL OF JOURNALISM

- J001 Bambrick, F.K. "Give CBC Another \$250 Million and Get It Out of Commercial Broadcasting." Broadcaster 36,4(1977):12,15.
- J002 Bambrick, F.K. "In-Transit Radio Marvel of the 1920s." London Free Press, 21 May 1977. p.30.
- J003 Bambrick, F.K. (Audiotapes) The Kenneth Bambrick Collection. Ottawa, Ontario: National Archives, 1977.
- F.K. Bambrick's collection contains over 60 hours of historical interviews with pioneer Canadian broadcasters.
- J004 Wilson, C.E. Teeming Invective: 300 Years of Vigorous Journalism. London, Ontario: University of Western Ontario, Western Journalism Library, 1976.
- J005 Wilson, C.E. and Howard, D.M. (Compilers) "Public Perceptions of News Media Accuracy." Research Report II. London, Ontario: University of Western Ontario, School of Journalism, 1977.

For joint authors see the Name Index at the end of this volume.

FACULTY OF LAW

- K001 Arnold, B.J. "The Taxation of Corporations and their Shareholders." In Materials on Canadian Income Tax. 3rd ed. Edited by W. Grover and F. Iacobucci. Toronto, Ontario: Richard De Boo, 1976. pp.623-740.
- K002 Arnold, B.J. "United Kingdom Stock Relief: LIFO Revisited." Canadian Tax Journal 24(1976):363-371.
- K003 Brandt, G.J. "Judicial Restraint and Emergency Power: The Anti-Inflation Act Reference." University of Western Ontario Law Review 15(1976):191-211.
- K004 Forbes, R.E. "Judicial Review of the Private Decision Maker: The Domestic Tribunal." University of Western Ontario Law Review 15(1976):123-149.
- K005 Fridman, G.H.L. "A Dispute that Never Was?" Chitty's Law Journal 25(1977):51-54.
- K006 Fridman, G.H.L. "The Doctrine of the 'Family Car': A Study in Contrasts." Texas Tech Law Review 8(1976):323-360.
- K007 Fridman, G.H.L. The Law of Contract in Canada. Toronto, Ontario: Carswell, 1976.
- K008 Fridman, G.H.L. "The Modern Law as to Trespassers." Chitty's Law Journal 25(1977):28-34.
- K009 Fridman, G.H.L. "Negligent Misrepresentation: A Postscript." McGill Law Journal 22(1976):649-657.
- K010 Fridman, G.H.L. Review of Natural Law by G.W.F. Hagel. Translated by T.M. Knox. Introduction by H.B. Acton. Pittsburg, Pennsylvania: University of Pennsylvania Press, 1975. In Canadian Bar Review 54(1976):494-496.
- K011 Fridman, G.H.L. Review of The Philosophy and Method of the Law. Revised ed. by Edgar Bodenheimer. Cambridge, Massachusetts: Harvard University Press, 1974. In Canadian Bar Review 54(1976):488-494.
- K012 Fridman, G.H.L. "The Theory and Practice of Frustration." Chitty's Law Journal 25(1977):37-43.
- K013 Gorsky, M.R. "An Examination of Some of the Recent Amendments to the Ontario Landlord and Tenant Act." Dalhousie Law Journal 3(1976-77):663-705.
- K014 Gorsky, M.R. "Extension of Mandatory Time Limits in Labor Arbitration under the Ontario Labor Relations Act." Chitty's Law Journal 24(1976):253-288.
- K015 Holland, W.H. "Proprietary Rights in Matrimonial Property." In Canadian Family Law, Cases and Materials. Edited by S. Fodden. (Canadian Legal Casebook Series) Toronto, Ontario: Butterworths, 1977. pp.9.2-9.63.

- K016 Hunter, I.A. "Age Discrimination Legislation in Ontario." Municipal World 87(1977):9-10,19-20.
- K017 Hunter, I.A. "Civil Actions for Discrimination." Canadian Bar Review 55(1977):106-130.
- K018 Hunter, I.A. "Human Rights Legislation in Canada: Its Origin, Development and Interpretation." University of Western Ontario Law Review 15(1976):21-58.
- K019 Hunter, I.A. "Strange Passion in the County Court." Canadian Theatre Review 13(1977):24-31.
- K020 Johnston, D.L. Canadian Securities Regulation. Toronto, Ontario: Butterworths, 1977.
- K021 Johnston, D.L. "Regina v. Littler (1974), 65 D.L.R. (3d) 443 and 467 (Quebec Court of Appeal)." Canadian Business Law Journal 2(1977):234-244.
- K022 Johnston, D.L. "Statutes-Interpretation-Securities-Insider Trading Liability Legislation - Green v. The Charterhouse Group Canada Ltd." University of Western Ontario Law Review 15(1976):239-244.
- K023 McLaren, R.H. and Welling, B. "Interface: Business and Government." Business Quarterly 42,1(1977):6-8,85.
- K024 McLaren, R.H. and Welling, B.L. Legislative Research Project [for] the Canadian Manufacturers Association. Toronto, Ontario: Canadian Manufacturers Association, 1976.
- K025 Oosterhoff, A.H. (Associate Editor) Canadian Criminal Cases (Second Series), vols. 27-33. Agincourt, Ontario: Canada Law Book, 1976-77.
- K026 Oosterhoff, A.H. (Associate Editor) Dominion Law Reports (Third Series), vols. 63-73. Agincourt, Ontario: Canada Law Book, 1976-77.
- K027 Oosterhoff, A.H. (Associate Editor) Ontario Reports (Second Series), vols. 11-14. Agincourt, Ontario: Canada Law Book, 1976-77.
- K028 Oosterhoff, A.H. "Reform of the Law of Succession in Ontario." Estates and Trusts Quarterly 3(1976-77):191-285.
- K029 Rayner, W.B. (Associate Editor) Canadian Criminal Cases (Second Series), vols. 27-33. Agincourt, Ontario: Canada Law Book, 1976-77.
- K030 Rayner, W.B. (Associate Editor) Dominion Law Reports (Third Series), vols. 63-73. Agincourt, Ontario: Canada Law Book, 1976-77.
- K031 Rayner, W.B. (Associate Editor) Ontario Reports (Second Series), vols. 11-14. Agincourt, Ontario: Canada Law Book, 1976-77.
- K032 Rayner, W.B. and McLaren, R.H. Falconbridge on Mortgages. 4th ed. Agincourt, Ontario: Canada Law Book, 1977.

- K033 Roberts, R.J. "Corporate Opportunity and Confidential Information: Birds of a Feather That Flock Together or Canaeros of a Different Colour?" Canadian Patent Reporter (Second Series) 28(1977):68-113.
- K034 Solomon, R. "The Evolution of Non-Medical Opiate Use in Canada - Part II: 1930-1970." Drug Forum 6(1977-78):1-25.
- K035 Solomon, R. and Madison, T. "The Evolution of Non-Medical Opiate Use in Canada - Part I: 1870-1929." Drug Forum 5(1976-77):237-265.
- K036 Solomon, R.; Versteeg, H.; Collins, J.; Walley, V. and Versteeg, J. International Patterns of Illicit Heroin Distribution: A Summary of the Findings of the Summer Project. London, Ontario: University of Western Ontario, Faculty of Law, 1976.
- K037 Ward, D.A.; Smith, D.W.; Arnold, B.J. Current Tax Planning. Toronto, Ontario: Carswell, 1977.
- K038 Welling, B.L. "Immovables in the Conflict of Laws." In Falconbridge on Mortgages. 4th ed. by W.B. Rayner and R.H. McLaren. Agincourt, Ontario: Canada Law Book, 1977. pp.813-870.
- K039 Zinn, J. "Let the Buyer Still Beware!" Business Quarterly 42,2(1977): 54-58.

For joint authors see the Name Index at the end of this volume.

SCHOOL OF LIBRARY AND INFORMATION SCIENCE

- L001 Banting, B.W. Guide to the SLIS Library. London, Ontario: University of Western Ontario, School of Library and Information Science, 1977.
- L002 Cameron, W.J. "Information Science in Canada." CAIS Newsletter no. 10(1976):Appendix 1-10.
- L003 Cameron, W.J. "Short-Title Cataloging and Automated Bibliographical Control of Pre-1800 Books." Eighteenth-Century English Books Considered by Librarians and Booksellers Bibliographers and Collectors; Proceedings of the Association of College and Research Libraries, Rare Books and Manuscripts Section Conference. San Francisco, California, June 1975. pp. 15-21.
- L004 Cameron, W.J. "Transfer of Credits and Degree Recognition Inter-institutionally and Internationally." COMLA Newsletter 1,14(1976): 35-37.
- L005 Dolan, F.T. (Issue Editor) Canadian Journal of Information Science 2,1(1977).
- L006 Dolan, F.T. "A Factor-Analytic Study of the Attitudes of S.L.I.S. Graduates Towards the Media." Expression 1,1(1976):43-52.
- L007 Dolan, F.T. "A Universal Index Generator." Proceedings of the Fifth Canadian Conference on Information Science 5,1(1977):1-11.
- L008 Hotimsky, C.M. "Russian for Librarians". Seminar Workshop II on Russian for Non-Academic Uses and the Academic Curriculum. Selected Papers. Bryn Maur College, Bryn Maur, Pennsylvania. June 1976. pp. 80-82.
- L009 Hotimsky, C.M. "Slavic Studies and Librarianship in North America." Seminar Workshop II on Russian for Non-Academic Uses and Academic Curriculum. Selected Papers. Bryn Mawr College, Bryn Mawr, Pennsylvania. June 1976. pp. 75-79.
- L010 Michell, B.G. "Indicating the Truth of Propositions: A Pragmatic Function of Sentence Adverbs." Papers from the Twelfth Regional Meeting Chicago Linguistic Society. Chicago, Illinois. April 1976. pp. 495-505.
- L011 Neill, S.D. "Annual Review of Canadian Libraries." Canadian Library Progress 3(1975):1-28.
- L012 Neill, S.D. Review of The Librarian: Selections from the Column of that Name by E.L. Pearson. Edited by J.B. Durnell and N.D. Stevens. Metuchen, New Jersey: Scarecrow Press, 1976. In Library Quarterly 47,2(1977):189-191.
- L013 Neill, S.D. Review of Quiet World: A Librarian's Crusade for Destiny by L. Shores. Hamden, Connecticut: Linnet Books, 1975. In Library Quarterly 46,2(1976):216-217.

- L014 Prodrick, G. "Social Science Libraries in New Section". Feliciter 23,1(1977):8.
- L015 Prodrick, R.G. "The Utilization of Public Library Personnel in Canada". In A Canadian Public Library Inquiry Research Design. Toronto, Ontario: University of Toronto, Faculty of Library Science, Centre for Research in Librarianship, 1976. pp. 99-123.
- L016 Robertson, A.; Bennett, H. and White, J. (Compilers) Select Bibliography of Education in the Commonwealth Caribbean 1940-1975. Mona, Jamaica: University of the West Indies, School of Education, 1976.
- L017 Schulte-Albert, H.G. Review of Robert von Mohl als Leiter der Tübinger Universitätsbibliothek (1836-1844) by P.M. Ehrle. Tübingen, Germany: Mohr, 1975. In Library Quarterly 47,1(1977):76-77.
- L018 Svenonius, E. "The Integration of Information Science into the Library School Curriculum at the University of Western Ontario." SIG/ED Newsletter February(1977):4-5.
- L019 Svenonius, E. "Metcalf and the Principles of Specific Entry." In The Variety of Librarianship. Edited by W.B. Rayward. Sydney, Australia: Library Association of Australia, 1976. pp. 171-189.
- L020 Svenonius, E. Review of Classification and Indexing in Science by B.C. Vickery. 3rd ed. Reading, Massachusetts: Butterworths, 1975. In Library Quarterly 46,3(1976):340-341.
- L021 Svenonius, E. Review of Conceptual Basis of the Classification of Knowledge: Proceedings of the Ottawa Conference on the Conceptual Basis of the Classification of Knowledge, October 1st to 5th, 1971. Edited by J.A. Wojciechowski. München, Germany: Verlag Dokumentation, 1974. In International Classification 3,1(1976):40-42.
- L022 Tague, J.; Watters, C. and Shepherd, M. "The Distribution of Community Information: The Role of the Computer and Computer-Based Networks." ASLIB Proceedings 28,9(1976):314-321.

FACULTY OF PHYSICAL EDUCATION

- M001 Aitken, E.J.; Carron, A.V. and Bailey, D.A. (Abstract) "An Analysis of Individual Differences in Female Strength 7 to 15 Years." In Abstracts of Research Papers, 1976 AAPHER Convention. Washington, D.C.: American Alliance for Health, Physical Education, and Recreation, 1976. p.99.
- M002 Alain, C. and Buckolz, E. "Mémoire Motrice a Court Terme: Le Code de la Position Kinesthésique." Canadian Journal of Applied Sport Sciences 1(1976):233-240.
- M003 Ball, J.R. and Carron, A.V. "The Influence of Team Cohesion and Participation Motivation Upon Performance Success in Intercollegiate Ice Hockey." Canadian Journal of Applied Sport Sciences 1(1976):271-275.
- M004 Barney, R.K. "America's European Heritage: Ascetic Ideal and Leisure Pleasure as Reflected in the Social and Economic Fabric of the British Colonies." In H.I.S.P.A. 6th International Congress, International Association for the History of Physical Education and Sport. Preprint. Dartford, England. April 11-16, 1977. pp.297-314.
- M005 Barney, R.K. (Abstract) "The Ancient Greek Pentathlon Jump: An Historical Reinterpretation of Its Mysteries and Mechanics." In Physical Activity and Human Well-Being. Abstracts of the International Congress of Physical Activity Sciences, 1976. Edited by C. Bard; M. Fleury and E. Waghorn. Quebec, Quebec: Congres International des Sciences de l'Activite Physique, 1976. p.365.
- M006 Barney, R.K. "German Turners in 19th Century North America: Their Role in Exercise Expression and Physical Education Legislation." In The History, the Evolution and Diffusion of Sports and Games in Different Cultures. Edited by R. Renson; P.P. de Nayer and M. Ostyn. Brussels, Belgium: Bestuur voor de Lichamelijke Opvoeding, de Sport en het Openluchtlevens, 1976. pp.423-434.
- M007 Barney, R.K. (Abstract) "Of Rails and Red Stockings: The Extension of Baseball to the American West." North American Society for Sport History. Proceedings (1976):35.
- M008 Barney, R.K. Review of "An Analysis of Attitudes Toward Women's Athletics in the U.S. in the Early Twentieth Century" by L. Robicheaux. Canadian Journal of History of Sport and Physical Education 6,1(1975):12-22. In Journal of Sport History 4(1977):104.
- M009 Barney, R.K. Review of "Canadian Influence on American Collegiate Sports" by G. Lewis. Canadian Journal of History of Sport and Physical Education 1,2(1970):7-17. In Journal of Sport History 3(1976):284.
- M010 Barney, R.K. Review of Olympic Gold: Canada's Winners of the Summer Games by F. Cosentino and G. Leyshon. Toronto, Ontario: Holt, Rinehart and Winston, 1975. In Canadian Book Review Annual 1975. Edited by D. Tudor; N. Tudor and L. Biesenthal. Toronto, Ontario: Peter Martin, 1976. pp.93-94.

- M011 Barney, R.K. Review of "The Rise of Basketball For Women in Colleges" by R.A. Smith. Canadian Journal of History of Sport and Physical Education 1,2(1970):18-36. In Journal of Sport History 3(1976):284-285.
- M012 Barney, R.K. Review of Selections of Historical Literatures and Illustrations of Physical Activities in Chinese Culture by W.-C. Wu. Taipei, Taiwan: Wen-Chung Wu, 1975. In Canadian Journal of History of Sport and Physical Education 7,2(1976):76-78.
- M013 Barney, R.K. Review of "The Struggle For Control of Amateur Track and Field in the United States" by E. Danoff. Canadian Journal of History of Sport and Physical Education 6,1(1975):43-85. In Journal of Sport History 4(1977):103.
- M014 Buckolz, E. and Gervais, F. "Effects of Verbal Mediation With and Without Feedback on Time Estimation." Journal of Human Movement Studies 2(1976):255-270.
- M015 Carron, A.V. "Motivating the Athlete." Motor Skills: Theory into Practice 1,1(1976):23-34.
- M016 Carron, A.V. and Bennett, B.B. (Abstract) "Coaction Effects as a Function of Habit Strength Hierarchy." In Abstracts of Research Papers, 1976 AAHPER Convention. Washington, D.C.: American Alliance for Health, Physical Education, and Recreation, 1976. p.46.
- M017 Carron, A.V. and Bennett, B.B. "The Effects of Initial Habit Strength Differences Upon Performance in a Coaction Situation." Journal of Motor Behavior 8(1976):297-304.
- M018 Carron, A.V.; Stothart, J.P. and Bailey, D.A. (Abstract) "An Analysis of the Growth and Developmental Components of Strength in Adolescent Males." Canadian Journal of Applied Sport Sciences 1(1976):290-291.
- M019 Chelladurai, P. and Carron, A.V. "A Reanalysis of Formal Structure in Sport." Canadian Journal of Applied Sport Sciences 2(1977):9-14.
- M020 Chelladurai, P. and L'Heureux, W.J. "Punishment Training in Physical Education and Sports." Canadian Association for Health, Physical Education and Recreation. Journal 43,4(1977):19-20,29-34.
- M021 Chelladurai, P. and Yuhasz, M.S. "Agility Performance and Consistency." Canadian Journal of Applied Sport Sciences 2(1977):37-41.
- M022 Cunningham, D.A. "The Estimation of Aerobic Energy Expenditure in Physical Activity." Science Terrapin 3,1(1976):5-10.
- M023 Cunningham, D.A.; MacFarlane van Waterschoot, B.; Paterson, D.H.; Lefcoe, M. and Sangal, S.P. (Abstract) "Stability of Maximal Oxygen Uptake Measurement in Children." Children and Exercise: VIIIth European Congress of Work Physiology. Program. Bisham Abbey, Marlow, England, 1976.

- M024 Cunningham, D.A.; Telford, P. and Swart, G.T. "The Cardiopulmonary Capacities of Young Hockey Players: Age 10." Medicine and Science in Sports 8(1976):23-25.
- M025 Davis, G.M.; Eynon, R.B. and Cunningham, D.A. (Abstract) "Effect of Varied Rest Periods During Interval Training Upon Aerobic and Anaerobic Fitness." Medicine and Science in Sports 9(1977):58-59.
- M026 Donnelly, P. Review of Beyond Boredom and Anxiety: The Experience of Play in Work and Games by M. Csikszentmihalyi. San Francisco, California: Jossey-Bass, 1975. In Quest monograph 26(1976):139-141.
- M027 Donnelly, P. Review of Sports in America by J.A. Michener. New York, New York: Random House, 1976. In Quest monograph 27(1977):132-134.
- M028 Donnelly, P. "Vertigo in America: A Social Comment." Quest monograph 27(1977):106-113.
- M029 Eynon, R.B. "Improving University Swimming." Swim 3,27(1976):16.
- M030 Eynon, R.B.; Green, H.; Houston, M.; Sale, D.; Thoden, J. and Thompson, J. "Physiology of Exercise and Training: Module VI." In National Coaching Development Program. Background Papers. Instructor's Supplement. Level II. Toronto, Ontario: Ministry of Culture and Recreation, Sports and Fitness Division, 1976. pp.179-294.
- M031 Eynon, R.B.; Green, H.; Houston, M.; Sale, D.; Thoden, J. and Thompson, J. "Physiology of Exercise and Training: Module VI." In National Coaching Development Program. Instructor's Manual. Level 2. Toronto, Ontario: Ministry of Culture and Recreation, Sports and Fitness Division, 1976. pp.307-411.
- M032 Fairs, J.R. "Making Practice Perfect: The Key to Skill Building in Racket Sports." Ontario Physical and Health Education Association. Journal 3,1(1977):27-35.
- M033 Fairs, J.R. "Sociocultural Control of the Body in Western Society: An Ethicoeconomic Interpretation." Canadian Journal of History of Sport and Physical Education 7,2(1976):1-25.
- M034 Hill, J.S. "Health Education and Attitude Change." Canadian Association for Health, Physical Education and Recreation. Journal 43,5(1977):22-27.
- M035 Leyshon, G.A. "Coaching Certification and the High Schools." Coaching Association of Canada. Bulletin no.16(1977):5,14.
- M036 Leyshon, G.A. "How Did the Soviets Do It?" Coaching Association of Canada. Bulletin no.17(1977):14-15.
- M037 Leyshon, G.A. Review of Shape Up by V. Sanders. Toronto, Ontario: McGraw-Hill Ryerson, 1975. In Canadian Book Review Annual 1975. Edited by D. Tudor; N. Tudor and L. Biesenthal. Toronto, Ontario: Peter Martin, 1976. p.96.

- M038 Leyshon, G.A. "Scot Mountain Climb Beats Crowded Cities." London Free Press, 11 December 1976. p.64.
- M039 Loy, J.W. and Donnelly, P. "Need For Stimulation as a Factor in Sport Involvement." In The Humanistic and Mental Health Aspects of Sports, Exercise and Recreation. Edited by T.T. Craig. Chicago, Illinois: American Medical Association, 1976. pp.80-89.
- M040 McCrimmon, D.R.; Cunningham, D.A.; Rechnitzer, P.A. and Griffiths, J. "Effect of Training on Plasma Catecholamines in Post Myocardial Infarction Patients." Medicine and Science in Sports 8(1976):152-156.
- M041 Meier, K.V. (Associate Editor) Journal of the Philosophy of Sport 2-3 (1975-76).
- M042 Meier, K.V. "The Kinship of the Rope and the Loving Struggle: A Philosophic Analysis of Communication in Mountain Climbing." Journal of the Philosophy of Sport 3(1976):52-64.
- M043 Meier, K.V. "The Pineal Gland, 'Mu', and the 'Body-Subject': Critical Reflections on the Interdependence of Mind and Body." In The Philosophy of Physical Education. 6th ed. Edited by A. Shinobu. (Taiiku Tetsugaku 58). Tokyo, Japan: Shoyo-Shoin, 1977. pp.169-179.
- M044 Milne, D.C.; Carron, A.V. and Mosher, R. "Growth and Development: Module II." In National Coaching Development Program. Instructor's Manual. Level 2. Toronto, Ontario: Ministry of Culture and Recreation, Sports and Fitness Division, 1976. pp.69-110.
- M045 Milne, D.C.; Seefeldt, V. and Reuschlein, P. "Relationship Between Grade, Sex, Race, and Motor Performance in Young Children." Research Quarterly 47(1976):726-730.
- M046 Morrow, D. "The Strathcona Trust in Ontario, 1919-1939." Canadian Journal of History of Sport and Physical Education 8,1(1977):72-90.
- M047 Paterson, D.H. and Cunningham, D.A. "Comparison of Methods to Calculate Cardiac Output Using the CO₂ Rebreathing Method." European Journal of Applied Physiology 35(1976):223-230.
- M048 Rabel, J.C.; Campbell, R.B.; Eynon, R.B. and Thodden, J. Physical Fitness Appraisal of Ontario Swimmers 1974-76. Toronto, Ontario: Canadian Amateur Swimming Association, Ontario Section, 1976.
- M049 Richardson, J.; Carron, A.V.; Marteniuk, R. and Mosher, R. "Motor Learning: Module IV." In National Coaching Development Program. Instructor's Manual. Level 2. Toronto, Ontario: Ministry of Culture and Recreation, Sports and Fitness Division, 1976. pp.185-231.
- M050 Seefeldt, V.; Haubenstricker, J. and Milne, D.C. (Abstract) "Skeletal Age and Body Size as Variables in Motor Performance During Childhood and the Circumpuberal Years." Canadian Journal of Applied Sport Sciences 1(1976):287-288.

- M051 Semotiuk, D. "Basic Football Concepts for Offensive and Defensive Systems." In Proceedings of the Alberta Football Coaches Clinic. Edmonton, Alberta: Alberta Football Coaches Association, 1977.
- M052 Semotiuk, D. "Basic Football Drills." In Proceedings of the Nova Scotia Football Super Clinic. Halifax, Nova Scotia, 1977.
- M053 Semotiuk, D. (Film) Basic Football Skills and Fundamentals. National Coaching Development Program, 1977.
- M054 Semotiuk, D. "Linebacker Skills and Fundamentals." In Proceedings of the Nova Scotia Football Super Clinic. Halifax, Nova Scotia, 1977.
- M055 Semotiuk, D. Review of Childhood in China. Edited by W. Kessen. New Haven, Connecticut: Yale University Press, 1975. In Canadian and International Education 6,1(1977):94-96.
- M056 Semotiuk, D. "The University of Western Ontario 4-4 Defense." In Proceedings of the Alberta Football Coaches Clinic. Edmonton, Alberta: Alberta Football Coaches Association, 1977.
- M057 Semotiuk, D. "The University of Western Ontario 4-4 Defense." In Proceedings of the Nova Scotia Football Super Clinic. Halifax, Nova Scotia, 1977.
- M058 Semotiuk, D. "The University of Western Ontario 4-4 Defense." In Super Clinic '77. Toronto, Ontario: Ontario Amateur Football Association, 1977.
- M059 Semotiuk, D. "The University of Western Ontario Mustang Football Team: Summer Conditioning Program for Football." In Proceedings of the Alberta Football Coaches Clinic. Edmonton, Alberta: Alberta Football Coaches Association, 1977.
- M060 Zeigler, E.F. "Canada at the Crossroads in International Sport." In The Modern Olympics. Edited by P.J. Graham and H. Ueberhorst. Cornwall, New York: Leisure Press, 1976. pp.203-219.
- M061 Zeigler, E.F. "A Disciplinary Approach to Sport." Athletic Administration 11,1(1976):14-15.
- M062 Zeigler, E.F. "Ecology: A Social Force with Implications for the Physical Educator." Physical Educator 33(1976):171-175.
- M063 Zeigler, E.F. "The Future as History in Sport and Physical Education." Canadian Journal of Applied Sport Sciences 2(1977):1-8.
- M064 Zeigler, E.F. (Abstract) "The Future as History in Sport and Physical Education." North American Society for Sport History. Proceedings (1976):2-4.
- M065 Zeigler, E.F. "In Sport, as in All of Life, Man Should be Comprehensible to Man." Journal of the Philosophy of Sport 3(1976):121-126.

- M066 Zeigler, E.F. Philosophical Foundations for Physical, Health and Recreation Education. Translated by S. Yoshizawa. Tokyo, Japan: Baseball Magazine, 1976.
- This is a Japanese publication and this entry has been translated into English for inclusion in this Bibliography.
- M067 Zeigler, E.F. "Philosophical Perspective on the Future of Physical Education and Sport." In Physical Education: A View Toward the Future. Edited by R. Welsh. Saint Louis, Missouri: C.V. Mosby, 1977. pp. 36-61.
- M068 Zeigler, E.F. Physical Education and Sport Philosophy. Series editor J.E. Nixon. (Prentice-Hall Foundations of Physical Education and Sport Series). Englewood Cliffs, New Jersey: Prentice-Hall, 1977.
- M069 Zeigler, E.F. "Reaction to Kleinman's Paper: 'Beyond the Body and the Body of Knowledge'." In Beyond Research - Solutions to Human Problems. Edited by M.G. Scott. (The Academy Papers No. 10). Iowa City, Iowa: The American Academy of Physical Education, 1976. pp. 46-48.
- M070 Zeisner, R.E. "Job Satisfaction and the Volunteer Coach." Coaching Association of Canada. Bulletin no. 15(1977):5,23.
- M071 Zeisner, R.E. "Motivational Dynamics Applied to an Intramural Department Staff." National Intramural-Recreational Sports Association. Journal 1,1(1977):52-53.
- M072 Zeisner, R.E. "Self-Esteem: Implications for Physical Educators." Ontario Physical and Health Education Association. Journal 2,2(1976):30-35.

For joint authors see the Name Index at the end of this volume.

FACULTY OF EDUCATIONDepartment of Business & Computer Studies

- NA001 Howard, M. and Miller, J.W. "Numbers First." Memo 1,2(1977):14.
- NA002 Kaluza, H.J. Accounting Projects and Simulations. Toronto, Ontario: McGraw-Hill Ryerson, 1977.
- NA003 Miller, J.W. "A Balanced View." Forum 3,3(1977):129-130.
- NA004 Miller, J.W. "The Positive Reinforcement of Typewriting Techniques." Memo 1,3(1977)13-14.
- NA005 Miller, J.W. Typing I; Introductory Typewriting. Toronto, Ontario: Pitman, 1977.
- NA006 Westgate, D.G. Office Procedures 2000. Toronto, Ontario: Gage Educational Publishing, 1977.

Department of Educational Administration

- NB001 Hay, G.C. "At What Cost? So What?" Forum 3,3(1977):143-145.

Department of Educational Psychology

- NC001 Hassard, J.H. Perceptions of Ideal Counsellor Role Held by Secondary School Principals in Southwestern Ontario. East Lansing, Michigan: Michigan State University, 1976.
- NC002 Hassard, J.H. Review of Guidance: Program Development and Management 3rd ed. by H.J. Peters and B. Shertzer. Columbus, Ohio: C.E. Merrill, 1974. In Canadian Counsellor 11,2(1977):97-98.
- NC003 O'Brien, T.C. and Shapiro, B.J. "Number Patterns: Discovery Versus Reception Learning." Journal for Research in Mathematics Education 8, 2(1977):83-87.
- NC004 Omotoso, H. and Shapiro, B.J. "Conservation, Seriation, Classification and Mathematics Achievement in Nigerian Children." Psychological Reports 38(1976):1335-1339.
- NC005 Shapiro, B.J. "Curriculum Evaluation: A Reference Shelf for Teachers." History and Social Science Teacher 12,4(1977):243-246.
- NC006 Shapiro, B.J. "The Dean End of Altruism: A Note to Nurses." Nursing Forum 15,4(1976):384-389.
- NC007 Shapiro, B.J. "Piagetian Research - A Note on an African Study." Ontario Mathematics Gazette 15,2(1976):51-52.
- NC008 Slemon, A.G.; Holzwarth, E.J.; Lewis, J. and Sitko, M. "Associative Elaboration and Integration Scales for Evaluating TAT Protocols." Journal of Personality Assessment 40,4(1976):365-369.

- NC009 Thompson, A.P.; Young, R.A.; Keffer, A. and Wigmore, R. (Abstract) "Delivery of Counselling and Psychological Services in a Faculty of Education." National Conference of the Canadian Guidance and Counselling Association. Abstracts. Montreal, Quebec. June 1977. p.59.
- NC010 Winkelstein, E. and Shapiro, B.J. "A Self-Instructional Training Model for Day Care." Teacher Educator 12,1(1976):31-35.
- NC011 Young, R.A. (Abstract) "Career Development: Values, Attitudes and Behaviour of Rural Adolescent Males." National Conference of the Canadian Guidance and Counselling Association. Abstracts. Montreal, Quebec June 1977. p.34.
- NC012 Young, R.A. Review of Practical Counseling in the Schools by G.S. Belkin. Dubuque, Iowa: Brown, 1975. In School Guidance Worker 32,2 (1976):57-58.

Department of English & Modern Languages

- ND001 Boyd, J.A. Review of Invitación al Español: Usted Y Yo and of Invitación al Español: Nuestro Mundi by Z.S. Da Silva. New York, New York: Macmillan, 1975. In Canadian Modern Language Review 32(1976):171-172.
- ND002 Boyd, J.A. Review of Por Fronteras Culturales by A. Papalia, and J. Mendoza. New York, New York: Amsco School Publications, 1976. In Canadian Modern Language Review 33,5(1977):755.
- ND003 Boyd, J.A. "Testing for Mastery." In A Handbook for Teachers of Italian. Edited by A.S. Mollica. New Brunswick, New Jersey: American Association for Teachers of Italian, 1976. pp.138-155.
- ND004 Boyd, J.A. "Value, Function and Methods of Conversation Methods." Canadian Modern Language Review 33,1(1976):69-72.
- ND005 Burdenuk, E.L. An Annotated Guide to Selection Sources for Secondary School Resource Centres. Toronto, Ontario: Ontario Library Association, 1977.
- ND006 Burdenuk, E.L. "The Future of School Libraries in Ontario." Revolting Librarian 4,1(1977):11-13.
- ND007 Burdenuk, E.L. Review of Heritage (6 audiocassettes) narrated by R. Manley. Lincoln, Nebraska: Selection Research, 1976. In Booklist 73,12(1977):914-915.
- ND008 Burdenuk, E.L. and Milburn, G. Review of After Survival by P. Robinson. Toronto, Ontario: Peter Martin, 1977. In Quill & Quire 43,8(1977):37.
- ND009 Dow, H.J. and Dow, M.R. "The Markell Loyalists." Loyalist Gazette 14,1(1976):12-13.
- ND010 Dow, M.R. "In Search of Ourselves." Indirections 2,3 and 4(1977):15-17.

- ND011 Dow, M.R. (Co-editor) My Canada: The Winning Entries from the Canadian Heritage Writing Competition, 1976. London, Ontario: Ministry of Education, Western Ontario Regional Office, 1977.
- ND012 Dow, M.R. "Preface." In My Canada: The Winning Entries from the Canadian Heritage Writing Competition, 1976. London, Ontario: Ministry of Education, Western Ontario Regional Office, 1977. pp.1-3.
- ND013 Dow, M.R. "Thomas Dow-Osgoode Forefather." Pioneer Families of Osgoode Township 3(1977):2.
- ND014 Fennell, D.; Burdenuk, E.L. and Calarco, P. Edmonton Public School Board Survey of Media Services. Toronto, Ontario: Ministry of Education, 1977.
- ND015 Gutteridge, D.G. "Down and Out in Winnipeg." Review of The Bad Life by D. Williamson. Winnipeg, Manitoba: Queenston House, 1975. In Journal of Canadian Fiction 16(1976):176-177.
- ND016 Gutteridge, D.G. "History as Public and Private Metaphor: The Question of Intention." History and Social Science Teacher 11,4(1976): 39-47.
- ND017 Gutteridge, D.G. "How and Why a Poem Means". Indirections 2,1(1976): 33-39.
- ND018 Gutteridge, D.G. "Riel on Riel Still Unreal." Review of The Diaries of Louis Riel. Edited by T. Flanagan. Edmonton, Alberta: Hurtig, 1976. In Books in Canada 6,3(1977):12.
- ND019 Gutteridge, D.G. Review of Hollandsong by M. Jenoff. Ottawa, Ontario: Oberon, 1975; and of Ghost Towns by F. McNeil. Toronto, Ontario: McClelland & Stewart, 1975. In Queen's Quarterly 84,1(1977):128-130.
- ND020 Gutteridge, D.G. Review of The Life of Louis Riel by P. Charlebois. Toronto, Ontario: NC Press, 1975; and of Gabriel Dumont by G. Woodcock. Edmonton, Alberta: Hurtig, 1975. In History and Social Science Teacher 11,4(1976):75-76.
- ND021 Gutteridge, D.G. Tecumseh. Ottawa, Ontario: Oberon, 1976.
- ND022 Robinson, M.L. Review of Voici le Québec by G.R. McConnell. Montreal, Quebec: Aquila, 1975; and of Vie du Québec by G.R. McConnell, G. Taggart, Y. Bouchereau and L.A. Begin. In Canadian Modern Language Review 33,4(1977):557-558.

Department of History & Comparative Education

- NE001 Lawr, D.A. Review of A History of Higher Education in Canada 1663-1960 by R.S. Harris. Toronto, Ontario: University of Toronto Press, 1976. In University of Toronto Bulletin March 25(1977):4.
- NE002 Purdy, J. (Editor) Futures Canada Book Review Supplement 1977.

- NE003 Radcliffe, D.J. "Canadian Education and World Community." In Precepts, Policy and Process: Perspectives on Contemporary Canadian Education. Compiled and edited by H.A. Stevenson and J.D. Wilson. London, Ontario: Alexander, Blake, 1977. pp.115-128.
- NE004 Radcliffe, D.J. Review of Adolescence and Youth in Prospect. Edited by J.P. Hill and F.J. Monks. Guildford, England: I.P.C. Science and Technology Press, 1977. In Futures Canada Book Review Supplement (1977):4-7.
- NE005 Ray, D.W. (Abstract) "An Assessment of the Examiner's Report: Review of National Policies for Education: Canada." CSSE News 3,1(1976):5-7.
- NE006 Ray, D.W. Review of Documentary Study of the Politicization of UNESCO by D.G. Partan. Boston, Massachusetts: American Academy of Arts and Sciences, 1975. In CSSE News 3,2(1976):29.
- NE007 Ray, D.W. Review of Earth: Our Crowded Spaceship by I. Asimov. Toronto, Ontario: Longman, 1974; and of Toward a Politics of the Planet Earth by H. Sprout and M. Sprout. Toronto, Ontario: Van Nostrand, 1973. In History and Social Science Teacher 11,2(1975):66-67.
- NE008 Ray, D.W. Review of The Egalitarian Option: Perspectives on Canadian Education. Edited by A.Z. Kerekes and I.J. Collins. Toronto, Ontario: Compass, 1975. In Comparative Education 12,1(1976):84-85.
- NE009 Ray, D.W. Review of Post Compulsory Education 2 The Way Ahead by E.J. King, C.H. Moor and J.A. Mundy. London, England: Sage, 1975. In Canadian and International Education 5,2(1976):137-138.
- NE010 Ray, D.W. Review of Race and Education Across Cultures. Edited by G.K. Verma and C. Bagley. London, England: Heineman, 1975. In Canadian and International Education 5,2(1976):133-136.
- NE011 Stevenson, H.A. "Knowledge and the Future: Perspectives on Canadian Prospects." McGill Journal of Education 12,1(1977):3-16.
- NE012 Stevenson, H.A. Review of Aspects of a Cybernetic Approach to Global Order: Modeled World Futures by W. Cundiff. Downsview, Ontario: York University, Faculty of Environmental Studies, 1977. In Futures Canada Book Review Supplement (1977):50-52.
- NE013 Stevenson, H.A. Review of The Future: A Guide to Information Sources. Compiled and edited by E.S. Cornish and staff. Washington, District of Columbia: World Future Society, 1977. In Futures Canada Book Review Supplement (1977):49-50.
- NE014 Stevenson, H.A. Review of Year Book of World Problems and Human Potential. Compiled and edited by Union of International Associations/Mankind 2000 Secretariats. Brussels, Belgium: Union of International Associations/Mankind 2000, 1976. In Futures Canada Book Review Supplement (1977):52-54.
- NE015 Stevenson, H.A. "Revising the Colonial Remnant: Devolution, Politics, and Education in the New Canadian Constitution." Canadian Society for the Study of Education 1977 Yearbook 4,June(1977):27-35.

NE016 Stevenson, H.A. "So Much More for the Mind...A Reprieve for Canadian Public Education." In Precepts, Policy and Process: Perspectives on Contemporary Canadian Education. Compiled and edited by H.A. Stevenson and J.D. Wilson. London, Ontario: Alexander, Blake, 1977. pp.305-326.

NE017 Stevenson, H.A. and Wilson, J.D. (Compilers and Editors) Precepts, Policy and Process: Perspectives on Contemporary Canadian Education. London, Ontario: Alexander, Blake, 1977.

Department of Mathematics & Science

NF001 Smith, R.S. Contemporary Mathematics for the Middle Years of Children's Compulsory Schooling. London, Ontario: Board of Education, 1977.

NF002 Smith, R.S. "Interview - Taped Talks with Bob Smith... Edith Biggs". Ontario Mathematics Gazette 15,3(1977):53-54.

NF003 Smith, R.S. "A Model for Individualizing Instruction". Ontario Mathematics Gazette 15,3(1977):8-12.

Department of Philosophy

NG001 Ayim, M.E. "The Marriage and Divorce of Science and Religion in C.S. Pierce's Philosophy." In Philosophy in the Life of a Nation; Papers Contributed to the Bicentennial Symposium of Philosophy. New York, New York: Bicentennial Symposium of Philosophy, 1976. pp.217-223.

NG002 Ayim, M.E. Review of Cuban Women Now: Interviews with Cuban Women by M. Randall. Toronto, Ontario: Canadian Women's Educational Press, 1974. In Canadian and International Education 5,1(1976):128-129.

NG003 Ayim, M.E. Review of Never Done - Three Centuries of Women's Work in Canada by P. Davitt and others. Toronto, Ontario: Canadian Women's Educational Press, 1974. In Canadian and International Education 5,1 (1976):130-131.

NG004 Ayim, M.E. Review of Women at Work - Ontario, 1850-1930. Edited by J. Acton, P. Goldsmith and B. Sheppard. Toronto, Ontario: Canadian Women's Educational Press, 1974. In Canadian and International Education 5,1(1976):131-133.

NG005 Ayim, M.E. Review of Women in the Canadian Mosaic. Edited by G. Matheson. Toronto, Ontario: Peter Martin, 1976. In Canadian and International Education 6,1(1977):87-90.

NG006 Emerson, G.J. "A Brief Study of Factors Related to Success in Practice Teaching". Interact 22(1977):2-5.

NG007 Emerson, G.J. "Competition in the Schools." Proceedings of the Canadian Society for Studies in Education. Conference. Fredericton, New Brunswick. June 1977.

- NG008 Emerson, G.J. "Factors Related to Enlarged Perspectives among the Students of an Ontario Teacher's College". Canadian Journal of Education/Revue canadienne de l'education 2,2(1977):45-64.
- NG009 McPeck, J.E. "Can J.P. White's Categories of Activity Support a Compulsory Curriculum?" Proceedings of the Thirty-third Annual Philosophy of Education Society Conference. Nashville, Tennessee. April 1977.
- NG010 O'Leary, P.T. "Peirce's First Property of Belief." Transactions of the Charles S. Peirce Society 12,3(1976):284-290.
- NG011 Sanders, J.T. and McPeck, J.E. "Theory Into Practice or Vice Versa? Comments on an Educational Antimony". Journal of Educational Thought 10,3(1976):188-193.

Department of Physical & Health Education

- NH001 Paterson, W. "The Group Action Process". OPHEA 2,2(1976):22-25.
- NH002 Paterson, W. "A Rationale for an Individualized Program in Physical Education". OPHEA 3,1(1977):36-40.
- NH003 West, N.W. "Comments on the 'Action' Editorials". CAHPER Journal 43,2 (1976):26.

Department of Social Science

- NJ001 Brown, J.A. "Intercultural Understanding". McGill Journal of Education 11,2(1976):190-197.
- NJ002 Clark, R.J.; van Manen, M. and Milburn, G. "A Case Study in Canadian Curriculum Materials Analysis". Canadian Journal of Education 2,1(1977):65-72.
- NJ003 Lambert, G.R. Review of Aristotle's School: A Study of a Greek Educational Institution by J.P. Lynch. Berkeley, California: University of California, 1972(=1973). In American Classical Review 3,4(1973):196-197.
- NJ004 Lambert, G.R. Review of The Crux of the Matter by B.P. Larkin and C.L. Grove. New York, New York: Macmillan, 1975; and of The Arena of Values: Freedom and Equality by F. Teti and W.J. Richardson. New York, New York: Macmillan, 1975. In History and Social Science Teacher 12,2 (1976):120-121.
- NJ005 Lambert, G.R. Review of Utopias of the Ancient World by J. Ferguson. Toronto, Ontario: Oxford University Press, 1975. In Classical News and Views 20,3(1976):103-104.
- NJ006 Lambert, G.R. Review of Values Education: Theories/Practice/Problems/Prospects. Edited by J.R. Meyer, B. Burnham and J. Cholvat. Waterloo, Ontario: Wilfrid Laurier University, 1975. In History and Social Science Teacher 12,2(1976):120.

- NJ007 Milburn, G. "Forms of Curriculum: Theory and Practice". In Precepts Policy and Process: Perspectives on Contemporary Canadian Education. Compiled and edited by H.A. Stevenson and J.D. Wilson. London, Ontario: Alexander, Blake, 1977. pp.191-212.
- NJ008 Milburn, G. (Co-Editor). History and Social Science Teacher 12 (1976-1977).
- NJ009 Milburn, G. "How are Social Studies Curriculum Materials Evaluated?" History and Social Science Teacher 12,4(1977):237-241.
- NJ010 Milburn, G. "Reports: A Reproach and a Challenge". Quill & Quire 42,13(1976):3,28.
- NJ011 Milburn, G. Review of Education, Change, and Society: A Sociology of Canadian Education. Edited by R.A. Carlton, L.A. Colley and N.J. MacKinnon. Toronto, Ontario: Gage Educational, 1977. In Quill & Quire 43,6(1977):24.
- NJ012 Milburn, G. Review of A History of Higher Education in Canada 1663-1960 by R.S. Harris. Toronto, Ontario: University of Toronto Press, 1976. In Quill & Quire 42,13(1976):19-20.
- NJ013 Milburn, G. "The Social Studies Curriculum in Canada: A Survey of the Published Literature in the Last Decade". Journal of Educational Thought 10,3(1976):214-224.
- NJ014 Milburn, G. and Houston, W.A. (Simulation) Caucus II: Canadian Politics in Action: A Simulation. Toronto, Ontario: Van Nostrand Reinhold, 1976.

Department of Technological Studies

- NK001 Hey, M.H. "The Adult Learner and Education". Canadian Vocational Journal 12,2(1976):11-15.
- NK002 Hey, M.H. (Co-author) Report of a Committee Established to Study the Development of Alternate Teacher Education Routes to Certification of Vocational and Occupational Teachers. Toronto, Ontario: Ministry of Education, 1976.
- NK003 Hey, M.H. (Co-author) Report of a Committee to Study All Aspects of Vocational, Occupational and Industrial Arts Certification. Toronto, Ontario: Ministry of Education, 1976.

FACULTY OF ENGINEERING

- P001 Anderson, J.M.; Parobek, L.; Bergougnou, M.A. and Inculet, I.I. "Electrostatic Separation of Coal Macerals." In IAS Conference Record of the Eleventh Annual Meeting of the IEEE Industry Applications Society. New York, New York: Institute of Electrical and Electronics Engineers, 1976. pp.167-169.
- P002 Armstrong, E.R.; Baker, C.G.J. and Bergougnou, M.A. "The Effects of Solid Wettability on the Characteristics of Three Phase Fluidization." In Fluidization Technology. Proceedings of the International Fluidization Conference, vol. 1. Washington, District of Columbia: Hemisphere, 1976. pp.405-409.
- P003 Armstrong, E.R.; Baker, C.G.J. and Bergougnou, M.A. "Heat Transfer and Hydrodynamic Studies on Three Phase Fluidized Beds." In Fluidization Technology. Proceedings of the International Fluidization Conference, vol. 1. Washington, District of Columbia: Hemisphere, 1976. pp.453-457.
- P004 Awad, M.B. and Castle, G.S.P. "Breakdown Streamers in Coronas with Heated Discharge Electrode." IEEE Transactions on Electrical Insulation 12(1977):234-236.
- P005 Aynsley, R.M.; Melbourne, W. and Vickery, B.J. Architectural Aerodynamics. London, England: Applied Science, 1977.
- P006 Base, T.E.; Bergougnou, M.A.; Baker, C.G.J. and Mills, P.E. "Velocity Measurements and Isokinetic Sampling in a Two Phase, Solids in Gas Flow." In Fluidization Technology. Proceedings of the International Fluidization Conference, vol. 2. Washington, District of Columbia: Hemisphere, 1976. pp.231-237.
- P007 Behie, L.A.; Bergougnou, M.A. and Baker, C.G.J. "Mass Transfer from a Grid Jet in a Large Gas Fluidized Bed." In Fluidization Technology. Proceedings of the International Fluidization Conference, vol. 1. Washington, District of Columbia: Hemisphere, 1976. pp.261-278.
- P008 Chiu, Y. and Zajic, J.E. "Biosorption Isotherm for Uranium Recovery." Proceedings of the American Society of Civil Engineers. Journal of the Environmental Engineering Division 102(1976):1109-1111.
- P009 Davenport, A.G. Discussion of "Equivalent Static Wind Loads for Tall Building Design" by E. Simiu. Proceedings of the American Society of Civil Engineers. Journal of the Structural Division 102(1976):719-737. In Proceedings of the American Society of Civil Engineers. Journal of Civil Engineers. Journal of the Structural Division 103(1977):463-467.
- P010 Davenport, A.G. Discussion of "Wind Pressures on Buildings - Probability Densities" by J.A. Peterka and J.E. Cermak. Proceedings of the American Society of Civil Engineers. Journal of the Structural Division 101(1975):1255-1267. In Proceedings of the American Society of Civil Engineers. Journal of the Structural Division 102(1976):2235-2237.
- P011 Davenport, A.G. "Resume of Workshop Session on Buildings and Structures." In Proceedings of the Canadian Workshop on Wind Engineering. Toronto, Ontario. September 1976. pp.5-10.

- P012 Davenport, A.G. "Wind Engineering - Ancient and Modern - The Relationship of Wind Engineering Research to Design." In Proceedings of the Sixth Canadian Congress of Applied Mechanics. Vancouver, British Columbia. May-June 1977. pp.487-502.
- P013 Davenport, A.G. and Novak, M. "Part II: Vibration of Structures Induced by Wind." In Shock and Vibration Handbook. 2nd ed. Edited by C.M. Harris and C.E. Crede. New York, New York: McGraw-Hill, 1976. pp.29.21-29.43.
- P014 Gallo, C.F.; Lama, W.L. and Inculet, I.I. "IEEE-IAS Sessions on Electrostatic Phenomena, Electrophotography and Applied Electrostatics." Conference Report of IEEE-Industry Applications Society Annual Meeting. Atlanta, Georgia, 1975. In Journal of Electrostatics 2(1976/1977): 289-294.
- P015 Gerson, D.F. and Zajic, J.E. (Abstract) "Bitumen Extraction from Tar Sands with Microbial Surfactants." Canada/Venezuela Oil Sands Symposium 77. Program. Edmonton, Alberta. May-June 1977.
- P016 Gerson, D.F.; Zajic, J.E. and Margaritis, A. Microbial Separation of Bitumen from Athabasca Tar Sand. London, Ontario: University of Western Ontario, Faculty of Engineering Science, 1976.
- P017 Gomes, L. and Vickery, B.J. "On the Prediction of Extreme Wind Speeds from the Parent Distribution." Journal of Industrial Aerodynamics 2 (1977):21-36.
- P018 Gomes, L. and Vickery, B.J. "On Thunderstorm Wind Gusts in Australia." Civil Engineering Transactions of the Institution of Engineers, Australia 18(1976):33-39.
- P019 Gomes, L. and Vickery, B.J. "Tropical Cyclone Gust Speeds along the Northern Australian Coast." Civil Engineering Transactions of the Institution of Engineers, Australia 18(1976):40-49.
- P020 Inculet, I.I. "Industrial Cooperation in Undergraduate Engineering Projects." Proceedings of the Canadian Conference on Electrical Engineering Education. Impact of Technology - A Challenge. Banff, Alberta, 1976. pp.98-102.
- P021 Inculet, I.I. Review of Thermally Stimulated Discharge of Polymer Electrets by J. van Turnhout. Amsterdam, Holland: Elsevier, 1975. In Journal of Electrostatics 2(1976/1977):285-286.
- P022 Inculet, I.I.; Kelly, C.B. and Castle, G.S.P. "Electrostatic Application of Pesticides in Orchards by Means of a Narrow Jet of Particles." In IAS Conference Record of the Eleventh Annual Meeting of the IEEE Industry Applications Society. New York, New York: Institute of Electrical and Electronics Engineers, 1976. pp.174-178.
- P023 Inculet, I.I.; Kucerovsky, Z. and Suzuki, M. "Electric Charging of Particles near the Corona Glow Region in Air-CO₂ Mixtures." In IAS Conference Record of the Eleventh Annual Meeting of the IEEE Industry Applications Society. New York, New York: Institute of Electrical and Electronics Engineers, 1976. pp.351-362.

- P024 Inculet, I.I.; Webster, A.R.; Brash, S.W. and Cheung, B.S.-C. "Corona as a Means of Minimizing the Electric Current Surge from a DC High Voltage Terminal." In IAS Conference Record of the Eleventh Annual Meeting of the IEEE Industry Applications Society. New York, New York: Institute of Electrical and Electronics Engineers, 1976. pp.29-33.
- P025 Ishii, T.; Fujita, S. and Johnson, A.I. "Continuous Multi-Particle Crystal Growth in Vertical Cones." Canadian Journal of Chemical Engineering 55(1977):177-184.
- P026 Isyumov, N. and Davenport, A.G. "Convective Effects on the Aeroelastic Response of a Spatial Bluff Body in a Turbulent Airstream." In Proceedings of the Sixth Canadian Congress of Applied Mechanics. Vancouver, British Columbia. May-June 1977. pp.691-692.
- P027 Isyumov, N.; Jandali, T. and Davenport, A.G. "Model Studies and the Prediction of Full Scale Levels of Stack Gas Concentration." Journal of the Air Pollution Control Association 26(1976):956-964.
- P028 Jack, T.R. and Zajic, J.E. "The Immobilization of Whole Cells." Advances of Biochemical Engineering 5(1977):125-145.
- P029 Keillor, S.A. and Bergougnou, M.A. "A Study of the Action of Floating Bubble Breakers in Fluidized Beds by Interactive Computer Graphics." In Fluidization Technology. Proceedings of the International Fluidization Conference, vol. 2. Washington, District of Columbia: Hemisphere, 1976. pp.95-109.
- P030 Law, K.T. and Lo, K.Y. "Analysis of Shear-Induced Anisotropy in Leda Clay." In Numerical Methods in Geomechanics. Proceedings of the Second International Conference on Numerical Methods in Geomechanics. New York, New York: American Society of Civil Engineers, 1976. pp.329-344.
- P031 Lee, C.F. and Lo, K.Y. "Finite Element Study of a Shallow Tunnel in Rock Exhibiting Clay-Induced Anisotropy." In Numerical Methods in Geomechanics. Proceedings of the Second International Conference on Numerical Methods in Geomechanics. New York, New York: American Society of Civil Engineers, 1976. pp.834-846.
- P032 Lee, C.F. and Lo, K.Y. "Rock Squeeze Study of Two Deep Excavations at Niagara Falls." In Rock Engineering for Foundations & Slopes. (Proceedings of a Specialty Conference). American Society of Civil Engineers. New York, New York, 1976. pp.116-140.
- P033 Lo, K.Y.; Bozozuk, M. and Law, K.T. "Settlement Analysis of the Gloucester Test Fill." Canadian Geotechnical Journal 13(1976):339-354.
- P034 Lo, K.Y. and Morton, J.D. "Tunnels in Bedded Rock with High Horizontal Stresses." Canadian Geotechnical Journal 13(1976):216-230.
- P035 MacDougall, J.W. "An Experiment on Skin Effect." American Journal of Physics 44(1976):978-980.

- P036 Martini, Y.; Bergougnou, M.A. and Baker, C.G.J. "Entrainment Reduction by Louvers in the Dilute Phase of a Large Gas Fluidized Bed." In Fluidization Technology. Proceedings of the International Fluidization Conference, vol. 2. Washington, District of Columbia: Hemisphere, 1976. pp.29-40.
- P037 Nishio, M. and Johnson, A.I. "Strategy for Energy System Expansion." Chemical Engineering Progress 73,1(1977):73-80.
- P038 Novak, M. "Foundation and Soil-Structure Interaction." In Proceedings of the Sixth World Conference on Earthquake Engineering. New Delhi, India. January 1977. pp.1-20.
- P039 Novak, M. "Soil-Pile Interaction." In Proceedings of the Sixth World Conference on Earthquake Engineering. New Delhi, India. January 1977. pp.4.97-4.102.
- P040 Novak, M. "Vertical Vibration of Floating Piles." Proceedings of the American Society of Civil Engineers. Journal of the Engineering Mechanics Division 103(1977):153-168.
- P041 Novak, M.; Aboul-Ella, F. and Nogami, T. "Pile 1 - A Computer Program for Calculation of Stiffness and Damping of Piles." Systems Analysis Control and Design Activity Report SACDA 77-7. London, Ontario: University of Western Ontario, Faculty of Engineering Science, 1977.
- P042 Novak, M.; Davenport, A.G. and Tanaka, H. "Vibration of Towers due to Galloping of Iced Guy Cables." In Proceedings of the Sixth Canadian Congress of Applied Mechanics. Vancouver, British Columbia. May-June 1977. pp.701-702.
- P043 Novak, M. and Grigg, R.F. "Dynamic Experiments with Small Pile Foundations." Canadian Geotechnical Journal 13(1976):372-385.
- P044 Novak, M. and Hindy, A. "Seismic Response of Buried Pipelines." In Advances in Civil Engineering through Engineering Mechanics. Proceedings of the Second Annual Engineering Mechanics Division Specialty Conference. New York, New York: American Society of Civil Engineers, 1977. pp.44-47.
- P045 Novak, M. and Howell, J. "Pile T - A Computer Program for Calculation of Stiffness and Damping of Piles in Torsion." Systems Analysis Control and Design Activity Report SACDA 77-18. London, Ontario: University of Western Ontario, Faculty of Engineering Science, 1977.
- P046 Novak, M. and Howell, J.F. "Torsional Vibration of Pile Foundations." Proceedings of the American Society of Civil Engineers. Journal of the Geotechnical Engineering Division 103(1977):271-285.
- P047 Novak, M. and Nogami, T. "Soil-Pile Interaction in Horizontal Vibration." In Proceedings of the Sixth Canadian Congress of Applied Mechanics. Vancouver, British Columbia. May-June 1977. pp.301-302.
- P048 Surry, D.; Kitchen, R.B. and Davenport, A.G. "Design Effectiveness of Wind Tunnel Studies for Buildings of Intermediate Height." Canadian Journal of Civil Engineering 4(1977):96-116.

- P049 Tarasuk, J.D.; Snoek, C.; Base, T.E. and Graham, L.E. "Heat Transfer from Air Supported Structures and the Associated Flow Regimes." In Proceedings of IASS World Congress on Space Enclosures. Montreal, Quebec. July 1976. pp.299-305.
- P050 Tryggvason, B.V.; Surry, D. and Davenport, A.G. "Predicting Wind-Induced Response in Hurricane Zones." Proceedings of the American Society of Civil Engineers. Journal of the Structural Division 102 (1976):2333-2350.
- P051 Zajic, J.E.; Gerson, D.F. and Camp, S. (Abstract) "Biodegradation of Asphaltenes and Other Hydrocarbons by Pseudomonas Sp." Proceedings of the Canadian Federation of Biological Societies 20(1977):33,no.132.
- P052 Zajic, J.E.; Gerson, D.F. and Fuller, R.E. (Abstract) "Biosurfactant Production by Bacillus Sp. Utilizing Long-Chain Aliphatic Hydrocarbons." Proceedings of the Canadian Federation of Biological Societies 20(1977):33,no.131.
- P053 Zajic, J.E. and Panchal, C.J. "Bio-Emulsifiers." CRC Critical Reviews in Microbiology 5(1976):39-66.

BRESCIA COLLEGE

- Q001 Bell, J.M.; Giovannetti, P.; Sharby, T.F. and Jones, J.D. "Digestibility and Protein Quality Evaluation of Rapeseed Flour." Canadian Journal of Animal Science 56(1976):763-768.
- Q002 Borwein, D. and Smet, E. "Addendum to 'Tauberian Theorems for Borel-Type Methods of Summability'." Canadian Mathematical Bulletin 19 (1976):245-246.
- Q003 Chimbos, P.D. "Marital Violence: A Study of Husband-Wife Homicide." In The Canadian Family. Revised ed. Edited by K. Ishwaran. Toronto, Ontario: Holt, Rinehart and Winston of Canada, 1976. pp. 580-599.
- Q004 Meyer, J.P. and Pepper, S. "Need Compatibility and Marital Adjustment in Young Married Couples." Journal of Personality and Social Psychology 35(1977):331-342.
- Q005 Sharp, C. "The Dance of Death in Modern Drama: Auden, Dürrenmatt and Ionesco." Modern Drama 20(1977):107-116.
- Q006 Skidmore, P.G. "Crusading and Conforming: The Techniques of Temperance." Dalhousie Review 56(1976):93-102.
- Q007 Skidmore, P.G. "Sex and Song, Roles and Images of Women in Popular Music at the Turn of the Century." Atlantis: A Women's Studies Journal 2(1977):22-32.

KING'S COLLEGE

- R001 De Fabry, A.S. Review of Anthropologie et Politique: Les Principes du Système de Rousseau by Victor Goldschmidt. Paris, France: Librairie Philosophique J. Vrin, 1974. In Journal of the History of Philosophy 15(1977):107-109.
- R002 Fric, L. "The Role of the Temporary Help Services Industry in the Canadian Labour Market." Canadian Association of Temporary Services 10th Annual General Conference. Proceedings. Edmonton, Alberta: May 28, 1977.
- R003 Killan, G. Preserving Ontario's Heritage. Ottawa, Ontario: Love Printing Service, 1976.
- R004 Mueller, P.J. "Lonergan's Theory of Religious Experience." Eglise et Théologie 7(1976):235-251.
- R005 Orange, J. "Buckler Revisited." Review of The Rebellion of Young David and Other Stories by E. Buckler. Toronto, Ontario: McClelland & Stewart, 1975. In Journal of Canadian Fiction no.16(1976):182-184.
- R006 Schmeiser, J. (Editor) Celebrating the Word. Toronto, Ontario: Anglican Book Centre, 1977.
- R007 Skinner, N.F.; Giokas, J.A. and Hornstein, H.A. "Personality Correlates of Machiavellianism: 1. Consensual Validation." Social Behavior and Personality 4(1976):273-276.

For joint authors see the Name Index at the end of this volume.

LIBRARY SYSTEM

- S001 Chevendra, C.R. Abstract of "Ambient Air Monitoring Using Long Path Techniques" by W.A. McClenny. Chemical Abstracts 86,14(1977):357, no. 95088x.
- S002 Chevendra, C.R. Abstract of "Atmospheric Trace Elements in the United Kingdom. Results for 1974" by P.A. Cawse. Chemical Abstracts 85,6 (1976):253, no. 86744q.
- S003 Chevendra, C.R. Abstract of "Biochemical and Organoleptic Aspects of Beer Maturation" by C.A. Masschelein. Chemical Abstracts 83,1(1975):611, no. 7055u.
- S004 Chevendra, C.R. Abstract of "Biological Impact of Air Pollution on Insects" by J.J. Bromenshenk. Chemical Abstracts 85,22(1976):387, no. 165763u.
- S005 Chevendra, C.R. Abstract of "Controlled-Potential Electrochemical Analysis of Carbon Monoxide" by K.F. Blurton and H.W. Bay. Chemical Abstracts 83,14(1975):391, no. 120254w.
- S006 Chevendra, C.R. Abstract of "Design, Application, and Performance of Bag Filter for Dust Control" by T.N. Singh and R.K. Bansal. Chemical Abstracts 85,22(1976):390, no. 165802f.
- S007 Chevendra, C.R. Abstract of "Ecological Aspects of Some Bluestem Communities in the Red River Valley" by M.K. Wali, G.W. Dewald, and S.M. Jalal. Chemical Abstracts 81,13(1974):380, no. 76857c.
- S008 Chevendra, C.R. Abstract of "The Ecology of a Minnow, Barbus Trevelyani, (Pisces, Cyprinidae) in the Tyume River, Eastern Cape" by I.G. Gaigher. Biological Abstracts 62,5(1976):2470-2471, no. 24913.
- S009 Chevendra, C.R. Abstract of "Ethological Studies of Bembecinus cinguliger (Smith) and B. oxydorcus (Handl.) (Hymenoptera:Sphecidae), Two Southern African Turret-Building Wasps" by F.W. Gess and S.K. Gess. Biological Abstracts 62,5(1976):2633, no. 26538.
- S010 Chevendra, C.R. Abstract of "Evaluation of Protein and Carbohydrate in Mexican Wheats" by B.R. Chandravanshi and M. Singh. Chemical Abstracts 81,23(1974):440, no. 150992m.
- S011 Chevendra, C.R. Abstract of "Evolution of Chlorinated Phenols from Concentrated Boron Solutions Containing these Phenols Added as their Sodium Salts" by A.J. Cserjesi. Chemical Abstracts 84,26(1976):271, no. 184371k.
- S012 Chevendra, C.R. Abstract of "Factors for Deriving Absorbed Dose-Rates in Air Due to Beta Particles from Measurements of Absorbed Dose-Rates in Tissue-Equivalent Material" by T.M. Francis, and E.A. Pook. Chemical Abstracts 84,26(1976):267, no. 184300m.

- S013 Chevendra, C.R. Abstract of "Fauna in the Littoral Zone of Niisaki Beach in the Western Part of Sagami Bay: 1" by M. Saito and S. Hiroshi. Biological Abstracts 61,2(1976):713, no.6899.
- S014 Chevendra, C.R. Abstract of "Fertility and Hatchability of Eggs Produced by Hens Subjected to Various Photoperiods" by Y. Saeki and A. Tomiji. Biological Abstracts 62,6(1976):3373, no. 34155.
- S015 Chevendra, C.R. Abstract of "Fossil Proboscidea from Taiwan (I)" by T. Shikama, H. Otsuka, and Y. Tomida. Biological Abstracts 62,6(1976):2977, no. 30133.
- S016 Chevendra, C.R. Abstract of "Fossil Proboscidea from Taiwan (II)" by T. Shikama, H. Otsuka, and Y. Tomida. Biological Abstracts 62,6(1976):2977, no. 30134.
- S017 Chevendra, C.R. Abstract of "Geographic Variation and Systematics of Salamanders of the Genus Dicamptodon (Ambystomatidae) by R.A. Nussbaum. Biological Abstracts 62,10(1976):5270, no. 53511.
- S018 Chevendra, C.R. Abstract of "Management of Ultisols and Oxisols" by W.G. Blue. Chemical Abstracts 81,21(1974):340, no. 135032e.
- S019 Chevendra, C.R. Abstract of "Miocene Floras of the Pacific Side of Central Japan: 1. Inkyoyama Flora" by K. Ozaki. Biological Abstracts 61,2(1976):981, no. 9444.
- S020 Chevendra, C.R. Abstract of "A New Cumacean Crustacea Hemilamprops Bigibba sp. nov. from Sagami Bay" by S. Gamo. Biological Abstracts 62,6(1976):3171, no. 32072.
- S021 Chevendra, C.R. Abstract of "Observations on the Drifting Seaweeds and the Animals Found in their Masses in Sagami and Suruga Bays" by S. Gamo and M. Seiro. Biological Abstracts 62,6(1976):3014, no. 30512.
- S022 Chevendra, C.R. Abstract of "On Two New Allied Cowry and Cowry Shells from South African Sea" by T. Shikama. Biological Abstracts 61,2(1976):891, no. 8601.
- S023 Chevendra, C.R. Abstract of "Optimum Automotive Use of the Combustion Characteristics of Gas from Coal. Low Pollution Considerations" by J.R. Allsup and R.D. Fleming. Chemical Abstracts 83,14(1975):395, no. 120291f.
- S024 Chevendra, C.R. Abstract of "Ozone Trends in the Eastern Los Angeles Basin Corrected for Meteorological Variations" by M.D. Zeldin and D.M. Thomas. Chemical Abstracts 86,14(1977):362, no. 95173w.
- S025 Chevendra, C.R. Abstract of "Pollution of the Stratosphere" by H.S. Johnston. Chemical Abstracts 83,14(1975):391, no. 120250s.
- S026 Chevendra, C.R. Abstract of "Pyrimidine Decomposition in Cultivated and Noncultivated Soils" by A. Rozlerova and V. Drobnikova. Chemical Abstracts 81,23(1974):438, no. 150958e.

- S027 Chevendra, C.R. Abstract of "Taxonomic Notes on South African Marine Mollusca, I" by R.N. Kilburn. Biological Abstracts 61,2(1976):889, no. 8757.
- S028 Chevendra, C.R. Abstract of "Technical Evaluation of Natural Gas Fired Incinerators" by P. Brus, G. Datschefski and A.C.N. Tucker. Chemical Abstracts 85,26(1976):292, no. 197465q.
- S029 Chevendra, C.R. Abstract of "Using Ambient Monitoring to Identify Air Pollution Sources with Application to Oxidant Transport" by R.C. Sklarew and J.C. Wilson. Chemical Abstracts 86,14(1977):362, no. 95172v.
- S030 Chevendra, C.R. Review of The Economy of Nature by R.E. Ricklefs. Portland, Oregon: Chiron Press, 1976. In Canadian Field Naturalist 91,2(1977):208.
- S031 Chevendra, C.R. Review of Nature and Urban Man by G.B. McKeating. Ottawa, Ontario: Canadian Nature Federation, Special Publication No. 4, 1975. In Canadian Field-Naturalist 91,2(1977):208-209.
- S032 Clouston, J.S. "Pascal et les Membres Pensants." Eglise et Theologie 8(1977):245-263.
- S033 Cohen, S.G. Review of Canadian Music Scores and Recordings. Compiled by G. Creelman, E. Cooke and G. King. Sackville, New Brunswick: Mount Allison University, Ralph Packard Bell Library, 1976; and of Canadian Music: A Selected Checklist 1950-1973. Edited by L. Jarman. Toronto, Ontario: University of Toronto Press, 1976. In CAML Newsletter 6,2 (1977):10-13.
- S034 Holman, A.L. Review of Bonnie McSmithers, You're Driving Me Dithers by S.A. Anderson. Edmonton, Alberta: Tree Frog Press, 1975. In Canadian Materials 4(1976):73.
- S035 Holman, A.L. Review of How Summer Came to Canada (Sound filmstrip). Weston, Ontario: Weston Woods of Canada, 1976. In Canadian Materials 5(1977):6.
- S036 Holman, A.L. Review of Stories from Panguirtung. Edmonton, Alberta: Hurtig, 1976. In Canadian Materials 5(1977):37-38.
- S037 Holman, A.L. Review of Word Games for Families Who are Still Speaking to Each Other by A. Robson and J. Robson. Toronto, Ontario: Paperjacks, General, 1974. In In Review 10,3(1976):66-67.
- S038 Hopkinson, M.W. (Compiler) Catalogue [of] The Beatrice Hitchins Memorial Collection of Aviation History Presented by the Family of Fred H. Hitchins. (University of Western Ontario Library Bulletin, no. 9). London, Ontario: University of Western Ontario, The D.B. Weldon Library, 1976.
- S039 Leverette, C.E. Islands as Open Space: A Canadian Detroit River Islands Project. London, Ontario: Killaly Press, 1976.
- S040 Leverette, C.E. "The Pleasures of Small Literary Magazines." Emergency Librarian 3,6(1976):16-19.

- S041 Leverette, C.E. Review of Canadian Book Review Annual, 1975. Edited by D. Tudor, N. Tudor, and L. Biesenthal. Toronto, Ontario: Peter Martin Associates, 1976. In Serials Review 2,4(1976):24-25.
- S042 Leverette, C.E. Review of Canadian Essay and Literature Index, 1973. Edited by A.D. Armitage and N. Tudor. Toronto, Ontario: University of Toronto Press, 1975. In Serials Review 2,1/2(1976):35-36.
- S043 Leverette, C.E. "A Second List of Canadian Little Magazines." Stuffed Crocodile 3,7(1976):139-142.
- S044 Leverette, C.E. "Will YOU?" Perspectives 1,7(1976):6-7.
- S045 Lewis, M. (Issue Editor) CAML Newsletter 5(1976); 6(1977).
- S046 Nath, D. (Compiler) Physical Education Index: A Cumulative Subject Index of Select Journal Articles in Physical Education, Sport and Dance, January-June 1976. London, Ontario: University of Western Ontario, The D.B. Weldon Library, 1976.

For joint authors see the Name Index at the end of this volume.

HURON COLLEGE

- T001 Black, G.A. "Contemporary Organ Music at Hartt College". Diapason 67,9(1976):12-13.
- T002 Blocker, J.S., Jr. Retreat from Reform: The Prohibition Movement in the United States, 1890-1913. (Contributions in American History, Number 51) Westport, Connecticut: Greenwood Press, 1976.
- T003 Brandeis, R.C. "Garner's Recycled Work Not So Very Satisfying." Review of The Legs of the Lame and Other Stories by H. Garner. Ottawa, Ontario: Borealis Press, 1976. In London Free Press, 1 January 1977. p. 13.
- T004 Brandeis, R.C. Review of The A.M. Klein Symposium. Edited by S. Mayne. Ottawa, Ontario: University of Ottawa Press, 1975. In Canadian Book Review Annual 1975. pp.172-173.
- T005 Brandeis, R.C. Review of Angéline de Montbrun by L. Conan. Toronto, Ontario: University of Toronto Press, 1975. In Canadian Book Review Annual 1975. pp.118-119.
- T006 Brandeis, R.C. Review of The Battle for Saltbucket Beach by I. MacNeill. Toronto, Ontario: McClelland & Stewart, 1975. In Canadian Book Review Annual 1975. p.101.
- T007 Brandeis, R.C. Review of Ghost Towns by F. McNeil. Toronto, Ontario: McClelland & Stewart, 1975. In Canadian Book Review Annual 1975. p. 131.
- T008 Brandeis, R.C. Review of God Is Not a Fish Inspector by W.D. Valgardson. Ottawa, Ontario: Oberon Press, 1975. In Canadian Book Review Annual 1975. p.122.
- T009 Brandeis, R.C. Review of The Manawaka World of Margaret Laurence by C. Thomas. Toronto, Ontario: McClelland & Stewart, 1975. In Canadian Book Review Annual 1975. pp.171-172.
- T010 Brandeis, R.C. Review of The Owl and the Nightingale: The Poem and its Critics by K. Hume. Toronto, Ontario: University of Toronto Press, 1975. In Canadian Book Review Annual 1975. p.165.
- T011 Brandeis, R.C. Review of Sinclair Ross and Ernest Buckler by R.D. Chambers. Toronto, Ontario: Copp Clark, 1975. In Canadian Book Review Annual 1975. p.169.
- T012 Brandeis, R.C. "Reworked Stories a Disappointment." Review of The Lady and the Travelling Salesman: Stories by L. Simpson. Ottawa, Ontario: University of Ottawa Press, 1976. In London Free Press 9 April 1977. p.23
- T013 Poisson, R. "The 'Calumniator Credited' and the Code of Honour in Shakespeare's Othello." English Studies in Canada 2,4(1976):381-401.
- T014 Poisson, R. "Death for Adultery: A Note on Othello, III iii 394-396". Shakespeare Quarterly 28,1(1977):89-92.

- T015 Poisson, R. "Unequal Friendship: Shakespeare's Sonnets 18-126." In New Essays on Shakespeare's Sonnets. Edited by H. Landry. New York, New York: AMS Press, 1976. pp.1-20.
- T016 Read, C.F. "Chandler, Samuel" In Dictionary of Canadian Biography, vol. 9. Edited by F.G. Halpenny. Toronto, Ontario: University of Toronto Press, 1976. p.124.
- T017 Read, C.F. "Wilson, John". In Dictionary of Canadian Biography vol. 9. Edited by F.G. Halpenny. Toronto, Ontario: University of Toronto Press, 1976. pp.843-844.
- T018 Snell, R. and Cole, M. "The Use of a VI Schedule of Token Reinforcement to Effect All-Day Control of Thumbsucking in the Classroom" SALT 9,2(1976):14-21.
- T019 Williamson, D.R. and Gartrell, J.W. Employee Work Attitudes and Work Behaviour in Canadian Business. (Economic Council of Canada. Discussion. Paper No. 51). Ottawa, Ontario: Economic Council of Canada, 1976.
- T020 Willing, A. (Discussion) "A Note on Rescher's 'Semantic Foundations for the Logic of Preference'." Theory and Decision 7(1976):221-229.

For joint authors see the Name Index at the end of this volume.

OFFICE OF THE REGISTRAR

U001 University of Western Ontario. Office of the Registrar. Information Department. Foreign Student Information. London, Ontario: University of Western Ontario, 1977.

For joint authors see the Name Index at the end of this volume.

Name Index

Aboul-Ella, F.	P041.	Arnold, B.J.	K001, K002,
Abrahams, S.	EC036, EN121,		K037.
	EN125- EN128.	Arnold, D.R.	BC002- BC005.
Adams, I.	BC016.	Aronson, A.I.	EC003.
Adams, J.D.R.	CC001.	Asensio, J.	AG001- AG007.
Adams, S.J.	AB001.	Aspin, N.	EJ007, EJ008,
Advisory Committee on	ET001		EJ010.
Inborn Errors of		Assaf, S.Y.	EW001, EW021.
Metabolism		Atance, F.R.	AC001, AC002.
Ahmad, D.	EN075.	Atkinson, B.G.	BK002.
Ahsan, S.M.	CC002.	Atkinson, K.H.	BK002.
Ahuja, S.P.	EN001, EN034,	Austen, K.F.	EN061,
	EN158.		EN083- EN086.
Aithal, H.N.	ED001.	Austin, T.W.	EN004- EN007.
Aitken, E.J.	M001.	Avery, D.H.	CE005, CE006.
Alain, C.	M002.	Avotins, I.	AA001.
Albert, D.M.	EC001.	Avrith, D.	EW002, EW027.
Albin, J.	CG014.	Awad, M.B.	P004.
Alford, W.P.	BH003- BH006,	A-Wahab, Z.	EB002.
	BH009- BH012.	Ayer, W.A.	BC006.
Ali, M.	ED002, ED003,	Ayim, M.E.	NG001- NG005.
	EN002, EN003.	Aynsley, R.M.	P005.
Ali, M.M.	BG001, BG002.	Ayotte, D.L.	EC012.
Allcock, J.M.	EE001.		
Allen, H.H.	EP001, EP008.	Babb, J.W.	ES002.
Allnatt, A.R.	BC001, BC068,	Baguley, D.	AC003.
	BC069,	Bailey, A.J.	EZ002.
	BC073- BC076.	Bailey, D.A.	M001, M018.
Altmann, G.G.	EB001, EB002.	Bailey, K.	D002.
Anderson, C.	EU001, EU002.	Bailey, S.I.	EX012.
Anderson, J.	D001.	Bailey, T.W.	D003, D004.
Anderson, J.A.D.	EK001.	Bain, J.A.	EA001.
Anderson, J.M.	P001.	Baird, N.C.	BC007- BC012.
Anderson, R.	EC002, EN116.	Baker, C.G.J.	P002, P003,
Anderson, R.E.	BH012.		P006, P007,
Andrews, A.J.	BE001.		P036.
Angel, J.R.P.	BB004.	Baker, P.G.	EY012, EY015.
Anguish, I.	EN133, EN135.	Baksh, L.	EN142.
Ankney, C.D.	BK001, BK024.	Balakrishnan, T.R.	CJ001- CJ004.
Anwar, M.	CJ010.	Ball, E.	ED016.
Archibald, T.R.	H001, H015.	Ball, J.	EC033.
Arey, J.B.	EU046.	Ball, J.K.	ED013.
Armstrong, D.T.	EP002- EP007,	Ball, J.R.	M003.
	EP011- EP014,	Ball, M.J.	EG001- EG004,
	EP016, EP017,		EG031.
	EP024, EP029,	Ball, R.F.	EC004.
	EW015, EW018,	Ball, R.G.	BC013- BC015.
	EW036.	Balogh, J.M.	EZ001.
Armstrong, E.R.	P002, P003.	Bambrick, F.K.	J001- J003.
Armstrong, F.H.	CE001- CE004.	Bancroft, G.M.	BC016- BC022,
Armstrong, H.	EX005.		BC037, BE002.

Bancroft, J.B.	BJ001, BJ011, BJ014, BJ021.	Biaglow, J.E.	EZ003.
Banna, M.	EG031.	Bicker, G.R.	ES004.
Banting, B.W.	L001.	Biehn, J.T.	EL005, EL006.
Banting, D.W.	GC001, GC007.	Bieman, E.	AB007, AB008.
Barnard, F.M.	CF001- CF003.	Binkley, R.W.	AE001.
Barnett, H.J.M.	EG005- EG008, EG011.	Binns Smith, M.	ET002.
Barnett, W.H.	EN002.	Bishop, J.M.	EC016.
Barney, R.K.	M004- M013.	Bisset, A.R.	BK001.
Barr, J.D.	EU003.	Bist, H.D.	BC023, BC024.
Barratt, D.G.	ED004, ED028, ED054.	Black, B.L.	EC012.
Barrio-Garay, J.L.	AH001- AH003.	Black, G.A.	T001.
Base, T.E.	P006, P049.	Black, W.A.	EC007, EC008, EN009.
Baskerville, J.A.	EN140.	Blair, D.G.	EF001, EF002.
Baskerville, J.C.	BG003.	Bland, B.H.	CG080.
Bass, M.J.	EL001- EL004, EL008, EL013, EL014.	Block, I.	AE002.
Battison, R.	CG044.	Blocker, J.S., Jr.	T002.
Beard, J.	BH015.	Blomqvist, A.G.	CC003- CC005.
Beatson, R.P.	BC055.	Blum, K.	EV001, EV002, EV006.
Beaujot, R.P.	CJ005.	Blume, W.T.	EG009,
Beck, A.E.	BF001- BF004.	Bobechko, W.P.	EG032- EG035, EU028.
Becker, H.	AH004- AH007, AH010.	Bolton, J.R.	EY013.
Bees, G.	BH015.	Bondy, D.C.	BC025, BC042, BC065, BC066.
Behie, L.A.	P007.	Boone, J.E.	EN036.
Behme, R.J.	EC012.	Borda, I.T.	ET003.
Behrens, J.	D005, D006.	Borra, E.F.	EN073.
Belanger, M.	CD001.	Borton, M.	BB001, BB005, BB006.
Bell, D.A.	EC027, EC028, EN008, EN070, EN104, EN105.	Borwein, B.	BJ013.
Bell, J.M.	Q001.	Borwein, D.	BH001.
Belladonna, R.	AG008.	Bos, C.	BG005- BG007, BG029, Q002.
Bellhouse, D.R.	CB001, CB002.	Bou, W.T.	EU039.
Benko, B.F.	CG037.	Boucher, D.W.	CD047.
Bennett, B.B.	M016, M017.	Boughner, D.R.	EG022- EG024, EG026.
Bennett, H.	L016.	Bourns, T.K.R.	EE002,
Bentley, D.M.R.	AB002- AB006.	Bowman, N.J.	EE018- EE021, EE026, EG008,
Berglund, J.F.	BG004.	Box, S.J.C.	EN010, EN011, EN063, EN078, EN093, EN094.
Bergougnou, M.A.	P001- P003, P006, P007, P029, P036.	Boyd, D.	EC029.
Bergsagel, D.E.	EZ002.	Boyd, J.A.	BC013.
Bermant, G.	CG001, CG002.	Boyd, M.	BH002.
Bernardo, M.E.	EG025.	Boyd, R.N.	EN132.
Beshir, M.E.	BJ032.	Boyer, R.S.	ND001- ND004.
Betts, T.A.	EX001.		H008.
Beveridge, T.J.	BJ021, EC005, EC006.		BH003- BH006. CC006, CC007.

Boyle, D.A.	EN133.	Burki, H.J.	EZ013.
Bozozuk, M.	P033.	Burton, A.C.	EE003, EE011.
Braidwood, J.L.	ET002.	Burton, M.J.	EW032.
Brainerd, C.J.	CG003- CG011.	Bush, W.	AC004.
Brainerd, S.H.	EH001- EH005.	Butler, R.W.	CD002- CD007.
Brand, J.C.D.	BC023, BC024, BC026- BC028.	Butler, S.	AB023.
Brandeis, R.C.	T003- T012.	Butlin, G.	EA004.
Brands, B.	EV003.	Butts, R.E.	AE007- AE009.
Brandt, G.J.	K003.	Byszewski, W.W.	BH002.
Brannen, E.	BH007, BH020.	Cabral, R.M.	CJ032.
Brash, S.W.	P024.	Cain, D.P.	CG015, CG019.
Braun, H.E.	EU045.	Cain, J.P.	EN077.
Braun, R.	ED065.	Calarco, P.	ND014.
Bray, K.I.	D007.	Calaresu, F.R.	EW005, EW007, EW013, EW020, EW035, EW038.
Brennan, M.	ED005, EL007.	Calne, R.Y.	EY001, EY012, EY015, EY016.
Brightman, M.W.	BK027.	Cameron, J.A.	BH006.
Brimley, C.C.	EW003.	Cameron, M.A.S.	AH008.
Broga, M.I.	CG012.	Cameron, W.J.	L002- L004.
Bronaugh, R.N.	AE003.	Camp, S.	P051.
Brook, R.C.	CJ007.	Campbell, R.B.	M048.
Brooke, R.I.	GA001, GA002, GA012.	Canham, P.B.	EE001, EE004, EE005, EE014, EE030.
Brooks, V.B.	EW004, EW016, EW041.	Cape, R.D.T.	EN012, EN013, EN074, EN088.
Brostowin, P.R.	AC026.	Capling, G.	ED040.
Brown, J.A.	NJ001.	Carey, L.S.	EJ001, EJ002.
Brown, J.R.	BE002.	Carmichael, C.M.	BF005- BF007, BF011.
Brown, L.S.	F001.	Carmichael, L.E.	EC001.
Brown, M.M.	AB009.	Carpenter, C.B.	EN123.
Brown, R.	BF012.	Carroll, J.M.	BD001- BD005.
Brown, S.E.	EP008.	Carroll, K.K.	ED007- ED011, ED017, ED023, ED030, ED031, ED037- ED039, ED052, ED053.
Brown, W.F.	EG014.	Carroll, S.E.	EY002, EY003.
Browne, L.M.	BC006.	Carron, A.V.	M001, M003, M015- M019, M044, M049.
Brownstone, D.Y.	ED006.	Carruthers, J.S.	EJ007.
Brownstone, Y.S.	ED002, ED003, ED006.	Carson, R.A.	ED024.
Bruen, A.A.	BG008- BG010.	Cartier, A.	EN108.
Bryan, A.C.	EA002, EA003.	Cartwright, D.G.	CD008, CD009.
Bryan, M.H.	EA002, EA003.	Cartwright, J.R.	CF004.
Bub, J.	AE004- AE006.	Cass, F.P.	BG005.
Bucher, B.	CG013, CG014, CG034.	Castle, G.S.P.	P004, P022.
Buchnea, D.	EP027, EP028.	Catlow, C.R.A.	BC029.
Buchshriber, J.M.	BC055.		
Buck, C.W.	EK001- EK003.		
Buck, R.C.	EB003- EB005, EB066.		
Buckolz, E.	M002, M014.		
Burdenuk, E.L.	ND005- ND008, ND014.		
Burgess, D.F.	CC008.		
Burgoyne, D.G.	H013.		

Caudano, R.	BH022.	Clement, R.	CG016- CG018.
Caussignac, Y.	EN027, EN072, EN151.	Clements, D.L.	BA016, BA019, BA021.
Caveney, S.	BK022, BK023.	Clouston, J.S.	S032.
Cavers, P.B.	BJ018, BJ038, BJ039.	Code, W.R.	CD010- CD013.
Cawsey, T.F.	H002.	Cohen, R.S.	AE010.
Cekirge, H.M.	BA001.	Cohen, S.G.	S033.
Chacron, M.	BG011.	Coish, R.A.	BE004.
Challis, J.R.G.	EP009.	Cole, A.J.	BH017.
Chamberlain, M.J.	EJ003, EJ006, EN014, EN055- EN058.	Cole, M.	T018.
Chan, A.C.	ED012.	Coleman, W.K.	BJ002- BJ006.
Chan, C.K.	EA018.	Coles, J.C.	EA004, EN005, EN006.
Chan, L.K.	BA002, BA003.	Colhoun, E.H.	EV011, EV015.
Cham, S.K.	BA004, ED013.	Collins, J.	K036.
Chang, C.C.	BF004.	Collins, J.A.	EP001.
Chang, L.W.	EB006.	Collins, T.J.	AB010, AB011.
Chapman, C.E.	EW033.	Collins, W.M.	BA007, BA008.
Chauvin, W.J.	BK028, EU003, EU049- EU052.	Conaway, J.G.	BF008.
Cheevers, W.P.	EF003.	Contreras, J.G.	BC040.
Chelladurai, P.	M019- M021.	Cook, J.R.	EW008.
Chen, T.	BA005.	Cook, M.A.	EV014.
Cheng, A.K.	BC030, BC031.	Cook, R.A.	ED014.
Cherian, M.G.	EN147, EU004- EU007, EU016, EU026.	Cooke, D.	EN156.
Chess, G.F.	ET004.	Cooke, J.D.	EW009- EW011, EW039.
Cheung, B.S.-C.	P024.	Cooper, R.G.	H003.
Chevendra, C.R.	S001- S031.	Cope, D.A.	EE007, EE008.
Chimbos, P.D.	Q003.	Corcoran, M.E.	CG019.
Chisholm, D.	EN062.	Corish, J.	BC029, BC032.
Chiu, H.F.	EU008, EU009.	Corke, M.	EN154.
Chiu, Y.	P008.	Cornhill, J.F.	EE028.
Chivers-Wilson, J.	EW006.	Corson, S.L.	EP025.
Chodirker, W.B.	EN015, EN016, EN070.	Cory, R.M.	BC046.
Choo, F.C.	BH008, BH021.	Cosgrove, J.F.	EA012.
Christiansen, R.L.	GC003.	Cosin, L.Z.	EN102.
Christiansen, S.	BA006, BA017.	Coulter, M.B.	ED016.
Chuang, L.	EN140.	Coulter, W.K.	EN039.
Chughtai, M.A.	EN074.	Coulton, J.W.	EC009.
Church, W.R.	BE003- BE005.	Courtney, J.M.	EN023, EN024, EN067.
Cioé, J.	EW028.	Cousin, H.K.	EG021- EG024, EG029, EN130.
Ciriello, J.	EW005, EW007.	Couture, A.	BC033.
Clark, C.	EE006.	Craddock, V.M.	EU010.
Clark, P.I.	EN017-EN019.	Craig, J.R.	BE018.
Clark, R.J.	NJ002.	Crass, P.	AH009.
Clark, W.F.	EN020, EN021.	Crawford, H.J.	CG031.
Clarke, O.	EN022.	Creider, C.A.	CA001, CA002.
Clarke, R.J.	EG028.	Creighton, D.G.	AC005, AC006.
Clarkson, T.W.	EU026.	Creighton, M.O.	ED015.
Clément, H.	BH005, BH006.	Crookell, H.	H004.
		Crowther, N.B.	AA002.
		Crump, D.B.	BC034.
		Crunican, P.E.	CE007, CE008.

Cullen, J.	BJ034.	Denny, J.P.	CG021- CG023,
Cummins, J.E.	BJ007.		CG040.
Cunningham, D.A.	EN071, EN095,	De Rose, G.	EN156.
	H009, H014,	de Vebber, L.L.	EC033.
	M022- M025,	de Veber, G.	EN066.
	M040, M047.	Devereux, E.J.	AB012.
		Dewdney, A.K.	BD007- BD009.
D'Agostino, P.R.	CG020.	Dewey, R.	BA012.
Dales, S.	EC010, EC011,	Diamond, M.J.	ED006.
	EC023, EC024,	Dickie, G.L.	EL004, EL008,
	EC034, EC035.		EL013, EL014.
Dalton, K.J.	EP010.	Dickinson, J.A.	CE009.
Damude, L.C.	BC035, EE008.	Dijkman, D.J.	GC004.
Danaher, K.	EK001.	Diller, K.M.	BC029.
Daniels, W.H.	EB005.	Dinel, B.A.	EC012.
Danylchuk, K.D.	EC025, EU001,	Disney, T.	EN039.
	EU002.	Ditor, S.Z.	BG012.
Darbha, D.M.	BF009.	Dixon, A.H.	BD010.
Dave, V.	BC036.	Dluhy, R.G.	EN077.
Davenport, A.G.	P009- P013,	Dobell, W.M.	CF005- CF010.
	P026, P027,	Doctor, A.	EA004, EN006.
	P042, P048,	Dolan, F.T.	L005- L007.
	P050.	Donald, L.J.	ET005- ET009.
Davidson, S.V.	EC014.	Donnelly, M.	EG025.
Davies, D.J.M.	BD006.	Donnelly, P.	M026- M028,
Davies, G.W.	CC005, CC009,		M039.
	CC010.	Dorrington, J.H.	EP003- EP005,
Davies, J.S.	BJ008.		EP011- EP013,
Davis, G.M.	M025.		EP029.
Davis, J.W.	AE011, AE012.	Dorse, S.E.	EC007, EC008.
Dawes, G.S.	EP010.	Dossitor, J.B.	EG022- EG024,
Dawson, D.J.	EZ004, EZ006,		EN123.
	EZ023, EZ032.	Dougall, A.	ED005.
Day, A.W.	BJ007, BJ009,	Dow, H.J.	ND009.
	BJ035.	Dow, M.R.	ND009- ND013.
Dean, D.R.	AC026.	Downs, P.G.	D008.
Dean, P.A.W.	BC035, BC037.	Draayer, J.P.	BH004.
Deatrich, D.	EN052, EN060.	Drake, C.G.	EG010.
de Champlain, P.	BC038.	Dreimanis, A.	BE006- BE008,
De Fabry, A.S.	R001.		BE013.
DeHaan, R.	ET004.	Drew, J.F.	EZ023.
Deitrich, D.	EN059.	Dreyer, F.	CE010.
Delaney, M.	EU040.	Driedger, A.A.	EJ004, EN025,
Delaquerriere-	EN147, EU006,		EN046.
Richardson, L.	EU016.	Drury, P.	EB007.
Del Maestro, R.F.	EG013.	Duff, J.H.	EY004- EY006.
de Mayo, P.	BC033, BC038,	Dufresne, M.J.P.	ED016.
	BC039, BC059,	Duke, N.A.	BE009.
	BC062.	Dunham, C.B.	BD011- BD020.
Demers, S.	BB014.	Dunn, W.J.	GC002.
Demopoulos, W.G.	AE006,	Dupré, J.	EN026, EN027,
	AE013- AE015.		EN053, EN062
Dennis, S.C.R.	BA007- BA011.		EN072,
			EN090- EN092,
			EN108, EN151.

Durham, A.C.H.	BJ010.	Fellows, B.J.	EN029.
Duwe, A.K.	EC013.	Fennell, D.	ND014.
Duwe, G.	EP026- EP028.	Ferguson, K.G.	EN030.
Dyson, C.	ER001- ER004.	Ferrence, R.G.	CJ006, CJ008, CJ033, CJ034.
Eastman, D.E.	BC017, BC020.	Ferris, R.J.	ED018.
Eastman, M.J.	EW009, EW010.	Fetherston, W.	EP022, EP023.
Ebanks, G.E.	CJ009, CJ010, CJ022.	Fielding, H.W.	BH012.
Ebisuzaki, K.	EC026, EC038.	Fields, W.S.	EG011.
Edgar, A.D.	BE009- BE012, BE020.	Finlay, J.B.	EQ001- EQ003, EQ006.
Edgar, H.	EN161.	Finlayson, W.D.	CA003- CA006.
Edgeworth, P.	EE009.	Finley, R.	EN005.
Edmonds, D.S., Jr.	BH015, BH023.	Fiske, H.E.	D009, D010.
Edwards, K.N.	EN028.	Fitz-James, P.C.	EC003, EC021.
Edwards, R.O.	EN067.	Flaherty, D.H.	CE011- CE013.
Egan, D.A.	EB008.	Flaherty, M.J.	F002, F003.
Ehrman, J.B.	BA005.	Flanagan, P.R.	EN031- EN033.
Elcock, E.W.	BD021, BD022.	Fleet, M.E.	BE014- BE018.
Elgie, R.J.	H016.	Fletcher, J.	EE027, EE028.
Ellen, R.P.	GC001.	Flint, N.	AG009.
Elmore, D.	BH004, BH005, BH009- BH011.	Flint, W.	AG009.
Emerson, G.J.	NG006- NG008.	Flintoff, W.F.	EC014, EC015, EC020.
Engers, H.D.	EZ024.	Flumerfelt, B.A.	EB008, EB009, EB061.
Enhorning, G.	ED005.	Flynn, E.R.	BH003.
Enlow, D.H.	GC003.	Forbes, R.E.	K004.
Erickson, J.W.	BJ011.	Foreman, E.E.	ED006.
Errington, N.	EN139, EN140, EN142.	Forstner, G.G.	EN031.
Erskine, J.A.	H017.	Forsyth, L.H.	AC007.
Evans, C.A.	EW012.	Fortune, J.E.	EP014.
Evans, D.R.	CG024- CG029, CG041, CG042.	Fox, A.M.	EQ004.
Evans, J.	EN037, EN038.	Francis, C.A.	BE018.
Evenson, E.B.	BE013.	Frank, R.	EU045.
Ewen, M.	ED066.	Frankel, B.G.	CJ007, CJ008.
Eynon, R.B.	M025, M029- M031, M048.	Franko, A.J.	EZ005.
Fahselt, D.	BJ012, BJ013.	Fraser, P.A.	BA014.
Faiers, A.A.	EW013, EW014, EW029.	Freedman, J.	CA007.
Fairs, J.R.	M032, M033.	Freedman, S.J.	BH013.
Fairweather, I.A.	EN024.	Freeland, B.H.	BC040, BC041.
Falconer, A.D.	ED017.	Freeman, D.J.	ED019, ED020, ED036, EV004.
Falk, H.	BB002.	Frei, J.V.	EU010, EU011.
Farrar, J.K.	EG019, EG020.	Fric, L.	R002.
Feasby, W.H.	CG007.	Fridman, G.H.L.	K005- K012.
Feldman, R.	EU042, EU055.	Friedrich, R.	EC016.
Feldman, S.R.	AB013.	Friesen, A.	EN034.
		Friesen, M.	EN021, EN066.
		Fritz, I.B.	EP011- EP013.
		Froelich, H.R.	BH014, BH015, BH023, BH024.
		Fry, J.	EK001.

Fryer, B.J.	BE019, BE020.	Gill, T.	EQ005.
Fuck, R.A.	BE032.	Gillespie, J.B.	EC021.
Fujita, S.	P025.	Gillis, A.R.	CJ011.
Fuller, R.E.	P052.	Giokas, J.A.	R007.
Fung, F.Y.	EC031, EN119.	Giovannetti, P.	Q001.
Fung, M.	EN125.	Girvin, J.P.	EG010, EG012, EG013.
Fung, S.	BC006.	Glennie, G.D.	EA005.
Furesz, J.	EG022, EG023, EG026.	Godambe, V.P.	CB002.
Futterman, S.	EV002.	Godleski, J.	EU046.
Fyfe, W.S.	BE001, BE002, BE021- BE027, BE032, BE035.	Goff, A.K.	EW015.
		Gold, R.E.	EJ005.
		Goldberg, B.	EX003.
		Goldschläger, A.	AC008- AC011.
Gaily, T.D.	BH018, BH025.	Gomes, L.	P017- P019.
Galbraith, D.A.	EX002.	Gomez, M.R.	EG032- EG034.
Galella, G.	ED021.	Goodchild, M.F.	CD014- CD019.
Galil, K.A.	EB010- EB057, EC017.	Goode, R.C.	H009.
		Goodman, H.M.	EC016.
Gallo, C.F.	P014.	Goodman, R.M.	BJ014.
Galsworthy, S.B.	EC018, EC019.	Goodstadt, M.S.	CG069.
Gammal, E.B.	EB058, EB059.	Gordon, B.A.	ED024- ED027, ED035, EU023, EU025.
Gannon, K.O.	BC054.		EN073.
Garber, L.A.	AB014.	Gordon, K.D.	K013, K014.
Garcia, A.M.	BC083.	Gorsky, M.R.	BA013.
Garcia, H.	EU042.	Govindarajan, J.	EV003, EV008, EV016- EV018.
Gardner, D.G.	EU012- EU015.	Gowdey, C.W.	EN147, EU006, EU016, EU017.
Gardner, R.C.	CG016- CG018, CG030.		EN009.
		Goyer, R.A.	EJ005, EN098- EN100, EN159, EN160.
Garganti, I.	BD023, BD024.		EG019.
Gartrell, J.W.	T019.	Grabec, M.	AB015, AB016.
Gatfield, P.D.	ED025- ED027, EU022.	Grace, D.M.	P049.
			EJ011, EN162.
Geiger, H.B.	EE010.	Graham, D.I.	ED004, ED028, ED054- ED057.
Geisser, M.	ED022.	Graham, J.W.	BF010.
Gelinas, P.J.	CD047.	Graham, L.E.	BE034.
Gent, M.	EG011.	Grainger, W.	BB003, BB013.
Genton, E.	EG011.	Grant, C.W.M.	CC011.
George, J.A.	BK003.		BE012.
George, P.M.	CJ009, CJ010, CJ022.	Grant, J.A.	M030, M031.
		Grant, M.	D011.
Georgiade, N.G.	GC006.	Gray, D.F.	EN035.
Gerber, D.E.	AA003- AA006.	Gray, M.	D012.
Gerig, L.H.	EZ006.	Green, D.H.	EN026.
Gerson, D.F.	EE011, P015, P016, P051, P052.	Green, H.	CG029.
		Green, J.P.	EA006, ES001.
Gervais, F.	M014.	Green, R.N.	
Ghei, O.K.	ED023.	Greene, G.K.	
Giannotti, C.	BC042.	Greenidge, N.	
Gilbert, B.W.	EN079, EN080.	Greenough, T.	
Gilbert, J.J.	EU008.	Greenway, R.E.	
Gilchrist, T.	EN023, EN067.		

Greyson, R.I.	BJ002- BJ006, BJ015, BJ036.	Hardwick, J.L. Harper, A.M.	BC026. EG019.
Griffin, A.E.	F004- F007.	Harper, M.	BD025.
Griffiths, J.	EN071, M040.	Harris, A.W.	BA002, BA003.
Griffiths, R.A.	EN102.	Harris, J.W.	EZ007.
Grigg, R.F.	P043.	Harshman, R.A.	CG031.
Grindstaff, C.F.	CJ012- CJ015, CJ023.	Hart, J.F.	BD025.
Groom, A.C.	EE010, EE012, EE015- EE017, EE033.	Harth, M.	EN036- EN039.
Grunmann, M.H.	AC012.	Hartley, P.	EP009.
Gudat, W.	BC017, BC020.	Harvey, P.R.C.	ED032, ED036.
Guemple, L.	CA008.	Harvold, E.P.	GC003.
Guinsburg, T.N.	CE014.	Hassan, J.	AH010.
Gullane, P.J.	ES002.	Hassard, J.H.	NC001, NC002.
Gunn, G.D.	BH006.	Hassner, A.	BC046.
Gupta, R.S.	EC020.	Haubenstricker, J.	M050.
Gurofsky, S.M.	EC018, EC019.	Hausch, H.G.	GC003.
Gushulak, B.D.	ED001.	Haust, H.L.	ED033, ED034, ED049, EN089.
Guthrie, J.P.	BC043- BC045.	Haust, M.D.	ED035, EU018- EU025, EU029- EU031, EU043, EU046.
Gutteridge, D.G.	ND015- ND021.		
Gwinnett, A.J.	EC017.	Hawthorn, W.R.	BJ018.
Gwyn, D.G.	EB008.	Hay, D.R.	BH016, BH017, BH026.
Haehling von Lanzenauer, C.	H005, H006.	Hay, G.C.	NB001.
Hahn, M.	EP026.	Hayatsu, A.	BF011.
Haidar, M.A.	BJ010, BJ016, BJ017.	Haydon, R.	BG012.
Haines, D.S.M.	ED029, ED064, EN036, EN141, EN142, EN144.	Hayman, W.P.	EN150.
Hair, D.S.	AB017.	Haynes, M.J.	EZ008- EZ010.
Haist, J.	EN147.	Hearn, M.T.	CG027.
Hall, R.D.	CE015- CE018.	Hecht, E.	CG031.
Hamblin, R.L.	CJ016.	Heeneman, H.	EA006, ES003.
Hamilton, D.L.	EN148.	Heimbecker, R.O.	EW024.
Hamilton, J.T.	EV009, EV010, EV013, EV014.	Heinicke, E.	EB060.
Hamilton, M.G.	EV001, EV002, EV005- EV007.	Helmes, E.	CG032.
Hamilton, R.M.G.	ED030, ED031.	Hencher, J.L.	BC040.
Hamza, V.M.	BF004.	Henderson, A.R.	EN017- EN019.
Hanis, E.H.	CB003.	Hendry, G.S.	EC021.
Haq, M.S.	BG013- BG015, GA003, GB001.	Hennen, B.K.	EL011.
Harary, F.	BD009.	Henshel, R.L.	CJ017- CJ020.
Hardekopf, R.A.	BH003.	Herbertson, B.M.	EY015.
Hardie, M.J.	EN136, ET002.	Hess, G.H.W.	AD001, AD002.
Harding, D.R.K.	BC056.	Hey, M.H.	NK001- NK003.
Harding, P.G.R.	ED005, EN136, EP015, EP027, EP028, EP030, EU024.	Hibberson, W.O.	BE012.
		Hickey, J.P.	EN039.
		Hieatt, A.K.	AB018, AB019.
		Hieatt, C.B.	AB020- AB023.
		Hilborn, K.H.W.	CE019- CE021.
		Hill, D.A.	EE013.
		Hill, J.S.	M034.
		Hilts, S.G.	CD020.
		Hindry, A.	P044.
		Hinton, G.G.	ED035, EU023, EU025.

Hirst, M.	EV001- EV003, EV005- EV008, EV012, EV016- EV018.	Hrycyszyn, A.W. Hudson, A.J. Huff, M.W.	EB061. ED042, EG030, EN134. ED010, ED037- ED039.
Hirth, L.	BJ017.	Hugill, J.V.	EY009.
Ho, K.	BC033.	Hui, M.H.	BC049, BC050.
Ho, Y.K.	BA014.	Huie, P.	BK016- BK020.
Hoak, J.C.	EG011.	Huima, T.	EC011.
Hobkirk, R.	ED019, ED020, ED032, ED036.	Humphreys, R.W.	BC002.
Hodgson, R.C.	H002.	Hundert, J.	CG034.
Hoffman, H.	CG033.	Hunter, D.H.	BC051- BC053.
Hogg, S.H.	BB015.	Hunter, E.	EF002.
Holland, W.H.	K015.	Hunter, I.A.	K016- K019.
Hollebone, B.R.	BC078.	Hunter, J.A.A.	EQ006.
Holliday, N.J.	ET009.	Hunter, W.S.	GC004.
Holliday, R.L.	EN116, EY007, EY011.	Hursh, J.B.	EU026.
Holman, A.L.	S034- S037.	Hurst, C.	EN133.
Holmes, G.	AC013.	Hutcheson, K.D.	EU009.
Holmes, K.K.	EN007.	Hyatt, A.M.J.	CE004.
Holsztynski, W.	BG016- BG019.	Ibbott, D.G.	BC037.
Holt, R.A.	BH013, BH018, BH025.	Ikossi, P.	BH006.
Holub, B.	EP027.	Immerwahr, R.	AD003- AD005.
Holzwarth, E.J.	NC008.	Inch, W.R.	EZ008- EZ010, EZ017, EZ018, EZ028.
Hong, S.	CJ023.	Inculet, I.I.	P001, P014, P020- P024.
Hooker, C.A.	AE010.	Inwood, M.J.	EN040- EN043, EU003.
Hopkinson, M.W.	S038.	Ishii, T.	P025.
Hor, A.M.	BC047, BC048.	Issacharoff, M.	AC014- AC019.
Hore, J.	EW004, EW016, EW017, EW040, EW041.	Isyumov, N.	P026, P027.
Horne, R.W.	BJ011, BJ014.	Jack, T.R.	P028.
Hornstein, H.A.	R007.	Jackson, D.N.	CG032, CG033, CG035- CG037, CG058, CG073.
Hoshine, M.	BC033.	Jaco, N.T.	EN136, ET002, ET004.
Hosse, H.A.	CD021, CD022.	Jacobs, P.W.M.	BA013, BC029, BC032, BC047, BC048, BC054, BC064.
Hotimsky, C.M.	L008, L009.	Jacobson, B.	EZ003.
Houston, M.	M030, M031.	Jaffe, P.G.	CG038.
Houston, W.A.	NJ014.	Jandali, T.	P027.
Howard, D.M.	J005.	Janelle, D.G.	CD001, CD023- CD030.
Howard, J.H.	EN095, H007- H010, H014.	Janik, B.	ED041.
Howard, M.	NA001.	Janki, R.M.	ED001.
Howell, J.	P045, P046.	Jarosch, C.H.	BK024.
Howell, R.L.	EZ022, EZ029, EZ030.		
Howitt, P.	CC012.		
Howson, W.	EC036, EN121, EN126- EN130.		
Howson, W.T.	EG029.		
Hoy, A.R.	BC027.		

Jarvis, G.K.	CJ003.	Kendall, M.J.	EG028.
Jay, A.W.L.	EE014.	Kennedy, T.G.	EP018- EP021,
Jeglum, J.K.	BJ037.		EW012.
Jennings, B.	ED036, EN140,	Keown, P.	EN049, EN050,
	EN142.		EN129, EN145,
Jessup, B.A.	CG039.		EN146, EU044.
Jevnikar, A.	EN124.	Kerrich, R.	BE026.
Jeynes, B.J.	EU051.	Kertesz, A.	BJ019,
John, P.K.	BH002.		EG015- EG018.
Johnson, A.I.	P025, P037.	Kets de Vries, M.F.R.	H010.
Johnson, F.G.	CJ008.	Keyser, J.	BH022.
Johnson, M.E.	EN001.	Khan, R.A.	CF011.
Johnson, P.	EP009.	Khan, S.P.	EU029.
Johnson, R.H.	GA003, GB001.	Kidd, D.	BD025.
Johnston, D.L.	K020- K022.	Kidder, G.M.	BK012.
Jones, D.C.	EG009.	Kiernan, J.A.	EB062- EB065,
Jones, D.F.	AC020.		ED014.
Jones, D.T.	EN044, EN045,	Killan, G.	R003.
	EN109.	Killing, J.P.	H004.
Jones, G.D.	BH005.	Kimura, D.	CG043, CG044,
Jones, H.R.	EG035.		CG046, CG048.
Jones, J.	BH019.	King, J.F.	BC055- BC057.
Jones, J.D.	Q001.	King, R.H.	CD031- CD033.
Jones, J.V.	EG019.	Kingston, J.G.	BA020.
Jones, M.W.	EG008.	Kirkpatrick, S.M.L.	EA002.
Jones, T.R.	EV009, EV010.	Kisslo, J.A.	EN079, EN080.
Jordan, T.H.	BE027.	Kitchen, R.B.	P048.
Judd, W.W.	BK004- BK010.	Klein, G.	EN034, EN051,
Judge, S.J.	EW032.		EN059.
		Klinck, C.F.	AB024- AB030.
Kadrie, H.	EG014, EN046.	Klinck, R.E.	BC051, BC058.
Kaluza, H.J.	NA002.	Kline, R.L.	EW019, EW020,
Kaplan, W.	CG068.		EW024.
Kapogianis, E.M.	EB009.	Knill, R.L.	EA002, EA003,
Karniol, R.	CG051, CG052.		EA011, EA012.
Kater, L.A.	EN086.	Knopoff, L.	BF012.
Kates, M.	EC002.	Ko, P.	EN052, EN060.
Kathpal, H.B.	BC009- BC011.	Kobric, M.	EN053.
Katz, A.N.	CG038, CG040.	Koch, C.J.	EZ001, EZ003,
Katz, Y.	EP016, EP017,		EZ007,
	EW018.		EZ011- EZ013,
Kaufmann, J.C.E.	EU027, EU028,		EZ021, EZ027.
	EU033.	Koens, F.	EN066.
Kazarian, S.S.	CG028, CG029,	Kogon, S.L.	GA013.
	CG041, CG042.	Komar, R.	EN070.
Keenleyside, M.H.A.	BK011.	Kormos, R.	EG016.
Keeri-Szanto, M.	EA006- EA010,	Kossatz, V.C.	BJ020.
	ED006.	Kostakis, A.J.	EY012, EY015.
Keffer, A.	NC009.	Kostuk, W.J.	EG008, EJ006,
Keillor, S.A.	P029.		EN014,
Keith, L.	EP025.		EN017- EN019,
Kelly, C.B.	P022.		EN034, EN051,
Kelton, J.	EN047, EN048.		EN052,
			EN054- EN060,
			EN103.

Kowalski, J.	EF003.	Leith, J.C.	CC016- CC018.
Kral, V.A.	EX004.	Lemaire, J.	AC011.
Kramis, R.C.	CG062.	Lennon, T.M.	AE016, AE017.
Kruglak, H.	BG020.	Lenz, A.C.	BE028- BE031.
Kucerovsky, Z.	BH007, BH020, P023.	Leonardos, O.H.	BE032.
Kucharczyk, J.	EW021- EW023, EW031.	Lesk, D.	EJ011, EN162.
Kuehner, D.G.	BD026.	Leung, C.Y.	EA019.
Kuehner, J.A.	BH005.	Leung, F.Y.	ED040, ED041, ED066.
Kuiper, N.A.	CG045.	Leung, M.	BH021, BH027.
Kullerud, G.	BE034.	Leung, P.C.K.	EP006, EW018.
Kunkel, J.H.	CJ016.	Leverette, C.E.	S039- S044.
Kuperberg, W.	BG019.	Levesque, M.J.	EE015- EE017.
Kurdiak, R.	EJ007, EJ008.	Levine, C.G.	CJ021.
Kurek, E.J.	EV011.	Levinson, C.J.	EP025.
Kushnier, L.K.	EN008.	Levison, H.	EA012.
Kusy, R.P.	GC006.	Levy, M.	EN072, EN091.
Lach, B.	EU030, EU031.	Lewis, C.	BC060.
Lahav, M.	EC001.	Lewis, J.	NC008.
Laidler, D.E.W.	CC013- CC015.	Lewis, M.	S045.
Lama, W.L.	P014.	Leyshon, G.A.	M035- M038.
Lambert, G.R.	NJ003- NJ006.	L'Heureux, W.J.	M020.
Lampe, H.	BC016.	Li, K.T.	ED024.
Lampe, M.	EB064, EB065.	Liao, C.C.	BC059.
Lander, J.R.	CE022- CE024.	Lickley, L.	EN062.
Landstreet, J.D.	BB001, BB004- BB006.	Lim, K.O.	EE018- EE021, EN063.
Langel, R.A.	BF012.	Lin, C.H.	ED042.
Langley, G.R.	EZ002.	Lind, D.A.	BH012.
Langtvet, O.	CD034- CD036.	Lindgren, R.A.	BH004.
Larsson, S.	BC021.	Lindsay, R.M.	EN021, EN023, EN024,
Las Heras, J.	EP028, EU024.	Linton, A.L.	EN064- EN067.
Latham, R.A.	GC003, GC005, GC006.	Lipton, J.H.	EN021, EN029, EN066- EN069.
Law, K.T.	P030, P033.	Little, B.	ED043.
Lawley, P.D.	EU011.	Littlewood, A.R.	H003.
Lawr, D.A.	NE001.	Lo, K.Y.	AA007, AA008.
Lawrence, A.H.	BC059.	Lo, P.	P030- P034.
Lea, G.W.	CG075.	Lo, T.	EG004.
Lecraw, D.J.	H011.	Lobb, T.	ED016.
Lee, C.F.	P031, P032.	Locke, M.	EA013.
Lees, R.K.	EC030, EC031, EN118, EN119.	Lockwood, J.F.B.	BK013- BK020, BK029.
Lefave, K.	CG042.	Loffer, F.D.	EN145, EN146, EU044.
Lefcoe, M.	EA004, M023.	Lomas, J.	EP038.
Lefcoe, N.M.	EN087, EN140- EN144, EV009, EV010.	Long, D.G.	CG046.
Leid, R.W.	EN061, EN083.	Long, D.G.F.	CF012.
Leigh, W.J.	BC002.	Longmore, G.	BE039.
		Loosmore, S.M.	EP027.
			BC057.

Lopez-Pacheco, J.	AG010- AG012.	McGowan, J.W.	BH001, BH015,
Lord, R.J.A.	H002.		BH022, BH031.
Lorimer, J.W.	BC061.	McHardy, L.	BD025.
Lorrain, J.	EN108.	McInnis, W.	EN046.
Loutfy, R.O.	BC062.	McIntosh, A.R.	BC065, BC066.
Lovering, B.I.	EX013.	McKaskell, R.	AH011.
Lowe, R.P.	BB007.	McKay, D.F.	AB031.
Loy, J.W.	M039.	McKay, W.	EN073.
Lubert, B.	CG044.	McKechnie, P.	EN006.
Luche, J.-L.	BC038.	McKeen, W.E.	BJ022- BJ024.
Lucier, G.E.	EW043.	McKelvie, R.S.	EW024.
Ludwig, J.	EN149.	Mackenzie, E.T.	EG019.
Lycett, P.	ES004.	Mackie, G.A.	ED022, ED044,
Lyke, R.L.	BC063.		ED045.
Lytton, D.G.	EU053.	MacKown, S.A.	CF011.
		McLachlin, A.D.	EY010.
McCabe, P.	EG017.	McLaren, R.H.	K023, K024,
McCain, G.	EN070.		K032.
McCarter, J.A.	EF004, EF005.	McLaughlin, J.P.	CE025, CE026.
McClure, J.A.	ES004.	McLean, H.J.	D013- D015.
McCourtie, D.R.M.	ED034, ED049,	McMurray, W.C.	ED043, ED046,
	EN089.		ED059.
McCredie, J.A.	EC032, EN120,	MacNab, I.	EY014.
	EZ010,	MacNeill, I.B.	BA002, BA003.
	EZ014- EZ019.	McNiven, J.D.	CF011.
McCrimmon, D.R.	EN071, M040.	McPeck, J.E.	NG009, NG011.
MacDonald, B.	BJ024.	MacPherson, C.F.C.	EU032,
MacDonald, H.R.	EZ020- EZ022,		EX005- EX007.
	EZ024, EZ025,	MacRae, N.D.	BE033, BE034.
	EZ030.	McWade, J.W.	EU045.
MacDonald, J.C.F.	BH015, EZ006,	McWhinney, I.R.	EL009- EL011.
	EZ023, EZ032.	Madison, T.	K035.
McDonald, J.G.	BJ001, BJ014,	Madsen, I.	BG021.
	BJ021.	Major, L.J.	CG017.
Macdonald, J.R.	BC064.	Majumdar, S.C.	BF017.
McDonald, J.W.D.	EN002, EN003.	Mak, L.L.M.	EB006.
MacDonald, N.	EZ002.	Malczak, H.T.	EB066.
McDonald, T.J.	EN026, EN027,	Manca, J.J.	BH015, BH023,
	EN072, EN091,		BH024.
	EN092, EN151.	Mansinha, L.	BF010, BF013,
McDougall, J.N.	CF013, CF014.		BF014, BF022.
MacDougall, J.W.	P035.	Margaritis, A.	P016.
McDougall, W.J.	H012.	Markusen, J.R.	CC019, CC020.
McFarlane, R.M.	EY008, EY009.	Marlborough, J.M.	BB008- BB010,
MacFarlane van			BB012.
Waterschoot, B.	M023.	Maroulis, A.J.	BC003.
McGee, M.	F008.	Marras, A.	AE018- AE022.
McGeough, J.A.	BA015.	Marschark, M.	CG047.
McGirr, D.	EC036, EG029,	Marshall, A.M.	EV001, EV002,
	EN037, EN038,		EV006, EV007,
	EN049, EN050,		EV012.
	EN121,	Marteniuk, R.	M049.
	EN124- EN130.	Martin, A.H.	EB006.

Martini, Y.	P036.	Milnes, P.	BG004,
Marty, R.A.	BC038.		BG023- BG025.
Mason, W.S.	EF002.	Misra, K.C.	BE018.
Masood, Z.	EN135.	Misra, R.K.	BK021.
Mateer, C.	CG048.	Missiuna, P.C.	EC030, EN118.
Maun, M.A.	BJ025- BJ028.	Mitalas, R.	BB002, BB011.
Mayer, J.R.	EY008, EY009.	Mitchell, S.P.	CB003.
Mayer, P.P.	EN074.	Mitton, R.	EN047, EN048.
Maynard, P.	AE023- AE027.	Moffett, B.C.	GC003.
Mayston, D.J.	CC021, CC022.	Mogenson, G.J.	EW001- EW003,
Mazza, J.	EN075, EN143,		EW005, EW013,
	EN144.		EW014,
Meath, W.J.	BC067- BC069,		EW021- EW023,
	EZ032.		EW026- EW029,
Medeiros, J.A.	BH001.		EW031, EW032,
Medveczky, N.	ED051.		EW037.
Medzon, E.L.	EC004.	Molineux, J.	EL011.
Meier, K.V.	M041- M043.	Moloney, J.V.	BC067.
Melbourne, W.	P005.	Monture, M.C.	EB059.
Melendez, L.J.	EN076, EN109.	Moodie, K.S.	BC047.
Melvin, J.R.	CC023, CC024.	Moodie, T.B.	BA016, BA019,
Mercer, P.F.	EW025.		BA021.
Mereu, R.F.	BF012,	Moon, Y.S.	EP006, EP024,
	BF015- BF018.		EP029.
Merrifield, P.A.	BK002.	Moore, D.S.	GA004.
Merskey, H.	EX001,	Moore, J.T.	BG020.
	EX008- EX010.	Moore, T.J.	EN077.
Metcalf, G.	CE027.	Moorhead, J.M.	BB007.
Metcalfe, L.	ED005, EP027,	Mora, F.	EW032.
	EP028.	Morchat, R.M.	BC004.
Meyer, E.K.	EV001, EV002.	Morden, C.J.	CG072.
Meyer, J.P.	Q004.	Morris, V.L.	EC016.
Meyer-Lohmann, J.	EW004, EW016,	Morrissy, J.R.	EL012.
	EW041.	Morrow, D.	M046.
Michalos, A.C.	AE010.	Morton, J.D.	P034.
Michell, B.G.	L010.	Moscovich, M.J.	AA009.
Michie, D.	BD022.	Mosher, R.	M044, M049.
Milburn, G.	ND008, NJ002,	Mousa, G.Y.	ED015.
	NJ007- NJ014.	Mueller, P.J.	R004.
Miller, A.B.	EZ002.	Mullin, J.K.	BD027.
Miller, C.B.	BG022.	Muniyamma, M.	BJ029- BJ030.
Miller, D.T.	CG049- CG052.	Murray, R.G.E.	EC005, EC006,
Miller, J.D.	EG020.		EC009, EC019,
Miller, J.W.	NA001,		EC022.
	NA003- NA005.	Mushak, P.	EU017.
Mills, D.W.	ER005.	Myburgh, J.A.	EN123.
Mills, P.E.	P006.	Myers, C.R.	CG081.
Millward, H.A.	CD030.		
Milne, D.C.	M044, M045,	Naik, D.V.	EB067- EB069.
	M050.	Narayan, K.N.	BJ030.
Milne, J.K.	EN136.	Nath, D.	S046.
Milner-Brown, H.S.	EG014.	Neary, P.F.	CE028, CE029.

Neill, S.D.	L011- L013.	Palmer, G.E.	BC002.
Nemeth, C.	CG001, CG002.	Palmer, R.L.	BH031.
Nerenberg, M.A.H.	BA013.	Palmore, J.A.	CJ023.
Neufeld, R.W.J.	CG012, CG039, CG053- CG055.	Panchal, C.J.	P053.
Neville, D.J.	D016.	Panjer, H.H.	BG026, BG027.
Newell, J.P.	EL004, EL008, EL013, EL014.	Papaliolios, C.	BH013.
Newman, J.C.	AG013- AG015.	Papkoff, H.	EP007.
Newton, R.C.	BE035.	Papmehl, K.A.	AF001, AF002.
Ng, K.C.	BC068, BC069.	Paquin, M.J.	CG058.
Ng, M.	BA010.	Parihar, J.S.	BC024.
Ng, S.K.	ED012, ED047.	Park, G.B.	EN024.
Ng, V.M.	BG014.	Parker, B.M.C.	BC032.
Nichol, P.M.	EN078- EN080.	Parkin, M.	CC011, CC015, CC025- CC034.
Nicholas, J.M.	AE028.	Parmenter, C.S.	BC071, BC083.
Nicholson, N.L.	CD037- CD042.	Parobek, L.	P001.
Nieh, H.L.	EE022.	Passi, R.B.	ED005.
Nilsen, M.	ED036.	Paterson, D.H.	M023, M047.
Nishio, M.	P037.	Paterson, N.A.M.	EN061,
Nissim, J.E.	EU046.	Paterson, W.	EN083- EN086.
Nobbe, C.E.	CJ009, CJ010, CJ022.	Path, M.R.C.	NH001, NH002.
Nogami, T.	P041, P047.	Patrick, J.	EC007, EC008.
Nolan, J.	EN010.	Patrick, J.E.	EP022, EP023, ET004.
Norgett, M.J.	BC029.	Paty, D.W.	EP009, EP010, EW030.
Novak, M.	P013, P038- P047.		EG009, EG021- EG026, EG029, EG031, EN130.
O'Brien, T.C.	NC003.	Paul, M.	EY011.
O'Connor, D.V.	BC070.	Pavlis, R.	ED048.
O'Grady, L.R.	EN081.	Payne, N.C.	BC013- BC015, BC034.
Oh, N.K.	CJ023.		H002.
Ohara, P.T.	EB005.	Peach, D.A.	H013.
Okovita, H.	CG013.	Pearce, M.R.	CG071.
Okwuasaba, F.K.	EV013, EV014.	Pederson, D.R.	EN087.
O'Leary, P.T.	NG010.	Pederson, L.L.	EG028.
Olgianti, D.D.G.	EC023, EC024.	Peerless, S.J.	BJ033.
Olley, P.M.	EA012.	Pendyala, L.	EP038.
Olsson, L.S.	EY010.	Pent, D.	EY012.
Omotoso, H.	NC004.	Pentlow, B.D.	Q004.
O'Neill, B.J.	CG020.	Pepper, S.	EC001, EC025.
Oosterhoff, A.H.	K025- K028.	Percy, D.H.	BC052.
Orange, J.	R005.	Perry, R.A.	EN078.
Oreopoulos, D.	EN066.	Persaud, J.A.	EN088.
Orlóci, L.	BJ031, BJ032, BJ037, BJ040.	Pflugfelder, P.	EP024.
Ownbey, M.	BJ013.	Phi, L.T.	EU052.
		Phillips, J.	EP025.
Pace, W.E.	EN082.	Phillips, J.M.	CD007.
Packer, R.W.	CD043- CD047.	Phillips, S.E.	EV004.
Paivio, A.	CG020, CG045, CG047, CG056, CG057.	Philp, R.B.	BJ019, BJ034, EG018.
		Phipps, J.B.	

Pignatti, S.	BJ040.	Raman, K.	BJ036.
Piotrowska, A.	EN016.	Rampersad, M.B.	BC072.
Pitcher, E.W.	AB032- AB035.	Ramzy, I.	EU034- EU040.
Pitt, D.F.	EJ005, EY010.	Rand, C.G.	EG026, EN022.
Plata, F.	EZ024, EZ025.	Rankin, S.A.	BG028.
Plotkin, H.N.	EM001, EM002.	Rao, Ch. V.S.R.	BC028.
Plyley, M.J.	EE012.	Rasmussen, H.	BA006, BA015,
Poeckert, R.	BB012.		BA017, BA018.
Pogo, B.G.T.	EC023, EC024.	Ray, D.W.	NE005- NE010.
Poisson, R.	T013- T015.	Rayner, W.B.	K029- K032.
Poitras-Martin, D.	CG059.	Read, C.F.	T016, T017.
Pomare, E.W.	EN154.	Reaney, J.	AB038- AB043.
Pomerantz, D.K.	EW036.	Rechnitzer, P.A.	EN010, EN071,
Pomeroy, J.A.	ED066.		EN095, H009,
Pond, D.A.	EX001.		H014, M040.
Pons, M.W.	EC010.	Redinger, R.N.	EN096- EN100.
Poon, H.C.	ED034, ED049,	Rees, M.E.	BJ001.
	EN089.	Reese, L.	EJ009, EJ011,
Poon, N.H.	BJ035.		EN162.
Popovich, J.W.	BK022, BK023.	Reid, B.D.	EN067.
Pospielovsky, D.V.	CE030- CE032.	Reid, J.A.	GA005- GA011,
Possmayer, F.	ED005,		GA013.
	EP026- EP028,	Reilly, P.L.	EG020.
	EP030.	Reis, C.M.	BG028.
Posthuma, B.W.	EQ007.	Repo, R.U.	EQ001- EQ003.
Power, J.A.	EZ007.	Reuber, G.L.	CC035- CC037.
Prato, F.S.	EJ007- EJ011,	Reuschlein, P.	M045.
	EN162.	Reykdal, B.	CG014.
Prince, C.E.	BK011.	Riccio, L.	BE005.
Proctor, G.A.	D017, D018.	Richards, I.	CC032.
Proctor, N.S.F.	EU033.	Richardson, J.	M049.
Prodrick, G.	L014, L015.	Richmond, I.M.	AC021, AC022.
Przybylowski, G.A.	CD022.	Riddle, C.	BC022.
Purdy, J.	NE002.	Rider, W.D.	EJ007, EJ008.
Purkey, R.M.	EC026.	Rinco, S.	BG015.
		Rinehart, J.W.	CJ024.
Quigley, R.M.	CD047.	Rioux, J.-E.	EP038.
		Roach, M.R.	EE007- EE009,
	M048.		EE023- EE029.
Rabel, J.C.	BA002, BA003.	Robbins, H.J.	EX013.
Rachar, F.B.	NE003, NE004.	Roberts, D.C.K.	ED010, ED038,
Radcliffe, D.J.	BC048.		ED039.
Radhakrishna, S.	EN027, EN072,	Roberts, R.J.	K033.
Radziuk, J.	EN090- EN092,	Roberts, W.A.	CG060, CG061.
	EN151.	Robertson, A.	EW031, EW037.
Rae, A.S.	ED050, ED051.	Robertson, A.	L016.
Rajagopalan, M.	BG022.	Robertson, D.	EN088,
Rajan, B.	AB036, AB037.		EN101- EN103.
Rakowski, H.	EN011, EN093,	Robillard, R.	EN108.
	EN094.	Robins, R.N.	EP008.
Ralph, E.D.	EN081.	Robinson, I.J.W.	BG029.
Ram, A.	BF018.	Robinson, J.	EP005, EP029.
Ramamurthy, V.	BC059.	Robinson, J.S.	EP009.

Robinson, M.L.	ND022.	Sanghera, M.	EW032.
Robinson, T.E.	CG062, CG080.	Santon, L.W.	EJ010.
Robson, A.J.	CC038, CC039.	Sanwal, B.D.	ED016, ED047.
Roder, J.C.	EC027- EC029, EC033, EN104, EN105.	Sanwal, M.	BH001.
		Sapp, J.P.	EU014, EU015, EU041, GA002, GA012.
Rodger, N.W.	EN106, EN107.		EN117.
Rogers, C.	BA001, BA016, BA018- BA021.	Sardesai, V.M.	BC046.
	ED016, ED047.	Sartoris, N.	EU046.
Rogers, J.	CG063.	Schaaf, H.D.	AC026.
Rokeach, M.	CG064.	Schatzberg, W.	CG065.
Rollman, G.B.	EW032.	Scheid, A.B.	EN005.
Rolls, E.T.	EY013, EY014.	Schieven, B.	BF009,
Rorabeck, C.H.	EN136.	Schloessin, H.H.	BF019- BF021, BF023, BF024.
Rose, M.D.I.	EN029.		AD006.
Roseberg, I.K.	ED051.	Schluetter, H.-J.	R006.
Rosenberg, H.	BH018, BH025.	Schmeiser, J.	CG066.
Rosner, S.D.	CD019.	Schnore, M.M.	GA003, GB001, GB002.
Ross, J.H.	EN026, EN108.	Schofield, I.D.T.	BC083.
Ross, S.A.	BC084.		L017.
Rothman, W.	ES002, ES005.	Schuh, M.D.	EE029.
Rounthwaite, F.J.	EN067.	Schulte-Albert, H.G.	EV002.
Rourke, J.T.B.	EG020.	Schürch, S.F.	BK024.
Rowan, J.O.	GA003, GB001, GB002.	Schwertner, H.A.	M045, M050.
Rozanis, J.	EN026, EN092.	Scott, D.M.	EW033.
	ES002.	Seefeldt, V.	EA014, EA015.
Rubinstein, D.	EW043.	Seguin, J.J.	BH017.
Ruby, R.R.F.	BK003.	Sellery, G.R.	M051- M059.
Ruegg, D.G.	ED011, ED023, ED052, ED053.	Sells, V.E.	EE030.
Ruhm, M.E.	GA006- GA009, GA011, GA013.	Semotiuk, D.	BA023.
Rupar, C.A.		Sewchand, L.	BC016, BC018- BC022.
		Shadwick, W.F.	NC003- NC007, NC010.
Ruprecht, A.		Sham, T.K.	EG035.
			Q001.
Rushbrook Williams, S.J.C.	BC073- BC076.	Shapiro, B.J.	CC010.
Ruud, C.A.	CE033, CE034.		ED004, ED028, ED054- ED057.
Rylett, B.J.	EV015.	Sharbrough, F.W.	Q005.
		Sharby, T.F.	EN150.
Sadikali, F.	EN155.	Sharir, S.	H015.
Saibil, E.A.	EJ007, EJ008.	Sharom, F.J.	BG006.
Said, J.	EN084, EN086.		BF013, BF014, BF022.
Said, J.W.	EN085.	Sharp, C.	L022.
Said, J.W., Jr.	EN083.	Sharpe, J.R.	EE013.
Sakmar, I.A.	BA004, BA022.	Shaw, D.C.	EH006, EH007.
Salcedo, J.R.	EN109, EN161.	Shawyer, B.L.R.	BK025- BK029.
Sale, D.	M030, M031.	Shen, P.Y.	EN117.
Sanders, G.	EC004.		
Sanders, J.B.	AC023- AC025.	Shepherd, M.	
Sanders, J.T.	NG011.	Sherebrin, M.H.	
Sandoval, W.	EN006.	Shewan, C.M.	
Sanfacon, R.	EP030.	Shivers, R.R.	
Sangal, S.P.	M023.	Short, A.	

Shubik, P.	EU042, EU054, EU055.	Soltan, H.C.	ET010.
Shum, P.T.Y.	ED058.	Song, S.H.	EE010, EE022.
Shyr, H.J.	BG030, BG031.	Soper, B.D.	EW034.
Sibbald, W.J.	EN110- EN117, EN157.	Sorbie, J.	EN148, EN149.
Sim, S.K.	BC053.	Sordat, B.	EZ025.
Siminovitch, L.	EC014, EC015, EC020.	Sorrentino, R.M.	CG069.
Simkin, D.J.	BC054.	Spano, L.	EL007.
Simner, M.L.	CG067, CG068.	Spear, F.A.	AC026.
Simpson, H.	EK003.	Spence, D.J.	EG027.
Sinclair, N.R.StC.	EC030- EC032, EC036, EG029, EN037, EN038, EN118- EN121, EN124, EN129, EN130.	Spence, M.W.	CA009.
Sindhe, N.R.A.	BJ030.	Spilsted, G.	D019.
Singer, B.D.	CJ025.	Spindler, S.M.	EC015.
Singh, H.	EN121.	Spoerel, W.E.	EA001, EA016- EA019.
Singh, S.N.	BA011.	Springall, J.	BC077.
Singhal, S.K.	EC013, EC027- EC029, EC033, EN104, EN105.	Sridhar, R.	EZ026- EZ028.
Sitko, M.	NC008.	Srinivasaw, V.	BC087.
Skidmore, P.G.	Q006, Q007.	Stacey, F.D.	BE037.
Skinner, N.F.	R007.	Stanek, W.	BJ037.
Slemon, A.G.	NC008.	Staniforth, R.J.	BJ038, BJ039.
Smet, E.	Q002.	Starkey, J.	BE036, BE037.
Smith, D.B.	ED018, ED021, ED061- ED063.	Stavraky, K.M.	EK004.
Smith, D.P.	EY012, EY015.	Stebbins, P.	CG070.
Smith, D.W.	K037.	Steele, D.	CG071.
Smith, G.W.	CC033.	Steele, I.K.	CE035- CE037.
Smith, J.F.H.	EE005.	Steele, J.E.	BK030- BK031.
Smith, M.A.	BB013.	Steinbok, P.	EG028.
Smith, P.	EE031.	Steiner, R.P.	BC051, BC053.
Smith, R.S.	NF001- NF003.	Stella, A.	EW035.
Smith, R.W.	EV016.	Stepaniak, R.F.	BC034.
Smith, T.E.	BC022.	Stephens, R.G.	GA010, GA013.
Smout, M.S.	EU008, EU009, EU045.	Stern, W.	EC011, EC034, EC035.
Smythe, P.C.	CG016- CG018.	Stevenson, H.A.	NE011- NE017.
Snaith, V.P.	BG021, BG032- BG037.	Stevenson, J.H.	CH001.
Snell, R.	T018.	Stewart, M.	EL015.
Snoek, C.	P049.	Stewart-DeHaan, P.J.	ED059, EP027, EP028.
Snow, T.P.	BB010.	Stiller, C.R.	EC036, EG021- EG024, EG026, EG029, EN009, EN037, EN038, EN047- EN050, EN121- EN130, EN145, EN146, EN150, EU044.
Sole, M.J.	EN093, EN094.	Stillman, J.S.	BC078.
Solomon, D.L.	BG003.	Stillman, M.J.	BC054, BC077- BC079.
Solomon, R.	K034- K036.	Stoessl, A.	BC080, BC081.
		Stoessl, A.J.	EN002.
		Stokes, J.L.	D020.

Stone, G.L.	CG059, CG070, CG072, CG075.	Thierrin, G.	BG011, BG030, BG031, BG038, BG039.
Stoneman, D.	GA009.		
Stopps, G.J.	EU045.	Thoden, J.	M030, M031, M048.
Stothart, J.P.	M018.		
Stothers, J.B.	BC006, BC030, BC031, BC051, BC058, BC072, BC080- BC082.	Thomas, J.S. Thomas, M.R. Thompson, A.P. Thompson, A.S. Thompson, J.	EW011. EW038. NC009. BH015. EN039, M030, M031.
Strandgaard, S.	EG019.		
Strasburger, E.L.	CG073.		
Strickland, K.P.	ED042, ED050, ED051, ED058.	Thompson, M.E. Thomson, A.B.R.	CBO02. EN137.
Stroude, E.C.	EZ028, EZ029.	Thomson, A.J.	BC077, BC079.
Suau, R.	BC033.	Thomson, S.	EN043.
Sullivan, P.J.	BA012.	Thorburn, G.D.	EP009.
Sullivan, S.N.	EN154.	Thornhill, J.A.	EV008, EV017, EV018.
Surry, D.	P048, P050.		
Sutherland, G.	EE012.	Timco, G.W.	BF021, BF023, BF024.
Sutherland, R.M.	EZ005, EZ010, EZ018, EZ022, EZ027, EZ029, EZ030.	Ting, C.L. Tokmakjian, S. Tolman, J.H.	BH026. ED029, ED064. BK031.
Suzuki, M.	P023.	Tong, B.Y.	BH008, BH021, BH027.
Svenonius, E.	L018- L021.		
Swanson, W.G.	CD019.	Toogood, J.H.	EN138- EN144.
Swart, G.T.	M024.	Tornehave, J.	BG021.
Swinton, C.	EN022.	Tracy, G.L.	AD007- AD009.
Szilard, A.L.	BD028.	Trevithick, J.R.	ED015, ED060, ED065.
Szucs, A.J.	EW036.		
		Trillo, A.	EU043.
Tague, J.	L022.	Troster, M.M.	EU008, EU009.
Tague, J.M.	BD005.	Troughton, M.J.	CD048- CD050.
Takigawa, M.	EW037.	Trunkey, D.D.	EN029.
Taller, E.	ED025, ED026.	Trust, T.J.	EC037.
Talman, J.D.	BA023.	Tryggvason, B.V.	P050.
Talman, J.J.	CE038- CE041.	Tuck, D.G.	BC040, BC041.
Tan, C.T.	BC031, BC082.	Tuck, G.J.	BE037.
Tanaka, H.	P042.	Tucker, W.	AH012.
Tang, K.Y.	BC071, BC083.	Tunaley, J.K.E.	BH028- BH030.
Tarasuk, J.D.	P049.	Turek, A.	BC022.
Tashiro, Y.	ED060.	Turner, G.H.	CG074.
Tausky, T.E.	AB044.	Turner, T.J.	EX002.
Taylor, C.P.S.	EE032.	Tustanoff, E.R.	ED001.
Taylor, T.	BH006.	Tyler, L.	EC033.
Teevan, J.J., Jr.	CJ026- CJ028.		
Telford, P.	M024.	Ueda, Y.	BC045.
Teo, K.E.	BC026.	Uhlemann, M.R.	CG075, CG079.
Terpstra, F.A.	ED061- ED063.	Uksik, P.	EN133, EN135.
Tevaarwerk, G.M.J.	EG030, EN131- EN136.	Ulan, R.A.	EC036, EN047- EN050, EN121,
Tew, W.L.	EY011.		
Thas, J.A.	BG009, BG010.		EN124-EN129, EN145, EN146, EN150, EU044.
Thede, A.E.	ED004, ED054.		

Ulrichsen, R.F.	EW038.	Wall, W.J.P.	EY001, EY012,
Underwood, J.	EY012, EY015.		EY015, EY016.
University of Western Ontario. Office of the Registrar, Information Department	U001.	Wallace, A.C.	EN125, EN145, EN146, EU032, EU044, EX006.
		Wallace, J.E.	EV002.
Valberg, L.S.	EN137, EN147- EN149.	Walley, V.	K036.
		Walmsley, J.G.	EE005.
Valentine, G.H.	ET011.	Walters, R.L.	AC026.
Valleley, J.F.	EN150.	Wang, M.L.	BG028.
van der Maarel, E.	BJ040.	Wanklin, J.M.	EK003.
Vander Mallie, R.	EU026.	Ward, D.A.	K037.
Vanderwolf, C.H.	CG062, CG076, CG080.	Ward, E.W.B.	BC080, BC081.
		Ward, K.	ES003.
Van Evra, J.W.	AE010.	Ward, M.	EG029, EN130.
Van Hove Holdrinet, M.	EU045.	Ward, P.	ED041, ED066.
van Huystee, R.B.	BJ020, BJ041- BJ043.	Warden, J.T.	BC025.
		Ware, W.R.	BC033, BC049, BC050, BC060, BC063, BC070, BC071, BC083, BC084.
van, Manen, M.	NJ002.		
Van Vliet, S.	EN027, EN072, EN151.	Waring, E.M.	EX011, EX012.
Varkey, M.	EA019.	Warnhoff, E.W.	BC036,
Varmus, H.E.	EC016.		BC085- BC087.
Venesoen, C.A.	AC027, AC028.	Warren, B.A.	EU003, EU042, EU047- EU055, GB002.
Venn, R.F.	EN023.		
Vera, R.S.	EG009.	Warren, K.G.	EG022- EG024, EG031.
Versteeg, H.	K036.		
Versteeg, J.	K036.	Wasserman, S.I.	EN083- EN086.
Vichos, E.E.	EC030, EC031, EN118, EN119.	Watson, B.	BG007.
		Watson, T.A.	EZ019, EZ031.
Vick, H.	EP022, EP023.	Watson, W.C.	EN153- EN155.
Vickery, B.J.	P005, P017- P019.	Watters, C.	L022.
		Watts, W.J.	AA010.
Vidmar, N.	CG001, CG002, CG063, CG069, CG077, CG078.	Wearing, M.P.	EP031.
		Webster, A.R.	BH019, P024.
Vilis, T.	EW004, EW006, EW017, EW039- EW041.	Wehlau, A.	BB014, BB015.
		Wehlau, W.H.	BB007, BB016.
Voegelin, R.	EP022, EP023.	Weick, R.F.	EW034, EW042.
Vogt, P.K.	EF002.	Weigel, R.G.	CG079.
Volcani, B.E.	EC002.	Weintraub, S.B.	EC011.
Vostal, J.J.	EU007, EU026.	Weir, K.G.	EX006, EX007.
Vranch, J.	BG040.	Weisberg, H.F.	EN029.
Vroom, D.A.	BH031.	Weisz, G.M.	EX012.
		Welling, B.L.	K023, K024, K038.
Wada, J.A.	CG019.		
Wakem, L.P.	EC038.	Wellman, A.M.	BJ008, BJ033.
Walden, D.B.	BJ044.	Wernette, D.A.	BC012.
Waldes-Dapena, M.A.	EU046.	West, N.W.	NH003.
Walker, I.G.	ED012, ED048.	Westgate, D.G.	NA006.
Walker, J.B.	EN152.	Westmacott, M.W.	CF015.

Westmoreland, B.F.	EG032- EG035.	Yates, S.K.	EG014.
Weston, W.W.	EL015- EL017.	Yeung, K.-Y.	EW019, EW020.
Wexler, M.	EN072, EN091.	Young, G.M.	BE039.
Whalley, J.	CC001, CC040, CC041.	Young, R.A.	NC009, NC011, NC012.
Whebell, C.F.J.	CD051.	Yuhasz, M.S.	MO21.
Wheeler, M.E.	EC031, EN119.	Yuzpe, A.A.	EP025, EP033- EP038.
Whishaw, I.Q.	CG080.		
Whitby, J.L.	EC008, EC012, EC037.	Zafiratos, C.D.	BH012.
White, D.F.	EZ002.	Zajic, J.E.	BJ008, P008, P015, P016, P028, P051- P053.
White, J.	L016.		
White, R.E.	BF017.		
Whitehead, P.C.	CJ006- CJ008, CJ029- CJ034.	Zaleznik, A.	H010.
Wiesendanger, M.	EW008, EW043.	Zamecnik, J.	EP029.
Wigle, E.D.	EN011, EN093, EN094.	Zamir, M.	BA024, BA025.
Wigmore, R.	NC009.	Zanchetti, A.	EW035.
Wilcox, L.D.	EN156.	Zarfas, D.E.	EX013.
Wilkins, D.C.	EY001, EY016.	Zbarsky, S.H.	EN032, EN033.
Wilkinson, S.R.	H013.	Zeigler, E.F.	M060- M069.
Williams, G.H.	EN077.	Zeisner, R.E.	M070- M072.
Williams, R.	EY015.	Zeiss, G.D.	EZ032.
Williamson, D.R.	T019.	Zinn, J.	K039.
Willing, A.	T020.	Zis, G.	CC032, CC034.
Willis, C.J.	BC088.	Zuberi, R.	EN037, EN038.
Willner, L.A.	EE033.		
Wilson, C.E.	J004, J005.		
Wilson, J.D.	NE017.		
Wilson, R.F.	EN117, EN157.		
Wilson, R.K.	AF003- AF008.		
Winder, C.G.	BE038.		
Winkelstein, E.	NC010.		
Wolf, L.C.	CJ004.		
Wolfe, B.M.	EN158- EN160.		
Wolfe, D.M.	ED027.		
Wong, C.	EP028.		
Wong, G.L.	ES002.		
Wong, P.C.	BC005.		
Wong, T.	EP027.		
Wonnacott, R.J.	BG041, CC042.		
Wonnacott, T.H.	BG041, CC042.		
Wood, A.R.	H016.		
Wood, D.A.	H017.		
Wood, T.E.	EJ011, EN161, EN162.		
Wright, D.D.	H006.		
Wright, G.Z.	GC007.		
Wright, M.J.	CG081.		
Wright, V.C.	EP032.		
Wrigley, L.	H018.		
Wuensch, G.	DO21.		
Wysocki, G.P.	EU014, EU015.		