

The President's Report 1970 Part 2

he University of Western Ontario

The President's Report Part 2

for the Academic Year ended June 30, 1970

The University of Western Ontario London, Canada

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# REPORT OF THE PRESIDENT AND VICE-CHANCELLOR TO THE BOARD OF GOVERNORS AND THE SENATE THE UNIVERSITY OF WESTERN ONTARIO

1969-1970

### THE PRESENT OBJECTIVES OF THE UNIVERSITY

The objectives of the University during the two years prior to the one under review were almost exclusively fixed on the achievement of democratic government. That this continues to be a serious concern is demonstrated by the recent establishment of a Senate Committee to review and recommend changes in the University Act of 1967. It may be fairly said, however, that the year 1969-70 marked the shift to a greater emphasis on academic, as distinct from governmental, objectives. The chief among these are the liberalization of the requirements for the general baccalaureate degree; the widespread interest in and involvement with the work of the Academic Commissioner; the decision to limit enrolment in the Arts, Science, and Social Science faculties; and the general coordination of these new emphases and new programs with the realities of the funds available in our capital building program.

There is in addition a growing emphasis on our obligations to the community, a phenomenon that takes many forms and involves in various ways all of the major groups on the campus, students, faculty, governors and administrators.

I propose to discuss each of these objectives in detail since they, more than anything else, convey something of the general concerns of the institution as it seeks to maintain itself in the vanguard of constructive innovation. To those who perceive our appetite for change as proceeding too rapidly, I remind them first that all of the changes here recorded have been the product of careful thought and earnest debate and second that three centuries ago Francis Bacon warned us that "he who will not undertake new remedies must expect new evils."

#### **General Degree**

The most far-reaching and sweeping change in Western's long history of preparing students for general degrees in Arts, Science, and Social Science occurred when the Senate virtually abolished all combinational requirements for the degree, thereby making available to the student an enormous freedom of choice (and of course a correspondingly heavy responsibility for choosing wisely). Western no longer seeks to protect its mature young adults from the consequences of their own unwise academic choices. What we do, however, is to provide a substantially increased program of academic counselling, so that every student will have every opportunity to gain the information he needs about specific courses and about the world of work, so that he may choose well instead of badly. To those who persist in the pursuit of folly, we can only jealously preserve to them their democratic right either to fail or to emerge as academic dilettantes of little use to themselves or anyone else. We thus risk our reputation as a University and their future growth because we are deeply convinced that the progressive achievement of social maturity rests on the ability to make progressively more difficult choices. It is thus that wisdom and good judgment may in some measure be attained. But the only way in which these lessons are to be learned is when the learner is put in the position where he must accept the consequences of his choices. If those consequences are unreal or unimportant, or if the would-be learner is shielded from the consequences, then he will not learn the wisdom and good judgment we covet for him. He will instead learn that no choice really matters, that someone else will always take up the slack, that unpleasant things may always be blamed on others, and so on. He will in short learn to remain immature and childish. We are then embarked on a major experiment. Like all significant experiments, the outcome is not at all easy to predict. We are confident that many students will benefit from it. We intend to do our best to maximize that number.

#### **Academic Commissioner**

Last year I noted that Dr. Arthur Porter had agreed to come as our Academic Commissioner with a free hand to examine our curricula and their interrelationships. Dr. Porter has undertaken his broad responsibilities with great energy and enthusiasm. In less than a year he has become the best known man on the campus. Everyone interested in his work, staff and student alike, has had opportunities to present briefs and to participate in his week-end seminars on the work of the University and its place in the community. It is heartening to record that he has provoked the widest possible interest in curriculum evaluation and innovation at all levels within and without the community.

#### **Enrolment**

It has been evident for some time that Western would have to limit its enrolment. Traditionally we have been expected to undertake the education of about ten percent of those seeking university education in Ontario. We are no longer able to do so for the reasons listed below. The growing numbers of those qualifying for admission, coupled with the Provincial policy of providing assistance for all of those qualified students who need it, means a huge absolute increase in numbers seeking admission. Even with our building program we are unable to take ten percent of this new total. Again, Western is a popular university. Last year we had the largest combined total of first, second and third choices from students seeking admission to any Ontario university. Clearly, we have no difficulty in attracting more students than we can accept. But the plain fact is that there are available places for such students in the newer Ontario universities.

Western received a clear mandate to reduce our increasing rate of registration on the occasion of the 1969 meeting with the Committee on University Affairs and this has been done. This year marks the first occasion when we have limited our enrolment in Arts, Science and Social Science. This decision to reduce intake may have the immediate effect of producing an under-registration, since borderline cases seeking admission often assume that they will be refused and apply to universities where no limitations have been announced. In all likelihood, however, the long term effects will be positive. More students will apply as our innovative programs become better known and with enrolment limitation we will be able to tie admission more closely to academic quality.

It should be noted in passing that various professional faculties have been limiting enrolment for years. The following table shows the number of applications and the number of places that were available in Business Administration, Law and Medicine, in the academic year 1969-70.

# 1969-70 APPLICATIONS FOR ADMISSION AND PLACES AVAILABLE

	Applicants	Places
Business Administration	593	200
Law	787	150
Medicine	509	85

The problem of limitation of enrolment is as persistent and omnipresent as it is difficult of solution. Western, in common with its sister institutions, has had no desire for bigness for its own sake. But the Government of Ontario faced with an enormous expansion of demand for student places, plus a commitment to provide such places for all qualified candidates, moved to expand the size of existing institutions and to build new ones. The tables below show the growth in size of enrolment in Ontario universities generally and Western in particular over the past decade, together with estimates of future growth.

# PAST AND PROJECTED ENROLMENT IN ONTARIO UNIVERSITIES AND AT U. W. O., 1964 - 1974

	Actual							Estimated				
	64 - 65	65 - 66	66 - 67	67 - 68	68 - 69	69 - 70	70 - 71	71 - 72	72 - 73	73 - 74	74 - 75	
Total Ontario Universities*	50,793	58,983	68,589	79,089	92,589	114,000	124,800	137,400	153,000	167,500	186,000	
U. W. O. Constituent Full-time Enrolment**	5,352	5,975	6,849	7,417	8,694	10,278	11,715	13,055	14,112	15,060	15,897	
% U. W. O.												
Ontario Universities	10.5	10.1	10.0	9.4	9.4	9.0	9,4	9.5	9.2	9.0	8.5	

<sup>\*</sup>Enrolment in Educational Institutions by Province (from the Economic Council of Canada)

Even with curtailment in enrolment, we do no more than apply brakes to an excessive absolute increase in student numbers. Clearly, we approach a point in time when a plateau will be reached defining our upper limit of enrolment. How big will Western be? In the past, internal resolutions to limit size have been completely ineffective and will remain so in the future. In the last analysis Western will be as big as the Government wants it to become, because the forces that determine the size of any university are external to it and not within its control. Such problems are a function of the Ontario system of universities, and we are only now beginning to approach them on a systematic basis.

#### **Capital Building Program**

A great deal of energy, imagination and hard thinking has gone into the process of assessing for the Ontario system the amount of physical space per student required adequately to educate him at the university level. It will be recalled that the amount was set arbitrarily at 130 square feet, although many felt that 140 square feet was a more realistic and adequate standard. As last year's Report of the Committee on Operational Planning (COOP) showed, Western is badly underbuilt by either standard since our present assessment is only 88 square feet per student. We are then faced with serious overcrowding, even with the limitations imposed on our enrolment. We are in the midst of a vigorous building program designed to rectify this imbalance, but the needs are immediate and permanent buildings take time to erect. As a consequence we have embarked on an emergency building program whereby the beginning of the next academic year will see a mushroom growth of portable, or semi-permanent buildings on the periphery of the campus. We make no apology for these because they provide space we must have now, and because too, our regular building program is progressing well. Indeed our situation would be much worse were it not for the large Staging Building we erected two years ago. It is fair to say that we anticipated the problem but not its formidable dimensions.

The D.B. Weldon Library will, we hope, be ready in the Spring of 1971. The addition to the Alexander Charles Spencer Faculty of Engineering Science Building which will also house the Departments of Mathematics, Applied Mathematics and Computer Science will be available in the Fall of 1971. Plans are well advanced to repatriate the Faculty of Music on the campus in a building to adjoin Talbot College, scheduled to open in September, 1971. A large Social Science Centre is planned for the northwest corner of the campus opposite Stevenson Hall and thrusting out to Western Road. It will be ready for occupancy in August, 1972. At the same time a bridge building is planned to connect Stevenson Hall and the present Lawson Library. This will help relieve the demands for additional administrative space, as will the renovations planned for the Lawson building once the Weldon Library is completed.

<sup>\*\*</sup>U. W. O. Enrolment figures do not include the Affiliated Colleges

Plans are well advaned for a University Community Centre\* to be located between the Weldon Library and the new Social Science Centre. It is a source of great satisfaction to all segments of the University, faculty, students, staff and governors alike, that this building is about to take shape. Much of the initiative and enthusiasm have come from the students themselves, and great credit is due them for their efforts. They have learned a lot in planning the building and have in the process convinced even the skeptics of their hard-headed practicality. Since the Community Centre will contain many essential services the University would have to build anyway, it is being jointly financed. The University will find approximately two-thirds of the total cost and the students will find the remainder. Last Fall the students, in a general referendum, voted to increase their student activity fee by \$10 per annum, the sum to go into a Trust Fund for the Centre. This Fund which at present produces about \$100,000 a year is administered by a Board composed of persons appointed by both the Board of Governors and the Students' Council. This willingness to tax themselves is eloquent testimony to the determination of the students to do their share of fund raising.

The Health Sciences are impatiently awaiting the complex clearances which will permit them to begin additions to the Faculty of Nursing, to the Animal Quarters, to the Basic Science departments and to the present accommodation for Health Sciences administration. These plans have been cleared locally and now await the agreement of various external bodies.

It should be noted that the work on the University Hospital is proceeding apace. It will be recalled that this building is built on land adjacent to the campus and owned by the London Health Association. The building itself is also their property, although the University will be deeply involved in its operations and administration.

#### Community

I turn now to another growing emphasis, namely our concern with our community. We have, along with our sister institutions, played our part for years in adult education through winter and summer courses leading to the baccalaureate degree as well as providing courses people take for their own intrinsic interest, with no thought of formal university credit. We have made these available in many towns in South-Western Ontario and have more recently established a satellite Summer School at Owen Sound. All of this has made Western well-known and well-liked for effective, useful and unostentatious service.

We feel now that perhaps the biggest problem facing Ontario universities in the future will be the growth of adult education. In a day when less and less is demanded of more and more in the world of work, when jobs become obsolete quickly, where it is estimated that half of the work force today are engaged in jobs that did not exist ten years ago, one cannot avoid the conclusion that there will be a growing need for continuous learning, even for university graduates to return to learn new skills or keep up to date on old ones.

One can see, too, the rapidly evolving need to provide university experience for a greater proportion of the work force as technology renders specialisms obsolete and generates greater demands for the sophisticated well-trained generalist. \*\* Again the steady growth of leisure time will create a still greater requirement that universities offer to satisfy the curiosity of those who wish to employ their leisure in intellectual endeavors.

There is as well a growing student interest in and concern for the disadvantaged in the community. The Students' Council has established a Community Action Centre—years ago it would have been called a Settlement House— in the core of the city where all of those students interested in social service have an opportunity for volunteer help. Thus Arts and Science students teach English to new-comers, coach slow learners, and organize recreation and physical education classes. Budding lawyers under the eye of the Middlesex Bar Association give legal advice and senior Medical students, again under supervision, help with health problems. These are the students who deeply feel that they are their brother's keepers.

<sup>\*</sup>Two years ago this was called a Student Union Building. The new name is intended to emphasize the notion of participation by all members of the University,

<sup>\*\*</sup>One thinks of Dr. Marshall McLuhan's quip of five years ago: "Will you walk into my parlor, said the computer to the specialist!"

For years students have provided handsomely for the entertainment of the community as well as themselves not only in their vigorous intercollegiate athletic programs but in various theatrical presentations as well. For years the Gilbert and Sullivan Society has annually provided a "source of innocent merriment" produced with zest, sparkle and intelligence. The Society's arch-rival, "Purple Patches", rose to new heights last winter in its first-class production of "Camelot". Nor should those lively and hectically busy Medical students be forgotten who annually invite tachycardia by producing "Tachycardia".

By now Alumni Hall is so much a part of the cultural life of the University and the community that it is hard to believe it opened only three years ago. All of us are permanently in the debt of the Alumni who made the Hall possible and who continue to make it sparkle with the magnificent Great Artists' Concerts.

For many years the Board of Governors has kept a close contact not only with the Mayor and Council members of the City of London, but also with the Wardens and Councillors of the counties in South-Western Ontario. This University enjoys a unique position in terms of these relationships. Most of these counties contribute annually to the University as does the City of London. It is a pleasure to record the recent decision of the City to increase its donation with the aim of bringing it ultimately to \$1.00 per city resident. The funds thus generated are of the greatest importance because with few exceptions they are not earmarked and can be used for many things the Province will not pay for. They thus have an importance greater than their size. Moreover, in making these donations, the people of this part of the Province are giving us their moral support and expressing, as tangibly as they know how to, their confidence in the University. In troubled times like these, such expressions are particularly heartening.

The faculty of the University, as well as its non-academic staff, also do much to enhance the quality of life in this community. It is pleasant to record that this year the London Chamber of Commerce Award for Citizens of the Year went for the first time to an academic, namely, Professor Edward G. Pleva, one of Canada's distinguished geographers. He has for many years given generously of his skill and time to a succession of civic administrations, as well as giving leadership to the Lake Erie Regional Development Association.

Dr. J.A.F. Stevenson, Dean of the Faculty of Graduate Studies, has for years served on the London Library Board and is its present Chairman. Mr. A.E.D. MacKenzie, Assistant Dean of Men, is a member of the London Board of Education as is Professor B. Hicks of the School of Business Administration and Mr. P. Somerville of Instructional Media. Mr. O. Zamprogna, an engineer in the Department of Buildings and Grounds, is an alderman, Dean D. Bocking of the Faculty of Medicine is Chairman of the Board of Fanshawe College, and Dean R.M. Dillon of the Faculty of Engineering Science was last year's Chairman of the United Appeal Campaign of Greater London. On a broader front, Vice-President R.J. Rossiter continues as a member of the Government's Committee on University Affairs; Professor B. Kymlicka of the Department of Political Science is Secretary and Research Director of the Provincial Commission on Post Secondary Education; Dr. C.C. Bigelow was elected Chairman of the Ontario Confederation of University Faculty Associations and Dr. D.C. Williams was elected Chairman of the Committee of Presidents of Universities of Ontario.

The performing arts in London and vicinity are, almost daily, enlivened by the enthusiatic artistry of the staff and students of the Faculty of Music. Of all the sections of our Arts division, Music has the closest ties to the community, ties so frequent as to render impossible the listing of individual names.

This partial list omits the hundreds of members of the University who speak at service clubs and church groups, who enliven the productions of the London Little Theatre and the London Symphony Orchestra, and who take responsibilities of various sorts in their place of worship or in the Parent-Teacher Associations of the schools their children attend.

None of this is remarkable, indeed most of those doing these things will find it odd that they should be mentioned at all. I mention them only to give the lie to the prevailing myth that University people hold themselves aloof from community involvement and indeed, look down on it. I submit that the evidence is all in the opposite direction. We are, as Dr. Alex Corry of Queen's points out in the title of his new book, busy bidding "Farewell the Ivory Tower".

This is the age of the airborne professor, the man who is regularly consulted by government and business leaders alike. He can, and does, respond to these new (and be it admitted, often flattering) demands on his time. But he does not ignore the other, less glamorous, requests he receives.

The university in North America emerges in today's world as one of the growing points, one of the cutting edges of a society making its way into an uncertain future. As such, everything is demanded of it and everything it does is criticized. No one is satisfied with it and yet no one will abondon it, not even those young people who criticize it most bitterly of all. As Dr. J.B. Macdonald, Executive Director of the Committee of Presidents of Universities of Ontario pointed out in a recent paper, students in American universities will march, protest, sit-in, strike and on occasion, resort to violence but what they will not do is withdraw.

I was much struck by a passage of President Kingman Brewster's of Yale in his annual report where he touched on the sense of community that still somehow resides in the university in spite of everything. His comments, here presented in part and in paraphrase, apply to all universities, including Western.

"None of us has to be here," says Brewster, "most, if not all of us, could do better elsewhere.

"This is certainly true of the governors of the University who receive no pay for the long hours they devote to its welfare, nor are the concerns they work for allowed to profit from their university connections. Certainly, their time could be spent on many things more materially rewarding, yet Boards of Governors stay on.

"The same is true of my administrative colleagues, everyone of whom has had to endure unfair and uninformed criticism, has had to work unreasonably long hours for modest pay, as measured by the standards of the market place. Any of these could rather quickly relocate himself as a senior executive with more leisure and more money and perhaps less chance of ulcers and heart disease. Yet they too stay on. The same is true of the faculty. Many of these would be welcomed by any university in the world. Many more could make full-time careers of the occasional consultative and advisory duties they now perform. Business and industry are hungry for knowledgeable men of high intellect. Yet they too remain. Similarly, there is no compulsion on our students to 'hang-in' as they would put it. They elected to come, they can at any time either transfer to another university or drop out altogether. Yet, they too stay on.

"All of us are here not by compulsion, but by voluntary choice. Our community is then as fragile (and as strong) as that. What we do to and with each other determines the outcome of the adventure for us as individuals and thereby we also determine the future of the institution as a whole.

"With all its imperfections on its head, the University, this curious voluntary association still represents for all of us one of the best hopes for mankind. It needs criticism and it deserves support."

#### **Personal**

The deaths of Faculty—and retired—colleagues traverse the life of the University with special poignancy. We had several such losses this year. Professor Mary H. Gillespie served the University for thirty-five years in the Department of Secretarial Science, and was its Head since 1952. Under her faithful leadership, the Department gained a Canada-wide reputation for quality and effectiveness. Professor L.G. Soderman of the Faculty of Engineering Science, tragically cut off in his early years, was a person of wide and subtle interests and a tireless research worker in the field of soil mechanics. He served his profession, his Faculty and his University with devotion and creativity. Professor Fred Landon (retired) was most intimately connected with the development of the University from 1903 when he was a freshman until his retirement in 1950 after making history as Western's first full-time Chief Librarian and the first Vice-President and Dean of Graduate Studies of the University. With his death at 88 we lost an unsurpassable combination of teacher, librarian, administrator, journalist and historian. Professor Hartley M. Thomas (retired) had been one of the shapers of historical studies in the University, an outstanding scholar and effective teacher who will be warmly remembered by generations of his students.

Formal retirement from the University does not mean the end of active academic careers. This is true of Dr. James J. Talman who retired as Chief Librarian after twenty-three years in that position. Under his leadership the Library expanded enormously in quality, quantity, and physical development. Professor Talman will resume his productive career of scholarship and teaching in the Department of History. Dr. Talman is succeeded by Dr. Robert Lee, who is internationally recognized as a library educator and administrator.

Other retirements during the year were as follows: Professor A.C. Burton, Head of the Biophysics Department, an indefatigable and brilliant researcher who continues his work in the University; Professor A.W. Durnford of the Department of Physics who served that Department with distinction for forty years; Professor W.K. Ferguson, internationally respected Erasmian and Renaissance scholar, who continues his teaching and research in the Department of History; Mr. George O. Hartwell, who worked tirelessly and productively over many years as Alumni Director; Professor G.W. Stavraky of Physiology who served that Department with great devotion and effectiveness; and Professor R.W. Torrens, who was Head of the Department of French for twenty-five years and whose large list of publications is widely used throughout North America.

Under the system of rotating chairmanships adopted by several faculties of the University, this year marks the retirement as Departmental Chairmen of Professors Walter Balderston, (History); W.F. Dawson, (Political Science); and Mary J. Wright (Psychology). The gratitude of the University goes to each one of them and especially to Professor Wright, whose devotion and tireless efforts over many years have produced one of Canada's outstanding Departments of Psychology.

After thirty-one years of dedicated service to Western, Mr. R.B. Willis, Vice-President, Administration and Finance, resigned to accept a post with the Allpak Corporation. Mr. Willis is widely known and respected throughout Canada and the Commonwealth as the dean of university administrators. His immense skill and knowledge, his loyalty and devotion to Western have won him a permanent place in our history. Mr. Willis served as a Professor in the School of Business Administration and as Secretary to the Board of Governors before becoming Vice-President of the University. Prior to all of this, he made his mark as an undergraduate. In his history of the University, Professor Talman records that in 1928 R.B. Willis organized and played in the first University band at Western. So it is clear that from the start, he has been among the top brass of the institution.

Mr. Willis is succeeded by Mr. Allan K. Adlington, a graduate of Western and an administrator of broad experience in the Ontario universities' system.

In May of this year Mr. A.E. Shepherd announced his retirement as Chairman of the Board of Governors, having served in that capacity since 1967. Fortunately for the University Mr. Shepherd remains as a member and hence his wise counsel will not be lost to the University. First elected in 1963, Mr. Shepherd's career on the Board illustrates the essential role of knowledgeable experienced laymen in university affairs. His rational persuasiveness and calm guidance navigated the University through the stormy waters of a far-reaching revision of The University of Western Ontario Act, which became a legislative model for bicameral university government

throughout the nation. It was also under Mr. Shepherd's vigorous leadership that the decision was reached to open Board proceedings to the public — a step which reflected the Board's response to a burgeoning interest of the community in university problems.

Mr. Shepherd was succeeded as Chairman of the Board by Captain J. Jeffery whose association with and concern for the welfare of the University have been of long standing.

After forty-five years of devoted service to her alma mater, Western's first woman full professor, Dr. A. Dorothy Turville retired this year. This gracious lady inspired generations of students with an appreciation of French and Italian literature and served as Dean of Women with unsurpassed concern for all women students. For the last several years after her formal retirement, Dr. Turville has been Associate Alumni Secretary. Thousands of our graduates who have been recipients of her dedicated interest and personal warmth will wish her well.

June 30, 1970 marked the retirement of the founder and first Dean of our School of Library and Information Science, Dr. A.D. Osborn. Dean Osborn brought to his post a world of experience and innovative talent. In the space of a few years he gained for his School international accreditation and an enviable academic reputation. Dr. Osborn is succeeded by Professor W.J. Cameron, a widely recognized bibliographer and valued participant in the wider affairs of the University.

Many members of the Faculty, the Administration and student body have brought outstanding honor this year to themselves and to the University: Professor Aleksis Dreimanis, internationally known Pleistocene geologist was awarded the degree of Doctor of Science, honoris causa, by the University of Waterloo; the University of Winnipeg honored Professor L.F.S. Ritcey of the Department of Mathematics with a Doctor of Laws, honoris causa; and Huron College conferred the degree of Doctor of Divinity, honoris causa, on Dean J.G. Rowe of the Faculty of Arts; Professor J.J. Talman, Chief Librarian, was awarded the Order of the British Empire in the Spring Queen's Honour List; Professor Arthur Porter, the Academic Commissioner of the University, was elected a Fellow of the Royal Society of Canada; Professor Murray L. Barr was elected Honorary member of the Ontario Medical Association; and Professor S.H. Irvine became a Fellow of the Eugenics Society of Great Britain; Dean T.L. Hoskin was elected President of the Ontario Division, Canadian Mental Health Association; and Professor L.S. Lauchland assumed the Presidency of the Ontario Association of Professional Engineers; Professor R.G.E. Murray was appointed editor of the Bacteriological Review (American Society of Bacteriologists); and Professor C.F. Cappa was appointed editor of the Journal of the Ontario Dental Association.

The University was especially proud of the academic distinction achieved by Mr. Colin Brezicki who was awarded a Rhodes Scholarship. Our congratulations go also to Miss Margaret Mattson, winner of the Queen Elizabeth II Scholarship; and to Mr. M.A. Parmentier and Mr. R.B. Snyder who were awarded Woodrow Wilson Fellowships, as well as to Mr. D.B. Babcock, Mr. H.G. Mackenzie and Mr. B.S. McCall who were awarded Honorable Mention for the Woodrow Wilson Fellowship.

The University honored itself in conferring degrees on the following distinguished recipients:

#### 205th Convocation – Autumn 1969 John Richard Chambers Artist Doctor of Laws 206th Convocation — Spring 1970 Joseph Charles Hill Educator Doctor of Laws Academic Administrator Doctor of Laws Mark Keith Inman Choh-Ming Li Vice-Chancellor Doctor of Laws Artist Doctor of Laws Alfred Joseph Casson Vice-Chancellor Malcolm Angus MacLellan Doctor of Laws **Nursing Administrator** Virginia Henderson Doctor of Laws Physiotherapist Lilian Pollard Doctor of Laws Scientist Robert James Uffen Doctor of Science

A successful and productive year such as we have had is always the result of the combined efforts of many persons. I am particularly grateful to the members of the Board for their unflagging interest and wise counsel and to my senior academic and administrative colleagues for their sustained and frequently overtime efforts.

The Senate of the University continues to meet twice a month, a condition that imposes heavy burdens on all of its members and particularly those who serve on its many committees. I am hopeful that this may soon be changed; meanwhile all Senators and particularly the Chairmen of the standing committees deserve our admiration and our thanks.

Finally, I record my lively sense of gratitude and obligation to the entire support staff whose secretaries and stenographers keep the channels of communication open; whose Food Service members perform minor miracles every day, and whose Physical Plant members somehow keep our many buildings clean, functional and hygienic.

There are many in the "Silent Service" of the University whose "thousand acts of unremembered kindnesses" have added a vital and humane dimension to our daily affairs.

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# AN ABBREVIATED CHRONOLOGY 1969-1970

#### 1969

#### July

Dr. Arthur Porter becomes Western's first Academic Commissioner.

Professor D.G. Simpson named first Executive Secretary, Office of International Education.

Mr. Gino Lorcini appointed Resident Artist, 1969-71.

Professor L.G. Soderman of the Faculty of Engineering Science dies.

## **August**

Mr. Maurice Stubbs appointed first Art Curator.

Dr. Fred Landon - administrator, professor, librarian, journalist - dies at the age of 88.

Sister Arleene Walker appointed Dean of Brescia College.

#### September

Dr. C.C. Bigelow elected Chairman of the Ontario Confederation of University Faculty Associations.

Western's new Observatory at Elginfield formally opened.

Mr. John Richard Chambers, artist, receives Honorary Doctor of Laws degree at 205th Convocation.

#### October

Mrs. Doreen Sanders named Editor of The Business Quarterly.

Two of U.W.O. President's Medal winners Joan Finnegan (Mrs. Joan MacKenzie) of Kingston, and Sylvia Fraser (Mrs. Russell Fraser) of Toronto, presented with medals by President D.C. Williams. Other winners were Mr. John Metcalf of Montreal, and Dr. Andrew Brink of Hamilton.

#### November

Dr. D.C. Williams elected to Board of Directors of the Association of Universities and Colleges of Canada for three year term.

Dr. A.G. Davenport, Faculty of Engineering Science, appointed Chairman of the American Society of Civil Engineers Task Committee on Wind Forces.

The Family Medical Centre of St. Joseph's Hospital and The University officially opened by Ontario's Minister of Health, Hon. Thomas Wells.

#### 1970

### January

Dr. James A.F. Stevenson named Dean of Graduate Studies.

Mr. Christopher John Carr and Mr. Nathan Phillip Cohen, two Western Engineering Science students, named Athlone Fellows.

#### **February**

Mr. Frank Cosentino named Head Football Coach.

Professor William James Cameron named Dean of School of Library and Information Science, effective July 1, 1970.

Woodrow Wilson Foundation names two Designates: Mr. Michael A. Parmentier, Department of French; Mr. Ross B. Snyder, Department of History; and three Honorable Mentions: Mr. Daryl B. Babcock, Department of English; Mr. Hugh G. Mackenzie, Department of Economics; Mr. Brian S. McCall, Department of History.

Dr. W.H. Wehlau, Head of Department of Astronomy, appointed Chairman of the National Research Council Grants Selection Committee for Space and Astronomy.

Dr. David S. Leighton, School of Business Administration, named Director of the Banff School of Fine Arts and Centre for Continuing Education, a division of The University of Calgary.

Professor L.S. Lauchland, Faculty of Engineering Science, elected President, Ontario Association of Engineers.

Western's Dental Program is fully accredited by the Council on Education of the Canadian Dental Association.

Miss Margaret Mattson, M.A. graduate student in History, named one of five Ontario winners of Queen Elizabeth II Scholarships.

Professor Paul B. Park, Althouse College of Education, awarded \$237,000 by The Ford Foundation, bringing international recognition to his unique research methods in his "Early School Environment Study".

Purchase of Milton Addenda containing one hundred and twenty-three titles added to the Milton Collection.

Dean D. Bocking, Dean of Faculty of Medicine, appointed Chairman of The Board of Fanshawe College.

#### March

Captain Joseph Jeffery, O.B.E., Q.C., elected Chairman, The Board of Governors, succeeding Mr. Albert E. Shepherd, Q.C.

#### May

206th Convocation — Honorary Degrees awarded:

Mr. Joseph C. Hill	Doctor of Laws (LL.D.)
Dr. Mark K. Inman	Doctor of Laws (LL.D.)
Dr. Choh-Ming Li	Doctor of Laws (LL.D.)
Mr. A.J. Casson	Doctor of Laws (LL.D.)
Dr. Robert J. Uffen	Doctor of Science (D.Sc.
Dr. Malcolm MacLellan	Doctor of Laws (LL.D.)
Miss Lilian Pollard	Doctor of Laws (LL.D.)
Miss Virginia Henderson	Doctor of Laws (LL.D.)

Professor Hartley M. Thomas, The Department of History (retired) dies.

Dr. Howard Baldwin appointed University Research Officer.

Miss Jessie M. MacFarlane first woman to be named to the Board of Governors as representative of the Alumni Association.

Dr. E.G. Pleva, Department of Geography, receives London Chamber of Commerce annual award for distinguished community service.

#### June

Dr. Arthur Porter elected Fellow of the Royal Society of Canada.

Dr. J.J. Talman awarded the Order of the British Empire.

Mr. R.B. Willis, Vice-President (Administration and Finance), retires after 31 years of service.

Mr. Allan K. Adlington appointed Vice-President (Administration and Finance).

Mr. B.G. Hartwick appointed Director, Senate Office of Information Analysis.

#### THE UNIVERSITY SENATE

# Report of Secretary J.K. Watson

The Senate of The University of Western Ontario held twenty regular meetings, and one special meeting, in the period July 1, 1969 to June 30, 1970. On five occasions Committees of the Whole were called for consideration of special topics. Average attendance of elected membership was 33, or 75% of total; of ex officio membership 12, or 57% of total; 143 Observers and 131 Spectators attended the twenty-one meetings. Over the year, the Senate was in session for 46.5 hours. These hours do not reflect the committee hours required for consideration of Senate affairs and the preparation of recommendations for Senate action.

The Senate made recommendations to the Board of Governors as follows:

Processing Fee, admission applications from foreign countries;

Proposal for a University Community Centre, its site, and Student and University proportions; Capital Development: Faculties of Music and Social Science, Stevenson/Lawson Bridge Building, Buildings and Grounds, Food Services Commissary;

Building costs vs. provincial norm, cash flow priorities 1970-1972, expeditious action in planning development, long term planning for parking;

Allocation of supplementary funds for 1969-70 unit budgets, and alterations to buildings; 1970-71 Budget Model, budget revisions concerning the Natural Science Computing Centre, initial budget for Council on University Theatres and Art;

Establishment of Faculty Association Undergraduate Scholarships, Professor John D. Detwiler Graduate Award;

Renaming one Department and dividing another in the Faculty of Medicine, establishing a new Department in Althouse College;

Conditions of Appointment for faculty members.

Senate Councils on University Research, Animal Care, and University Theatres and Art were established, and their responsibilities and procedures defined. A Standing Committee on Operational Planning, a Standing Committee on Scholarship Policy, and a Standing Advisory Committee on Museums were set up. The Council of the School of Library and Information Science was established, and its constitution resolved.

Ad Hoc Committees were established for consideration of special situations:

Adjunct Professorships
Appeals from Student Court
CPUO Central Data Bank
Implementation, Revised General Programs
Implementation, Residence Policy
Integration of Teacher Training
Interdisciplinary Studies
Naming University Buildings
Registration Policy
Report of 31(g) Committee
Reports of "Rules" Committees
Review of University Act, 1967
System, Faculty Evaluation.

Admission policy was developed, or revised, in the categories of:

Colleges of Applied Art and Technology, Ontario College of Art, Ridgetown Agricultural College;

Faculty of Dentistry program requirements, Aptitude Tests;

Faculty of Medicine program requirements, Advanced Standing, Medical Rehabilitation Program;

Social Welfare Program, Advanced Standing;

Home Economics and Secretarial Science Options;

Acceptance Dates for Grade 13 applicants, 1970;

Requirements for Grade 13 applicants, 1971;

Requirements for Province of Quebec applicants, 1970

New courses, course and program changes were authorized by the Senate or its Committee on Academic Programs Policy in the following subjects:

Anthropology German Nursing
Biochemistry Geology Philosophy

Biology Geophysics Physical and Health Education

Biophysics Greek

Botany History Physics

ChemistryHome EconomicsPolitical ScienceComputer ScienceItalianPortugueseEconomicsJournalismPsychologyEngineering ScienceLatinRussian

English Mathematics Secretarial Science

Fine Art Medical Rehabilitation Spanish French Music Zoology

Five important topics occupied Senate attention: solution to Conditions of Appointment which had been under committee deliberation since January 1968; controlled enrolment growth, and attendant academic and physical capital development; revisions of conditions and graduation requirements for undergraduate programs; establishment of residence policies in relation to the needs of the modern student; and behavioral stnadards for members of the university community.

The relationship of the structure of the Senate to the student body was brought up intermittently throughout the year: student participation in Selection Committees, voting privileges for Observers, student representation on the Senate itself. U.S.C. briefs were submitted on the University Act, Conditions of Appointment, CPUO "Order on Campus", and Reports of "Rules" Committees.

#### **FACULTY OF GRADUATE STUDIES**

# Report of the Dean Professor J.A.F. Stevenson

On 1 July, 1969, the new Constitution of the Faculty of Graduate Studies, approved by Senate, came into operation. This new Constitution consolidated the Faculty into four major Divisions: Arts, Biosciences, Physical Sciences, and Social Sciences, each Division to be represented by an Assistant Dean when its size warrants. Professional Degree Program Committees (M.B.A., M.Clin.Sci., M.Eng., M.L.S., M.Sc.N., Mus.M.) are responsible to the appropriate Divisional Committee. This new Constitution, which also makes provision for graduate students to serve as members of the Council of the Faculty, the Executive Committee and the Divisional Committees, is published in detail in the Announcement of the Faculty of Graduate Studies. The composition of the four Divisions is listed in Table II.

On 31 December, 1969, Professor R.J. Rossiter, who had served as Dean for the past four and one-half years, resigned to devote his attention to his position as Vice-President (Academic) and Provost of the University. He has been succeeded by Professor J.A.F. Stevenson, formerly Chairman of the Department of Physiology.

Professor W. J. McClelland, who had served as Assistant Dean since 1 July, 1967, and as Associate Dean since 1 July, 1969, responsible for the Divisions of Arts and Social Sciences, was appointed Chairman of the Department of Psychology, effective 1 July, 1970. Dr. H.W. Baldwin, who served as Assistant Dean since 1 January, 1968, responsible for the Divisions of Biosciences and Physical Sciences, was appointed to the new position of Research Officer, effective 1 July, 1970. Following the Appointment Procedures laid down by Senate, Dr. R. Garth Kidd, Department of Chemistry, was appointed Assistant Dean responsible for the Divisions of Biosciences and Physical Sciences, and Dr. William H. Stockdale, Department of History, Assistant Dean responsible for the Divisions of Arts and Social Sciences, effective 1 July, 1970.

The office staff was augmented by one during 1969-70.

#### Registration

Registration figures for the past five years are shown in Table I. During the year the full-time enrolment increased from 1302 to 1590, an increase of some 22 per cent, and the non-resident enrolment, for those who have completed all requirements for the degree except the dissertation, from 88 to 150.

Table II shows the 1969-70 and 1968-69 registration by departments. In general, all Divisions showed an increase; the largest increase occurred in the registration for the Master of Library Science. Although the absolute number registered for the Ph.D. increased from 370 to 405, there was little change in the proportion of the total enrolment. Both the registration in the Prerequisite Year and in the Non-Resident Group approximately doubled. The former probably reflects the increasing desire for graduate education among those who originally thought the bachelor's degree would terminate their formal education and the latter the increasing number of doctoral candidates who have completed all formal requirements except their dissertation.

#### **Summer Registration**

The Faculty of Graduate Studies operates on a year-round basis with fall, winter and summer terms. The summer term is devoted to supervised research and reading assignments in many departments and some, particularly the School of Library and Information Science, offer formal graduate courses in this term. In 1970 the full-time registration for this term rose to 931, some 90 percent of those for whom summer facilities are available.

#### **Degrees Conferred**

The degrees conferred in October, 1969, and June, 1970, by departments are set out in Table III, page 10. The figures in parentheses refer to the degrees conferred in 1968-69.

#### **Long-Term Planning Committee**

The Long-Term Planning Committee, under the Chairmanship of Professor K.H. Burley, has considered and made recommendations on proposed new graduate programs and inter-disciplinary studies. The Committee's First Report on Proposed New Graduate Programs listed a set of criteria from a planning viewpoint for the evaluation of proposed programs. Other reports were made on specific programs. A report on Inter-disciplinary Studies within the Faculty of Graduate Studies recommended procedures to deal with applications to the Faculty for the financial support of inter-disciplinary, inter-departmental, and multi-disciplinary studies. The Committee also began an examination of the appropriate criteria for membership of the Faculty.

#### Internal Appraisals Committee of Graduate Degree Programs

This Committee was established under the new Constitution of the Faculty to examine proposed graduate programs from an academic standpoint, bearing in mind the criteria set out in Guidance in Preparing a Submission for the Appraisal of a Graduate Programme", and it was recommended that it use external consultants. During its first year of operation the Committee, under the Chairmanship of Professor E.G. Pleva, established its procedures and gave detailed consideration to several proposed new graduate programs.

#### **Proposed New Graduate Programs**

The following graduate program proposals were submitted to the Long-Term Planning Committee and to the Internal Appraisals Committee during the past year:

Ph.D. in Library and Information Science

Ph.D. in Computer Science

Ph.D. in Sociology

M.A. in Journalism and Mass Communication

On the recommendation of these Committees and the approval of the Faculty Council, the proposed Ph.D. program in Political Science was forwarded to the Appraisals Committee of the Ontario Council on Graduate Studies in April, 1970. The proposed Ph.D. program in Library and Information Science also received approval for submission to the O.C.G.S. Appraisals Committee.

#### School of Library and Information Science

The School of Library and Information Science, established in 1966 and accredited in 1969, reached a full-time registration for the Master of Library Science of 139. Its growth and innovative program was recognized by the meeting of the American Association of Library Schools held at the School in June, 1970. Professor Andrew Osborn, who was the founding Dean of the School and was responsible for its rapid development and recognition, retired on 30 June 1970. Professor William Cameron succeeded as Dean.

#### Centre for Radio Science

The Centre for Radio Science, under the directorship of Professor P.A. Forsyth, has continued to expand its facilities both on the main campus and at the Radio Observatory at Delaware. The membership now stands at 12 members, 14 associate members of whom 4 are at other institutions and 3 are postdoctoral fellows, and 20 student members. Facilities are available for the generation and detection of radio waves ranging down to submillimeter wavelengths, quantum electronics, quasi-optical techniques, interaction of radio waves with solids, gases, plasmas and beams of charged particles, the exploration of all levels of the earth's atmosphere, the sun's atmosphere and the interplanetary medium, using ground-based, rocket-borne and satellite-borne instruments. After two years of existence the Centre has worked out procedures that permit the cooperative use of facilities by its members, and cooperative research arrangements exist with several other universities in Ontario. It is expected that this aspect of the Centre's activities will increase in the near future.

### Inter-American Studies Group

In 1966 the Faculty of Graduate Studies gave formal recognition to the *Canada in the Americas Program*, which had been active informally for a number of years. In December, 1967, the group was reorganized as the *Inter-American Studies Group* with Professor N.L. Nicholson, Department of Geography, as Chairman, and Professor J.C.M. Ogelsby, Department of History, as Secretary.

The purpose of the group is to encourage and facilitate a cross-disciplinary and sometimes a cross-faculty approach to Inter-American Studies in close cooperation with existing faculties and departments. It does so by such means as promoting closer liaison between departments and faculties, assisting in building up the resources of the library, seeking funds for this and other purposes such as faculty research, graduate scholarships, research professorships, etc., and in general by any other method approved from time to time by the Graduate Dean and Faculty.

#### **Urban and Regional Development Studies**

The Urban and Regional Development Studies Group, under the Directorship of Professor E.A. Beecroft, Professor of Political Science and professor of Urban Studies in the Faculty of Engineering Science, has continued to remain active. By this means the University provides facilities for interdisciplinary research in the fields of urban and regional development. Through the Group a graduate student may undertake a program of study and research in a number of departments or faculties. While such a student is expected to take his degree in his basic discipline, arrangement are made for the program to include work in other disciplines. This interdisciplinary program provides training for a student wishing to undertake research, teaching, administration, or planning in the field of urban and regional development.

A number of students already engaged in such programs are receiving assistantships and fellowships from the University and from the Canada Council, Central Mortgage and Housing Corporation, and other sources.

#### Inter-University Consortium for Political Research

The active participation by the Department of Political Science in the Inter-University Consortium for Political Research, based at the University of Michigan, Ann Arbor, was continued. One doctoral candidate, Keith Sinclair, spent several weeks during July and August, 1969, taking the summer seminar in methodology offered through the Consortium. Dr. T.G. Harvey, Assistant Professor of Political Science, serves as Official Representative for the University.

#### **Ontario Council on Graduate Studies**

The Ontario Council on Graduate Studies, established in 1966, of which the members are the Provincially-Assisted Universities of Ontario, each represented by its Dean of Graduate Studies or Chairman of the Committee on Graduate Studies, continued its activities.

During 1969-1970 the Council has been concerned with the following:

#### (i) Appraisals Committee

This Committee continued to appraise proposed graduate programs and some established programs at the request of the Universities concerned. A Report "The First Three Years of Appraisal of Graduate Programmes" was prepared by the Ontario Council of Graduate Studies and published in early 1970 by the Committee of Presidents of the Universities of Ontario. This report has been distributed in this University.

#### (ii) Advisory Committee on Academic Planning

This Committee, established to advise on the efficient development of programs of graduate studies within the Province and avoidance of unnecessary duplication of programs and facilities, proposed a procedure for the assessment of the facilities for graduate education in the various disciplines to be carried out in cooperation with the Discipline Groups established under the aegis of the Committee of Presidents of the Universities of Ontario. This proposal was recommended to the Committee of Presidents, which has decided to implement it as a function of its own embracing the undergraduate as well as the graduate aspects of the disciplines. To provide for particular needs for the immediate planning concerning graduate education, the Ontario Council on Graduate Studies proposes to establish an Advisory Committee on Rational Development. The University continues to be represented on the Advisory Committee on Academic Planning by Professor K.H. Burley, Department of Economics and Chairman of the Committee on Long-Term Planning of this Faculty.

#### (iii) Coordination of Library Services

The Ontario Council on Graduate Studies continued its collaboration with the Ontario Council of University Librarians through the Advisory Joint Council on the Coordination of Ontario University Library Research Facilities. The Ontario Universities Bibliographic Centre Project was established with

Mr. C.D. Cook as Research and Planning Officer. The establishment of union catalogues was given serious consideration and it was recommended that every effort should be made to establish a national union catalogue of which the Ontario lists would be a part, with the Ontario Universities Bibliographic Centre providing a compatible, machine-readable, regional union list.

#### (iv) Graduate Student Support

In October, 1969, the Committee of Presidents of the Universities of Ontario accepted a recommendation that the Ontario Council on Graduate Studies undertake "a full study of the operation of the Ontario Graduate Fellowship Program to date with a view to determing whether any changes should be recommended in its objectives, method of operation, scale and relation to other programmes". A Committee on Student Financial Support has Been established by the Council. Dr. H.W. Baldwin of this University is a member of the Committee which also includes several graduate students of the Province. A report is in preparation.

#### (v) Origin of Graduate Students

The Survey of Citizenship of Graduate Students Enrolled in Master's and Doctoral Degree Programs at Ontario Universities in 1969-70 revealed that this University had the highest proportion of graduate students with Canadian citizenship or landed immigrant status (CPUO Circuletter 600, 10 April 1970).

### (vi) Survey of Employment of Ontario Ph.D. Graduates 1964-69

The Council during the latter part of 1969 also carried out a Survey of Employment of Ontario Ph.D. Graduates 1964-69. It is expected that the report on this Survey will be available in the fall of 1970.

#### (vii) Postdoctoral Financial Support

The Committee of Presidents of the Universities of Ontario has considered the need for income formula, both operating and capital, on behalf of postdoctoral fellows. The Council has established a Sub-Committee on Postdoctoral Study to cooperate with the Research Director, CPUO, in a study of postdoctoral education and its financial support in Ontario.

#### (viii) Financial and Academic Implications of Graduate Work in Education

With the integration of the Colleges of Education into certain universities, the possibility of studies in education in the graduate faculties of the province arises. The Council has established a Committee to study this matter and make recommendations. Dean E. Stabler of Althouse College is a member of this Committee.

#### (ix) Availability of Theses

The Committee established by Council in 1968 to investigate and make recommendations on the availability of theses has continued its work and has submitted several draft reports. Legal opinion has been sought on the copyright aspects of the matter. A final report and a recommended procedure is expected in the latter part of 1970.

#### Province of Ontario Graduate Fellowships

The quota for the University of Western Ontario in 1969-70 was 205 Fellowships in Arts and Social Sciences and 80 in Sciences, compared with 189 and 87 respectively in 1968-1969. The Fellowships were allocated by two committees: the Arts and Social Sciences Awards Committee under the chairmanship of Professor V.W. Sim (Department of Geography) and the Sciences Awards Committee with Dr. D.G. Wilson (Department of Botany) as Chairman. During the summer of 1970, 231 students held Summer Supplements to their Ontario Graduate Fellowship, as compared to 75 in the summer of 1969. These summer supplements do not come within a quota allowance. Discussions are now underway with the Department of University Affairs to award the Ontario Graduate Fellowships on a per-term basis rather than the academic-year system now in effect. One new discipline, Music, became eligible for Ontario Graduate Fellowship awards in 1969-1970.

#### **National Research Council Awards**

The Sciences Awards Committee, with Professor D.G. Wilson as Chairman, received all applications and was responsible for making recommendations for NRC Scholarships and Bursaries to the National Research Council. The Canada Council is planning to adopt somewhat the same procedure for the 1971

awards. The National Research Council announced a change in its procedure, requiring first-time holders of graduate student assistantships, from September, 1970, to be Canadian citizens or landed immigrants; previous grant holders were not affected.

#### Postdoctoral Fellows

The Graduate Studies Standing Committee on Postdoctoral Fellows has interested itself in the post-doctoral fellows on campus. A registry for postdoctoral fellows is being established.

#### National Conference of Graduate Students

The Society of Graduate Students of this University organized and served as hosts to the first National Conference of Graduate Students which met at Western May 13-15, 1970. Papers were presented on Graduate Student Employment and Overproduction, Financing, Relationship with Undergraduates, and Responsibilities to Society. Many Position papers were also presented.

The Executive of the Canadian Association of Graduate Schools, which met at this University, 15 May 1970, conferred with graduate student delegates attending the National Conference of Graduate Students.

Table 1
Annual Registration

	1965-66	1966-67	1967-68	1968-69	1969-70
Arts	125	140	143	159	206
Biosciences	186	201	240	271	311
Physical Sciences	189	237	276	324	333
Social Sciences	422	481	577	619	832
Total Non-Resident		41	80	88	150
TOTAL	922	1100	1316	1461	1832

Registration for 1968-69 and 1969-70 is reported employing the new Divisions for the grouping of Departments, Faculties, Schools and Professional Degree Programs (as specified in Faculty of Graduate Studies Constitution, July 1, 1969). Previous to these two years, the breakdown by Divisions was different and hence only totals are shown.

Table II

# **Faculty of Graduate Studies**

# Registration 1969-1970

Note: Registration for 1969-1970 is reported employing the new Divisions for the grouping of departments, faculties, schools, and professional degree programs as outlined in the constitution of the Faculty of Graduate Studies, July 1st, 1969. The registration for 1968-1969 is reported using the same new Divisions.

DIVISION	Total 68-69	Prere FT	equisite PT		ster's PT	FT FT	h.D.	Total 69-70
Classics English French German Music Philosophy Spanish	4 67 32 4 0 35	0 16 2 0 0 4	1 4 0 0 0 0	7 42 13 6 3 18	2 5 8 1 1 0 2	0 17 13 1 0 22 0	0 0 1 0 0 0	10 84 37 8 4 44
BIOSCIENCES	159	23	5	105	19	53	1	206
Anatomy Bacteriology Biochemistry Biophysics Botany Epidemiology Pathology Pathology Pharmacology Physical Education Physiology Psychology Zoology M.CI.Sc.	13 21 29 10 27 1 6 7 13 19 24 57 41 3	3 2 0 1 0 0 0 4 3 8 6 0		5 11 9 7 11 1 4 5 7 24 13 29 22 0	1 0 0 0 0 0 0 0 0 0 0	10 6 14 10 22 1 4 2 3 0 10 35 12 0	0 0 0 0 1 0 0 0 0 0	19 19 25 17 35 2 8 7 10 31 26 72 40 0
PHYSICAL SCIENCE	271	29	0	148	4	129	1	311
Applied Math. Astronomy Chemistry Computer Science Engineering Sc. Geology Geophysics Mathematics Physics	18 12 87 21 78 33 12 28 35	0 1 0 0 1 0 0 1 0	0 0 0 3 0 0 0 0	6 8 26 14 48 18 7 10 18	0 0 2 4 4 0 0 0 0	11 3 52 0 29 17 7 16 21	0 0 0 0 4 0 0 2 0	17 12 80 21 86 35 14 29 39
SOCIAL SCIENCES	021	5	-	133	10	130	0	333
Business Economics Geography History Library Science Nursing Political Science Sociology	358 46 50 44 55 8 25 33 619	0 13 10 12 45 7 4 16	0 0 0 1 3 3 0 3 10	360 25 32 21 139 7 16 15	0 0 0 2 24 2 2 1 31	17 24 12 8 0 0 6 0	0 0 1 1 0 0 0 0	377 62 55 45 211 19 28 35
TOTAL	1373	162	18	1023	64	405	10	1682

1968-196	<u> </u>		1969-70		
FULL-TIME			FULL-TIME		
Prerequisite Master's Ph.D.	79 853 370		Prerequisite Master's Ph.D.	162 1023 405	
Total		1302	Total		1590
PART-TIME			PART-TIME		
Prerequisite Master's Ph.D.	7 54 10		Prerequisite Master's Ph.D.	18 64 	
Total		71	Total		92
NON-RESIDENT	88	88	NON-RESIDENT	150	150
TOTAL		1461	TOTAL		1832

Table III

Faculty of Graduate Studies

# Degrees Conferred in October, 1969, and May, 1970

	Ph.I		M./ (68/9)	A. 69/70	M.B.A. (68/9) 69/70	M.Eng. (68/9) 69/70	M.E.Sc. (68/9) 69/70	M.L.S. (68/9) 69/70	M.Sc. (68/9) 69/70	M.Sc.N. (68/9) 69/70
ARTS										
Classics English French German	2	2	4 9 6 3	6 49 3 3						
Music Philosophy Spanish	2		6 1	14 6						
BIOSCIENCES										
Anatomy Bacteriology Biochemistry Biophysics	3 1 4 2	1 1 5							4 2 3 1 2 4 1	
Botany Epidemiology Medical Research Pathology Pathological Chemistry		4 1 1							<ul><li>2</li><li>3</li><li>1</li><li>3</li><li>1</li><li>1</li></ul>	
Pharmacology Physical & Health Education	1	1	7	4					2 4	
Physical & Health Eddcation Physiology Psychology	1 8	2 7	16	16					1 3	
Zoology M.Clin.Sc.	5	2							9 3	

# PHYSICAL SCIENCES

Applied Mathematics	1	1			
Astronomy		1			
Chemistry	13	16			
Computer Science					
Engineering Science	1	1			
Geology	1	6			
Geophysics	2				
Mathematics	3	2	5	8	
Physics	4	4			
SOCIAL SCIENCES					
Business Administration	1				<b>15</b> 4 168
Economics	1	2	19	18	
Geography		1	8	9	
History	1	2	5	22	
Library Science					
Nursing			4	0	
Political Science			1	3	
Sociology			15	11	
TOTALS					
Doctor of Philosophy	51	63			
Master of Arts	31	0.5	111	172	
Master of Business Adminis	stration			172	154 168
Master of Engineering	361 461011				
Master of Engineering Scie	nce				
Master of Library Science	1100				
Master of Science					
Master of Science in Nursir	na				
	5				

-11-

3 7 2 1 5 6 13 13 21 3 3 1 2

13

14

48 62

#### THE COMPUTING CENTRE

Report of the Director Mr. G.T. Lake

The demand for computer services for research and teaching continues to increase year by year. Although no major new equipment was added to the Computing Centre in 1969/70, many changes and improvements have been made and activity has been high. Organizational changes have been made and new senior staff have been added to improve the Centre's ability to respond to the needs of the users and to plan for the future.

In November 1969 a new User Liaison Group was formed to bring together under the supervision of one person all activities which directly affect the user. These include application programming, user consulting, program libraries, program documentation, publications and conduct of seminars. The objective in forming this group is to provide a single path for information flow between the Centre and the users. The User Liaison Group will provide a single locale to which users can come with problems ranging from requests for special analyses to instruction in the use of Centre facilities.

In the past year the User Liaison Group has been active in developing the user program library and writing and converting statistical processing programs for the computers in the Centre. The program library now amounts to over 150,000 cards. In addition the group has written a number of programs for staff in the Health Sciences, publishes the monthly Computing Centre Newsletter and is currently rewriting the Computer Centre User's Manual.

Also during the year the Systems Programming Group was split into two separate groups — the Systems Development Group and the Software Development Group. The position of Systems Consultant was formed to coordinate the activities of the two new groups. The Systems Development Group is responsible for installing, correcting errors, and making improvements in new computer monitor systems supplied by the manufacturer, while maintaining the overall integrity of the operating system. The Software Development group is responsible for installation and maintainence of new language processors and the production of programs which serve the needs of a large cross section of users.

During the year the Systems Development Group has developed communications control programs to support remote job entry terminals in the Centre, the Computer Science Department and University College, has installed a new improved monitor system on the PDP-10 time shared computer and made changes to the computer facilities accounting programs. The Software Development Group has rewritten a number of mathematical library programs to improve their accuracy, completed programs to control the plotter system, and worked on file storage and retrieval programs.

Amongst other staff activities the Digital Systems Engineering Group has made equipment changes to double the speed of the communications systems connecting the remote job entry terminals to the PDP-10 computer and provided special assistance to the Wind Tunnel Laboratory, Departments of Computer Science, Psychology, Biophysics, and Zoology, Althouse College, and the joint cardiac project at Victoria Hospital and the Department of Computer Science. The expertise in data communications gained by this group over the past two years is proving extremely valuable and is called upon with increasing frequency as efforts grow to promote exchange of computer services between the universities in Ontario.

In mid March 1970 the Computing Centre commenced a large scale experiment in the purchase of computer services from sources off-campus. A general purpose card reader-printer terminal was installed and contracts were negotiated with four service organizations for the use of six different computer systems produced by three major manufacturers. This terminal was the first of its kind in Canada and one of the first attempts anywhere to use a single terminal to access services from multiple suppliers on a large scale.

The experiment is being watched by other universities with interest and a number of visitors have seen the system in operation. Experience to date indicates the experiment has been successful and the service will be continued throughout the coming year. Staff of the Computing Centre are currently conducting a comparative cost performance study of the services available with a view to advising users on the most effective use of resources. It is apparent that this service meets a genuine need on campus and points the way to increased cooperation and trade in computer services between universities in Ontario.

The past year has been another active period in the history of the Computing Centre. Internal reorganization to improve effectiveness and to meet the needs of the users has put the Centre in a strong position to move ahead in the future.

#### **FACULTY OF ARTS**

Report of the Dean Professor J.G. Rowe

With the disappearance of the College System, the Faculty of Arts on July 1, 1969 reached maturity with the acquisition of its own student body. The total number of full-time faculty in 1969-70 was 151. The total number of students enrolled with the Faculty was 1,461. The Faculty embraces eight departments. The Departments of English and French were located in University College, the Department of Spanish-Italian in Middlesex College and the Departments of Philosophy, Classics, Russian Studies, German and Fine Art in Talbot College. The office of the Dean of Arts, during this year, was in Talbot College.

The year 1969-70 saw many significant changes in the administrative structure of the Faculty. On the advice of an Ad Hoc Selection Committee I recommended the appointment of Professor Graham Rose of the Department of Physics for a three year term (renewable) as Assistant Dean of Arts effective 1st July, 1970. In the spring of 1970, Dr. Rose requested that his appointment be delayed for one year so that he might fulfill a life-long ambition by accepting an important assignment at University College, Cape Coast, in Ghana. With his usual generosity, Professor A.E. Raymond of the Department of Classics graciously accepted my suggestion that he assume the position of Acting Assistant Dean of the Faculty of Arts, July 1, 1970 to June 30, 1971.

Selection Committees were established to review the Chairmanships of the Departments of English, Spanish-Italian and Philosophy. It is with great satisfaction that I record that these committees recommended the appointment for five year terms (renewable) of Professor P.D. Fleck as the Chairman of the Department of English, Professor W. Flint as Chairman of the Department of Spanish-Italian and Professor R.E. Butts as Chairman of the Department of Philosophy. The Faculty also awaits with keen anticipation the arrival (July 1, 1970) of Professors Raymond Immerwahr and Carl Barbier, the new Chairmen of the Departments of German and French respectively.

It is with great regret that I report the retirement of Professors Robert Torrens (French), H. Kalbfleish (German) and L. Ignatieff (Russian Studies). The Faculty and indeed the entire University owe much to these distinguished humanists. They will be sorely missed by students, faculty and administrators alike.

Certain developments with the Faculty are worthy of mention. The year saw new additions to the Milton Collection which serve to enhance the eminent position this collection already holds in the scholarly world. The appointment of Professor Arthur E. Barker as Professor of Renaissance Literature is consistent with the Faculty's growing interest in research in the XVIth and XVIIth centuries. It is particularly gratifying for me to mention here that the Senate, in the spring of 1970, authorized the construction of a new building to house the Department of Fine Art, thus bringing to a happy conclusion a development initiated in the spring of 1966 which led directly to the establishment of this department. My colleagues and I also take great satisfaction in the development of new courses in film and drama in the Department of English. In these and many other ways the Faculty of Arts is attempting to discharge its responsibilities to its students, the University and society as a whole.

Much remains to be done. New proposals on courses and teaching methods will soon come before the Faculty. I also sincerely hope that in the years to come members of the Faculty will play a more significant role in the government of the University.

#### **Departmental Developments**

Classics: During the year Senate approved a new course, Classics 33, an attempt to show the influence of classical thought in the Natural Sciences, Social Sciences and the Arts. Approval was also obtained for the department to change its name from Classics to Classical Studies. This change was sought in order to reflect the fact that the department now offers several courses which do not require any knowledge of the Latin or Greek language. The High School lecture series continued under the excellent supervision of Professor

Littlewood. Approximately 550 students attended the four lectures. These were "The Artistic Genius of the Greeks" (W.S. Hart, Fine Art), "Ancient Magic and Superstition" (A.R. Littlewood), "Roman War and Warmachines" (C.L. Murison) and "Rebellion and Alienation in Classical Mythology" (V.A. Broege). The series will continue in 1970-71. The Department assisted in the formation of the Classical Association of South Western Ontario, the main purpose of which is to foster interest in classical studies among High School teachers and students. Three meetings were held during the year. One further means of fostering Latin in the High Schools was the department's decision to schedule one of its senior honors courses (Latin 450) in the evening so that teachers wishing to upgrade could attend. Seven teachers availed themselves of the opportunity. An invitation was extended to the Latin teachers in London to bring their students to the University. Professor D.E. Gerber, Chairman of the department, talked to several groups about the offerings of the department and enabled them to obtain some idea of the University approach by having them attend Professor Murison's lectures in Latin 257 (Ancient History). The afternoon of March 14 was devoted to a Colloquium on Catullus. Three papers were delivered (two by professors of the University of Toronto) to an audience of just under one hundred.

English: Continuing its experimentation in both teaching method and course content, the Department of English this year introduced a new curriculum for English 20 which stresses consideration of the unique quality of each work, of the nature of modes (satire, romance, comedy, tragedy), and of genres: in addition, and for the first time a film (Bergman's Wild Strawberries) was a part of the course. The teaching of the course had in 1968-69 been in lecture sections of as many as 800 students. It was agreed some years ago to attempt very large sections and the department has done so for three years; this year the lecture-tutorial method of instruction was retained but the size of sections was reduced so that no section had more than 100 students. The universal consensus among students and faculty is that this reduction has provided a much more congenial, humane, and academically satisfactory situation.

A major experiment was continued in the honors section of English 20. Students in "20A" were given a much heavier load of work (and were so informed at the beginning of the year so that they could withdraw to another section of 20 if they wished to do so), and were given instruction by a "Team" of five members of the department of varying experience and interests. Formal lectures were given by individual members of the team, but a number of lectures in which two participated were held and a number of panel discussions, some of which had students as panel members. Students (in their written evaluations) and the members of the team were pleased with the experiment and greatly excited by the further possibilities it posed. It would not likely be possible to institute this method of teaching in every course. Next year, the department will extend their use of the team-teaching into three sections of English 20 and into a number of new general courses. The department reports that their new course in Film (Film 30) seems to have been generally successful.

The department was privileged to have, this year, one of the best graduating classes in honors English they have ever had. This year one of their honors students — Colin Brezicki, was awarded a Rhodes scholarship. Next year, a new program will go into effect. All of the recommendations proposed by the Arts Review Committee with regard to honors programs in Arts are to be seen in the new honors programs in English approved by Senate last fall.

The Graduate Faculty in English offered three graduate courses in the summer of 1969, and 14 in the fall and winter 1969-70. Four graduate courses will be offered in the summer term of 1970 and 15 courses in the fall and winter terms of 1970-71.

Enrolment has increased considerably, and this has been reflected in the number of M.A.s granted. Thirty-three candidates for the M.A. were graduated at the Fall Convocation of 1969, 16 at the Spring Convocation of 1970, and 20 odd will be awarded at the Fall Convocation of 1970. Six candidates for the Ph.D. have pa sed the qualifying examinations and are at the thesis stage. During 1969-70, seven students connected with the department received new awards, or renewals, of Canada Council Fellowship. Mr. John Ferns held both a Canada Council and a Queen Elizabeth II Scholarship (only five of which are awarded each year in Ontario. Thirty-eight teaching assistantships were held in the department during 1969-70. The department's graduate students come from the U.K., U.S.A., France, India and Pakistan, and two-thirds of them are Canadian citizens.

On October 23 and 24, the department sponsored a Conference on Theatre and Drama of the Sixties. The speakers were Martin Esslin (drama critic, professor, and head of drama for the BBC), Herbert Blau (co-founder of the San Francisco Workshop, director, and now in charge of the drama division at the California Institute for the Arts), James Kerans (director and professor of Drama at UCLA), and Theodore Hoffman (theatre critic and professor of Drama at N.Y.U.). Perhaps the most significant aspect

of the conference is that it was open to students and visitors, and Talbot Theatre was virtually full for every lecture and discussion. The Talbot Theatre Centre production, Molière's *The Escapades of Scapin*, and the Toronto Workshop production of *Mister Bones* were performed in conjunction with the conference. A grant of \$2,500.00 from the Canada Council helped to make the conference possible. Under the direction of Professor R.G. Woodman, the department held a colloquium for its members, its students, and anyone else interested on the subject of Wordsworth and the critical reception he was given by his contemporaries and by others in the 19th century.

The department's major production this year was of *The Tempest*, and the production was presented with the help of faculty and students from the Faculty of Music. The department is extremely grateful to them for their contribution to the production and are hopeful that this kind of creative cooperation will continue. In addition to *The Tempest*, many members of the department have been directly involved in productions presented by the Players Guild, the London Little Theatre, and the Mini-Theatre.

Fine Art: The Department of Fine Art completed its third year with greatly expanded student enrolment, staff and facilities, and saw the first regular group of Fine Art Majors graduate.

The registration in the Introductory Course (Fine Art 20) was increased to 80, but approximately 100 students were turned away. Enrolment in both the honors and major programs doubled in the second year, and one or two joined the third year by transfer. A total of five students graduated as majors in Fine Art.

New courses were introduced in Renaissance art and a course was added in Contemporary Expression. Print-making was also introduced.

The department's slide collection has grown to a total of approximately 25,000 slides and loans to other departments have increased.

During the year, students in senior courses were brought into contact with contemporary artists and their work through a series of visits to the studios of six local artists. A bus tour to the Albright-Know Art Gallery in Buffalo on November 8 gave many students an opportunity of studying important examples of modern and traditional art at first-hand.

The works of staff members were widely shown in London and elsewhere during the year, and Fine Art students made their debut in exhibitions at Talbot College in November and March, and also in a successful exhibition and the sale organized by the third year students in May.

French: The Department of French, in 1969-70 offered 23 undergraduate courses in 102 sections with an enrolment of 2,190 students. It also offered eight graduate courses in which 70 students registered. Six courses were offered by Correspondence and Extension with 87 students enrolled. The grand total of students taught by the Department of French during the regular two terms of the academic year was 2,347. There were 160 honors students enrolled in the department and 130 French Majors. The number of candidates registered for the Ph.D. was 29 and for the M.A. 23. During the year two students completed the requirements for the Ph.D., and two students completed the requirements for the Master of Arts degree. A Woodrow Wilson award was granted to Michel Parmentier who will be pursuing his Master's degree at Western. Mis Suzanne Bodner, who received her degree in May, was named Assistante d'Anglais in Paris for 1970-71.

The department had as Visiting Professor during the year, Professor Pierre Sage who taught graduate courses on *Le Romantisme* and *L'Humanisme*, and undertook a lecture tour to various Canadian Universities. The trip was organized by the department but financed by the Canada Council.

A highlight of the year was the department's second international Colloquium held on April 5, 6 and 7. The Colloquium, dealing with Charles Baudelaire, was organized by Professor William Bush, assisted by Professor David Baguley and Rejean Robidoux of the University of Toronto. The French Embassy in Ottawa provided films and a very attractive exhibit of photographs of Baudelaire and Delacroix were on display in the McIntosh Gallery during the three days of the Colloquium.

The department continued its long tradition of bringing professional theatrical companies to the campus, with performances by the Tretéau de Paris of Antigone and of two plays by Ionesco. In addition, Professor Louise Forsyth directed students and department members in three highly successful performances of Molière's Le Malade Imaginaire.

The Department entertained Monsieur Jacques Dessourdres, French Attaché Culturel in Toronto, for a two day visit in April, and also welcomed Dean René de Chantal of the Université de Montréal, during his visit to the campus.

**Philosophy:** 1969-70 was a year of continuing progress in the Philosophy Department's attempt to improve excellence in both undergraduate and graduate activities. A re-organization of the freshman course had good results, as did the introduction of a new course in social, political and legal philosophy. It is hoped that this course, together with a new course in philosophy of the social sciences (to begin in 1970-71) will serve the growing needs of undergraduates interested in inter-disciplinary courses. Though not originally introduced in response to student demands for "relevance", these courses do indicate the department's continuing interest in a broad range of undergraduate offerings.

For the first time since it began offering the Ph.D. in 1964, the department ratio of Canadian to non-Canadian graduate students reached about 50-50. More important, the quality of the training of these students showed marked improvement over previous years. Though frustrated in its attempt to gain Senate recognition of its financial needs in bolstering the department's Ph.D. program in philosophy of science, the department nevertheless pushed this program forward, formalizing requirements for the degree, and appointing three new persons for 1970-71 who will participate in the program.

The Philosophy Department continued its program of visiting professors in 1969-70, and never with better results. R.B. Braithwaite of King's College, Cambridge, and Henry Kyburg, Jr. of University of Rochester, both made major contributions to the graduate program and to the University at large. The department's annual Fall Colloquium (in 1969 on the topic "Science, Decision and Value") was again a great success, with more than 175 persons attending from Canada, the United States, England and Australia. The proceedings of the meetings will be published in Synthese Library by Reidel and Co.

In 1969-70 members of the department remained active in professional circles. Robert Binkley was appointed to a second term as associate secretary of the Canadian Philosophical Association, and Robert Butts was appointed a member of the sub-committee to edit the Harvard Source Books in History of Science of the American Philosophical Association Committee on Research, Publications, and Lectures. Professor Butts was invited to participate in a plenary session colloquium on Kant's philosophy of science at the Third International Kant Congress held at University of Rochester in March.

Of some importance in the present marketplace is the fact that all philosophy graduate students seeking academic employment found it. The department is keenly aware of problems in the area of student placement in jobs. Professor Binkley, in his capacity as associate secretary of the Canadian Philosophical Association, initiated the first Canadian philosophical placement service, and will act as first director of this all-Canadian service to philosophers seeking employment. At the Canadian Philosophical Association meetings in Winnipeg in June, Professor Butts was successful in attempting to get the profession to establish a regular committee on the status of the profession, which committee will hopefully collect and distribute information about long-term job availability, together with information about graduate enrolment and production in Canadian philosophy departments.

Spanish & Italian: The Department of Spanish & Italian completed the third year of its existence on June 15, 1970 with a staff of nine full-time members, four part-time and 15 teaching assistants. Nine of the latter were given support by the Province of Ontario Graduate Fellowship program. The department reached an all-time high in enrolment during the 1969-70 academic year. The past year showed a registration of 608 students in Spanish and 103 in Italian. On the graduate level the total enrolment was 56 registrants in five courses.

On March 14, 1970 the department played host to a Colloquium held on the Spanish Golden Age dramatist, Pedro Calderón de la Barca. The speakers were two eminent British Hispanists, Professor C.A. Jones of Trinity College, Oxford, at present Visiting Professor at Brown University, and Professor P.N. Dunn of the University of Aberdeen, Visiting Professor at the University of Rochester. Dr. Jones spoke on "Calderón and Shakespeare" as well as the "Comedies of Calderón" while Dr. Dunn spoke on "Calderón, Poet of Extremity".

Academically, the year was the best the department has ever experienced. At the end of the year U.W.O. scholarships were awarded in Year IV to Nancy Karen Treloar (Spanish Language and Literature) and James Paul Barabe (German and Spanish): for work in Year III, U.W.O. scholarships were won by Jacqueline Gladys Keillor (French and Spanish) and Bonnie Colleen Betty Stones (Spanish Language and Literature). In Year II, Linda Hazel Doreen Gee was awarded the Edna Jeffery scholarship for excellence in Modern Languages and Literatures while Frances May Leathers (Spanish Language and Literature) and Carol Alexis Maki (French and Spanish) won U.W.O. scholarships.

Book prizes from the Spanish Ambassador to Canada were awarded to Brenda Faith Hessenaur and Lucille Georgina Lamothe, while the book prize from the Swiss Ambassador (for excellence in Italian) went to Fiorigio Minelli. The Sons of Italy Award, also for excellence in Italian, went to Frank Coscarella. One member of the department received his doctoral degree while another completed all the requirements and awaits approval of his thesis.

The department completed plans to expand next year by adding a second full-time Italianist and will offer a major in Italian for the first time in its history.

In conclusion, it is my happy task to express my thanks to the senior administration and to my colleagues for their constructive criticism and generous support during the academic year 1969-70.

#### **FACULTY OF SCIENCE**

# Report of the Dean Professor Andrew E. Scott

The year 1969-70 saw a period of consolidation for the Faculty of Science. The Faculty has a unique composition consisting as it does of ten departments wholly within the academic and budgetary control of the Dean, together with six departments in the Medical School which, although for budgetary and administrative purposes are accountable to the Dean of Medicine are, nevertheless, members of the Faculty of Science and offer Honors Programs in that Faculty. Although heterogeneous the system has worked remarkably well and we enjoy a climate of mutual cooperation between the various departments involved.

The space constraints are still with us and are likely to be with us for some time to come. The Sector Planning Committee of the Faculty has been active, however, in producing a blueprint for the future, and the construction of a number of temporary structures to relieve the immediate pressures has been authorized. These are expected to be ready early in the Fall.

The move to the Engineering and Mathematical Sciences addition to the present Engineering Building is expected next year. However, plans are already afoot to hasten the "repatriation" of these departments to the north end of the campus as soon as conditions permit. Planning policy will continue to be directed to the grouping of all Science departments in close proximity to each other.

#### **Faculty Developments**

During the year we were pleased to welcome Dr. J. William McGowan as Chairman of the Department of Physics. Dr. McGowan, who is well known both nationally and internationally for his work on atomic collisions, joined us on July 1st. On the debit side, two highly respected members of faculty retired in June. Dr. A.W. Durnford and Dr. G.G. Suffel, whose combined careers at Western span a period of 65 years, retired in June. We are very pleased that Dr. Suffel will remain with the Department of Geology on a part time basis. Both have been granted the rank of Professor Emeritus on retirement.

It is a pleasure to record that two members of faculty have received honorary degrees. They are Dr. A. Dreimanis of the Department of Geology who received the degree of D.Sc. honoris causa from the University of Waterloo, and Dr. L.F.S. Ritcey of the Department of Mathematics who was similarly honored by the University of Winnipeg.

At Convocation in May the University conferred the degree of D.Sc. on an erstwhile colleague Dr. R.J. Uffen, former Principal of University College and Dean of the College of Science and later Chairman of the Defence Research Board of Canada. Dr. Uffen is now Principal Science Advisor to the Privy Council of Canada. He retains his connection with Western in his capacity as Honorary Professor in the Department of Geophysics.

The Faculty continues its critical evaluation of its programs and course offerings. A three-year degree program in Geophysics has been approved by Senate. This program is unique in that students who complete the three years with a sufficiently high standing may proceed directly to a fourth year and graduate with an honors degree. I see this program as the beginning of a trend to blur the distinction between pass and honors programs.

Two teaching innovations deserve special mention. The Departments of Botany and Zoology have developed an audio-tutorial type laboratory in the Staging Building. This laboratory, which is proving to be very successful, makes use of pretaped instructional material and an open system of laboratory hours thus allowing students greater flexibility in completing laboratory assignments. Great credit is due to Dr. F.S. Cook and Dr. R.C. Jancey and their colleagues for the time spent in developing this facility.

The Department of Chemistry has also been conducting an interesting experiment in curriculum reform. A completely unified second year chemistry course was presented during the year. This integrated course was chosen as a topic for presentation at a conference on undergraduate curriculum innovations held at York University in May.

A highlight of the year was the Official Opening in September of the University Observatory at Elginfield by Dr. D.W.R. McKinley, Vice-President, Laboratories, of the National Research Council of Canada. The 48 inch telescope installed there is one of the most advanced designs in Canada. It will greatly expand the research potential of the Department of Astronomy. The 12 inch telescope in the Hume Cronyn Memorial Observatory will also continue in use for research purposes.

The visiting speaker program of the Faculty continues to develop. This is a most important part of our overall operation and is of inestimable value to us all. The contacts we make with distinguished scientists from all over the world are of vital importance to the continued viability of our research. It is of interest to record that one of the visiting professors in the Department of Chemistry during the year was a former colleague, Dr. D.C. Bradley, Professor of Inorganic Chemistry at Queen Mary College, University of London.

This year the University Lecturer in Chemistry was Dr. Henry Taube, a distinguished chemist from Stanford University, who spent three days with us lecturing on his research interests. Unfortunately, due to a combination of weather and an airline strike the University Biology Colloguium had to be cancelled.

Two important meetings were held at the University in 1969. Both were sponsored by NATO, one in conjunction with the Department of Geophysics and the other with the Department of Physics. The former took the form of a NATO Advanced Study Institute on "Earthquake Displacement Fields and the Rotation of the Earth" and was directed by Dr. A.E. Beck. The other, also a NATO Advanced Study Institute, was directed by Dr. D.R. Hay and was concerned with the "Effects of Atmospheric Water on Electromagnetic Wave Propagation". Both meetings were highly successful and brought to the campus over one hundred scientists from many parts of the world.

The Contemporary Science courses for non-science students, reported upon last year, continue to flourish. Because of the popularity of one of them — Contemporary Science B, dealing with the Life Sciences — the class had to be moved to Alumni Hall, this being the only place in the University capable of accommodating all the students in one room.

A "Positron Summer Seminar" was held in Owen Sound under the auspices of the Department of Physics in conjunction with the Department of Summer School and Extension. More than 35 research workers attended from Canada and the United States. The topic covered the use of positrons in basic and applied research. So successful was the Seminar that it is intended to repeat the prescription next year.

In July 1969 Dr. W.C. Howell became Assistant Dean of the Faculty of Science in place of Professor G. Harold Reavely who has retired. Dr. Howell retains a part-time appointment in the Department of Chemistry. Dr. R.G. Kidd, also of the Department of Chemistry will take up new duties as Assistant Dean of Graduate Studies in July 1970, when Dr. H.W. Baldwin, his predecessor, becomes University Research Officer.

#### Research Activities

It is impossible in a report such as this to do justice to the many and varied research activities which go on in the departments of the Faculty of Science. However, a good indication of the extent and variety of the research being undertaken may be had from the appendices to this report. The order of magnitude of the research effort may be gauged by noting that research funds received from the National Research Council and other funding agencies totalled \$1,956,600. This compares with a total University research expenditure of \$6,367,500, or roughly 31%.

The Photochemistry Unit reported upon last year continues to develop and is within one academic appointment of its planned complement. The Unit has attracted personnel of exceptionally high quality and is well on its way to becoming a leading centre in Photochemistry.

As a result of the efforts of the Chemical Physics Group in the Department of Physics a contract has been negotiated between the University and Atomic Energy of Canada Limited. This contract makes provision for funds to support research on the racetrack microtron with a view to developing a machine with therapeutic, industrial and research uses. The work will be under the direction of Professor Heinrich Froelich of the Department of Physics. Other important developments in the Department of Physics include the continued growth of the Radio Science Centre, which like the Photochemistry Unit, is rapidly developing into a leading research centre, and the opening of new facilities in Atomic and Molecular Physics.

#### Conclusion

A report such as this must either be very long or relatively short. There is no middle ground. To do full justice to the contributions the faculty have made to teaching and to research, not to mention their many contributions to the committee work of the University, would require many pages. In default of such a lengthy chronicle, I would like to take this opportunity of thanking all members of the faculty for their help and cooperation during the past year. Nor do I forget the valuable contribution made by the supporting staff without whose help we could not function as a Faculty. I also wish to place on record my sincere thanks to them.

# FACULTY OF SOCIAL SCIENCE

# Report of the Dean Professor Grant L. Reuber

In addition to dealing with a wide variety of immediate issues, the Faculty of Social Science during 1969/70 gave considerable attention to planning for its future development. Early in the year the Faculty agreed to undertake a Grand Assize of the Social Sciences at Western. The main focus of this review is on our teaching and research activities. Among other things, it implies a review of our objectives, our strengths and weaknesses and the formulation of detailed plans, in terms of staff and facilities, to meet our objectives in future years. During the year information was collected describing and analyzing the Faculty's teaching and research activities. In addition, plans for the future were actively discussed within each Department.

Prompted in part by these discussions, most Departments introduced curriculum changes which will become effective in 1970. A number of Departments also introduced modifications in the way courses are being taught. These changes have tended generally to make curricula more flexible, to enlarge the range of choice open to students and to enhance the individual attention given to the student throughout the academic year.

During the year plans were approved to offer undergraduate courses in Anthropology and Archeology and a new interdisciplinary course "Man in Contemporary Society". At the graduate level, two Departments, Political Science and Sociology, submitted plans to the Graduate Faculty for new PhD programs and the Department of Journalism submitted plans for a MA program.

The wide-ranging research activities of the Faculty are indicated in Appendices B and C of this report recording the publications and addresses by members of the Faculty. Several points are particularly noteworthy in this connection. First, it is evident that not only are the research activities of the Faculty increasing but also that the Faculty is approaching a threshold which, within the next two or three years, is likely to support a substantially broader range of research activities. Second, and very important, many of the research activities described involve considerable student participation at the graduate and undergraduate levels, both as part of the instructional process and, more conventionally, as a source of research assistance. Third, it is evident that the quality of the Faculty in terms of both its teaching and research functions depends to an important degree on the research activities of the Faculty working in cooperation with undergraduate and graduate students.

The teaching and research activities of the Faculty of Social Science have been supplemented by visitors from many parts of the world, as reported in Appendix E. Aside from presenting seminars and lectures, these visitors have made themselves available for informal discussions with both Faculty and students. These contacts with social scientists outside the University are of vital importance to teaching and scholarship within this Faculty and provide valuable links for both Faculty and students with other institutions of higher learning.

As far as facilities are concerned, the major development has been final approval of the plans for phases I and II of the new Social Science Centre. Construction of these two phases, totalling 171,000 assignable square feet, is scheduled to begin in the fall of 1970 and the building is expected to be ready for occupancy by September 1972. Approval of these plans not only promises some relief from the acute space situation faced by this Faculty but also offers the important prospect of bringing all Social Science Departments together under one roof for the first time, with the exception of Secretarial Science and Physical and Health Education.

During the year other plans were also initiated to improve the teaching and research facilities available to the Social Sciences. A Computer Facilities Committee was established to develop plans for the extension and improvement of the computing services available to Social Science Faculty members and students. Another Committee was established to undertake the same task with respect to library services

and facilities. Other committees undertook exploratory work on the possibilities of establishing a Survey Research Centre and a Communications Research Centre. In addition, various Departmental committees have been considering plans for future teaching and research developments within Departments as well as among Departments.

Action was also taken by the Faculty to improve student counselling services. A number of steps were taken in cooperation with Departments to improve academic counselling within the Faculty and a full-time student counsellor was appointed in the Dean's office. As a further step, the Faculty early in the year recommended to Senate the establishment of a University Counselling Service.

Among the many Faculty changes reported in Appendix A, I should like to draw particular attention to retirements. Three Faculty members retired as Departmental Chairmen in 1970: Professor M.J. Wright, Psychology; Professor W. Balderston, History; and Professor W.F. Dawson, Political Science. Senate Selection Committees were established and recommended the appointment of their successors: Professor W.J. McClelland, Psychology; Associate Professor C.A. Ruud, History; and Associate Professor S.J.R. Noel, Political Science.

In addition, I wish to recognize the contributions to this Faculty and the University made by the three distinguished members of the History Department who retired officially from the University in June, 1970: W.K. Ferguson, F. Hitchins, and J.J. Talman. I am pleased to report that Professors Ferguson and Talman have agreed to accept post-retirement appointments in the Department.

Finally, I wish to pay tribute to the memory of Professor Mary Gillespie, Chairman of the Department of Secretarial Science, who passed away on June 21, 1970. Mary was fully devoted to the interests of the Faculty and the University throughout her many years at Western. She will be deeply missed by scores of Faculty members and students, both past and present.

## **FACULTY OF MUSIC**

## Report of the Dean

# **Professor Clifford von Kuster**

Enrolment of full-time undergraduate degree students reached 239 this year with an additional 338 Arts and Science students registered in one or more credit courses in music. Three graduate students were enrolled in Masters programs and a number were engaged in special programs, some in preparation for graduate work.

The distribution of undergraduate enrolment over the various areas of concentration was as follows:

#### Freshmen 97

Music Educat	ion	Performance		Theory and C	omposition	Music History	
Second Year	45	Second Year	7	Second Year	4	Second Year	3
Third Year	28	Third Year	5	Third Year	2	Third Year	3
Fourth Year	13	Fourth Year	5	Fourth Year	1	Fourth Year	2
Total	86	Total	17	Total	7	Total	8

B.A. With Hor	nors Music	B.A. With Gen	eral Music	Special and Part-time Students
Second Year	5	Second Year	10	5
Third Year	2	Third Year	6	
Fourth Year	1			
Total	8	Total	16	

In order to accommodate the increased numbers of students and the eight new members of faculty (See Appendix A) approximately 4,800 square feet of usable space was constructed for the faculty to provide class-rooms, practise and office teaching studios.

## **Building Project**

Both the Sector Planning Committee and the Project Planning Committee met regularly throughout the year and plans for the new faculty of music building as prepared by Architects Murphy and Schuller were approved. Construction is expected to begin as soon as final Government approval has been received. The building of 27,400 square feet of usable space will be situated adjacent to Talbot College and will provide a recital hall seating 250, special rehearsal and practice facilities, and offices. General classroom and library space is to be obtained in Talbot College.

The more centralized location of the new facilities for music should enable the faculty to contribute more effectively to the cultural life of the University community and to integrate with other disciplines more easily.

#### Symposium II: The Baroque

The most important academic project undertaken by the faculty this season was the planning and presentation of SYMPOSIUM II: "THE BAROQUE" which was sponsored by the Ontario Music Educators Association. Organized by Professor J. Stark and attended by more than two hundred representatives from all levels of education, this was an occasion when Music Education and Musicology combined their resources to create a program of excellence for Canadian teachers and scholars.

The events of the three day program were as follows:

## Friday, January 30, 1970

"The Baroque: A Multi-Faceted Age."

Dr. Paul Henry Lang, Columbia University.

"The Baroque: Problems of Stylistic Change."

Dr. Philip Downs, University of Western Ontario.

"Stylistic Elements in Baroque Music."

Professor Denis Stevens, Columbia University.

Cello Pecital

Presented by Professor Tsuyoshi Tsutsumi, University of Western Ontario.

Banquet in The Great Hall of Somerville House.

Play: Shakespeare's "The Tempest" with appropriate music,

presented by The University of Western Ontario Department of English; directed by Dr. E.A. Peyroux.

## Saturday, January 31, 1970

"Performance Practice in the Baroque Era."

Dr. George Houle, Stanford University.

Workshop on Performance Practice, with Dr. George Houle,

the Trio Flauto Dolce, and Jean Hakes.

Concert of Vocal and Instrumental Music of the Baroque,

presented by the Trio Flauto Dolce, with

Bernard Krainis, Eric Leber, Morris Newman, and

Jean Hakes, soprano.

## Sunday, February 1, 1970

Special Cantata Service, in Aeolian Town Hall presented by the University of Western Ontario Chamber Choir, directed by Professor Deral Johnson.

Although the details of faculty changes are listed in Appendix A at least two deserve special mention. Professor D. McKellar, who organized and developed the Department of Music Education and has served as chairman since its formation in 1960, was appointed Associate Dean of the faculty effective July 1, 1969. Professor Paul Green succeeded him as Chairman of the Department of Music Education.

# Music Education Department — Professor Paul Green, Chairman

The department introduced two new programs which are related to careers in Elementary School teaching. As these programs are not offered in any other Ontario university, there has been widespread interest throughout the province. The 1970-71 sessional appointment of Mrs. Ilyona Bartalus of Hungary will ensure a direct Kodaly influence, which is essential to these programs.

Interest in Graduate programs in Music Education was also evident during the year and a number of candidates have been accepted for the 1970-71 academic year.

The Music Education faculty has responded again this season to numerous requests to appear as performers, clinicians and adjudicators. The U.W.O. String Quartet and the London Woodwind Quintet were particularly active in visiting schools and providing special concerts this season.

The addition of Professors Kenneth Bray and George VanOstrand has added new strength to the woodwind division, and Professor Deral Johnson has contributed to the growth of our choral activities.

## Applied Music Department — Professor John McIntosh, Chairman

The following is an analysis of undergraduate student enrolment by principal instrument.

Piano	118	Tuba	3
Violin	7	Clarinet	15
Viola	3	Flute	4
Cello	5	Oboe	2
Organ	20	Bassoon	1
Voice	13	Percussion	4
Trumpet	18	Saxophone	4
Trombone	10	Guitar, Classical	1
Horn	10	Harp	1

A total of 72 concerts and recitals was given by the Faculty of Music in 1969-70 including performances by faculty members, students and guest artists. Master classes were presented for students and public by Leonard Rose, cellist; Gyorgy Sebok, pianist; Bernard Legace, organist, and members of the Music from Marlboro Ensemble.

The U.W.O. Quartet performed more than thirty concerts in schools in London, Toronto, Port Dover and Woodstock. With Dean Clifford von Kuster, pianist, as guest artist they played for the Peterborough Chamber Music Society.

The London Brass Quintet and the London Woodwind Quintet each did a series of school programs in London. Our faculty members hold key posts in these organizations as they do in the London Symphony Orchestra.

Individual faculty members have gone travelled widely as performers. Cellist Tsuyoshi Tsutsumi played in Holland, Poland and Japan and many parts of North America. Pianist Damiana Bratuz has played or lectured in Toronto, Brantford, Sarnia, Windsor and Banff School of Fine Arts. Her book, The Folk Element in Bartok, is to be published by the Oklahoma University Press in the coming year. Pianist John-Paul Bracey who joined our faculty this year has played in Tallahassee and Orlando, Florida; Chautaqua, N.Y.; Pittsburgh, Pa; Southwestern University in Memphis, Tenn., and gave a performers workshop in Fort Wayne, Indiana. He also performed four times on campus and appeared with the London Symphony Orchestra in March. Violist Ralph Aldrich has performed with both the National Arts Centre Orchestra in Ottawa and the Canadian National Ballet Orchestra in Toronto. Organist Larry Cortner played in Oshawa and London, and Tenor James Stark performed a recital with lutenist Paul Gerrits at Laval University.

Professors Paul Green, Ken Bray, Howard Munn, Associate Dean McKellar and others have adjudicated music festivals in communities as far distant as Port Arthur, Ontario, and St. Johns, Newfoundland.

Professor J. McIntosh performed a recital in July in Rochester. He received a Canada Council fellow-ship for the year 1969-70 to assist in his research for the dissertation to fulfill the requirements for the degree Doctor of Musical Arts offered by the University of Rochester.

# Theory and Composition Department - Dr. C. Haenselman, Chairman

Regular departmental meetings were held and discussion included minor course revisions, achievement levels in aural skills and self-help programs in ear training.

The composition classes were larger this year with a total of 22 students enrolled including those who were studying composition as an elective. Two recitals of student composition were given and a concert of avant garde music was organized and presented by Professor A. Fisher.

Professors Giron, Clements and Haenselman attended the Canadian Association of University Schools of Music meetings at the University of Manitoba in June. On this occasion Dr. Haenselman gave a paper entitled "Toward a Theory of Rhythm".

Faculty composers had a productive year. Professor Jean Anderson's overture "The Langdales" was performed in Rochester. Three performances of works by Professor A. Fisher were given, one here and two at the University of Michigan. He has been commissioned for two new works. His "Six Aphorisms for Piano" was published by C.A.P. Publications in Hollywood. Professor A. Giron had three local performances of works and has added approximately ten new publications to his list.

Swedish composer Gunnar Bucht gave a lecture-demonstration of contemporary Swedish music for the students. Sponsored by the Swedish Government he illustrated his lecture with tapes, played some of his recent works and discussed the role of the composer and his work in our time.

#### Music History Department - Professor G. Greene, Chairman

The Department played a major role in presenting Symposium II: "The Baroque". Professor J. Stark was chairman of the symposium committee and Dr. Philip Downs gave a paper on "Stylistic Elements in Baroque Music". Two internationally known musicologists were guest speakers on this occasion: Dr. Paul Henry Lang and Professor Denis Stevens, both of Columbia University.

The first meeting of Canadian musicologists was convened at a luncheon given by the Department on Friday, January 30 and was attended by more than 30 Canadian scholars.

Dr. P. Downs was invited to contribute to the Beethoven Bicentennial Number of the Musical Quarterly and was one of two Canadians to attend the Beethoven Symposium in Vienna in June.

#### Research

For the past two summers Professor G. Greene has been engaged in a research project with the aid of Canada Council grants involving work with original music manuscripts held in France, Italy and England.

As a result, a series of five books of French Polyphonic music of the 14th century is to be published by Oiseau Lyre Publications. Oxford University Press has requested a book on the Machaut-Dufay period which would be used as a textbook for graduate students, and A. & R. Editions have asked for a collection of French secular pieces for their "Recent Researches in the Music of the Early Renaissance" series.

L'Institut de France has invited Professor Greene to write the introductory chapters for the facsimile edition of the Chantilly Manuscript being prepared for publication in 1971.

# **Visiting Professor**

Visiting Professor of Cello Tsuyoshi Tsutsumi continues to combine international concertizing with his faculty teaching. He played over forty recitals and has completed recording sessions for three new discs to be released later this year by CBS/Sony Records Company. He was awarded the Osaka Critics Club Prize for "the most excellent performance of the year" given at the 12th International Festival in Osaka in February.

In addition to North American performances in Toronto, Ottawa, Hamilton, Waterloo, London; Iowa State University; Walla Walla, Washington; University of New Hampshire and Bridgewater State College, Mass., the following international appearances are of special interest.

October 1969	Premiere performance of Hans Kox cello concerto wi	th the Netherlands
Octobel 1303	i refinere perioritalice of Flans Nox Cello Concerto Wi	th the Netherlands

Chamber Orchestra, Szyman Goldberg conducting.

Recitals in Dordrecht, Drachten and Emmen, Netherlands.

November 1969 Performance of Dvorak Cello Concerto with Rotterdam Philharmonic Radio

recording at Hilversum. Performance of Jolivet concerto with Radio Phil-

harmonic Orchestra in Amsterdam.

December 1969 Recitals and recording sessions in Tokyo.

February 1970 Performance with Pomeranian Philharmonic Orchestra in Poland. (Mr. Tsutsumi

has been invited to give a master class at the Banff School of Fine Arts in the

summer.)

#### U.W.O. Choir

Under the direction of Professor G. Greene the choir presented two campus concerts, one under the auspices of the Sunday Nine O'Clock series and the other sponsored by C.F.P.L. Radio "Bunny Bundle" project. The U.W.O. choir also participated in the Intervarsity Choral Festival in Guelph, and in February completed a tour of ten Ontario centres between London and Ottawa.

#### U.W.O. Orchestra

The U.W.O. Orchestra conducted by Professor R. Skelton performed in Talbot Theatre on two occasions and on the Sunday Nine O'Clock series in Alumni Hall. In cooperation with the composition department the orchestra gave four "reading" sessions of student compositions.

## U.W.O. Symphonic Band

Conducted this season by Professor Paul Green the band performed on campus a number of times and provided music for the autumn convocation.

#### **Matters of General Interest**

Graduating student Margaret Henry won the \$5,000.00 Bell Telephone Company Award for graduate study. Mrs. Henry intends to enrol in the Masters program in composition in this faculty next year.

Associate Dean McKellar delivered a paper to the annual meeting of the Ontario Music Educators' Association in Toronto. The paper was entitled "The Role of Music Education in University Faculties of Music in Ontario". As secretary of the Canadian Association of University Schools of Music he helped draft the revised constitution of that organization and presented it at their annual meeting. He continues to conduct the International Symphony Orchestra of Sarnia-Port Huron and was recently appointed to the Board of Directors of the Ontario Federation of Symphony Orchestras. He served as adjudicator of wind classes at the Toronto Kiwanis Festival.

# **HEALTH SCIENCES**

Report of the Vice President Dr. O.H. Warwick

The graduation of our first classes in Dentistry and in Physical Therapy have, from an historical standpoint, been the most important events of this academic year. Noteworthy, too, is the fact that the Faculty of Nursing this year graduated the first classes in its new programs.

William Roach was the one and only graduate of the first class in Medicine in 1883 and he has since been followed by almost three thousand others. The University's first class in Nursing graduated in 1921 and the total number of graduates is also close to three thousand. We extend our best wishes to our first graduates in Dental Surgery and in Physical Therapy and we express the hope that they will be followed by many of their kind who will join the growing ranks of professionals having a common interest in the maintenance of health and in the care of the handicapped, the disabled, and the sick.

From the practical standpoint, the most interesting events of the year have had to do with the ways and means by which institutions in the London health sciences teaching community, including our teaching hospitals, propose to develop their facilities over the next ten years within the financial constraints imposed by government. In September, 1969, we were notified by the Senior Co-Ordinating Committee of government that the London area might receive in the period 1970-1980, for capital construction, a sum of approximately \$80,000,000 from what is called the Ontario Health Resources Development Fund. Subsequently, a London Health Sciences Co-Ordinating Committee was established with representation from the University, our affiliated teaching hospitals, and Fanshawe College. This Committee, chaired by the President of the University, submitted proposals to government in January, 1970, for allocation of the above funds. That these proposals would be unacceptable to government was anticipated because the totals suggested were more than government can make available to the community. Moreover, a new dimension had been given to our problems by the decision that Westminster Hospital, which for many years has administered to the needs of our war veterans under the auspices of the federal Department of Veterans Affair's should become an integral part of this region's Hospital services for all civilians and not restricted just to veterans of our wars and members of our armed services. Accordingly, it has been agreed by the Senior Co-Ordinating Committee that a role function study of all health facilities in the London area should be undertaken by a firm of hospital consultants. The terms of reference for the study include Westminster Hospital and place special emphasis upon the financial constraints imposed in September, 1969. Such a study will take four to six months to complete and approval for construction of other than University Hospital cannot be expected before June of 1971. Hopefully, we may at that time be allowed to proceed with the first phase of expansion of our campus health science facilities, including a new nursing building, moderate expansion of basic health science facilities and additions to our library and animal quarters. Meanwhile, we are pleased to report that construction of University Hospital, under the auspices of the London Health Association, is on schedule, apart from temporary delays in the "cladding", and should be ready for transfer to the owners in May, 1972, for occupancy by first patients in September, 1972 and for full operation in January, 1973.

In all countries of the western world people are questioning the relevance of university activities to the practical needs of society. The argument is put forth that universities are not sensitive to man's immediate requirements and must take a more active role in this regard. Insofar as the university and its health professions are concerned it is probably true that emphasis, in the past, has been primarily upon manpower production and upon research which is either fundamental in nature or directly related to the care of the sick person. At the same time, at least half of our teaching is done directly with patients and we have felt secure in the fact that what we are teaching is directly relevant to the needs of society. Be this as it may, it is becoming increasingly clear that for at least two reasons we must take a greater interest in the very important problems of health care delivery. New knowledge in matters of health care has accumulated at a rate faster than it can be applied. Moreover, the cost of delivering health care is increasing at an alarming rate.

At this University, we are sensitive to the above problems and are interested in making a contribution to their solution. Three of our present activities in this respect are worthy of mention.

One of the great needs in the practice of medicine today is that of producing more family practitioners. By creating, several years ago, a Division of Family Medicine within our Department of Community Medicine and developing the teaching of family medicine at both the undergraduate and graduate levels, we believe we have created an atmosphere for medical students and young doctors which will encourage their entry into this type of practice. More than half of our graduating students now intend to follow such a career.

We are also planning for a medically under-serviced area near London a rural health centre which will not only provide a complete range of health and health-related social services to the residents of the area but will also be innovative in the way these services are provided. As such, it will be a research project in the delivery of health care to a rural community.

Another research project related to health care delivery is also in the formative stage. A more efficient information, or library service for all persons engaged in patient care is necessary because of rapidly changing patterns in health care delivery. To this end a pilot project is being planned in cooperation with the Ontario Council of Health which will cover all health care workers in Middlesex, Elgin and Oxford Counties. The University's Health Sciences Library will be the regional resource library in a network which includes primary contact libraries such as those in peripheral hospitals, the health sciences libraries at McMaster and Guelph, the federal health library services in Ottawa and international information resources.

As a further expression of our interest in the "community" but on an evern broader basis we note with satisfaction the completion of arrangements whereby members of our clinical teaching staff and medical and dental students at both the undergraduate and graduate level will participate in the federal government's program of health care for Indians in the Moose Factory area of northern Ontario. Arrangements have also been completed for our participation, under the auspices of the Canadian International Development Agency, in the program of one of India's newest medical schools located near Madras in Pondicherry. Priorities have been established and staff chosen to work in India for six-month periods.

In summary, we believe that the activities described above serve to demonstrate that the interests of the Health Sciences extend well beyond the classroom and the research laboratory.

# **FACULTY OF MEDICINE**

Report of the Dean Dr. D. Bocking

#### Introduction

The Faculty of Medicine has continued to work closely with its sister Faculties of Nursing and Dentistry in developing the Health Sciences Centre concept at Western.

The Faculty recognizes that its prime responsibility is to provide educational opportunities for the maximum number of medical students possible and to graduate physicians with a basic core of know-ledge, skills and attitudes which will fit them, after further training, to enter the practice of family medicine, other clinical specialties, basic health sciences, or a variety of other fields.

In addition, both Basic and Clinical Science Departments have assumed an increasingly heavy role in training of graduate and postgraduate students, and other health science students, as well as continuing education for practising physicians.

In the following report, reference will also be made to the involvement of the Faculty at the community, provincial, and international level in specific projects concerned with health care delivery and medical education.

Despite increasingly heavy teaching and health care commitments, all departments are involved to a greater or lesser extent with research projects of both the basic or applied type. Research into new methods of health care delivery is being actively pursued.

#### Faculty

The death of Dr. C.F. Sullivan on March 1, 1970 is recorded with regret. Dr. Sullivan was a part-time member of the teaching staff in the Department of Obstetrics and Gynaecology from 1934 to 1960.

The retirement of several senior faculty members at the end of June 1970 is also recorded. Professor A.C. Burton, Chairman of the Department of Biophysics, first joined the Faculty of Medicine in 1945 in the Department of Medical Research. He became Head of a new Department of Biophysics in 1948. Dr. Burton brought international renown to the University and is recognized as an authority especially in the field of haemodynamics and the biophysics of the red blood cell. Dr. Burton will continue as a part-time member of the Department of Biophysics for the coming year.

- Dr. P.P. Hauch, a part-time member of the Departments of Anatomy and of Diagnostic Radiology, has retired from the active teaching staff after 21 years of service.
- Dr. H.J. Loughlin retired from the active teaching staff, after 36 years of service as a part-time member of the Department of Paediatrics.
- Dr. G.W. Stavraky retired as Professor of Physiology, after completing 34 years of service in that Department. In addition to his teaching and research in the field of gastro-intestinal physiology, Dr. Stavraky contributed significantly to the management and development of the Animal Quarters for the Health Sciences.

Our appreciation to these retiring members of Faculty is recorded.

On January 1, 1970, Professor J.A.F. Stevenson, Chairman of the Department of Physiology, was appointed Dean of the Faculty of Graduate Studies, succeeding Dr. R.J. Rossiter. Dr. Stevenson continued to hold the position of Chairman in the Department of Physiology up until June 30, 1970. The Faculty records its thanks to Dr. Stevenson for his extremely capable direction of the Department of Physiology since being first appointed Head in 1951. Dr. Stevenson will continue as a Professor of Physiology.

Professor C.W. Gowdey, Chairman of the Department of Pharmacology, was on sabbatical leave during 1969-70, working in the Department of Pharmacology of The Royal College of Surgeons of England in London. During that period Professor J.M. Parker was Acting Chairman of the Department of Pharmacology.

On July 1, 1969, Dr. C.G. Drake became Professor and Chairman of the new Department of Clinical Neurological Sciences and Chairman of the Division of Neurosurgery in that Department. On August 1, 1969, Dr. H.J.M. Barnett was appointed Chairman of the Division of Neurology in the Department of Clinical Neurological Sciences.

During the year, Dr. G.M. Abdelnour was appointed Chief of Pathology at Westminster Hospital succeeding Dr. A.C. Wallace.

Dr. H.B. Carscallen was named Chief of Psychiatry at Westminster Hospital upon the retirement of Dr. E.V. Metcalfe from that position.

The Medical Research Council extended the Scholarships held by the following members of Faculty for a further two-year period: Drs. A.C. Groom, M.R. Roach, M.H. Sherebrin, N.R. Sinclair and J.R. Trevithick.

During the year the Faculty of Medicine welcomed two Medical Research Council Visiting Professors. Dr. Joseph A. Hinke, of the Department of Anatomy at the University of British Columbia, visited the Departments of Biophysics and Physiology, and Dr. A.P. Ruderman, of the University of Toronto School of Hygiene, visited the Department of Community Medicine.

In March, Dr. Marcel Legrain of Paris, France, visited the Faculty and affiliated teaching hospitals as the McLaughlin Foundation Edward Gallie Visiting Professor.

The Faculty of Medicine was pleased to appoint the following retired members of Faculty as Professors Emeriti — Dr. A.B. Macallum, Dr. E.M. Watson and Dr. R.A. Waud.

# **Departments**

A new Department of Clinical Neurological Sciences was established on July 1, 1969, with two Divisions — Neurology and Neurosurgery. Most of the members of the new Department were previously in the Departments of Medicine and Surgery.

Because of increasing teaching commitments outside of the Faculty of Medicine the Senate concurred with a recommendation to change the name of the Department of Medical History to that of the Department of History of Medicine and Science.

In recognition of the importance of Oral Pathology to the Faculty of Dentistry, approval was given to the establishment of a Division of Oral Pathology within the Department of Pathology.

Senate approved the establishment of the new program in Communication Disorders (Speech Pathology and Audiology). This program initially is under the umbrella of Medical Rehabilitation within the Faculty of Medicine, and will be accepting its first students in September, 1970.

#### **Student Affairs**

The five student members played an important role in the meetings of the Council of the Faculty of Medicine. This year for the first time, a student also became a member of the Executive Committee of the Council of the Faculty of Medicien. Dr. John Evans, as President of the Hippocratic Society, was a full member of the Executive Committee. Students were also active on several Faculty committees including the Curriculum Policy, Curriculum and Timetable, Medical Education, and Mentor System Committees.

Mr. Harry Bergen, a final year student, was awarded a Smith, Kline and French Foreign Fellowship and worked during the elective period of his Clinical Clerkship in a mission hospital in Thailand.

Mr. J. Cox and Mr. J.H.R. McKeen, also final year students, represented Western at the C.A.M.S.I. Summer Field Clinic in Jamaica held in August, 1969. During the spring, arrangements were also made for two students to spend eight weeks in India under Crossroads International.

Several other final year students travelled to other parts of Canada, the United Kingdom, and U.S.A., during their elective period and gained further experience in areas of their own interest.

#### Education

## Undergraduate

In September, 1969, the entering class size was increased to 85 from the previous level of 75 students. First year students were given contact with patients in the second semester in a new course arranged jointly by Basic and Clinical Departments. The fourth year clinical clerkship was extended from 32 to 45 weeks commencing in June, 1969. The clerkship is modelled after the junior rotating interneship and includes a nine-week elective period. The 75 final year graduates took their Medical Council of Canada Examinations in a new format consisting of multiple choice questions in clinical science and also examinations in clinical competence.

During the year the Curriculum Policy Committee and its subcommittees continued to meet to develop a new curriculum. In its deliberations the committee has considered the objectives of the undergraduate program, the role of problem solving in the curriculum, the inclusion of additional behavioral sciences in the curriculum, the systems approach, and the emphasis to be given to education leading to the production of family physicians competent to work in a changing health care delivery system.

During the year approval was given to a revision in the admission requirements for First Year Medicine. The students may now be accepted at the completion of second year of any honors program at The University of Western Ontario provided they have obtained credit for one course in each of Biology, Chemistry, Physics and Organic Chemistry. A proposal was also approved to admit, on an experimental basis, six students who are academically well-qualified after completing only one year in the Natural Science program at the University. This proposal still requires the concurrence of The College of Physicians and Surgeons of Ontario.

## Postgraduate Education

During the year the Clinical Departments assumed increasing responsibility for the co-ordination of the postgraduate and residency training programs in the affiliated teaching hospitals. With the extended clinical clerkship, it became possible for graduates to enter a straight interneship rather than a rotating or mixed interneship. The straight interneship is now recognized in several specialties as the first year of a residency program, thereby shortening the formal postgraduate training period by a year.

#### **Continuing Medical Education**

The Program in Continuing Medical Education under the direction of Dr. A.T. Hunter continued to be active. Dr. J.P. Newell was appointed a part-time assistant to the program and became involved in developing regional programs in the area of southwestern Ontario. The Medical Education Television Series under the direction of Drs. P.A. Rechnitzer and H.J. Thurlow was again very successful. It involved the co-operation of many members of Faculty along with the staff of C.F.P.L. - T.V.

The Continuing Medical Education Program assisted in the presentation of several Refresher Days and Conferences including the Homecoming Medical Conference, Obstetrics and Gynaecology, Cancer, Anaesthesia, Urology, Chest Diseases, Perinatal and Haemophilia programs.

The Program continues to explore new and different methods of providing Continuing Education for practising physicians recognizing the increasing importance of updating their knowledge in a system undergoing constant change as the result of new discoveries.

# **Medical Rehabilitation Programs**

- 1. Physical Therapy Twenty-eight students were admitted to the second year of the program in September, 1969. In May of 1970, the first class of six students graduated from the program. At the Spring Convocation it was fitting that Miss Lillian Pollard, a distinguished and senior physiotherapist was honored with an honorary Doctor of Laws degree.
- 2. Communication Disorders (Speech Pathology and Audiology) Program Approval was received from Council of the Faculty and the Senate to begin the new four-year Baccalaureate degree program in Speech Pathology and Audiology. It was agreed that six students would be accepted for admission to the second year (first professional year) in September, 1970.
- 3. Occupational Therapy Council of the Faculty of Medicine approved the proposal prepared by an Advisory Committee for a four-year Baccalaureate program in Occupational Therapy.

Although temporary accommodation for these programs is now provided in the Dental Sciences Building, their base in future will be in the new University Hospital.

## **Building Program**

The Sector Planning Committee developed plans in cooperation with the Faculty of Nursing for a new building to house the Faculty of Nursing, additional space for Basic Science Departments, and for Health Sciences Administration. Upon completion of this expansion, it is intended to increase the entering class size of medical students to 100. The plans also include a further addition to the Medical Sciences Building to provide additional space for the Health Sciences Library.

The Faculty of Medicine cooperated in the preparation of a submission to the Senior Coordinating Committee of the Provincial Government for the ten-year development program of the Health Sciences at the University and in the affiliated teaching hospitals. The plans include the development of four Family Medical Centres which will permit the training of an increased number of family physicians.

## **University Government**

During the year Professor Stevenson served as Chairman of the Senate Committee on University Development and Professor H.B. Stewart served as Chairman of the Senate Budget and Finance Committee. Many other members of Faculty served on other important University committees. A joint committee was established with the Faculty of Dentistry to make recommendations on the Conditions of Appointment as they relate to clinical members of Faculty and those supported by outside agencies.

Dr. S.E. Carroll was elected by acclamation to serve for two years on the Senate as replacement for Professor J.C. Rathbun.

Two special committees were established in cooperation with the Faculty of Engineering Science to study the role of Biomedical Engineering in relation to the new University Hospital and also the possible expansion of undergraduate and graduate teaching of biomedical engineering.

## **Affiliated Teaching Hospitals**

The Faculty of Medicine continues to enjoy the whole-hearted cooperation of the teaching hospitals with which it is affiliated. The teaching and developing research programs of the clinical Departments would not be possible without this support.

Effective July 1, 1969, Dr. H.H. Allen was named Chief of the Department of Obstetrics and Gynaecology, and Dr. E.W.R. Campbell was appointed Director of Clinical Microbiology, at Victoria Hospital.

Planning for the new University Hospital continued during the year. The following appointments as Chiefs of Service in the Hospital were confirmed:

## Department

Clinical Neurological Sciences

Obstetrics and Gynaecology

Paediatrics

Dr. C.G. Drake

Dr. E.R. Plunkett

Dr. G.H. Valentine

A new affiliation agreement was completed between the London Health Association and The University of Western Ontario to deal with the relationship between the University and the new University Hospital. Initial meetings of the Medical Advisory Committee of the University Hospital were also held.

The representatives of the University continued to serve on the London Hospital Planning Council which attempts to achieve coordination of hospital services in the London area.

During the year considerable time was devoted to the future of the Children's Hospital. A special three-man team of paediatric consultants was appointed to review the teaching, research and service aspects of paediatrics in the London area. The team included Dr. J.O. Forfar of Edinburgh, Dr. Joseph Stokes, Jr., of Philadelphia, and Mr. Sidney Liswood of Toronto. Recommendations were made regarding the development of a new Children's Medical Centre. This report was subsequently reviewed and considered by a sixteen-man committee which was representative of the Department of Paediatrics, Victoria Hospital, St. Joseph's Hospital, the Children's Psychiatric Research Institute, Crippled Children's Treatment Centre, the University Hospital and the University. This committee recommended that a new Children's Medical Centre be developed in close relationship to Victoria Hospital and its proposed new Centennial Wing.

Several meetings were held with representatives of the major teaching hospitals affiliated with the University in the development of plans for the London Health Sciences Complex. These plans were submitted by the London Health Sciences Coordinating Committee to the Senior Coordinating Committee of Government in January, 1970.

## Inter-University Collaboration

During the year representatives of the Faculty served on the Ontario Council of Deans of Medicine. This Council dealt with many matters of mutual concern to the five Ontario Faculties of Medicine. These items included a study of the feasibility of a common application form, the pooling of waiting lists of applicants and a data bank of applicants, the new Animal Care Act, a proposed new Biomedical Institute at Guelph, sharing of the new Queen's University Vivarium, pre-registration requirements for medical students, the provincial pattern of medical research and of graduate and postgraduate manpower production, the arrangements with the O.H.S.C. for funding of geographic full-time and major part-time members of faculty, and the allocation of teaching, research and service components in affiliated teaching hospitals.

The Department of Clinical Neurological Sciences is collaborating with McMaster University in the development of a common program for postgraduate education and continuing education in the field of Neurology and Neurosurgery.

## **Community and Related Services**

#### Indian and Northern Health Services

The Faculty is collaborating with Queen's University in the establishment of a residency program in the Department of National Health and Welfare Hospital at Moose Factory. Residents in Paediatrics, Family Medicine, and Medicine will rotate for one month periods to this hospital to assist in provision of health care in this Northern Ontario community.

Plans are also being developed for a rural Health Centre in the region of Muncey, Delaware, and Mount Brydges. This is a collaborative proposal being developed by the Health Sciences with representatives of the Muncey Indian Reserves, the townships, and the Middlesex County Department of Health. It will provide an opportunity for innovative studies in health care delivery as well as providing health services in an area which is presently under-serviced.

## **Exchange Program with India**

Plans have proceeded for the establishment of an exchange program with the Jawaharlal Institute of Postgraduate Medical Education and Research at Pondicherry, India. This program is under the guidance of Dr. J.S. McKim. A contract has been developed with the Canadian International Development Agency. Initially four members of Faculty will visit the school in India for periods from three to six months.

# **FACULTY OF NURSING**

# Report of the Dean Professor R. Catherine Aikin

The academic year 1969-70 marked the fiftieth year that nursing has been taught at The University of Western Ontario. During this year, also, the old B.Sc.N. programs were phased out and the phasing in of the new B.Sc.N. programs was completed.

Several activities are under way to celebrate the fiftieth anniversary. A history of nursing at Western is being written and should be completed early in 1971. We are publishing a directory of all the graduates of diploma and degree programs and all participants at the annual Seminars for Senior Nursing Executives. This directory will be sent to the alumni in the fall of 1970. A special conference is planned for Alumni Homecoming on October 16, 1970.

#### Education

All years of the two new programs were offered this year, as well as the final year of the old Plan A and Plan B programs. The curricula of the two new programs were reviewed in detail by the faculty and some changes were recommended to and approved by Senate. In the four-year basic nursing program the number of courses in the first year will be reduced from six to five, the content related to the nursing of children will be taught as a separate couse, and more courses will be studied with other students in the Health Sciences. In the three-year program for registered nurses the number of courses in Year Two will also be reduced from six to five and the content of the nursing courses has been reorganized.

The enrolment in the basic nursing program was not increased this year. Forty students were admitted to the first year. The enrolment in the post R.N. program increased to twenty. It is difficult to increase the enrolment in the basic nursing program because of lack of qualified faculty and lack of sufficient clinical facilities.

In planning for clinical experience, the faculty have worked very closely with the health agencies, the two diploma nursing schools and the three training centres for nursing assistants. Each school or training centre is attempting to arrange the best experiences for its own students and the health agencies receive more requests for clinical experiences than they can provide. Significant progress has been made in the cooperation of all groups; however, there are still many problems to be solved.

A decision was made this year that graduates of our new B.Sc.N. programs may proceed directly into the M.Sc.N. program in teaching without completing a qualifying year. Candidates from all other B.Sc.N. programs will have their credentials evaluated individually.

The enrolment in the graduate program increased to fifteen full-time and five part-time students. This is the largest enrolment we have had.

The eighth Seminar for Senior Nursing Executives was held in June. The number of participants increased slightly. They were enthusiastic and appeared to benefit from the two-week course.

Miss E. Horn conducted a three-day workshop on the role of the nurse working with physicians in Family Practice Units or group practice. This was attended by nurses from across Canada indicating the broad interest in this new development.

# Research

More faculty became involved in research projects this year. Seven projects were funded from the Richard Ivey Foundation and one from the Provincial Health Research Grants. Mrs. V. Wood received a grant from the Department of National Health, Social Security, London, England. The teaching responsibilities of the faculty were very demanding, leaving little time for research.

# **Faculty**

Many members of the Faculty continued to contribute to the activities of professional and other organizations. They have held important posts in local, provincial and national organizations, conducted workshops for or presented papers to various groups, served as members of advisory committees to diploma schools of nursing and served on research review boards.

# **Building Project**

Some progress has been made in planning for the new building but detailed planning has been delayed. It is hoped that construction will begin next year.

# **Appreciation**

The Faculty of Nursing acknowledges the contribution made to the nursing programs by the Faculties of Arts, Medicine, Science and Social Science and by the various health agencies in London. The cooperation of these groups in planning and teaching courses and arranging for clinical experience is sincerely appreciated.

# **FACULTY OF DENTISTRY**

Report of the Dean Dr. Wesley J. Dunn

#### **EDUCATION**

## **Undergraduate Program in Dentistry Accredited**

On 21-24 October 1969, the Survey Team of the Council on Education of The Canadian Dental Association visited the Faculty of Dentistry for the purpose of preparing a report in respect of accreditation for ultimate consideration by the Survey Policy Committee and its parent Council on Education. The Survey Team had been supplied with comprehensive resource material covering all aspects of the academic and research programs, the administrative structure and the physical plant. The task of the Survey Team was to assess the total program in the light of the *Minimum Standards for the Approval of a Dental School* as approved by the CDA's Board of Governors.

## The Survey Team's complement was:

Dr. E.R. Ambrose, Chairman (Associate Professor and Chairman, Department of Operative Dentistry, McGill University),

Dr. K.L. Moore (Professor and Head, Department of Anatomy, University of Manitoba), and

Dr. D.B. Proctor (at the time of appointment a general practitioner in Winnipeg but later a member of the full-time faculty of the Faculty of Dentistry of the University of Manitoba — Oral Diagnosis — and a member of the Board of the National Dental Examining Board of Canada).

The Survey Team, subsequent to its on-site visit, produced a draft report which was referred to the Dean for the purpose of validating factual material only. The report was then considered in depth by the Survey Policy Committee before it was presented, with recommendations, to the Council on Education. The Council on Education, during its February 18-20 meeting, reviewed the report from its Survey Policy Committee. As a result of the foregoing the undergraduate dental program of the Faculty of Dentistry was fully accredited. It was recommended by the Council on Education, in view of the fact that the clinical program is not yet operating close to full capacity, that the Faculty should seek a further survey probably in 1972-1973.

The survey report contained many recommendations and a small ad hoc committee has been established to assure that each of them is carefully and conscientiously reviewed and considered. The Faculty is required, within one year of the date of accreditation, to report to the Secretary of the Council on Education the actions taken or decisions made in respect of the recommendations.

#### **Curriculum Under External Review**

The Committee on Undergraduate Dental Curriculum is engaged in a constant review and innovation of the undergraduate program. To this end, the committee has engaged Dr. J.A.B. McLeish, Executive Vice-Chairman of the Professional Educational Project of the Ontario Institute for Studies in Education. Dr. McLeish possesses a wealth of experience in higher education with particular interest in professional and continuing education. He has examined the Objectives of the Undergraduate Program, the Interim Curriculum and Course Syllabi. He has held formal and informal discussions with faculty, students and administration. His report will be forwarded by the Committee on Undergraduate Dental Curriculum to Faculty Council in the fall of 1970.

## Marking Scales and Student Ranking

The 1968-1969 report made reference to the work of an ad hoc committee on marking scales. Senate, at its meeting of 7 May 70, acted affirmatively on proposals from the Council of the Faculty of Dentistry by approving the following motions:

- (a) That the grading system for final evaluation of student performance in courses offered by the Faculty of Dentistry be:
  - U unsatisfactory performance
  - S satisfactory performance
  - G good performance
  - E excellent performance.
- (b) That the Faculty of Dentistry be empowered to determine student standing and progression to the degree of D.D.S. using the following criteria:
  - completion of all prescribed assignments;
  - satisfactory level\* of performance in each course;
  - satisfactory level\* of performance in work of each year.
  - \* Grade E, G, or S.
- (c) That the Council of the Faculty of Dentistry shall be empowered to award supplemental privileges and that no more than two supplemental examinations in the courses of any one year may be granted.
- (d) That failure to meet the criteria for standing and promotion following supplemental privileges shall be defined as a failed year.
- (e) That the Council of the Faculty of Dentistry be authorized to consider applications for re-admission of "failed year" students. Re-admission will be granted only in exceptional circumstances and then only when a vacancy is available in that year. The work of the complete year must be repeated; credit for any completed course or courses in a failed year shall not be allowed.
- (f) That the degree D.D.S. "With Distinction" be established, to be conferred on those students recommended to Senate by the Council of the Faculty of Dentistry as having attained outstanding performance.
- (g) That each department rank the students in the subjects of the department and submit the ranking schedule to the Council of the Faculty of Dentistry for over-all ranking of students in each year, and That publication of "ranking" shall not be permitted except on the written request or consent of an individual student for reasons which, in the opinion of the Dean, justify the release.
- (h) That the regulations approved above become effective July 1st, 1970.

## **Admission Requirement Amendments**

Until this year, students applying for admission to the first year of dentistry from the second year of pre-professional studies were required to come from the "science stream." Senate agreed to an amendment making it possible for applicants from Arts and Social Science, as well, to be considered. The new regulation is as follows:

"Students are eligible to apply for admission to the Faculty of Dentistry of The University of Western Ontario when they have successfully completed at The University of Western Ontario, or at other universities where comparable programs are offered, two years of university study beyond the level of Ontario Grade 13, or its equivalent, provided that satisfactory standing is achieved in at least the work of one year in each of Biology, Chemistry, Physics and Organic Chemistry."

## Amendment to Dental Aptitude Test Requirement

The Council, wishing to make provision for the consideration of an application from a candidate who, for an acceptable reason, is unable to present the results of the CDA's or ADA's Dental Aptitude Test Program, gained Senate's concurrence in respect of the following amendment to its DAT requirement:

"That candidates seeking admission to the Faculty of Dentistry be required, as a portion of their documentation, to present the report of their achievement in the Dental Aptitude Test Program conducted by the Canadian Dental Association or the American Dental Association. In exceptional circumstances, an equivalent aptitude test, as approved by the Faculty, may be accepted."

# **Regulation Respecting Student Attendance**

Council, with Senate's ratification, amended its attendance requirements. Heretofore, the regulations required that students attend not less than eighty per cent of the lectures and the laboratory and clinical sessions. This provision was, essentially, unenforceable. The following re-statement of student attendance was approved:

- (a) Students registered in any year are expected to attend the Courses of instruction in all subjects prescribed for that year.
- (b) In Dentistry, a high proportion of a student's knowledge, understanding and clinical competence, is acquired through the observation and participation in assignments, laboratory sessions and preclinical demonstrations. Consequently, attendance is considered essential."

## **Advanced Standing Regulations**

In the light of the amendments to the by-laws of the Royal College of Dental Surgeons of Ontario which now make it possible for any dentist, who can provide evidence that he is a graduate of a university dental school, to apply directly for licensing examination, it was considered propitious that the Faculty's regulations on advanced standing be reviewed.

It was agreed there was no longer a justification for providing a major portion of an undergraduate program for dentists who did not require a dental degree from an accredited dental school in order to become licensed to practise. The advanced standing provision, however, was retained to make it possible for foreign trained dentists who aspire to academic dentistry and demonstrate that they possess the appropriate attributes and who have completed a graduate program or its equivalent at an acceptable level of achievement, to acquire the degree of an accredited North American dental school.

The Senate gave approval to the new advanced standing regulation which embraced the following requirements:

- (a) the applicant must be one whose dental qualifications are such that he possesses a registrable qualification in Ontario;
- (b) the applicant must have demonstrated an acceptable level of achievement in a graduate program or its equivalent;
- (c) the applicant can only be considered for admission to the Second Year;
- (d) the Second Year be undertaken by the candidate on the distinct understanding that it will be a probationary year, and
- (e) the Doctor of Dental Surgery degree of The University of Western Ontario be not obtained in less than two academic years.

#### Admissions - 1969-1970 Academic Year

The Committee on Admissions reviewed a total of 295 applications for the 42 places available in the first year. For various reasons, sixteen applications were ruled ineligible. Of the 279 eligible applications, 92 demonstrated an academic average of "B" or higher in the final year of "pre-dental" studies.

Forty-two students were admitted to the first year. The class' academic average for the year immediately prior to admission ranged from 70.0 to 88.0 with a mean of 76.4. Seventeen students have degrees. Ages range from 20 to 27 with the mean being 22.

The RCDS Centennial Admissions Scholarship was awarded to Mr. Keith G. Mochizuki.

# Advisory Committee to the Faculty of Dentistry

The second meeting of the Advisory Committee to the Faculty of Dentistry was held on 26 November 1969. There were 19 members present representing The University of Western Ontario, Royal College of Dental Surgeons of Ontario, Canadian Dental Association, Ontario Dental Association, London and

District Dental Society, National Dental Examining Board of Canada, Royal College of Dentists of Canada, three affiliated teaching hospitals, the London Board of Education's Dental Service and the Dental Service of the Department of Veterans Affairs. Dr. Harvey W. Reid was again elected Chairman.

The Advisory Committee employed the Annual Report of the Faculty as the resource document on which the agenda was based. The members of the committee asked probing questions and several informal comments and suggestions were offered. The Advisory Committee advanced three specific recommendations to Council:

- (a) That the Faculty, if it believes that a period of mandatory internship following completion of the senior year of the program is desirable, offer definitive proposals in respect of how and under what auspices such a procedure could be effected.
  - Action: A report entitled "Mandatory Internship Prior to Licensure" was prepared and presented to the Executive Committee of the Council on 23 February 70. The Executive Committee received the report and referred it to the Committee on Undergraduate Dental Curriculum for appropriate consideration. The Committee on Undergraduate Dental Curriculum was requested to report to the Executive Committee at its April 70 meeting any relationship the said report may have to the policies and procedures currently under study by C.U.D.C. On 27 April 70, C.U.D.C. reported that all clinical departments were opposed to the mandatory internship prior to licensure, as proposed. The Executive Committee, in turn, ratified C.U.D.C.'s recommendation that "the provision for mandatory internship as proposed not be pursued at this time."
- (b) That the Faculty, as it develops its graduate programs in clinical disciplines, be cognizant of the Committee on Education of the Royal College of Dentists of Canada, such committee being willing to render any assistance of which it is capable.
  - Action: The Division of Orthodontics, now in the process of developing a graduate program, is cognizant of the RCD(C) committee and will be consulting it as plans evolve.
- (c) That in view now of the existence of ten chapters in Ontario of the Academy of General Dentistry, the Faculty be encouraged to expand its program in Continuing Education.

Action: The Committee on Continuing Education announces the following eight courses to be presented in the 1970-1971 academic year:

September 25, 1970 October 30, 1970 November 27, 1970 January 22, 1971 February 19, 1971 April 16, 1971

March 5 and 26, 1971

April 26-30, 1971

Utilization of the Dental Assistant

Class V Powdered Gold Restorations

Composite Restorative Materials

Endodontics, One Appointment Technique

Pin-Retained Amalgam Restorations

Intravenous Premedication

- Orthodontics, Headgear Therapy in General Practice

Occlusal Correction of Natural Dentition.

#### Class Size

Council authorized the Admissions Committee for the 1970-1971 academic year and thereafter, to admit a class not exceeding 52. The physical resources of the Dental Sciences Building were designed for a full class of 52.

#### **New Awards Established**

The following eight awards were established in the Faculty during the 1969-1970 academic year:

American Association of Endodontists Award — a certificate and one year subscription to Oral Surgery, Oral Medicine and Oral Pathology awarded to the fourth year student who shows interest and outstanding ability in Endodontics.

Canadian Academy of Periodontology Award — a medical dictionary to be presented annually to the fourth year student who attains the highest standing in Periodontics.

Clinical Paedodontics Award — a medal, donated by the Canadian Society of Dentistry for Children (Ontario Chapter) in honor of Dr. S.A. MacGregor, to be presented annually to the fourth year student showing the greatest proficiency in clinical Paedodontics.

Fixed Prosthodontics Award - a plaque, donated by Dr. W.R. Teteruck, to be presented annually to the fourth year student who has shown the greatest proficiency in Fixed Prosthodontics throughout the undergraduate program.

London and District Dental Society Award - a gift and certificate to be awarded annually to the fourth year dental student judged most proficient in the final year of the four year program.

Removable Prosthodontics Award - a plaque, donated by Dr. James E. Ryan, to be presented annually to the fourth year student judged most proficient in Removable Prosthodontics throughout the undergraduate program.

Senior Award in Oral Surgery - a plaque, donated by Dr. A.G. Parnell, to be presented annually to the fourth year student judged most proficient in Oral Surgery.

W.B. Saunders Book Award - a one year subscription to Dental Clinics of North America to the third year student who shows the greatest proficiency in Social Dentistry.

The Faculty is deeply appreciative of the interest and generosity of the donors.

#### **Pilot Class Graduates**

History was again made in this youthful Faculty when, on 8 May 70, the first students of the Faculty of Dentistry were recommended for their degree of Doctor of Dental Surgery. The Senate, at its meeting on 25 May 70, approved the recommendations and on 29 May 70 seven students were presented to Convocation for the first D.D.S. degree ever awarded by The University of Western Ontario. To Dr. Morley P. Bodnar went the honor of being Western's first graduate in dentistry.

## National Dental Examining Board of Canada Examinations

The written examinations of the NDEB were conducted for the fourth year students from the 18th through the 20th of March, 1970. All members of the graduating class wrote the examinations and all were successful.

#### **Trimester System**

Council received a comprehensive report from an ad hoc committee it established "to consider the desirability, feasibility, implications and possible ramifications of a trimester system for the Faculty." The committee, because of a paucity of available data, was unable to make a firm recommendation to Council. The report, however, was received for the significant information value it possesses and should it be necessary or desirable to re-activate consideration of the Trimester System this report will serve as an effective resource document from which further studies or investigations may be made.

#### **Graduate Program in Orthodontics**

In March 1970 Council approved, in principle, the establishment of a Master of Clinical Dentistry program in Orthodontics. The action of Council was based on a report prepared by the Chairman of the Division of Orthodontics, Professor W.S. Hunter.

Planning is going forward in the hope that the program may be instituted in September 1971.

# **Continuing Education**

The following were the short postgraduate courses held during the academic year 1969-70:

Intravenous Premedication (a)

Occlusal Correction of the

14 November 69

Attendance - 31

— 23-27 February 70

(b) **Natural Dentition** 

Attendance - 10

Removable Partial Dentures (c)

- 9-11 April 70

Attendance - 8

The above figures do not include the part-time members of faculty who were also present. (d)

During the year 25 extramural lectures were presented to various societies across the province, 15 by full-time members of faculty and 10 by part-time.

## Dental Hygiene Program - Commencement Date

For reasons beyond its control, Council was required to recommend postponement of the commencement of the four-year baccalaureate program *for* dental hygiene for one year. It is now proposed that the first year (in the Faculty of Science) be launched in September 1971 with the second year (first of three years in the Faculty of Dentistry) commencing in September 1972.

It is confidently expected that University Hospital will be completed by the summer of 1972 thus permitting the present users of the Dental Hygiene suite (Physiotherapy and Nursing) to vacate prior to September 1972.

#### **Dental Education for Allied Professions**

Council received a report from an interdepartmental ad hoc committee re dental education for allied professions. The terms of reference of the committee were two in number:

- (a) give consideration to and recommend on policies relating to the participation of the Faculty of Dentistry in the "dental" component of the educational programs of allied professions, and
- (b) give consideration to and recommend on the role of the Faculty of Dentistry in respect of educational television as such role relates to activities outside the normal undergraduate or graduate programs.

Briefly, members of the academic staff of the Faculty participated in each of the four years of the nursing program, the third medical year and the program of the London Teachers' College. The Division of Oral Pathology participates actively in the program of second year Medicine. A one-day workshop is being planned for the post-basic nursing program in the 1970-1971 academic year.

The Cablecast channel in London — Channel 13 — approached the London Health Department regarding health education programs. Through the efforts of Dr. J.L. Leake, Director, Dental Public Health for London, an informal group has been formed to look into the possibility of taping some programs aimed at educating the public in dental health. The group working with Dr. Leake comprises Dr. K.H. Wright, Department of Oral Medicine, Dr. G.C. Frey, Department of Paediatric Dentistry and the London and District Dental Society and Dr. B.P. Martinello, Department of Social Dentistry.

A series of 6-8 half-hour shows on dental health are being planned. It is anticipated that several members of staff and some students will be involved in the productions.

#### RESEARCH

#### MRC and Ontario Heart Foundation Summer Scholarships

Two Medical Research Council Summer Scholarships were awarded by the Executive Committee to Messrs. Gary C. Cooper and Terence Summers of the Second Year. These students will be engaged in research activities within Departments in the Faculty of Dentistry during June, July and August 1970.

Dr. John T. Hamilton of the Department of Pharmacology advised that he awarded his Ontario Heart Foundation Summer Studentship to Mr. Howard I. Holmes of the Second Year.

#### Sixth Dental Students' Conference on Research

The Faculty was represented at the Sixth Dental Students' Conference on Research held in Washington, D.C., on February 19, 20 and 21, 1970 by Mr. Gary C. Cooper of the Second Year.

#### **GENERAL INTEREST**

#### Children's Medical Centre

During the year, the Joint Relations Committee of Victoria Hospital and The University of Western Ontario initiated a study in respect of the Children's Hospital. While the report makes many recommendations the central one is that in the interest of progress in paediatrics the major paediatric centre be associated with University Hospital. The council of the Faculty of Dentistry established a committee to prepare a position paper in respect of the report. On 26 January 1970 the Executive Committee, after reviewing the position paper prepared by its ad hoc committee, agreed with the recommendations of the main report which bore directly on the teaching, research and service responsibilities of the Faculty of Dentistry.

The Executive Committee of the Council of the Faculty of Medicine recommended to the London Hospital Planning Council that an ad hoc committee be established to carry out a feasibility study regarding the location of a Children's Medical Centre. This committee was representative of Victoria Hospital, the University, the War Memorial Children's Hospital Advisory Council and the United Community Services.

In March 1970, following six or seven meetings, the ad hoc committee recommended the location of the Children's Medical Centre west of Victoria Hospital. While the views and opinions of the Faculty of Dentistry supporting the University Hospital location were considered, other factors prompted fifteen of the sixteen committee members to recommend the site in south London.

## Pangnirtung Project, 1970

From 13-16 March, 1970 the dean visited Frobisher Bay and Pangnirtung on Baffin Island to investigate and evaluate the need for, the desirability and the feasibility of the establishment of a summer dental program in the Arctic involving the Faculty of Dentistry of The University of Western Ontario. Upon his return he prepared a report which was considered by Council during its March 1970 meeting. The report recommended (a) the mounting of a Pangnirtung Treatment/Public Health/Data Collection/Research Program utilizing two third year students and four consultant-instructors in rotation during the 1970 vacation period of Third Year, (b) that a committee be appointed to effect the necessary arrangements, and (c) that the Pangnirtung Project attempt to achieve certain defined objectives bearing on treatment, data collection, and the preparation of a paper. Council gave approval, in principle, to the project.

Unfortunately, because of several complications, it was not possible to make the necessary arrangements for the summer of 1970. The Department of National Health and Welfare, however, has been assured of the Faculty's continuing interest and it has been agreed that every possible effort will be made to implement a Pangnirtung Project, 1971 if the Faculty is formally requested by the Department of National Health and Welfare no later than the fall of 1970.

## Indian and Northern Affairs - Moose Factory

The Faculty of Dentistry has been participating in a Health Sciences Committee giving consideration to requests from the Department of Indian and Northern Affairs to provide health care services in certain areas in northwestern Canada. A proposal being considered is a joint project in the Moose Factory area with Queen's University whose Department of Paediatrics initiated activities there in January, 1965. An on-site visit by representatives of Queen's and Western took place in October 1969. As a result of the visit, the representative of the Faculty of Dentistry recommended that this Faculty join in providing services to the Moose Factory area both in the hospital and outlying communities of the James Bay area. Council agreed, in principle, and established an ad hoc committee consisting of the chairmen of the clinical departments to consider the feasibility and implications of such participation.

## Dental Assisting — Fanshawe College of Applied Arts and Technology

Approval has been granted by the Board of Governors of Fanshawe College and by the Council of Regents of CAAT for the establishment of a one-year, post grade XII course in dental assisting at Fanshawe College to commence in January 1971. Dr. Wesley J. Dunn, a former member of the Health and Welfare Programs Advisory Committee of Fanshawe College, was requested to act as chairman of the course advisory committee. The Faculty of Dentistry will be represented on the committee by Dr. James A. Guest.

# **Annual Public Lecture**

The Second Annual Public Lecture was held on 25 March 70 in the Dental Sciences Building. An appreciative audience was privileged to hear Dr. R.M. Grainger, former Chairman of the Division of Dental Research of the University of Toronto and, at present, Director of Research for the Association of Canadian Medical Colleges. His subject was "Dental Science in the University of the Future."

# **Faculty of Dentistry Open House**

The Faculty of Dentistry Open House for interested prospective students of dentistry was held on 22 November 69. While the attendance was not large the group of students visiting the Dental Sciences Building appeared to have a sincere participating interest in the program.

## World of Youth Exposition

The Faculty was invited by the Western Fair Association to participate in the World of Youth Exposition, March 25-27, 1970. An ad hoc student-staff committee was struck which designed an exhibit on the theme "The Making of a Dentist." The exhibit was supervised by students during the day and by local dentists during the evening hours. The Ontario Dental Association generously contributed an abundant supply of appropriate literature.

The exhibit is adaptable and portable and will be of future use in high school career days, open house, and the like.

## First UWO Clinic Night Held

The students of the senior and junior years provided the program for the 22 January 70 meeting of the London and District Dental Society. Several table clinics on a variety of topics were presented and were well received by the membership.

## Student Table Clinic Program — American Dental Association

The Faculty received an invitation from the Secretary of the ADA's Council on Scientific Session to send a student to the November 1970 meeting of the ADA to present a table clinic. In due course, Mr. J. Kent Babcock of the Third Year was selected and his adviser is Dr. R.E. Jordan, Chairman of the Department of Restorative Dentistry.

## Ontario Dental Association's Honorary Members' Prize

Council extended congratulations to Mr. Dwight F. Saunders of the Class of 1972 on winning the ODA Honorary Members' Prize. This prize of \$40.00 is awarded to the undergraduate dental student writing the best article of a cultural nature which is published in an undergraduate journal of the Ontario Faculties of Dentistry. Dr. D.C. Way, an ODA Governor, presented the prize to Mr. Saunders on 22 January 70 congratulating him on his article "The Dentist — A Member of Society" which appeared in Volume 3, Number 1 of *The University of Western Ontario Dental Students' Society Journal*.

#### Joint Student Committee of Health Sciences

One of the more interesting student developments was the establishment of the Joint Student Committee of the Health Sciences for students in dentistry, medicine, nursing and physiotherapy. The purpose of the committee is to provide a means of communication among the various Health Sciences' Student Councils; to organize social activities and to regulate the utilization of the Health Sciences' Student Lounge and Games Room.

#### Division of Oral Pathology

The Councils of the Faculties of Medicine and Dentistry concurred in a recommendation from the Department of Pathology to establish a Division of Oral Pathology.

## Ladies' Auxiliary - St. Joseph's Hospital

In addition to a most generous grant which made the equipping of a dental operatory possible at the time the Department of Dentistry was established in St. Joseph's Hospital, the Ladies' Auxiliary, in February 1970, donated \$5,000 to the Department of Dentistry for additional capital requirements. The Faculty of Dentistry is most grateful for and expressed its sincere appreciation to the Ladies' Auxiliary of St. Joseph's Hospital for this most welcome and gracious action.

# **FACULTY OF LAW**

Report of the Dean Professor R.S. Mackay

Much of the labors of the Law Faculty and its committees this past year was concerned with the implementation of the new optional program available to second and third year students for the first time in accordance with terms of agreement between the Ontario law schools and the Law Society of Upper Canada. The introduction of this program also required that a thoroughgoing re-evaluation be made of grades and standards and, to that end, a Grades & Standards Committee met throughout the year to review and devise more sophisticated and appropriate measures of student assessment. The Curriculum Committee was also called upon to perform special and yeoman service in the reorganization of the Curriculum and distribution of subjects in second and third years. A further committee of far reaching importance this past year was concerned with the development of a major conference entitled Modern Lawyers and Their Education, which brought together lawyers, law students and law faculty from across Canada and the United States. This conference was an unqualified success and has attracted very considerable attention throughout the land.

This past year, then, might be appropriately referred to as the Year of Committees, which proliferated both in numbers and in scope. The Law Faculty is indebted to all those faculty members and students who participated on these committees and who graciously performed the many thankless tasks which had to be undertaken during the past twelve months. Perforce, therefore, the bulk of this report of the activities of the Law Faculty reflects the work of these committees and the many contributions which they made.

#### **REPORTS ON COMMITTEES**

# Admissions & Academic Research Committee. Professor E.E. Palmer, Chairman

During the summer of 1969 the Admissions Committee dealt with 787 applications for admittance to first year at Western. Of these, 370 were rejected and 81 did not reach a final decision because of incomplete records or withdrawals. Of the remainder, 156 applications were withdrawn by the applicant or cancelled by the Committee for failure to follow the procedures prescribed. Finally, 151 of the remaining 170 persons admitted were registered in the fall of 1969.

During the year, compilation of results of the Law School Admissions Test continued and certain administrative arrangements were altered to simplify the admissions process. The committee was reduced to a more manageable size and an "action" sub-committee was formed with a view to streamlining the day to day selection process. In the future it is expected that these changes will increase the speed and accuracy of dealing with admission applications.

# Audio-Visual Education Committee. Professor E.F. Ryan, Chairman

One new program was added to the televised instructional materials produced by the Faculty of Law during the period covered by this report. It was an address by the Minister of Justice for Canada, the Honorable John N. Turner, and is designed to be integrated into the orientation program of this and other Canadian law schools. The program was produced in the Minister's office in Ottawa, using a combination of film and television techniques. Part of the costs were covered by a grant from the Ontario Institute for Studies in Education.

# Curriculum Committee. Professor W.B. Rayner, Chairman

In 1969, Faculty Council decided to go to a seminar system for second and third year students and to permit students in those years to select courses on an optional basis on the advice of faculty councillors. The Curriculum Committee was concerned with working out many necessary adjustments resulting from this

change. The result was recommendations establishing minimum and maximum course loads that a student could take in any two semesters, a recommendation that the unit weights of courses were only indicative of class hours and not necessarily absolutely determined by class hours, a recommendation that the unit weight to be attached to courses outside the Law School be determined by the Assistant Dean, and a consideration of the division of courses between semesters and the allocation of a unit weight to these courses. The Curriculum Committee recommended that a course called "Individual Research" should be developed from the pre-existing Legal Writing course. This course would permit a student to devote up to, but not more than, one-half of his unit weights in an area of his choice on approval of a Standing Committee of Faculty set up to supervise the program. The reason behind this recommendation was to enable a student to undertake a major piece of research culminating in a major paper, and thus improving the legal writing skills of the student involved.

# Library Committee. Professor G.M. Thomson, Chairman

The Library holdings as of	June 30th, 1969, were as follows:
Reports D	igests Ahridaments etc

reports, Digests, Abridgments, etc.	29,311
Journals, etc.	8,611
Treatises	12,778
Total	50,766
Acquisitions in the year 1969-70 were as follows:	
Reports, Statutes, Digests, etc.	2,885
Journals, etc.	2,013
Treatises	5,678

Total 10,576

20 277

Thus, the current holdings of the Library as of June 30th, 1970, are:

Reports, Statutes, Digests, et	tc.	32,262
Journals, etc.		10,624
Treatises		18,456
	Total	61,342

# Scholarships & Bursaries Committee. Professor B.J. Arnold, Chairman

The following academic prizes were created in the year 1969-70:

The Thomson, Rogers' Prize in Company and Commercial Law — the sum of \$150.00 to the second year student with the highest aggregate standing in two of the following three courses: Company Law, Commercial Law and Income Taxation (the two courses to be designated by the Faculty).

The Thomson, Rogers' Prize in Corporate Finance — the sum of \$150.00 to the third year student with the highest aggregate standing in two of the following three courses: Advanced Company Law, Advanced Taxation and Securities Regulation (the two courses to be designated by the Faculty).

#### Special Events Committee. Professor G.J. Brandt, Chairman

During the academic year 1969-70 the program of the Faculty of Law included, as a complement to its curriculum, the following special events.

Conference on Modern Lawyers and Their Education, October 29-31, 1969.

Address by Mr. Norman F. Dacey, Controversial author of "How to Avoid Probate", on "Legal Ethics", November 18, 1969.

Address by Mr. G.W. Ainslie, Q.C., Assistant Deputy Attorney General, Department of Justice, on "Administrative Discretion in the Enforcement of Taxing Statutes", March 10, 1970.

Address by Professor F.R. Scott, Member of The Royal Commission on Bilingualism and Biculturalism on "Language Rights in Canada", March 13, 1970.

# Mock Court Committee. Professor K.B. Farquhar, Chairman

Twenty-eight students took part in this program this past year so that initially there were seven mock trials to determine which four of the twenty-eight should compete in the final trial. These trials took place before members of the Middlesex Bar Association practicing in London who gave generously of their time in not only discharging judicial functions but also in assisting the participants with useful comments on their performance as advocates.

The final trial to determine which two students would compete in the Ontario Law Students Association competition took place before The Honorable Mr. Justice Colter, Senior County Court Judge for the County of Middlesex. An increasingly heavy debt of gratitude is owed to Judge Colter for the many and varied valuable contributions which he continues to make to the Law School.

# Moot Court Committee. Professor J.W. Samuels, Chairman

Four teams of two students each participated in the competition. Members of the Middlesex Bar once again gave generously of their time and talents in acting as judges and as a small token of appreciation were entertained at a cocktail party on the evening of February 24, 1970.

The winners of the competition were Messrs. R. White and P. Vivian of the third year. They received the faculty trophy and book prizes offered by the Canada Law Book Company Limited.

#### AD HOC COMMITTEE REPORTS

Special Committee to Arrange Conference "Modern Lawyers and Their Education". Professor R.G. Atkey, Chairman

The proposal for this conference was first put forward and approved by Faculty Council on April 15, 1969. It was agreed at the time that the conference was to be a joint undertaking of the faculty and students of the Faculty of Law and its purposes were to be as follows: (1) To engage in the free exercise of ideas among all groups connected with the law in general, with a view towards the improvement of legal education at all levels; (2) to obtain a clearer understanding of what Canadian law schools will be attempting to accomplish in the 70's; and (3) to gain a greater appreciation as to what the various professional, teaching and student groups are doing in their daily pursuits.

Following the Faculty Council's approval of the proposal in principle, the Dean appointed a Conference Committee consisting of seven faculty members, seven students and a representative from the Middlesex Law Association. Professor R.G. Atkey and Mr. Craig Paterson, a third year student, were named as Co-chairmen. Preliminary arrangements were made by the Committee over the summer of 1969, and a budget was submitted to and approved by the Finance Committee of the Board of Governors on September 9, 1969.

The conference was held over a two and a half day period with most delegates arriving on Wednesday evening, October 29th. Five separate panels were held on five different but related themes. An attempt was made to structure each panel in a way which would be representative of students, practitioners and teachers as well as being geographically representative of the various areas of Canada. In addition to the five panels, there was a series of three seminars given on the subjects of "Computers and the Law", a keynote address by the Honorable James C. McRuer, a concluding banquet address by Dean Robert S. Mackay, and displays of modern legal publications and law teaching by television throughout the conference.

In addition to the thirty invited panelists and speakers participating in the conference, there were 278 law students, 82 legal practitioners and 52 law teachers registered as delegates. While many of the student delegates were from The University of Western Ontario, there were 73 students from eleven other Canadian law schools. There were students, legal practitioners and law teachers from as far West as Vancouver and as far East as Fredericton. Out of town students were generally billeted with students in Western's Faculty of Law, while hotel and residence accommodation were arranged for out of town teachers and legal practitioners.

The following were the subjects of the five panels: (1) What is the role of the lawyer today and how is it changing; (2) What alternatives are there to private practice for law school graduates? (3) Student involvement in the government of the law schools; (4) Are law schools adequately discharging their responsibilities in terms of curricula, teaching techniques and clinical training? (5) Do law school graduates intending to practice law receive good professional training before being called to the Bar?

Some of the principle panelists were requested to prepare in advance papers on the topic of their discussion for distribution to all conference delegates. Many of these papers, together with pertinent sections of the transcript made from the actual conference proceedings, will be published in this year's volume of the Western Law Review which has devoted approximately one hundred pages to the conference proceedings.

With the assistance of the personnel from the Instructional Media Department, all the conference proceedings and events were televised onto video tape. From the approximately sixteen hours of proceedings, a group of five faculty members and students have put together an edited video tape of approximately two hours in length highlighting the various events of the conference. This tape will be used for instructional purposes in this faculty in subsequent years as well as being made available for general distribution to other law schools and groups that might make use of it. The sixteen hours of unedited tapes from the conference have been shown on several occasions by London TV Cable on the weekends and during some weekday evenings over the past six months. This has resulted in favorable publicity for the Faculty of Law and the University.

Apart from the more tangible results of the conference above, the major achievement seems to be the fact that a situation had been created in which Canadian law students, law professors and legal practitioners were able to confront each other with some of the pressing problems of legal education in Canada. While the dialogue was only begun, there was some communication and light shed on the problems. Not only did students feel that they were able to make professors and practitioners aware of their problems, but the reverse also occurred where practitioners, for example, revealed to many students for the first time some of the practical problems of the legal profession. What was brought home to Western's faculty members was the value of student participation in a venture like this. In our minds, no longer will a Canadian law school or organization be able to run a conference on legal education without involving students in a substantial sort of way.

A final benefit of the conference was the opportunity it presented for establishing greater liaison among Canadian law students. On the day following the conference, steps were taken towards the formation of a Canadian Law Students' Association.

Of more long range significance was a decision taken by the Law Society of Upper Canada early in 1970 to establish a Special Committee on Legal Education whose terms of reference cover the examination and re-examination of all facets of legal education in Ontario. Dean R.S. Mackay of this faculty is a member of that committee. While this committee of the Law Society was ostensibly struck quite independently of the conference, it is believed that its formation was, at least in part, an indirect result.

#### Grades & Standards Committee. Professor M. Gropper, Chairman

This committee labored throughout the year and brought forth recommendations to Faculty Council which, as amended in certain details, were adopted. Some of the major recommendations were as follows:

- (1) The establishment of a Grades Review Committee to review and standardize the marks of professors and, where necessary, recommend the adjustment of grades between individuals and courses.
- (2) The establishment of a letter grading system (A,B,C,D and F) with appropriate numerical equivalents.
- (3) The establishment of passing requirements under the new grading system.
- (4) The establishment of rules relating to the awarding of scholarships and other ranks of academic distinction.
- (5) The establishment of rules relating to the publication and dissemination of the grades of students.

#### SPECIAL STUDENT ACTIVITIES

#### Western Ontario Law Review — The University of Western Ontario

Volume 9 of the Law Review was prepared by the students in the course of the academic year. The Editorial Board was as follows:

Editor: D.S. Bangarth Business Manager: P.R.J. Noble
Associate Editors: G.G. Parker Subscriptions: P.F. Lepine

G.G. Parker Subscriptions: P.F. Lepine
A.J. Belecky Faculty Advisor: Professor LD. Boy

J.W. Sabine Faculty Advisor: Professor J.D. Payne

Advertising Manager: K.M. Fong

The Law Review, now being printed, consists of the following articles and contributions:

Permanent Alimony — J.D. Payne and M.P. Downs

Power of Arrest in Canada Under Federal Law — Robert Wood

The Persistent Offender in Canada — P.Y. Atkinson

Bill 125 and Insider Trading — M.P. Downs

Monetary Restraints on the Exercise of Rights of Dissenting Shareholders — P.E. Vivian Submission to the Legal Bills Committee on S. 122 of Bill 125 — K.M. Fong

The Ethics of Tax Planning — Philip F. Vineberg, Q.C.

## **Student Defenders Program**

On April 22nd, 1970, the Student Defender Program was officially certified and approved by Convocation of the Law Society of Upper Canada. Prior to that time the program operated under the direction of Mrs. Gretta Grant, Q.C., Legal Aid Area Director for the County of Middlesex. Under the scheme students take cases referred to them by the Area Director and handle them from beginning to end, from the first interviews with witnesses to the final disposition of the case in court. Interview rooms and secretarial assistance have been provided to the students. Between October and March of the school year the program dealt with 65 cases, the bulk of which consisted of motor vehicle and liquor offences in the criminal field and landlord and tenant disputes in the civil area. In all, under the directorship of Mr. Gray Sheppard, 195 students participated. Pursuant to its new authority conferred by the Law Society it is anticipated that in the forthcoming year the scope and activities of the Student Defender Program will be expanded even more.

#### **ACTIVITIES OF MEMBERS OF FACULTY**

In addition to those activities detailed in the Appendices the following further contributions of individual faculty members are worth noting.

Atkey, R.G. — Co-Chairman of a policy conference entitled "Life After Birth: Freedom or Enslavement?", Queen's University, August 22 - 24, 1969; Vice-Chairman, Constitutional and International Law Subsection (Ontario) of the Canadian Bar Association; member of Advisory Board of the London Tenants' Association; member of Legal Aid Area Committee for the County of Middlesex; legal advisor to the Day Care Committee of the United Community Services; Chairman of Policy Research Council of the Ontario Young Progressive Conservative Association.

Krever, H. — Lecturer, Ontario Police College, Aylmer; lecturer, School of Hygiene, University of Toronto; member of Review Sub-Committees under the Human Research Committee of the Research Board, University of Toronto; Chairman of Boards of Inquiry under Ontario Human Rights Code; Member of Legal Aid Area Committee for the County of Middlesex; Chairman of Committee on Human Tissue Transplantation of the Medico-Legal Society of Toronto; created Queen's Counsel, January 1st, 1970.

Palmer, E.E. - Board of Directors, United Community Services of London.

Payne, J.D. — Executive Council member, Family Law Section, Canadian Bar Association; Director, Family & Children's Services of London and Middlesex.

Ryan, E.F. — Counsel, Standing Committee on Justice and Legal Affairs of the Parliament of Canada; Counsel, Ontario Law Reform Commission; Co-author of survey and paper on Non-Medical Drug Use.

Samuels, J.W. — Draft of International Convention on the Control of Weather Modification for the World Peace Through Law Centre in Geneva.

Thomson, G.M. — Counsel, Day-Care Nurseries Committee, United Community Services; Member, Committee on Continuing Legal Education, Middlesex Bar Association.

# **FACULTY OF ENGINEERING SCIENCE**

# Report of the Dean Professor R. M. Dillon

In July of 1960, the foundation for the Faculty had been laid by Professor Stuart Lauchland and nine other members of the Department of Engineering Science and what stands today is a tribute to their pioneering efforts as well as to the devotion of all those who have since joined to build Engineering Science at Western.

The Faculty looks forward to moving into a 79,000 square foot addition to be ready in the summer of 1971. This is to be shared with the Departments of Pure and Applied Mathematics and with the Department of Computer Science.

#### **FACULTY ACTIVITIES**

#### **Alumni Conference**

The Second Annual Engineering Alumni Conference was held on October 17, 1969 with the theme "Recent Developments in Engineering: Computers". Professor G.S.P. Castle, the convener, reported a most successful meeting with attendance varying between 70 to 100 persons.

#### Laval-Western Exchange Program

Professor C. Roy, Coordinator of the Laval-Western Student Exchange Program, reported that Messrs. R. Bilodeau and G. Fecteau spent the summer on our campus and that Messrs. G. Lacasse, R. Rochette, C. Tremblay and Miss Louise Trudel came for the summer and stayed to take the fourth year. B.E. Vogelin went from Western to Laval for the summer.

#### **Faculty Open House**

The Open House was held on February 14, 1970 with about 100 of the 500 visitors being of public school age. Secondary school students registered from 15 locations outside London including Detroit, Walkerton, and Simcoe.

# **Continuing Education**

Response to non-credit evening courses continues to be disappointingly small. During the 1969-70 academic year, the following three-part courses were given:

Fluid Dynamics

- for 5 students

Dynamics of Machines and

- for 4 students

Control Systems

Machine Design

- for 3 students

Several other courses offered were not supported.

It appears that more success may be achieved by placing greater emphasis on part-time programs for credit and more intense specialized short courses of from one to five days duration.

#### **Publications and Public Relations Committee**

This Committee organized the Open House held on February 14.

#### **Student Affiars Officer**

On March 3, 1970, the Executive Committee established the office of Student Affairs Officer. The first incumbent, Professor W.H. Peacock, is responsible to the Dean for such matters as orientation programs, non-academic counselling, and placement services. Professor Peacock will also be concerned with secondary school and industrial liaison.

#### **Student Activities**

There was great activity amongst the students during the year. Under the Chairmanship of Mr. R. Orpana, the E.I.C. Students Section increased its membership by 50 percent. Mr. K. Stevens was President of the Undergraduate Engineering Society.

Activities ranged from a smoker with members of Faculty and practicing engineers in attendance held at the Hotel London. The Student Technical Night held in March was, as usual, well attended with the prize going to Mr. G.A. Atkinson who delivered a paper on "Design and Construction of a Small Anechoic Chamber". Judges were Professor L.S. Lauchland, Mr. R.B. Stotts, Dr. J.A. Pearce, Mr. R. German, and the Dean.

A very successful series of noon seminars dealt with technical and cultural matters including talks on the activities of the various groups of the Faculty and films such as "The Flight of Apollo" and "The Real Story of Radar".

Eight students visited the University of Toronto for two days, attending lectures and a number of social events. Their purpose was to compare the two universities.

As part of an International Student Exchange Program, a fourth year student, T. Walsczak, spent the summer in practical engineering in a small town in Sweden.

# SCHOOL OF BUSINESS ADMINISTRATION

# Report of the Dean Professor J.J. Wettlaufer

During 1969-70 the School of Business Administration moved forward with its Plan for Excellence. A major thrust in the area of research resulted in greatly increased activity in both project research and case development. The faculty shared their work with colleagues within the School, the universities of Ontario, and the Associates within the business community. The result was a significant increase in publications and a greater understanding within and between the academic community and the business community.

The Ford Foundation grant terminated in March, 1970 and the Western Associates assumed full responsibility for the financing of research. In this connection, a closer liaison with the Associates in the form of an Associates Research Day was established to present and discuss the research activities in progress.

Enrolment in all academic programs increased and are ahead of the five-year forecast. The new addition to the building provided an opportunity for new and exciting experiments in teaching using the School computing and audio-visual facilities. The MBA Association in cooperation with the School produced a 30-minute color film, "The Western MBA" which is being used by the students to recruit new candidates for the programs. The MBA Association sponsored these sessions in major Canadian cities during the summer months. The concept and its success belong to the students and the MBA Association.

#### **Academic Programs**

Total enrolment for the 1969-70 academic year reached a new record of 550 students. The following breakdown compares this year with the past year:

	1968-69	1969-70
Doctoral	16	20
MBAII	161	173
MBAI	179	187
Senior	79	64
Junior	69	106

Registration in the MBA program totalled 360 with the following geographical distribution: Of the Canadian students, 159 came from Ontario, 90 from Quebec, 24 from Manitoba, 22 from British Columbia, 17 from Alberta, 7 from New Brunswick, 5 from Nova Scotia, 2 from Saskatchewan and 2 from Newfoundland. Other countries represented included: Great Britain, France, India, Germany, Brazil, Jamaica, U.S.A., Hong Kong, Guyana, Nigeria, West Indies, Bermuda and Argentina.

The degrees held by these students included: Bachelor of Arts – 75; Commerce and Business Administration – 51; Engineering – 137; Science – 54; Law – 8; Master's Degrees – 10; Chartered Accountants – 10; ESSEC Diploma – 4; Bachelor of Architecture – 2; and one each of: Bachelor of Mathematics; Bachelor of Social Science; Diploma in Engineering; Bachelor of education; HEC Lille France; Chartered Surveyor; IMEDE: Higher National Diploma; Ingenieur des Arts et Manu; and one special student.

#### Degrees conferred and Diplomas granted 1969-70:

Honors B.A. in Business Administration	62
Master of Business Administration	168
Doctor in Business Administration (Ph.D.)	0
Diploma in Business Administration	5

#### Research

The School's Research Program moved forward in the academic year 1969-70. A number of significant new programs were initiated, and there was a marked increase in research and publications activity on many fronts.

During the year, the Advisory Committee under the leadership of Mr. J.E. Brent commenced its drive for refinancing the Associates Fund at considerably higher levels than in previous years. This drive is well under way, and will result in a much sounder financial base for future years' research activity. The new financing replaces the Ford Foundation grants, which expired during the year.

Highlights of the year's research activity were as follows:

# Western Associates' Workshop in Business Research

Plans were completed for the first of what are planned as a series of summer research workshops, bringing together faculty from other institutions with our own in a 12-week coordinated program in research. This ambitious undertaking is designed to raise the level of business research in Canada, and to increase the interchange among Canadian faculty members interested in research. Eight faculty, three from outside Western and five from our own staff, began the first workshop on May 24 and will be in residence at the School until August 15. Also participating were a number of research assistants, working with the summer Research Fellows.

The program was under the direction of Professor David Shaw, with the assistance of Miss Ann Carden. It is hoped to expand this workshop considerably over the next few years.

## Associates' Research Day

This year, for the first time, the School has instituted a plant to present its research activities and findings directly to those whose financial support has made the program possible. The vehicle chosen was a Research Day, held on May 22 in connection with the meeting of the Advisory Committee. Seventeen papers were presented to members of the Committee and others from the Western Associates.

#### Research Day

Actually — two days, March 20 and 21, the Research Day program attracted 15 faculty from other institutions as well as a large number of Western faculty. A number of papers were presented and discussed. The Research Day concept was initiated and carried out by Professor C. Haehling von Lanzenauer.

#### Research Symposia

Faculty members met regularly under the general guidance of Professor D.C. Shaw to discuss working papers prepared by other faculty. These were very helpful in refining ideas, research proposals and analyses into form for publication and further research.

#### **Research Administration**

A number of steps were taken to improve research administration. Standarized forms and procedures were developed for submission of proposals. Individual projects were assigned account numbers, and faculty members were charged with the responsibility for administering their own research funds. A much improved flow of information on research activities and research planning was instituted.

Research Grants were received from a number of sources. Professor Portis' work on the Kelvinator shutdown has been supported by the Ontario Department of Labour and the Federal Department of Labour. Professor Martin's book was co-financed with the Institute of Chartered Accountants. Professor Crookell received financial assistance from the Federal Department of Industry, Trade and Commerce. International Business Machines Corporation continued its generous support of several projects detailed below.

Professor Shaw and Archibald received a substantial grant from the Toronto Stock Exchange for their work in the finance field.

#### Ivey Professorship

Professor Bernard Portis has been appointed to hold a Richard Ivey research professorship in 1970. Professor Portis will be the first of the School's faculty to hold one of these professorships, established last year with the generous gift of the Richard Ivey Foundation.

#### Case Research

The backbone of the School's teaching activities continues to be the case method, and a continuing flow of cases is necessary to sustain this activity. Case writing was conducted in many fields during the past year, and is expected to lead to a number of published casebooks withing the next 12 months. Strong effort continues in this area.

Of particular note have been the efforts of Professor M. Leenders and Mr. James Erskine in preparing a program on case writing for School research staff and faculty, and their plans are to publish a book on case-writing within the next year. For further details see Appendix D — Schedule of Research Funds.

#### **Publications**

During the 1969-70 year, 24 members of the Business School Faculty were involved in the publication program. Seven books and chapters of two more were published as well as 23 articles which were accepted by the following professional journals:

The Business Quarterly Journal of Marketing Journal of Marketing Research Journal of Finance The Accounting Review Journal of Applied Behavioral Science Proceedings of the Business and Economics Section American Statistical Association Unternehmens forschung Industrielle Organization Journal of Financial and Quantitative Analysis CORS Journal Labor Gazette Canadian Marketer Management Science Financial Executive **MSU Business Topics** Canadian Journal of Economics

#### **Programs for Executives**

The School has always considered continuing education as an important part of its work. It was encouraging to note that most programs were sold out despite a downturn in the economy.

#### (a) Management Training Course

July 20 - August 22, 1969

Associate Dean Walter A. Thompson was the course director for the 22nd annual Managment Training course. Representatives from business corporations totalling 127 came from the Canadian Provinces and Thailand, India, Jamaica and the U.S.A.

## (b) Marketing Management Course

May 17 — June 5, 1970

The purpose of the Marketing Management course is to improve the performance of men in responsible management positions with an emphasis on marketing problems as they relate to industry.

Professor C.B. Johnston directed this course which included 120 representatives from industry and business.

## (c) Business Conference

May 28, 29, 30, 1970

The rapidly changing environment in which business must operate today poses the continuing "Where Will My Business Be Tomorrow?"

This 14th Annual Conference provided the forum where businessmen could hear and question leaders from various business areas as well as men in the educational field who have specialized in the analyses and teaching of modern business practices. Twelve outstanding speakers participated and 215 companies were represented. Mr. G. Marcel Brunet of Canadian Industries Limited, Montreal, was chairman of this year's Conference Committee.

## (d) Management Science and the Manager

April 19 - 24, 1970, Seigniory Club, P.Q. June 7 - 12, 1970 School of Business Administration

As usual, this workshop was presented in two widely separated locations. It provided the opportunity for practicing managers to improve their effectiveness through computers and newer mathematical techniques such as: decision theory, network planning and control, simulation and linear programming. A number of sessions were devoted to an understanding of the computer and its role in management information systems. Thirty-four managers attended the Seigniory session and thirty-one were present at London. Professor A.A. Grindlay directed the course.

## (e) Interpersonal Skills for Managers

May 31 - June 6, 1970

This course was designed to help participants develop their capacity to work with and through people. Thirty-one managers from various types of companies attended the sessions. Professors H.H. Frankiel (Director). R.C. Hodgson and J.J. DiStefano formed a core faculty with five other faculty members of the Business School who assisted to keep the high radio of faculty to participants.

#### (f) Evening Programs

Last year an evening program in Marketing Management was scheduled for individuals who were employed during the day. The response to this type of program resulted in the repetition this year of the Marketing Management course plus a course in Management Accounting.

The Marketing Management course was conducted by Professors K. Hardy and A. Weinstein from October 4 to Decembee 13, 1969 with an enrolment of 38.

Professor R. Archibald and Barry Hicks conducted the Management Accounting course from October 4 to December 6, 1969. The course, which included 21 participants, emphasized the development of an awareness of the structure of accounting and accounting concepts.

Both courses ran for a nine-week period 7:00 - 10:00 p.m. one evening each week with a full Saturday to begin the program and the major portion of a Saturday to close the program.

#### Other Programs and Outside Relationships

During the 1969-70 academic year, 20 members of the Business School Faculty organized and conducted courses and seminars for 36 organizations in business or those interested in the advancement of modern business techniques.

These were held in various parts of Canada and extended to England, Switzerland, Austria, France, Jamaica and Bermuda.

Under the direction of Professor Drinkwalter, three faculty members were involved in the course for the Canadian Industrial Management Association.

Professor M.R. Leenders conducted professional development courses for the Society of Industrial Accountants, Canadian National Staff Training College, IMCC, and the Purchasing Managers Association of Canada.

Professor R. Nourse acted as a consultant for the Canadian Westinghouse Company as well as teaching management development courses for the same company.

Professors Gordon, Hardy and Stevens held courses and planning sessions with the Provincial and Federal governments. Professor Hardy also completed a report for the Ontario Law Reform Commission.

Professors Mikalachki and Hicks instructed in the two-week course for Gulf Oil Canada Limited's Corporate Management Program.

Professor J. Humphrey held special courses for Mechanical Contractors and the Canadian Bankers' Institute.

Professor J.R.M. Gordon designed and taught three five-day sessions for the Steel Company of Canada and two one-day sessions for middle managers at York University.

Professors R. Sproule and J. DiStefano organized and conducted two four-day seminars for general management training for the Institute of Professional Librarians of Ontario. Professor Sproule held similar seminars for the Ontario Police College and the Purchasing Management Association of Canada. Professor DiStefano planned and executed a one-day program for Budd Automotive of Canada and a four-day development program for the partners of Touche Ross and P.S. Ross of Canada.

Professor C.B. Johnston participated in the International Marketing Program, Cambridge, England and in seminars for General Electric International, Geneva, Switzerland; the Coca Cola Export Corporation, Vienna, Austria; Club Defi, Paris, France; Bank of Nova Scotia, Kingston, Jamaica and the Marketing Management Seminar, IMEDE, Lausanne, Switzerland.

Mrs. R.A. Sanders, as a Director of the Executive of the Business Press Editors' Association of Canada, was a member of a four-person committee appearing in Ottawa at Senator Keith Davey's hearing on Mass Media.

Professors J. Washington and D. Drinkwalter held a five-hour seminar on current economic topics for the Canadian Institute of Plumbing and Heating. Professor Drinkwalter also conducted a similar seminar for the Management Course of the Canadian Chamber of Commerce and taught the second-year course in Statistics for the Registered Industrial Accountants.

During February 23–25 Dean J.J. Wettlaufer and Professor D. Kuechle held a seminar on Modern Personnel Practices for the Bermuda Employers' Association.

Professor R.C. Hodgson conducted a three-day seminar on Human Resource Development in Organizations for the Personnel Association of Toronto.

Professor B. Little participated in the Atlantic Summer School for Advanced Business Administration.

Professor H. Crookell taught at the special school for the Ontario Institute of Chartered Accountants.

## Interdisciplinary Associations

In cooperation with the Department of Engineering Science, Professor J. Erskine taught a course, Engineering Science 408, and Professor J.R.M. Gordon completed a preliminary design for a course in Production Engineering.

Professor F.W.P. Jones and J. Humphrey conducted groups at the Law School while Professor M. Pearce served as Business 20 instructor for Huron College.

Professor J. DiStefano collaborated with Dr. R. Murray Boyce in teaching a two-hour session for the Faculty of Medicine.

Professor D. Kuechle gave a course in Employee Relations in Latin America for the Geography and History Departments and also a course in Collective Bargaining Among Professionals for the School of Nursing.

## Audio-Visual/TV Department

This division functions as a service organization for Faculty, staff and students.

It began operating in August 1969 to provide projection, audio and television services to supplement existing teaching methods.

Students are permitted to use the equipment to create their own programs for class purposes.

During the past academic year, 122 television programs were produced and 282 films were shown.

#### The Computer Centre

More than 300 pre-business students, 100 undergraduates and 200 MBA's participated in using the time-sharing and batch computer facilities.

Four time-sharing terminals and the 1130 computer were available to students and faculty on a nocharge basis, 24 hours per day, 7 days weekly.

As planned last year, the use of the 1130 computer to process applications for the MBA program, was completed and has been in operation since February 1970.

Several doctoral students made use of the computer as part of research for their theses.

Professor F. Zabransky and Mr. Gregor Duncan developed a mathematical model in conjunction with a large Canadian bank. A paper describing this system will be presented at an International Conference on Management Information Systems at Copenhagen, Denmark in October 1970.

## Job Placement Program

Despite an economic slowdown in the country, the 1970 Job Placement Program was an extremely active one.

One hundred and eighty nine companies reserved interview space at the Business School. In addition, 45 companies made their initial contact with students by mail. As a result, 2,306 interviews were conducted at the School, and resulted in the placement of 390 students in permanent and summer jobs.

In the BA class, 21 entered the C.A. profession; seven are pursuing graduate work; and one has accepted employment at IMEDE in Lausanne, Switzerland. The teaching profession attracted three MBA's at the University and Community College levels. Three are pursuing a Ph.D., and the School hired four men to assist in undergraduate teaching and research. The balance of the class accepted employment in industry.

In the fourth summer of operation of the Intern Program, 31 companies employed 52 MBA I students in project jobs this summer.

The School hired 34 of its graduate and undergraduate students for its enlarged research program, thus making a sizeable contribution to the relief of the problem of summer jobs for students.

Many MBA programs across the country had serious problems in placing their graduates. The graduates of our programs had fewer offers to consider than in recent years, but there was no real difficulty experienced in getting attractive employement. The mean salary rose to \$12,200 for the MBA's; the second largest yearly increment in the mean over the past five years.

Mean salary for Honors BA graduates moved up to \$8,200, a 10% increase over 1969. The radical changes that have been made in the Chartered Accountants qualifying program have attracted nearly double the proportion of the class to this profession as was the case in the past. It is too early to tell if this change will continue to be felt, but this likelihood is high.

The Placement Program is under the directio of Mr. Neil M. Armstrong, and is assisted by Mrs. Margaret E. Park.

#### The Business Quarterly

The Business Quarterly had a year in which recognition of editorial content was achieved. Reprints of articles totalling 24,102 were sold (up from 5363 of last year). Thirty-six publishers requested permission to reprint editorial material (up from 14 of last year). These requests came from as far away as Spain and India.

Thirty-eight thousand copies of the magazine were distributed and although gross was increased for the sale of subscriptions, advertising, reprints and copyright, the increased costs of postage, printing and paper counterbalanced this gain.

Unprecedented numbers of unsolicited manuscripts by outstanding authors were received which allows a choice of articles to be made on an increasingly selective basis. Articles for thepast year were, to a large extent, written on assignment of specific themes to barious academicians and businessmen. Thirty-six articles were published in addition to twenty-two regular features. Eleven of these articles were written by members of the various faculties of the University. The balance were written by academicians from other universities, government officials and leading businessmen.

Doreen Sanders was appointed editor in September. She was elected a Director of the Business Press Editors Association and was the first woman elected to the Board of the Canadian Business Press Association.

# SCHOOL OF LIBRARY AND INFORMATION SCIENCE

## Report of the Dean

#### Professor William J. Cameron

The School, about to complete its third year of academic studies, has reached the stage where it can be said that the foundation period is over. This stage coincided with the retirement of the founding Dean, Dr. Andrew D. Osborn, and with a conference on the Nature and Methods of Graduate Education for Librarianship sponsored by the Association of American Library Schools and held at The University of Western Ontario, June 26-27, 1970. The conference enabled our teaching and research colleagues from all over the United States and Canada to come and discuss, criticize, and evaluate features of our program and of our new type of seminar instruction.

#### The Students

The School's third (trimester) academic year was characterized by an extremely large increase in the number of students. In the summer term of 1969, 71 full-time and 14 part-time students were enrolled in the School. For the fall term the numbers increased to 185 full-time and 24 part-time. Numbers were increased to 194 full-time and 22 part-time students for the winter term. Our planned ceiling of 200 full-time graduate students was almost reached in the summer term of 1970 with 199 full-time and 24 part-time students. In the future, the Admissions Committee will have even greater difficulty than at present selecting from the very large numbers of highly-qualified applicants.

At the fall convocation of 1969, the degree of Master of Library Science was conferred on 26 graduates; at the spring convocation of 1970, the degree was conferred on 36 more. Our graduates are now placed in Taiwan, Saudi Arabia, Australia, and the United States as well as Canada. In Canada they hold positions in Alberta (2), Manitoba (3), Quebec (3), and the Maritimes (1) as well as Ontario.

## The AALS Conference

Our students and alumni played an important part in the conference held June 26-27, for they took a major initiative in explaining and evaluating the experience of the School. A distinguished library school director had stated, after observing the new seminar system in practice: "I think you have demonstrated the potential vitality of this method, and I sincerely consider it to be the only major innovation today in education for librarianship on this continent". This and other aspects of the School's work was vigorously debated and discussed by 97 visitors and their hosts.

Discussion was based on a series of publications specially produced for the occasion, and upon a film and videotape presentation of the School supplemented by guided tours. The series of pamphlets (Library and Information Science Studies Nos. 1-12) was a direct outcome of the recommendations of the Committee on Accreditation of the American Library Association mentioned in the last year's annual report. They were:

As the faculty develops its highly innovative curriculum, it should record and publish the program's rationale, structure, and operation for the benefit of library education as a whole. The faculty, building on its unique experience in seminar method, should make a detailed analysis of its use and adaptations with the help of one or more specialists in learning theory, and present an assessment of this to the Committee on Accreditation.

Evaluation of the papers and of the audio tapes of the discussions is planned, and a report for the Committee will be made.

Other publications of the School used to demonstrate the research and teaching program of the School were *Book Catalog Number Three* (our computer-based experimental catalog of the School's working collection) and *The HPB Project: Phase II* (a report on another computer based experimental catalog used to control our collection of books printed before 1801).

## **Development of the School's Quarters**

With the very large increase in the student body, the overcrowding reported last year became almost intolerable, and prompt measures were taken to cope with the situation. The suggested addition of a portable classroom was abandoned in favour of an addition of 3000 ASF to the existing building of 14,000 ASF, and a rationalization of space allocation in the whole building was attempted. The most urgent requirement was two new seminar rooms, and these were completed in time for the winter term by constructing a small seminar room, to seat 30, out of space in the AV laboratory, and by transferring the storage library to emergency space in two houses on Western Road and converting that library to a seminar room seating 64. During the winter, shortage of space forced us to use the smaller of the two seminar rooms for housing the technical services for the School's working collections.

The addition to the building was ready for occupancy by the beginning of the summer term, and technical services were transferred to one of the four rooms thus made available. The binder and his equipment and some of the AV equipment displaced by the smaller of the new seminar rooms was housed in another of the four rooms; the computer terminals and keypunches, typewriters, and a copying machine were relocated in a third room; and the special collections of the School were transferred to the fourth room where they now form part of the library facilities as was originally intended. The former bindery has been temporarily devoted to an interim storage library, as the difficulty of access to the emergency space on Western Road makes it almost impossible to use the storage library in the teaching and research program. The former rare books room, despite its lack of appropriate furnishings, serves as faculty lounge to relieve the pressure on the two other lounge areas.

In the rationalization of space, library facilities were given second priority to seminar rooms. Extra shelving (129 ft) and further seating was added to the main library area. Space for over 40,000 books is now available, but weeding of the collection (with transfer of the less-used material to a properly-designed storage library under experimental computer controls) will become a necessity in the coming year. Seating in the library was increased during the year by adding 16 single, 5 double, and 3 quadruple carrels, and 19 typewriting seats. The total seating is now 121.

Student and faculty facilities, regrettably given third priority, will be improved considerably in the coming year, but much remains to be done to cope with the expected increase in support staff and faculty. Toilet facilities, especially, need to be improved.

#### **Faculty**

The School was very fortunate to be able to add to its strength on July 1, 1969. Professor R.G. Prodrick. His experience as Assistant Librarian of the University of Toronto was of great value in developing our courses in administrative theory and practice, and his graduate experience helped to develop a research course in the social sciences.

In July, 1969, Professor Alexis J. Jamieson, who had been teaching in the library technician's program at Seneca College of Applied Arts and Technology, also joined the faculty. She brought with her valuable experience from this new development in education for librarianship as well as considerable experience in library work, especially in children's librarianship, and reference work.

In May, 1970, Professor Janet H. Fyfe joined the faculty, coming from a responsible library position in Saskatchewan. She and Professor Jamieson were of very great assistance in helping to cope with the large increase in students in the first term of the professional theory and methodology courses.

The Committee on Accreditation recommended that a full-time specialist in information science be added to the faculty within a year, if at all possible. This has now been acted upon. As forecast in last year's annual report, it was necessary to recruit a graduate of the School who has been specially prepared for the needs of the School. Mr. Douglas Bird was appointed Assistant Professor in information science just before the beginning of the Summer Session, 1970. A senior specialist with considerable experience in the field is also being sought.

The course in Canadiana continued to be taught during the year by Dr. Henderson of Huron College, but the School was fortunate to be able to build on the good work done by visiting lecturers when the full-time services of Professor Gloria M. Strathern were secured in June, 1970. Professor Strathern brings considerable bibliographical and research library experience to the program, and is teaching both Canadiana and a research course in the humanities.

Other part-time or visiting faculty made distinguished contributions to the teaching program, and gave the School more time to build up its full-time faculty while we adjusted to the large increase in student numbers. Professor A.W. Bowron, Canada's only full-time library consultant, taught a course in library

architecture for one term, and was followed by Professor Margaret Beckman of Guelph University Library (in collaboration with practising architect Mr. Stephen Langmead). Professor W.S. Debenham, acquisitions librarian at Yale University Library, brought first-hand knowledge of two great research libraries to a course on book-collecting and librarianship. Professor B.J. Halevy, of York University, taught our first course in law librarianship. Professor J.T. Parkhill applied his experience with Metro Toronto's library system to a course on community services. And to enable the School to offer the course in medical librarianship for the second time, Professor Gwen S. Cruzat, of Wayne State Medical Library, visited weekly from Detroit during the summer term, 1970.

The tutors who joined the School in the previous year were given lecturer status. Mrs. Shirley Edgar, Mr. Samuel O. Alexander, and Mr. Norman W. Murray resigned at different times during the year, and Mrs. Kersti Hansen, Mr. Peter Scott, Miss Elizabeth Ketchum, and Miss Carmen Sprovieri were appointed as lecturers during the first few months of 1970.

Miss Jennie Cheng was appointed as the School's Librarian in September 1969, and Mrs. Barbara DeYoung as Assistant Librarian.

In August 1969, the Faculty and student representatives once more joined together for a three-day review session, this time at the University of Waterloo. The curriculum and teaching program were intensively discussed, and new experiments in modifying our distinctive seminar methods were evolved to meet the challenge of the increase in student numbers.

#### **Student Council**

Student Council representation on Faculty Council has now been embodied in the School's constitution. Participation by students in determining academic policy within the School continues to be most valuable.

Student initiative was responsible for the formation of a Committee on Methodology Evaluation (COME), and the results of this voluntary student-faculty discussion group was a report that contributed significantly to the development of teaching and learning methods within the School and to the explanation of our program to our AALS visitors.

#### Library

The School's Library at the end of June 1970 had 44,287 volumes on the shelves. The number of titles listed in the computer-based Book Catalog was 16,500 and these were arranged under 183 main classes and 4,068 subject headings. The total number of books printed before 1800 (now housed in the Special Collections Room adjacent to the main room of the Library) is 7,730. The number of volumes listed in the computer-based HPB (Hand-printed books) catalog was 2,240. The remaining 5,490 volumes are under bibliographic control in a manually-produced provenance file. Of the 34,557 volumes housed in the main room of the Library, over 4,000 are in the children's literature collection, for which a separate catalog has not yet been developed.

SLIS, after a year's end review of the standing order file, was receiving 685 current periodicals. 537 non-current titles were on file, and 464 are counted and listed in the Book Catalog. The library has duplicate subscriptions for 53 titles. Of the serial publications (both current and non-current), 144 were annual reports, 122 were directories, 19 were proceedings of conferences, and the remaining 51 titles were miscellaneous.

Gift and exchange programs continued to be active. Major acquisitions included 1400 sheet maps and 4488 miscellaneous volumes from the Library of Congress, and 900 volumes of 19th century Russian periodicals (about 20 titles) and 104 other items from the Library of Foreign Literature, Moscow. 240 volumes were gifted from the personal library of A.D. Osborn, retiring Dean of SLIS, and 2033 volumes came from Yale University on exchange.

Bulk purchase resulted in the acquisition of 25,000 volumes from a bookstore in Cleveland, and 400 volumes of German library science were acquired during a trip to Europe made by Dr. Osborn and Professor Palmer. A valuable Americana reference collection of 526 volumes formed by Thomas Winthrop Streeter was also a major acquisition.

Individual acquisitions included Hyde's catalog of the Bodleian Library (1674). Smith's catalog of the Cottonian collection (1696) with the complementary 1802 catalog of Pleva added considerably to our collection of early library catalogs. A rare annotated auction catalog (of the famous Roxburghe sale) that belonged to the great bibliophile Richard Heber (among others) was also a very useful acquisition. Three

more incunabula or parts of incunabula, and a 16th century Chinese encyclopedia were added to Special Collections, and a special strength in biographical dictionaries is beginning to emerge from the collection of dictionaries supporting our valuable collection of editions of Johnson's *Dictionary*.

Altogether, 8552 volumes and 1400 sheet maps were acquired through exchange programs, and 485 books came from gifts. In return, SLIS supplied Canadian books to many of the institutions with which we have exchange arrangements and copies of its own publications. Professor Colvin set up gift and exchange programs with several libraries in Africa which she visited during the summer of 1969.

Many thousands of books are currently stored in emergency space in two houses on Western Road. The rough sorting of about two-thirds of this collection has been completed, and the resulting special resources collections should be fully available for the teaching program in the coming year. The use of this material in properly-planned laboratory teaching has been seriously hampered by temporary deterioration in the faculty-student ratio caused by the sudden increase of student numbers. The implementation of this aspect of the School's work (outlined in previous annual reports) will be a high priority in the coming year, and will require considerable augmentation of the library and other supporting staff.

Working has begun on creating catalog cards of the School's collections for incorporation in the campus union catalog in Lawson Memorial Library, and in the national union catalog in Ottawa. About 150 were ready for dispatch on June 30. The Milton collection acquired by Lawson last year was catalogued by short-title methods and incorporated in the HPB catalog. The catalog of the books before 1800 written by Milton himself were then published as part of a demonstration machine-readable union catalog (pp. 43-80 of *The HPB Project: Phase II)*, June 1970.

#### **Computer Control of Information**

The speedy control of such a major collection by means of a computerized short-title catalog demonstrated that new methods for making bibliographic data available are part of the research work being undertaken by the School. A third edition of the Book Catalog was another such demonstration. Smaller research projects undertaken by both faculty and students are indications of a growing determination to produce worth-while results in attempts to grapple with problems faced by information scientists.

Considerable improvements in access to computer facilities have helped to make this possible during the year. The distressing complaints made in last year's annual report we need make no longer. But much still remains to be done. The terminal link with the computer in the Systems and Data Processing Department was operational (albeit in a very limited way) in the winter term, and another terminal, linked with the computer in the Computer Centre, was also available for student use in the summer term, 1970. The Althouse College of Education computer has been made available for some aspects of the School's work, and the transfer of the School's circulation system records to that centre has increased the efficiency and demonstration value of the operation. Cooperation between SLIS and the three computing centres with which it is connected has improved greatly, and we look forward to carrying out long-overdue plans during the coming year.

The University of Pittsburgh, through the good offices of Professor J. Belzer (one of the School's visiting lecturers) made us a gift of a Photon 560. When this computer-run photosetting machine is made operational, it will integrate the computing, AV, printing, and binding operations in the School, and thus provide students with an opportunity (unique in any library school) to see modern and ancient technology at work in the production of the materials with which they will be concerned in their professional life.

#### Equipment

Acquisition of most of the equipment planned for other aspects of the School's work was delayed until space was available. A "perfect binding" machine was added to the Bindery, an 029 keypunch for student and library use was acquired to supplement the 026 (which can now be dedicated to the circulation system), and a considerable number of additional typewriters for students use were installed in the new machine room. It has not yet been possible to extend the Bell Telephone touchtone-dial equipment for use with the computer console to obtain rapid retrieval of information from the School's data banks.

# The School's Foundation Period

With the retirement of the School's founding Dean, Dr. Andrew D. Osborn, it seems appropriate to review the contribution made by him and the School to the University, the province, and the library profession.

The University was fortunate in securing Dr. Osborn in 1966 as the founding Dean of the new School, for he brought with him a rare combination of international experience and a global vision of librarianship and education for librarianship. Because of the strong financial support provided by the Province, and the University, he was attracted to the challenging opportunity to think through a fresh approach to graduate education for librarianship. He enthused the original faculty with his ideas for developing new teaching methods to attain new goals. There can be no doubt that, with the help of the faculty he so ably recruited, he has in a very short time not changed the objectives and the assumptions of education for librarianship in Canada, but also, its methodology. SLIS has galvanized other library schools in Canada into developing new methods and long-term goals, and speeded up the trend towards the change-over from the old B.L.S. programs to the new M.L.S. programs now being instituted in all Canadian schools.

Dr. Osborn's vision will continue to be a strong influence on the development of the School. It was with great regret that he did not see before his retirement the full implementation in the School of all the features which the original faculty members found so attractive. The development of the School's distinctive seminar method, its unique demonstration features, its computer-based classification scheme and book catalog, its experimental laboratory work, its emphasis on love of books as well as the study of information as an intellectual phenomenon, its insistence on high academic as well as professional standards are all ideals which have not yet been fully attained. That most of them will be attained within a year or two will be due partly to the careful thought which went into their formulation and the excellent planning that went into the first three years of their concrete realization.

# **ALTHOUSE COLLEGE OF EDUCATION**

Report of the Dean Dr. Ernest Stabler

The activities of faculty and students that are chronicled here can best be seen within the context of education in Ontario. It is, for example, symbolic that the Emergency Training Program held its last session in the summer of 1969. For fifteen years the province had worried its way through a teacher shortage, and the combined efforts of summer and winter programs were barely able to staff the secondary schools. At the same time that the school population was expanding a series of changes in educational theory and practice began to occur. (I hesitate to overstate the case by using the fashionable term "educational revolution," but the new curriculums in mathematics and science, the oral emphasis in foreign languages, and the concern to reach the non-academic child are symptoms of the changes I have in mind.) These developments place more rather than fewer demands on the teacher, and thus at the very time that teachers ought to have been well prepared for their first position the province was obliged to limit their initial training to one summer session. The year 1969-70 appears to have been the turning point. The Registrar received more applications than ever before and he was able to insist on higher academic qualifications. And in certain fields, English and history for example, the years of shortage now appear to be over.

The implications are both clear and troublesome: we can expect more candidates for admission, but we face the terribly difficult task of selecting those best qualified. Instead of relying almost entirely on academic performance, as in the past, the Registrar has introduced several new instruments of selection: an interview, two references from university faculty, and a detailed application form that includes an autobiographical essay. These were used experimentally to select the 1970-71 class of 800 from among some 1500 applicants. It is also clear that as the province moves out of a quantity period and into a quality phase we must meet the challenge of these bright students and prepare them well for the very considerable demands of contemporary teaching. The concern of the Faculty in this regard resulted during the year in allowing students a greater flexibility in the choice of courses, in the offering of several half-year electives, and in giving increased attention to the quality of our own teaching.

The determination of the Ontario Government to decentralize many aspects of education has given the new county and municipal boards a good deal more freedom and responsibility in the field of curriculum development. As the Curriculum Branch of the Department of Education encourages county boards and indeed local schools to decide both the content and method of their instruction, the faculty of a college of education may become a partner in the enterprise. Increasingly, through short courses and week-end conferences, Type A seminars and curriculum committees, the Althouse faculty are becoming more deeply involved in curriculum development. It is, of course, intrinsic to our function because one very effective way in which we can contribute to the continuing education of teachers is to assist them in devising new courses of study and strategies for teaching them.

This interest in curriculum development was accompanied by growing involvement in research. Early in the year a Committee on Research and Development Proposals was appointed and by the end of the year it had approved 23 proposals for a total funding of \$32,996.60. In addition, several projects enjoyed external support; among these was Professor Paul Park's Early School Environment Project which for the period 1968-70 was sponsored by the Ontario Institute for Studies in Education. During the year under review the Ford Foundation awarded a grant of \$238,000 to Professor Park for a further three-year study during which teachers and principals will be involved in the developing and testing of teaching materials. The project will use the child's environment as a starting point for curriculum development.

For many years Ontario has not had the facilities to train an adequate number of educational administrators, guidance counsellors and other specialists. The creation of the Ontario Institute for Studies in Education in 1965 and its subsequent growth has done much to fill the gaps but it is now quite evident that one centre for graduate studies in education is not enough. After long and careful

study the Faculty Committee on Graduate Studies completed its proposal for a program leading to M.Ed. degrees in Administration and Guidance and a Master of Arts in Teaching degree in five disciplines. A draft of this proposal was approved by the Faculty Council for transmission to the University Faculty of Graduate Studies. If approved by internal bodies including the Senate, and if appraised favorably by the Ontario Council on Graduate Studies, this graduate program could begin in 1971.

The full integration of teacher education within the University may have moved a step nearer to reality during the year. In the knowledge that the Minister of Education wishes to place all teacher education under the auspices of Ontario universities the Senate appointed an Ad Hoc Committee on the Integration of London Teachers' College. Professors Kenney and Harper, Mr. Nediger and the Dean were members of the committee which was chaired by the former Dean of Althouse, Dr. W.S. Turner. Toward the close of the year the committee presented its report to Senate and recommended the integration of Althouse and London Teachers' College into a University Faculty of Education.

A further indication of integration lies in new budget procedures. For the first time the college budget was submitted to the university and through it to the Department of University Affairs. This was a marked change from the earlier practice of a direct submission to the Department of Education. The new procedure made it only too clear that it is necessary to interpret to governmental bodies the unique features and necessary costs of teacher education. In May, the newly-formed Committee of Deans of Ontario Colleges and Faculties of Education met with the Minister and his Deputies to discuss budgets and related matters and to initiate a series of discussions on the question of formula financing. Thus 1969-70 may be the last year of the direct grant. It also would appear that the Government of Ontario recognizes the Taxpayer's Revolt and has decided to reduce expenditure for education. Althouse College will have no choice but to live more frugally.

Again, as in past years the college was involved in international and intercultural programs and projects. Some 150 CUSO volunteers spent five weeks in the summer of 1969 at Althouse and Westminster Colleges in preparation for their teaching assignments in West Africa. A new feature of the program was the Resource Centre in which volunteers could, on an individual basis, use a computer and information retrieval techniques, together with multi-media resources. The success of this Centre prompted the development of a Learner Centred Project which received funding from several sources including a research grant from the College. Several experienced teachers from Guyana spent the year at Althouse in preparation for new careers as teacher trainers and secondary education supervisors in a multilateral school project. Richard Harland served as coordinator of this program and with William Nediger visited Guyana in August-September. The program is sponsored by the Canadian International Development Agency.

The Teachers Returning from West Africa program was designed to prepare returning CUSO volunteers for teaching in Ontario schools. Eighteen volunteers enrolled in September for a half-year program of class work and practice teaching. Following a careful evaluation the Academic Policies Committee recommended that the program not be continued, and instead that returning volunteers be encouraged to enrol in the full diploma program. The Intercultural Teacher Education Program, approved to begin in 1970-71, under the direction of Professors Blue and Radcliffe, will prepare Althouse students for teaching on an Indian reserve, in a northern settlement, an inner city, or a country overseas.

With the assistance of the Canada Council and a research grant from the College, Professors Irvine and Sanders continued their evaluation and synthesis of research on human behavior in Africa. During May and June they visited some twelve universities and research institutes in Africa south of the Sahara. Professor Harry Beatty was seconded to CIDA for three months during which he joined an international team to study technical teacher education in Colombo Plan countries in South and Southeast Asia.

No report of a college of education would be complete without a reference to our partnership with principals and teachers in a great many cooperating schools. Over 1,100 teachers in 25 elementary schools and 111 secondary schools in Southwestern Ontario and the Niagara Peninsula acted as Associates of Althouse College and accepted student teachers into their classrooms for observation and practice teaching. There were four blocks of practice teaching for a total of nine weeks during the month of October, December, February and April.

It was a year that for students began quietly and ended in anxiety. During the fall the Faculty Council, the Advisory Committee and the Students Council resolved the issue as to whether a B.Ed. or a Dip. Ed. would be the more appropriate award for completing the one-year course by agreeing on the Diploma. A proportion of the student body held to their preference for a B.Ed. but on April 24, 1970 the Senate also approved a Diploma of Education. During the year a group of student entrepreneurs published *Why?*, a

newspaper that provided a vehicle for student opinion but revealed very limited literary talent. Toward the end of the year our students were caught in the controversy between the Ontario Trustees Council and the Ontario Secondary School Teachers Federation. When the Federation "pink listed" the Toronto Board the Trustees Council persuaded its member boards not to issue any teaching contracts and thus students were unable to secure positions until mid-June. In spite of the anxieties generated by this impasse the students demonstrated a high degree of wisdom and maturity and took a united stand behind their Students Council. These events of the spring term underlined again that we are preparing teachers for a militant profession.

It was, I believe, a lively, controversial and productive year for the faculty, 22 of whom were new appointments. Perhaps I may use this occasion to thank them for their warm welcome and their remarkably generous cooperation throughout the year.

## **SUMMER SCHOOL ENROLMENT - 1969**

Completing Course	Number of Students
History of Education	739
Philosophy	742
English	262
French	79
Geography	78
History	184
Home Economics	37
Latin	32
Mathematics	118
Music	10
Physical Education	222
Science	214
Commercial	137
Number of students enrolled	759
Type A Seminars	
Biology	16
Chemistry	16
English	38
English & French	2
English & French	2
French	21
Geography	33
History	47
Home Economics	8
Mathematics	30
Mathematics and Physics	3
Music	11
Men's Physical Education	35
Physics	8
Physics & Chemistry	2
Science	3
Number of Students enrolled	273

## **Certificate Courses**

Intermediate Part II	64
Physical Education Specialist Course	
Women – Intermediate Part II	21
Men —	13
Home Economics	
Intermediate Part I	53
Vocational — Type A, Part I	51
Vocational - Type A, Part II	58
Vocational Type B, Part I	48
Vocational Type B, Part II	73
Regular Business & Commerce	130
Number of students enrolled	511

#### **WINTER SESSION 1969-70 ENROLMENT**

Total number of students enrolled as of October 15, 1969.

Type A Female			100
Type A Male			125
Type B Female			229
Type B Male			139
Vocational	in.		44
Occupational			8
T.R.W.A.		120	18
Number of Students	enrolled		663

# THE SUMMER SCHOOL AND EXTENSION DEPARTMENT

Report of the Director Miss Angela M. Armitt

Attitudes toward the role of continuing education in the University have changed radically in the past four or five years. The part-time adult student struggling to finish his degree has begun to win some recognition for his efforts. Students in outlying areas taking extension classes or correspondence courses are now being considered an important segment of the University community. Teachers, engineers, businessmen and members of other professions are demonstrating the need for the University to provide upgrading or updating courses. Conferences, seminars, institutes and refresher programs are all becoming a vital offering in the University extension development. Enrichment courses reflect the interest of the culturally hungry community. There becomes a greater need for vital, experimental, creative offerings. The Department is experiencing increasing pressures to provide more varied, valid and worthwhile programs, to use new techniques and media and to develop creative new programs to fit the social needs of a rapidly changing society.

Growth is evidenced in all areas in which the Department is offering programs. Evening Summer School now makes it possible for the man or worman employed during the day in the community to continue degree work in the summer in evening sessions. This program is becoming the most rapidly growing development of the Department in the credit field. Day Summer School reflects a wider offering of courses. The pattern of the part-time degree student has changed considerably since he now works much more rapidly toward a degree, and extension and summer day and evening programs must be carefully integrated so that he can accelerate his program. The great increase in the number of students taking credit courses, certificate programs or some of the many continuing education offerings has meant that most buildings on campus are being completely used at night. Parking facilities have been a problem because students were forced to pass by partly empty lots to and from their evening classes. At the close of the spring term, however, it appeared likely that more satisfactory arrangements would be made for the fall.

The report which follows set down what the Department is doing and what, in some areas, it is trying to accomplish to fulfil the needs of the University in its outreach to the whole community.

#### **Summer School**

## **Day Summer School**

The total summer enrolment increased from 2492 students in 1968, taking 3391 courses, to 2814 in 1969, taking 3883 courses. Students were registered for 3072 courses at Day Summer School, 601 at Evening Summer School and there were 210 course registrations at the Owen Sound Summer School. Staff for the three summer schools totalled 134 and in addition there were numerous tutors, demonstrators and markers.

Over 300 students registered for Honors courses. Courses were offered at the Honors level in Chemistry, Computer Science, English, French, Geography, Geology, History, Latin, Mathematics, Physical and Health Education, Physics, Political Science, Psychology and Zoology.

A number of students registered for one course at Evening Summer School and one at Day Summer School.

The Summer School Students' Association played an active part in arranging cultural, athletic and social programs for the students at Althouse College and on the main campus. Talbot Summer Theatre offered a fine program of plays throughout the summer session.

#### **Owen Sound Summer Campus**

This summer campus, begun in 1967, has grown steadily. By 1969 there were 152 students taking 210 courses, an increase of 59 course registrations. This summer campus has been strongly supported by the community, and facilities have been offered free at West Hill Secondary School by the Grey County Board of Education. The County Board and the Grey County Council have been most generous in giving grants for the Library at West Hill to provide books for these University courses. In 1969 ten courses were offered with all members of the teaching staff drawn from the University or its affiliated colleges.

### **Evening Summer School**

The introduction of Night Summer School has proven of great value and offers a very real service to those in the community who wish to continue degree studies at Western in summer as well as in winter while still being employed. From a beginning with 236 students in 1967, there were 600 by 1969, while the number had increased in 1970 to 842. Not only did the number of offerings increase to 18 but classes were timetabled so that students were able, if they wished, to take two courses. Classes were offered at 5:15 and at 7:15 p.m. All classes were taught by full time University staff.

Many new students applied for admission. A large number drove to the campus two nights a week from distances up to 80 miles. A number of students who felt they could not complete two courses under the pressure of a six-week summer session found the three-month evening summer school a more enjoyable way of proceeding with a degree.

#### **Extension Classes**

There was a need for additional courses in many of the counties served by the University. Ninety-one classes were offered as indicated on the chart below:

London	49 classes	Sarnia9	classes
Brantford	9 classes	Stratford	classes
Chatham	6 classes	Tillsonburg2	classes
Clinton	3 classes	Woodstock	classes
Owen Sound	6 classes		

There were 2814 students registered for 3883 courses. Outside of London, Sarnia was one of the fastest growing centres, with Clinton also developing as a busy centre for students. The number of people registering as auditors in credit courses in all centres rose to 149.

Since teachers find an increasing need to complete a degree, there is a more rapid growth than usual in Extension classes, but as well, many people in industry, business, social service agencies, police departments, etc., are also working on degree programs.

#### **Correspondence Courses**

In 1969-70 there were 211 students taking 232 courses, approximately the same number as in 1968-69 when there were 212 students taking 233 courses. Improved library service and detailed outlines have aided students greatly. Students who registered for courses were living in seven provinces of Canada and the North-West Territories as well as in the United States, Africa, West Indies and the Canadian Forces Base in Europe.

Twenty-four courses were offered by Correspondence in the following fields: English, French, Geography, German, History, Latin, Philosophy, Psychology, Sociology and Spanish.

## Non-Credit Continuing Education Program

The Department was again active in many areas of continuing education during 1969-70. General interest courses, professional development courses, seminars and workshops were offered in London and Owen Sound. In addition, students were able to audit the regular evening or Saturday extension courses, which were offered for degree credit in London and at outside centres. A detailed list of the non-credit courses, seminars and workshops (including enrolments and course lengths) will be included at the end of this report and will present the highlights and innovations of the 1969-70 Continuing Education (Non-Credit) Program.

In 1969-70 professional courses such as those offered for welfare agencies and the Institute of Canadian Bankers were advertised and made available to all participants. Enrolments for these courses were increased and in addition the instructors reported that the wider backgrounds of the participants improved the discussion periods and resulted in better courses.

The response to the language courses in Conversational French and in English for Those Whose First Language is not English showed the continuing need for these programs. This year the Department, with financial backing from the Canada Manpower Centre, organized special classes in English for the 16 Czechoslovakian students who were taking refresher dental training on the campus. Ten two-hour sessions were organized in the fall with a further ten sessions in the spring term. This program concluded with eight sessions of additional classes for the three students who required more practice to give them confidence in the language.

To meet the increased interest in Japan created by Expo 70, the Department offered a course in Japanese Culture and Language in the fall and another one on Japanese Conversation in the winter. These courses ended in dinner meetings with Japanese food and cooking and with many appearing in authentic Japanese costumes. The program on Japan concluded with a special lecture on March 1 by Professor Klaus H. Pringsheim from McMaster University on Japan and The Japanese Study Tour.

In 1969 courses were offered from other areas of academic interest that had not been previously offered at Western. Three such courses were: The Art of the Armorer — An Artistic Survey of Historical Arms and Armor, Classical Mythology, and Wills and Estate Planning.

Two courses on the use of computers for educational purposes were offered in cooperation with Althouse College of Education and the Department of Computer Science. A Computers in Education Course was offered on ten Saturday mornings in the fall for administrators, principals and department heads. The 22 participants came from many counties in south-western Ontario. A Computer Assisted Instruction Course was developed in cooperation with the St. Thomas Branch of the Ontario Secondary School Teachers' Association. Twenty-three teachers completed this course at the beginning of May 1970.

The Department continued to work actively with the London Chapter of the Appraisal Institute of Canada and the Society of Industrial Accountants of Ontario in presenting the Real Estate Appraisal and the Registered Industrial Accountants (R.I.A.) course. The London and District Labour Council again held its annual week-end educational seminar on the campus in late February with attendance up to approximately 275 with the inclusion of the St. Thomas organization. As this seminar is organized by the Labour Council and only uses the facilities of the University, the seminar is not listed with the seminars and workshops that have been offered in cooperation with other departments or organizations.

For several years the Department has cooperated with the Children's Psychiatric Institute to present a two-week Workshop on the Mentally Handicapped Child and his Family at the end of November at the C.P.R.I. This series of annual workshops has been very successful and this year's course was again filled to capacity with 27 registrants.

A three-day workshop in Computer Processing of Geological Data was organized from October 6 to 8, 1969 by Dr. P.G. Sutterlin of the Department of Geology. This workshop was designed to show how the SAFFRAS (Self Adaptive Flexible Formal Retrieval and Storage) system could be universally used to store and retrieve geological data. Twelve sets of real data were supplied by the participants and each set was used to generate a data file and to retrieve data from the file. The 28 registrants had the following affiliation and origin: government — 11 from Canada and one from West Germany; university — seven from Canada and one from U.S.A. Dr. S.C. Robinson of the Geological Survey of Canada addressed the course dinner on October 7, 1969.

A three-day seminar on Air Pollution Problems was organized in conjunction with Dr. W. Bulani of the Faculty of Engineering Science. The seminar was designed to discuss with scientists, technologists, educators and administrators the nature of air pollution problems (their sources and effects, and the strategy and methods of control).

The seminar was based on the five-day Air Pollution Seminars which were sponsored in the United States by the Manufacturing Chemists' Association and organized by August T. Rossano Jr., Professor of Air Resources Engineering of the University of Washington in Seattle. In addition to obtaining Dr. Rossano and the other specialists from the United States, Dr. Bulani arranged to have representatives from the Federal and the Ontario Provincial governments and from Canadian industry participate in the seminar.

Sixty-eight people registered for the seminar from outside the university community and all except two were able to attend the sessions. Sixty came from industry (including consulting firms), three were representatives from Ontario municipalities, two were from industrial associations, and one each from the Department of Agriculture, B.C. Department of Health and the University of Sherbrooke. They came from across Canada with one from New York State. The University of Western Ontario was well represented with 38 faculty, staff and graduate students attending one or more sessions. Including the three people from the local news media, 117 people participated in the seminar with approximately 100 people attending each session.

As part of the seminar program the participants visited the research facilities of the Faculty of Engineering Science and attended a reception and dinner in Somerville House. At the dinner, Dr. R.J. Rossiter, the Vice President Academic and Dean R.M. Dillon of the Faculty of Engineering Science welcomed the visiting lecturers and seminar participants to the University. The interest and enthusiasm of these two speakers added greatly to the success of the seminar.

The seminar sessions were held at the Downtown Holiday Inn due to the fact that suitable accommodation was not available during the day on the campus.

A Workshop in the Expanding Role of Community Nurses was directed by Professor Ethel Horn of the Faculty of Nursing from Wednesday evening May 27 until Friday May 29, 1970. The purpose of this workshop was to identify issues and concerns in beginning co-professional relationships and to develop guidelines for the collaborative role in the health care of families. The 36 registrants were an invited group because of their experiences as community nurses throughout the country. Three came from Alberta, one from British Columbia and the balance came from Ontario. In addition a number of doctors from London participated in some of the sessions. It is planned to issue a report on the proceedings of this workshop.

The Department assisted the Department of Physics with the arrangements for a three-day *Positron Summer School* which was held at Owen Sound From Friday June 26 to Sunday June 28, 1970. The purpose of this seminar was to enable research scientists from the United States and Canada to gather in an informal setting to present lectures and to discuss topics of interest in positron research. The 33 participants included four scientists from NASA-Goddard Space Flight Centre in Maryland, three from Michigan and one each from Commecticut, Massachusetts and Texas, as well as six from the University of Toronto, three from the University of Manitoba and one each from Queen's and Guelph Universities. Twelve scientists from Western participated in the seminars.

The Department is indebted to citizens and to Western Alumni from Owen Sound who played an active role in making the Positron Summer Seminar a success. The Grey County Board of Education provided facilities to hold the seminar in the West Hill Secondary School. Judge and Mrs. F. Egener arranged a program whereby the participants and their families could enjoy some of the recreational opportunities in the area. Then at the conclusion of the formal discussions on Sunday afternoon, Dr. and Mrs. C.Y. Hauch gave a reception at their home for all visitors.

As seen from the variety of courses, seminars and workshops which were offered in 1969-70, the Department has been very active in providing educational opportunities for members of the community who are not studying towards a degree. The active participation of faculty and staff of the University, and the great interest shown by members of the community, have combined to give vitality and variety to the rapidly expanding continuing education program at Western.

# **Summary of Non-Credit Courses**

	Hours	Registrants
Credit course Auditors 1969-1970		
Evening Summer School, London		18
Day Summer School, London		37
Day Summer School, Owen Sound		4
Extension, London		66
Extension, 7 outside centres		24
Total Registrants		149
General Non-Credit — Fall 1969		
The Art of the Armourer	16	14
Classical Mythology	16	16
Contemporary World Affairs	16	18
Conversational French (4 classes)	20	67
English for Those whose First Language		
is not English (3 classes)	20	46
Human Development	16	Cancelled
International Law and Relations	20	Cancelled
Japanese Culture and Language	16	35
An Outline of Canadian Painting	16	35
Physical Fitness for Women	16	27
Problems in Society	16	Cancelled
Introduction to Statistical Methods	20	12
Survey of Mass Communications	16	13
Wills and Estate Planning	16	28
Total Registrants		311
General Non-Credit Winter 1970		
Conversational French (3 classes or levels)	24	15
English for Those Whose First Language is not English		
(2 classes)	24	24
Japanese Conversation	16	12
Lecture on Japan and Expo Tour March 1, 1970	3	25
Sensitivity Training	24	25
Total Registrants		101
General Non-Credit Owen Sound		
Efficient Reading July 1969	15	37
Modern Day Social & Ethical Problems (fall)	16	18
Efficient Reading January 1970	15	35
Social & Ethical Problems January 1970	16	10
Total Registrants		100
. 5 647 . 1 5 3 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5		

	Hours	Registrants
Special Courses		
	50	62
Banker & Society	50	63
Business 20 (Bankers, etc)	50	48
Business & Personal Finance (Spring 1970)	50	12
Economics 20 (Bankers, etc.)	50	19
Communications	50	15
Computers in Education		22 (10 Sat. morn.)
Computer Assisted Instruction		23 ( 4 evenings)
Contemporary Approaches of Professional Nursing	20	Cancelled
Practice  Financial Analysis & Control	50	15
Financial Analysis & Control	7.7	22
Legal Aspects of Business in Canada	50	38
Real Estate Appraisal	40	42
Welfare Officers Course Phase I	20	
Welfare Officers Course Phase II	20 10	36 26
Welfare Officers Course Phase III	10	
Total Registrants	4,	381
R.I.A. Courses for the Society of Industrial Accountants of Ontario		
	40	40
Accounting I	40	48
Commercial Law	40	50
Accounting II	40	37
Managerial Statistics	20	27
Report Writing	20	31
Accounting III	40	24
Total Registrants		217
Seminars and Workshops		
Workshop on Computer Processing of Geological	0.1	00
Data	3 days	28
Seminar on Air Pollution Problems	3 days	117
Workshop — Mentally Handicapped Child and his		
Family	2 weeks	27
Workshop on the Expanding Role of Community	01/	00
Nurses	2½ days	36
Positron Summer School (Owen Sound)	3 days	33
Total Registrants		241

# TROIS-PISTOLES SUMMER SCHOOL

# Report of the Director Associate Professor F.K. Harper

The 1969 session of the Trois-Pistoles Summer School was held from July 3rd to August 13th. Student enrolment rose by 10 over the previous summer to a total of 165. Course registrations rose by 15 to a total of 170. While the largest number of students came from Ontario and Quebec, all provinces except Newfoundland and Prince Edward Island were represented in the student body. There were also about a dozen students from the United States of America.

Of the 165 students, 119 were registered in the French courses and 37 in the English courses for French-Canadians. 1 English-speaking and 4 French-speaking students were enrolled in the bilingual Painting Course. 1 English-speaking and 3 French-speaking students took the course in the Methodology of Teaching English as a Second Language. As in the previous year, this last course featured a demonstration class of about a dozen French-speaking school children of from 10 to 14 years of age. Once again the course was highly praised by officials of those Quebec Regional School Boards whose teachers participated as students.

The staff consisted of 19 persons: the Director, the Secretary, 3 Instructors of English, 10 Instructors of French, 1 Instructor of Methodology, 1 Instructor of Painting, 1 Recreation Monitor, and 1 Language Laboratory Monitor. English courses were given at three levels of instruction and French courses at six levels ranging from a Beginners' class to one at the Third Year Honors Level. For the first time a credit course was offered in French-Canadian Literature. Two credit courses in French civilization were also added to the program.

The Director accepted with regret the resignation of Professor Carl Theodore after twelve years of service to the Summer School. Professor Theodore was recently appointed to a post at the Ontario College of Education, Toronto.

The student choir, under the direction of Monsieur Armand Auger and Mr. Philip Clark, continued the tradition of giving a choral concert toward the end of the session over radio station, DJFP, Rivière-du-Loup.

Highlights of the recreational and cultural program were the concert presented by the choir "Les Roitelets" of Trois-Pistoles, the evening of cabaret offered by local *chansonniers*, the reception offered by the Town of Trois-Pistoles, the guided tour of the town provided by the Chambers of Commerce and which was followed by a dinner and dance, the guided bus tour to Trinité-des-Monts and the hinterland around Lake Témiscouata, the three-day bus tour of the Gaspé Peninsula, and the annual exhibition of the work of students of the Painting Course. At the *vernissage* for this last event, a number of invited notables were in attendance, including Mr. W.C.P. Baldwin of the University's Board of Governors, and Mrs. Baldwin; the Honorable Robert Stanbury, M.P., then Parliamentary Secretary to the Secretary of State and now Minister of Citizenship and Immigration, and Mrs. Stanbury; Monsieur Rosaire Gendron, M.P., Parliamentary Secretary to the Minister of Health and Public Welfare, and Madame Gendron; and a prominent Quebec artist of the region, the abbé Léonard Parent, who paints under the pseudonym "Basque".

Other distinguished visitors to the Trois-Pistoles Summer School during the session included Dr. D.C. Williams, President and Vice Chancellor of the University, and Dr. R.J. Rossiter, Vice President (Academic) and Provost, accompanied by Mrs. Rossiter and their son James.

La Corporation des "Cours d'été de Trois-Pistoles, Inc.", our committee of local citizens, once again obtained from the Federal Government a grant to support the non-academic activities of the students. With these monies the committee prepared and distributed a handsome illustrated brochure promoting the courses of the Summer School, paid for the transportation of the Painting Course students to sites of cultural interest, provided buses for the excursions to Trinité-des-Monts and the Gaspé, and offered a considerable sum of money for prizes to be awarded for excellence in studies at the Closing Exercises.

# **HURON COLLEGE**

# Report of the Principal

#### The Venerable Dr. J. Grant Morden

Once again Huron College held its registration to the same numbers as in the previous year. It has not been programming for any great extension of these numbers. The faculty has been concentrating on producing excellence in selected areas, and this policy is attracting each year a higher percentage of honor graduates from the Ontario high schools.

Huron College is pleased to report the nomination by the faculty and appointment by the Executive Board of Professor F.W. Burd to be the Dean of Arts of Huron College. Dr. Moira Sansom has succeeded Dean Burd as Chairman of the Psychology Department of Huron College.

Huron College is also pleased to report the appointment of Col. T.R. McCoy as Comptroller of the College and L.G. Barnes, B.A., as Deputy/Comptroller. The dual appointment is to give Mr. McCoy an opportunity to work on the development of the College, particularly in relation with the Alumni.

At the Founders' Day ceremonies on December 2nd Huron College received Mr. Hugh Rooney, M.B.A. as a Lifetime Honorary Fellow of the College and P.A. DuMoulin, Esq. as a Lifetime Honorary Member of the Corporation of the College. Mr. DuMoulin gave a magnificent address on the history and development of Huron College and of the personalities involved in her history.

At the Spring Theological Convocation of Huron College the degree of Doctor of Divinity, honoris causa was conferred on Dr. John Gordon Rowe, Dean of Arts of The University of Western Ontario. Dr. Rowe delivered a scholarly address on the timely theme of "Courage".

The annual Arts Conference of Huron College was privileged to play host to Professor Walter Cerf of Brooklyn College, New York who spoke on "On the Understanding of the Past".

Huron College has welcomed the new general B.A. program and the negotiations for a new affiliation agreement. However, we view with some concern the uncertainty in the patterns of development of various university departments because of the difficulty for a small college to conform with patterns that are feasible for a large department of a growing multiversity. The faculty of Huron College is at this time studying and expects in due course to present to the Senate of the University an outline of the type of liberal arts program that we hope to specialize in here at the College. We trust it will complement rather than duplicate all that major departments are trying to offer.

#### **Statistics**

# Registration of Students in the Faculty of Arts

First Year	214
Second Year	163
Third Year	118
Fourth Year	
	523
Special and Part-time	6
	529

In conclusion may I once again express the appreciation of this academic community for the benefits that we derive from being a part of the larger community of The University of Western Ontario. We are grateful to the President, the Senate, the Board of Governors, as well as to the Deans of the Faculties and particularly to the student organizations who do so much to enable the program of their counterparts here at Huron College to achieve a degree of excellence that enhances our common goals.

## **BRESCIA COLLEGE**

# Report of the Dean Sister Arleene Walker

On July 19, 1969, before the 1969-70 year had well begun, Sister Dominica, Dean of the College since 1963, and Head of the Home Economics Department since 1945, was elected by the Ursulines of Chatham as their Superior General. Brescia Faculty and students, while regretting their loss, rejoice with the Ursulines in this appointment.

This year of 1969-70 had been designated as Brescia's Golden Jubilee year, since October 8, 1919, was the date when the first affiliation agreement with The University of Western Ontario was signed. A three-day celebration to mark the event took place October 3-5, 1969. The program included a lecture on Anglo-Irish literature by guest lecturer, Dr. Norman Jeffares, University of Leeds; a Liturgical Service with Bishop Carter of London as chief celebrant and Archbishop Pocock of Toronto as homilist; a banquet at which President Dr. D.C. Williams of the University was principal speaker; and a Reception and Tea for Alumnae, Faculty, and friends. We were happy to welcome to the festivities many of Western's faculty, past and present, as well as representatives of government and many of our own Alumnae. We wish to express our gratitude to all of these, as well as to members of the Brescia Faculty and student Body and our friends for helping us to make this Jubilee time a memorable one.

The annual Baccalaureate Service at St. Peter's Basilica in May, 1970, was a fitting close for the year. With a record number of graduates in attendance, the address was given for the first time by a layman, Dr. Thomas Francoeur, Psychologist, of St. Joseph's Teachers' College of Montreal.

Another important event of this year for us was the formal acceptance of Brescia College to ordinary membership in the A.U.C.C. in November. We appreciate very much the encouragement and sponsorship of our application by Western's administration and faculty.

#### **Students and Student Activities**

While the total number of students declined somewhat, there was an increased number of Ontario Scholars in the freshmen class, as well as an increased number of Students on the Dean's Honors List in May.

In February, the Student Council sponsored a "Day off to Think" when students, faculty and alumnae gathered to exchange views on Brescia's past, present, and future.

In Women's Intramural Sports, Brescia students acquitted themselves well with second place standing, and after two years' possession had reluctantly to surrender the Lang Trophy to the Faculty of Social Science.

### **Awards and Honors**

Sister Marie, of the French Department, was awarded the decoration of *Chevalier des Palmes Académiques* by the French Government for her devotion to the advancement of French literature and language during her long teaching years in Canada.

Sister Frances Ryan, of the Sociology Department, received a Canada Council grant for doctoral studies at York University.

## **Brescia Lecture League**

The following speakers were heard in the 1969-70 series: Richard Needham of The Globe and Mail; Dr. Alice Vibert Douglas of Queen's University; Adrienne Clarkson of Toronto, and Captain Joseph Jeffery of London.

# **Faculty**

Brescia College lost one of its pioneer Faculty members and a former Dean when Sister Marie, Chairman of the French Department, died on May 20, 1970. She will be very much missed by faculty, students, and almunae. Another loss by death in late May was that of Mr. C. J. Monahan, Business Administrator.

# KING'S COLLEGE

Report of the Principal Dr. D.O. Carrigan

The King's College Development Program came closer to completion during the academic year 1969-1970. The student body increased by over 100%, twelve new faculty members were hired, new courses added, and the four-year undergraduate program leading to the Bachelor of Social Welfare Degree successfully launched. Facilities were expanded with the construction of a 200-student residence complex and a start made on construction of a new library.

The large increase in the student body includes the first fully co-educational class in the College's history. A total of over one-hundred female students registered at King's thus assuring a substantial change in student life at the College over the next few years. The accompanying increase in faculty enables the College to maintain a good student faculty ratio. The increase has also enabled King's to raise the faculty ratio to 70% Ph D's. The King's faculty is becoming progressively more active in research and publishing as indicated elsewhere in this report.

The most significant academic development was the actual beginning of the B.S.W. Program. This Program is offered on the King's College Campus exclusively but serves the entire University. This new Program has enabled the College and the University to take a place in the forefront of undergraduate social welfare education in Canada.

On the non-academic side, the new residence complex represents a pioneer development of its type. Each unit resembles a modified town house affording the students a less-institutional more home-like environment. By utilizing new planning and construction techniques, the project was constructed for less than half the normal cost of university residences, thus significantly reversing a trend to ever spiraling construction costs.

The dramatic development taking place at King's makes it one of the fastest growing units of the University. This growth has created a stability within the College, and has enabled it to play a much larger role in the over-all life of the University and the community in general. This is attested to by the increasing number of private citizens, and students from other units of the University, who are coming to King's for courses.

The gratitude of the College goes out to the many people who have assisted it in this expansion. The Federal Government made a generous development grant to the Social Welfare Program and underwrote the mortgage on the new residences. Members of the Board, under the Chairmanship of John Cronin, expended much time and effort in assisting with development. Once again, Dr. Carleton Williams and his administration afforded King's College their most generous assistance and encouragement.

# THE UNIVERSITY LIBRARIES

# Report of the Chief Librarian Professor J.J. Talman

As in the past this report for the year 1969-70 opens with the record of accessions. The figure for the past five years were:

<u>1969-70</u>	1968-69	1967-68	1966-67	1965-66
124,157	123,873	90,120	64,277	59,983

The accessions during the year brought the holdings of the Libraries to 848,853. The foregoing figure shows the total of items which the Dominion Bureau of Statistics describes as volumes of books, monograph series, periodical publications, printed government documents, technical reports and material of that nature.

Acquisitions of scholarly resources which do not fit the above categories were as follows:

Microform Government Documents		<b>57,</b> 397
Microform other:		
Regional Government documents section Business	733 18,150	
Corporation Reports Microfilm Education	2,000 75	
ERIC microfiche Engineering	33,172	
Bay Area, reels	4	54,134
Music Education Material		16,142
Records and Tapes		754
	Total	128,437

Since last year's report showed that holdings of this nature totalled 569,569, this figure has now increased to 697,996.

As was said last year it is impossible to equate this figure with numbers of volumes. The importance of resources of this type must be recognized as they make available to scholars many volumes of rare and otherwise inaccessible material.

Since manuscript material does not lend itself to statistical treatment, records of accessions in this field have always been included in the report of the Regional History section. I should be remiss, however, if I did not draw particular attention this year to the report of that section.

In no year since the organization of the Collection has there been such a flood of manuscript material. Somewhat comparable years were those in the 1930's when the late Professor Fred Landon, then Chief Librarian, acquired the Huron and Middlesex County records and the David Mills papers.

#### **Acquisitions**

Dr. Martha Bishop reported that a total of 60,183 new orders were placed or accessioned during the year. This number included 1,293 new subscriptions for periodicals and annuals, 173 continuation orders for monographic series, and 1,261 orders for back volumes of periodicals and annuals. We continued to build up our holdings in reference works and national bibliographies, both current and retrospective. Two Latin American collections were purchased, as well as a collection of Arctica.

In addition she commented:

"A vastly larger number of titles were searched. The number of order requests submitted by faculty members for books already catalogued or on order is becoming of concern. Many departments apparently make no effort to ascertain whether or not a title is already here. The time our searchers thus spend on needless work is lost as far as our productivity is concerned.

"The extreme lack of space makes itself felt more and more. Space for collections bought in bulk is now practically impossible to find. We are unable to place more blanket and approval orders, as we simply have no place to handle them.

"The computer ordering system as it exists now proves increasingly unsatisfactory for our purposes. The searching of two, three and four order files instead of one is all too time-consuming. Preparing the orders for the computer's dictates takes extra time. Sometimes orders mysteriously disappear from one print-out, then reappear a week or three months later. Such discoveries are made only by accident; probably the incidence of temporarily invisible orders is in reality higher than we realize. With the system as set up at present, works published in series cannot be handled as they should be, because of the 'limited field' instructions built into the computer system. The result of all this is time-consuming searches, unwanted duplicate purchases, and exasperated personnel, especially on the professional level."

#### Gifts

During the year under review the University Libraries received many gifts of books, journals, manuscript material and donations of money.

A gift of major importance which added to the General Library's book collection, to its Rare Books Division and to the Regional History Collection was the bequest received by the terms of the will of the late Dr. Fred Landon, Chief Librarian of the University 1923-47, Vice-President 1946-50, and Dean of Graduate Studies 1947-50. Dr. Landon bequeathed his books and his files of notes and correspondence to the University Libraries. Among the books were association items and rare publications in the fields of Canadian literature and Canadian and American history, including publications on the Great Lakes. His notes were gathered during a period of over sixty years research in Canadian and American history. In keeping with his generous attitude and helpfulness toward scholars, the library has filmed his notes so that they may be consulted freely without danger of loss. In addition to Canadian history subjects, the collection contains material on the Slavery question, Abraham Lincoln and the Great Lakes. Included was an extensive picture file of Great Lakes boats, probably the largest in any Canadian library.

Another major gift came from Mr. A.E. Shepherd, Q.C., Chairman of the Board of Governors who presented an autographed copy of the Report of the Royal Commission on the Atlantic Acceptance Corporation, with all the relative documents and exhibits. Mr. Shepherd was counsel for the Commission.

Among the individuals and organizations presenting books were:

Dr. Francis E. Brien, London, who on several occasions during the year contributed a number of beautifully illustrated works, mainly in the field of fine arts

The Ministry of Cultural Affairs of the Province of Quebec which continued its practice of presenting a collection of French-Canadian publications

Mr. Hugh Anson-Cartwright, Toronto

Mr. W. Harding, London

The Council of the City of London

Dr. F.H. Hitchins, History Department, U.W.O.

Mr. Edward Phelps, The Libraries, U.W.O.

Mr. Donald Herron, Ottawa

The Ontario Committee on the Healing Arts which provided a set of the briefs presented to that Royal Commission

Mrs. Sylvia A. Wernham, State College, Pa., who presented books and journals from the library of her late husband, Clifford C. Wernham, Arts '29

Professor Leonard G. Sbrocehi, McMaster University, Hamilton

Miss E.M. Sommerville, London

London Latvian Society (through Professor A. Dreimanis)

Mr. W.R. Franks, London

Kappa Alpha Theta, U.W.O. Chapter

Kent County Council

The Directors of the London Club

Mr. A. William Rowley

Mr. L.N. Johnson, London

The Corporation of the City, St. Catharines

Mr. George Smith, Sarnia

Mr. Wilfrid C. Krug, Windsor

Mr. F.A. Brockhaus, Stuttgart

Dr. H.O. Foucar, London

Dr. James C. Bonar, Business Archives Council of Canada, Montreal

Mr. R.H. Fitzgerald, Assessment Commissioner, London. These books included a copy of the 1923 Britain Report on London

His Excellency Aristide N. Pelavach, Greek Ambassador (through Mr. L.G. Lambracos, London)

The Board of Education, London

Dr. J.F. Hart, Computer Sciences Department, U.W.O.

Dr. Hamilton B. Timothy, who added eleven volumes of the novels of John Galt to the General Library's extensive Galt collection

Miss A. Savage, Montreal, whose gift of books and journals included seventeen volumes of the works of John Galt

Professor Leonid Ignatieff, Russian Dept. U.W.O., who upon his retirement presented a collection of books from his personal library

The Rev. R.B. Cumming, London

Professor G.H. Reavely, U.W.O.

The Spiritual Assembly of the Baha'is of London (through Professor J.M. Sayer)

Dr. James B. Sanders, French Department, U.W.O.

Theosophical Society in Canada

Geography Department, U.W.O.

Geology Department, U.W.O.

**Brock University Library** 

G.K. Hall & Co., Boston, Mass.

James F. Lincoln Arc Welding Foundation, Cleveland, Ohio

Mr. John W. Smith, London

Elgin County Public Library

President D.C. Williams, U.W.O.

Mrs. S.B. Baker, Montreal

Mr. John V. Howard, Burlington

Dr. V.W. Sim, Geography Department, U.W.O.

Dr. P. de Mayo, Chemistry Department, U.W.O.

Miss Catherine Healey, Windsor, who presented a set of the Chronicles of Canada in memory of her parents

Mr. Wesley F. Nunnamaker, St. Catharines

Dr. W.C. Howell, Chemistry Department, U.W.O.

The family of the late Robert Murray Tickton (U.W.O. graduate, 1966)

Princess Margrethe and Prince Henrik, of Denmark (through His Excellency Arne Bogh Andersen, Ambassador of Denmark)

Task Force on Labour Relations

Mr. William G. McKenzie, London

Mrs. Gordon McBurney, Wingham

Dr. Helen Battle, Department of Zoology, U.W.O.

Dr. Clara Thomas, Toronto

Dr. Rachel K. Haight, Ottawa

Dr. Eric Beecroft, Department of Political Science, U.W.O.

The Town of Wallaceburg

Mr. A.D. Angelov, London

Professor C.B. Dunham, Department of Computer Science, U.W.O.

Manuscript and other non book material for the Archives and Regional History Collections were received from:

Mrs. R.L. Allen

Mr. & Mrs. Hugh Malcolm, Ingersoll

Family of the late Mr. and Mrs. Fred A. Ball, St. Thomas

Mr. Edwin Carr, St. Marys

Judge W.W. Leach, Cayuga

Miss Hillary Hallpike, London

Mr. H.L. Ross, London

Professor Gordon F. Chess, U.W.O.

Dr. E.V. Buchanan, London

Miss Rose Duncan, Wyoming

Mr. Tom S. Parsons, Sarnia

Office of the Comptroller, U.W.O.

Material relative to the history of the University's constituency (the fourteen counties of Western Ontario) was considerably augmented by action taken by several municipal corporations and other public bodies. The municipalities listed below deposited Records including assessment rolls and Minute Books, and/or other papers prior to 1960 and in most cases gave permission for the filming of records in current use:

The Corporation of the Township of Plympton

The Corporation of the Township of Sombra

The Corporation of the Township of Enniskillen

The Corporation of the Township of Bosanquet

The Corporation of the Township of Dawn

The Corporation of the Village of Wyoming

The Corporation of the Village of Thedford

The Corporation of the Township of Euphemia

The Lambton Board of Education deposited its non current records

Chief Aylmer N. Plain and the Council of the Chippawa Nation at Sarnia loaned for microfilming the Minute Books of the Sarnia Band Council covering a period from 1899-1969

The Municipal Council of Elgin

Gifts of money were received from:

The Canada Council (second instalment of \$5,000 for American Literature)

Mr. John D. Hankinson, Brantford

Dr. F.C. Heagy, London

Professor and Mrs. Samuel A. Martin, London, in memory of Mr. C. Ian Farquhar

Mrs. Irene Sabine, London, in memory of Dr. Fred Landon

Mrs. A.E. Loudon, London, England, in memory of Dr. Fred Landon

Dr. Allen G. Bogue, Madison, Wisconsin, in memory of Dr. Fred Landon

Miss Lillian Benson

### Cataloguing

Miss Jean Elson, Head of the Cataloguing Department, operated under extreme difficulties. Not only was space inadequate but the difficulties were compounded by the distance between the Lawson Building and the Annex (a most unsatisfactory space at best) located on Dundas Street East. Parenthetically, it must be said that the same disabilities applied to acquisitions and accounting. Early in 1970 additional space for the repair unit was made available on Western Road, further adding to the miles separating various elements under Miss Elson's supervision.

During the year the entire public catalogue was microfilmed as insurance against loss or damage. In addition, equipment was purchased to provide for the microfilming of all cards produced for the main catalogue now amounting to 2,500 per week to keep the file up-to-date.

#### **Computer Applications**

Mr. Len Geddie who supervised the computer system reported:

This year has been a disappointment to the Systems Department. A great deal of difficulty was experienced in maintaining existing computerized operations.

All administrative departments on campus, including the Libraries, rely on the University's Systems and Data Processing Department for development and maintenance of computer operations. In the late summer of 1969 the demands made on this computer installation began to exceed its capacity and a serious squeeze on computer time developed. As a result, all development projects for the Libraries had to be dropped in favor of necessary maintenance for the existing applications. Problems were experienced until late December, 1969.

In January, 1970, development work began again. Computer Output Microfilm was studied as a means of supplying regular printouts from the computer-maintained order file and a COM System was tried out in April with limited success. Work began again on the three on-line terminals to the order file and on the circulation control project in the Natural Sciences Library after a delay of approximately half a year. These computer applications were out of the development stage at the end of June, 1970.

The major achievements of the past year have been in re-organization and consolidation of existing routines. These accomplishments, though necessary and desirable, are unfortunately not highly visible.

Mr. G.M. McCubbin, systems analyst for the library at McGill University, and several other library staff, spent a day at our library in March for the purpose of examining our automated ordering system.

#### Readers' Services

Mr. Clarke Leverette, Head of Readers' Services, reported as follows.

The stacks of the General Library were opened to all students in January, 1970. The resultant development of bibliographic interest created a need for a further extension of circulation and reference services to include Sundays, formerly a day limited to study in the library. Despite the better use of the library's resources, the actual circulation of books after January did not continue at the same rate as students could now be more discriminating in their choice of library material.

On April 15, 1970, a second basic change occurred. The loan period for undergraduates was increased to two weeks and graduates and members of the faculty were limited to a four-week borrowing period.

Circulation statistics for the past three years are:

		69/70	68/69	67/68
General		192,191	161,434	111,650
Middlesex		21,628	13,986	11,204
Talbot		27,200	23,545	18,769
University		38,081	35,332	31,514
Business		22,347	21,000	13,660
Education		32,860	38,390	27,500
Engineering		10,440	8,654	6,320
Health Sciences		30,991	29,278	21,880
Nursing		2,791	3,506	3,018
Stevenson		3,660	2,472	1,703
Law		6,886	7,039	5,225
Music		29,189	24,177	13,257
Natural Sciences		31,621	27,245	22,528
	Total	449,885	396,058	288,228

## **Interlibrary Loans**

General Library, including all divisional and professional libraries except Health Sciences

		1969-70	1968-69
Outgoing:	books photocopies	2,616 2,701	2,137 1,819
		5,317	3,956
Incoming:	books photocopies	1,827 1,964	1,751 2,226
		3,791	3,977
Health Sciences Library			
Outgoing:	books photocopies	335 1,665	375 1,050
		2,000	1,425
Incoming:	books photocopies	264 426	319 689
		690	1,008
Grand Totals			
Outgoing:	books photocopies	2,951 4,366	2,512 2,869
		7,317	5,381
Incoming:	books photocopies	2,091 2,390	2,070 2,915
		4,481	4,985

#### Notes on Divisional/Professional Libraries

Items of interest from reports of divisions and divisional/professional libraries follow:

## Althouse College of Education Library

Miss Sally McCrae reported that the continuing increase in enrolment for the winter-school program at the College during 1969-70 naturally resulted in larger circulation statistics than ever before, along with increased reference work and greater library activity in general. The addition in February of an assistant on circulation relieved the pressure to some degree. Sunday afternoon opening was introduced in January and response was very worthwhile.

In December the Althouse Graduate Studies Committee requested a formal survey of the library collection in terms of a breakdown of a number of volumes in the various curriculum disciplines. This survey revealed certain weaknesses but many strengths in a total book collection of over 33,000 (as of December 15) and journal holdings in excess of 750 subscriptions.

Probably the most significant acquisition to the library collection during the year was the purchase of the entire inventory of ERIC (Educational Resources Information Center of the United States Office of Education) documents on microfiche. This Document Reproduction Service is composed of several thousands of research projects and studies, along with a continuous acquisition of over 100 items per month. The extent of their function and use is not yet known, as the equipment for housing the collection is still on order, but it is expected they will prove a valuable tool for both research and practical methodology.

Audio-visual media have become a more and more significant aspect of the educational field and their acquisition is posing problems of both space and finance. The Althouse Library Committee is at present considering the prospect of recommending that a separate budgetary item be set up for these materials in future, distinct from the book allotment.

A laborious and major shifting of the books throughout the library in May and June served to emphasize the growing problem of space in every area. The Library Committee has devoted a considerable amount of time and thought to this matter during the past six months and has presented a formal recommendation to the Dean and Faculty that a new structure be considered for use in 1972. The Librarian is dubious that

said structure will materialize in that time, but the Committee's forethought in proposing such a recommendation is extremely gratifying, and indicates a determination which may produce surprising results.

In the meantime, a number of little-used items have already been put in storage, and a few additional shelves have been secured for the stack and periodical areas. "We are somewhat torn between delight and dismay at the increased rate with which the computer processed books are reaching our shelves, but would like to commend the Acquisitions and Cataloguing Departments for the past year's production of well over 7,000 volumes," Miss McCrae concluded.

## **Business Library**

Mr. John Hoover reported that in spite of the expansion of stack space in 1968-69 which brought the capacity of the library to 50,000 volumes, storage facilities are rapidly becoming filled. As there is little likelihood that additional stacking space will be added, increasing consideration will need to be given to weeding the collection before 1975, e.g. removal of old catalogued duplicates, back runs of periodicals (pre—1960) etc.

It is still the hope of the Librarian that suitable arrangements can be made for publication of a microfiche service covering the annual corporation reports of Canadian companies. In December 1968, as was reported last year, the Godfrey Memorial Library ceased publication of their microfiche service covering approximately 750 companies on account of a lack of subscribers. The comprehensive preservation of corporation reports is particularly important from the point of view of studies in business history.

In view of the rapid growth of the School's research program and the substantial increase in enrolment especially at the graduate levels, it is felt that the Business Library should add another professional librarian to its staff in 1971-72.

## **Engineering Library**

The fiscal year, 1969-70, according to Mrs. Gladys Osborn, proved to be the busiest year in the history of the Engineering Library. Operations were difficult to perform in the inadequate space. One bright note, however, was the beginning of construction in the fall of 1969 of the extension to the Engineering Science Building. This addition will incorporate approximately 5,400 square feet of library space. It is expected that the new space will be available in the fall of 1971.

The enrolment of both graduate and undergraduate students showed an increase over the previous year and five new members were added to the Engineering Faculty. The student exchange program under which students from Western spend a period at Laval University and French Speaking Canadians from Laval study at Western was carried out once again. This program starts in early May of each year. In addition, commencing May 1st, 1970, seven undergraduate students from Vietnam enrolled in a training program sponsored by the Federal Government to study and work with graduate students in Chemical Engineering.

Seventeen graduate students did research in the Master of Engineering Program in Environmental Engineering. The course is designed for those engaged in air and water pollution control and abatement activities.

Research was carried out in the newly developed Food Engineering Program. A considerable number of books and periodicals in "Food Science and Technology" were added to our stock to aid this group.

Visiting professors in the Civil Engineering Department of the Faculty of Engineering Science included Dr. Emery Balint from the School of Architecture and Building, University of New South Wales, Australia. Dr. Balint conducted a research program in the "Dynamic Properties of Prestressed Concrete Beams".

Dr. Arnold Verruijt from the Technical University of Delft, Holland, Ontario Visiting Professor in Hydrology, 1969-70, as guest of the Ontario Government, gave a graduate course in "Theory of Ground Water Movement" during his stay at the School of Engineering Science.

These programs increased the use of the library. Many guest borrowers from industrial firms in London were also served.

Because of the ever increasing flow of research material into the Engineering Library from universities, societies, laboratories, etc. it was recognized that classification and dissemination of up-to-date research material was essential to the growth of the Engineering Science Faculty. This material, at the present time, is uncatalogued and processed in the Engineering Library. It was felt, however, that research material should be classified according to subject matter to be of greatest use to the faculty. Consequently, a committee was appointed to consider a proposal submitted by Dean R.M. Dillon of the Faculty of Engineering Science,

recommending that this new function of classifying research material be introduced into the Engineering Library. The proposal was approved and steps were taken to put this new work into operation early in the next fiscal year.

#### **Government Documents**

The collection continued to grow at an accelerating rate. Acquisitions totalled 63,566 of which 57,397 were microforms. Another 18,150 microforms of a non-governmental nature were added to the Microforms Collection.

#### **Health Sciences Library**

Miss Anne Seheult reported that during the year the new Faculty of Dentistry of The University of Western Ontario received "approval" status from the Council on Education of the Canadian Dental Association. The accreditation team visited the library briefly during their survey of the school. The recommendations of the team with regard to the library are as follows: "Although the general appearance and layout of the Health Sciences Library appear efficient and well-organized, it was noted that no separate collection of Dental Journals is maintained. They are placed alphabetically with all other Health Science publications. While the team understands the philosophy of encouraging students to intermingle ideas, it is difficult for dental students to identify their own journals quickly and easily. We suggest that several members of the Dental School staff be asked to consult with the librarian on dental nomenclature and dental specifics in an attempt to separate the scientific sections of the library. The team detected enthusiasm on the part of the library staff regarding this idea and, as there is apparently no shortage of funds, it would appear that at least a Dental Index would be feasible within the near future." The above recommendations by the Canadian Dental Association are entirely in conflict with the philosophy of the Health Sciences Library. The idea presented in the report has not been followed up by the Faculty of Dentistry.

The Library Committee of the Health Sciences Library has approved the request of the College of Family Physicians of Canada that this library serve as the library for their College and that this project be supported by the College. The College is presently conducting a drive for funds to establish the support of this library. We understand that whether the drive for funds is successful or not, the project will be financially supported by the College.

On January 1 the H.A. & W.J. Stevenson Medical Library came officially under the ownership of Victoria Hospital. The University Library and therefore the Health Sciences Library continued to operate the library until June 30, 1970. At that point the operation of the library became the responsibility of Victoria Hospital.

The Faculty of Nursing requested that he Nursing Reading Room be entirely integrated with the main reading room of the Health Sciences Library. They wished as well to turn the area of the Nursing Reading Room into office space. The reading room was therefore closed at the end of June and a comparable amount of space in the Medical Sciences Building is being made into a reading room.

We were pleased to send to the new Medical Library at St. John's, Newfoundland, 718 duplicate volumes chosen from our collection by their librarian, Mrs. Huntley. These were all major titles in medical literature which had become duplicates when we received the Collip collection. In May we completed sending all the items from our most recent duplicate list submitted to the Medical Library Association Exchange. We sent 1,039 single issues of journals and two bound volumes from this list. We also requested and received many useful items from the Exchange during the year.

## Law Library

Dr. Margaret Banks reported that during the fiscal year 1969-70, 10,576 volumes were added to the Law Library as compared with 9,242 during the previous fiscal year. The Law Library's holdings now total 61,342.

She also noted a change in the pattern of acquisitions. In the past years the tendency has been for about half the acquisitions to come under the heading Law Reports, Statutes, Digests, etc. and for the remainder to divide more or less equally between Journals, Yearbooks, etc. and Treatises (i.e. textbooks, monographs, etc.) This year there has been a significant change in this pattern, the breakdown being as follows:

Law Reports, Statutes, Digests, etc.	2,885
Journals, Yearbooks, etc.	2,013
Treatises	5,678
Total	10,576

Dr. Banks believes the reason for this change is twofold. In the first place, the library now has most of what is needed and attainable in the fields of Anglo-American law reports, statutes and journals. Thus, new acquisitions in these areas are fewer in number than formerly. Secondly, the purchase of treatises has been greatly accelerated by participation in the Rothman green slip project whereby the library is kept up to date on a systematic basis about new and forthcoming legal publications. American, Canadian, British, and other Commonwealth publications are included in the listings.

Dr. Banks says:

"Although our acquisitions in the fields of law reports, statutes, and journals have been comparatively small in number this year, some of them are worthy of note. We acquired *La Revue Légale*, new series, 1895 to date, an important set which reports Quebec cases and for which we had been searching for some time. We already had the old series which covers the years 1867 to 1892. Newfoundland statutes, even as late as the 1950's are difficult to obtain; we were fortunate in being able to purchase a good run of volumes covering most of the period from 1919 to 1951. A reprint of volumes 1-12 of the *Labor Law Journal* (CCH, Chicago) became available, enabling us to complete this set to which we have subscribed for several years and for which there is considerable demand. The lack of the early volumes had caused some inconveninece in the past.

"Our holdings in international law were increased by the acquisition of two important treaty series and some foreign language periodicals. They are as follows:

Hertslet's Commercial Treaties, 31 v., 1827-1925.

Martens' Noveau Recueil Général de Traités, 2d ser. v. 1-35, 1875-1910.

Annuaire suisse de droit international, v. 8-24, 1951-67.

Archiv des Völkerrechts (West Germany) v. 1-13, 1948/49-1966/67.

Zeitschrift für auslandisches öffentliches Recht and Völkerrecht (West Germany), v. 1-28, 1929-68.

"While on holiday in Jamaica at Christmas, Mr. Edward Phelps of the General Library kindly secured for the Law Library some interesting volumes of Jamaican law. They include a good run of revised and sessional statutes, proclamations, and some legislative debates. It is especially interesting that Mr. Phelps obtained two copies of Stephens' Supreme Court Decisions, a set which was believed to be very scarce and which was reprinted some time ago by an American law book publisher. The two volume reprint sells for \$90.00; fortunately, we had not purchased it! The volumes obtained by Mr. Phelps were duplicates from the Library of the Supreme Court of Jamaica. In exchange for this material it has been suggested that we supply duplicates of Canadian law reports or journals to the newly established Jamaican branch of the Faculty of Law of the University of the West Indies. It is hoped that we will be able to do so in the near future."

Circulation totals for 1969-70 were 6,886, as compared with 7,039 during the previous year. Such statistics tell very little about the extent to which the library is used since the most frequently consulted books — law reports, statutes, digests and journals — do not circulate to students.

# Music Library

Mr. Larry Lewis reported that space for the operation of the music library did not increase this year. New staff appointments and the rapidly increasing size of the collection necessitated the relocation of furniture and the creation of two circulation outlets where there had previously been one.

During the year plans were approved and construction was begun on a temporary building which would provide the music library with 4,500 square feet of space in the fall of 1970.

The Library acquired many significant publications during the year: -

Bibliographie musicale française.

Documenta musicologica, 1. Reihe: Druckschriften-Faksimiles.

Fellowes, Edmund Horace, 1890-1951, ed. The English madrigalists.

Graveyard gems.

Haydn, Joseph, 1732-1809. Works.

Henley, William. Universal dictionary of violin and bow makers.

Hofmeisters Handbuch der Musikliteratur.

Jahresverzeichnis der deutschen Musikalien and Musikschriften.

Loewenberg, Alfred, 1902-1949. Annals of opera.

Music educators journal.

Musica sacra.

Neue Zeitschrift für Musik.

Porta, Costanzo, 1530 (ca.)-1601. Works.

S.I.M., revue musicale.

Vivaldi, Antonio, 1680(ca.)-1741. Works.

#### Rare Book Room

Mrs. Lucy Greene, Rare Book Librarian, devoted much time early in the year to drawing up policy decisions required by the reorganization of the handling of rare books. Some 620 volumes recently acquired were added to the Collection and approximately 3,500 transferred from the stacks to bring the total holdings in the Rare Book Collection to approximately 10,000. Many volumes still remain in the open stacks awaiting transfer as opportunity offers.

Addenda to the Milton Collection were purchased from G. William Stuart in January for \$26,000. This purchase was largely arranged by Dr. Paul Fleck, English Department, with special funds provided by the Senate. Included in this lot of 122 titles were:

[Lycidas.] Justa Edovardo King Naufrago . . . 1638, and Literae Nomine Senatus . . . Leipzig, 1690.

Other important works by Milton added later, from the same funds, included:

[Comus. Latin.] Comedia Joannis Miltoni. Paraphrastice Reddita A Gulielmo Hogaeo. Londini. Anno Domini 1698. (\$750.00 U.S.)

Of Prelatical Episcopacy . . . (\$1,500.00 U.S.)

Considerations Touching the Likeliest Means to remove Hirelings out of the Church . . . London, 1659 (\$1,825.00 U.S.)

With these additions this Milton Collection ranks fifth in stature.

Two exhibitions featured items in the Milton Collection:

Baroque Symposium, Althouse College, January.

Middlesex College, in conjunction with the lecture by Professor Louis L. Martz, Yale University, March.

An important collection of 17th and 18th century pamphlets and books, about 600 items, was purchased from Harold Mortlake, Antiquarian Bookdealer, London, England, in October, 1969. These volumes represented many years of personal collecting by Mr. Mortlake and were much sought after by other libraries.

### **Natural Sciences Library**

Mrs. Jean Vitai reported that the year was primarily a quiet one, with increasing interest being taken in the library by both faculty and students; the staff found themselves more and more called upon to aid in the search for both books and information. Foremost in this respect are the third year Ecology undergraduates who are required to learn the basics of literature searching and control.

With the addition of 8,087 volumes during the year the total bookstock now stands at just over 60,000 volumes.

Some significant additions during the year were:

Cumulative index to NASA Technical briefs, 1963-1967 (N68-25221)

Flora of the U.S.S.R. (all published volumes of the English edition)

Mathematicheskii Sbornik, V.1, 1866-91, 1959 (Microfiche edition)

Nuclear science abstracts, V.I, 1948-8, 1954

U.S. National Agricultural Library. Dictionary Catalog, 1862-1965. [72] vols. 1967-[1970].

# **Regional History Collection**

Mrs. Aileen DeSomogyi reported that the past year has been one of intense activity. There were many manuscript additions, some 40 accessions in all, ranging from single items to collections such as that of the famous experimental physicist, Elizabeth Rebecca Laird, the records of the St. Mary's and Western Ontario Railway (7 boxes), the Hyman Tannery (10 boxes and 21 packages), the Atlantic Acceptance Corporation (7 boxes), and the extensive collections of the papers and photographs of the late Dr. Fred Landon.

Thanks to the indefatigable efforts of the County Records Librarian, Mr. Edward Phelps, there has been a greatly accelerated flow of records from municipal and court jurisdictions. Notable among these are

such records as council minutes and assessment and collectors' rolls of the townships of Dawn, Bosanquet, Enniskillen, Sarnia, Sombra, Thedford and Yarmouth; of the town of Petrolia; and of the villages of Arkona and Wyoming. For some months now this municipal material has been pouring into Regional at an unprecedented rate and, there being no shelf space available, we are forced to store it as best we may on the floor and under tables.

During the past year 652 readers signed the book in Regional, the decrease from last year's figure of 897 being attributable to lack of reading space. There has been a corresponding decrease in the number of books and manuscripts consulted -2,300 as against 2,817. On the other hand, however, the volume of written queries, many of them involving several hours' research, has shown a steady increase.

An additional responsibility of the staff is the checking of the format of graduate theses before they are bound. This service, which entails a considerable amount of work and expenditure of time, reaches peaks twice a year when the regular work of some members of the staff must be dropped.

The following publications were produced during the year:

Western Ontario History Nugget No. 36, The Richard Airey-Henry C.R. Becher correspondence. Western Ontario Historical Notes, vol. XXV, No. 2.

Additionally, the Regional Staff mailed over 600 copies each of Edward Phelps's *Bibliography of Sarnia and Lambton County* (UWO Library Bulletin No. 8); of *Fred Landon, 1880-1969,* an off-print from *Ontario History;* and of Dr. Fred H. Armstrong's *Handbook of Upper Canadian Chronology and Territorial Legislation,* which came out in the previous year.

In response to popular demand we are also reprinting 65 issues of the *Notes* and 10 issues of the *Nuggets*, the production of which entails the collation of several thousand pages.

London Microfilming Limited completed the following projects prepared by the staff during the year:

- (1) London Newspapers (miscellaneous). 1834-1969.
- (2) The Ingersoll Chronicle, 1868-1919.
- (3) The Watford-Alvinston papers, 1875-1927.
- (4) 10 drawers of Fred Landon's Historical Notes.

In addition, Edward Phelps is preparing the following for filming: Canada Gazette, 1841-1866; Haldimand County Council Letter Books and Minutes, 1850-1940; and the unique series of Haldimand County Law Reports, 1944-1960, lent by the County of Haldimand Law Association.

#### Staff Activities

On the 29th of October, 1969, the founding meeting of the UWO Librarians' Association was held and the following Executive elected: Mr. Len Geddie, President, Dr. Margaret Banks, Vice-President, Miss Jean Law, Secretary, and Mr. Peter Mullen, Treasurer. The aims of the Association as expressed in its Constitution are: (a) to support and improve library services to the university, (b) to encourage the growth of scholarship and professional competence among the university librarians, and (c) to promote the welfare of the university librarians. Membership is open to all those holding professional appointments in the libraries of The University of Western Ontario.

Activities of individual members of the staff were as follows:

Miss Kathleen Beretta was granted leave of absence to attend the UWO School of Library and Information Science for three months in 1969 and graduated with the degree of M.L.S. in 1970.

Miss Bogdana Brajsa and Mrs. Jean Vitai, Science Librarian, attended the O.A.C.U.L. Symposium on librarians and academic status in Toronto in December, and in June Mrs. Vitai attended the meeting of the American Association of Library Schools, conducted by the UWO School of Library and Information Science.

Mrs. Aileen DeSomogyi, Head of the Regional Collection, attended the World Conference on Records held at Salt Lake City from 5-8 August, 1969. In connection with her M.L.S. course at the School of Library and Information Science she spent a week in Washington on a field-trip from 16-21 March, 1970, and also attended an I.S.A.D. Tutorial on Library Automation at Harvard from 31 May-1 June. She also attended one session of the A.A.L.S. meeting at SLIS from 26-27 June. Mrs. DeSomogyi continues as Secretary of the London Genealogical Society.

Mr. Len Geddie attended the following conferences: University of Toronto School of Library Science. Conference on MARC II, Toronto, in September; I.P.L.O. Fall Workshop, entitled "Focus on the Individual", Geneva Park, Ontario, in November; I.P.L.O. Spring Workshop, entitled "Focus on the Organization", at Geneva Park, Ontario, in April; National Conference on Cataloguing Standards, National Library, Ottawa, in May and CLA/CACUL Workshop on Automation, Hamilton, in June. He also spent the week of 6-12 April, 1970, visiting the libraries at the University of British Columbia, Simon Fraser University, Victoria University, and the University of Alberta, in order to study their library systems applications and methods.

Mrs. Lucy Greene, Rare Book Librarian, visited the Bibliotheque Nationale, Paris, Musée Conde, Chantilly and the Bodleian Library, Oxford, in July. At the same time she attended an auction at Sothebys and visited rare book dealers and agents with whom the libraries do business. She also attended the O.L.A. meeting on faculty status for librarians in Toronto in October, the Bibliographical Society of Canada annual meeting in Hamilton in June and ACRL — Rare Book Section — Pre-conference meeting in Detroit also held in June.

In March, 1970, the Librarian-in-Charge of the Business Library, Mr. John Hoover, successfully completed the requirements for a Master of Arts degree in History from this University. He also attended the sessions of the A.A.L.S.

Miss Lois Knepflar, who is in charge of Law Library acquisitions, was recently awarded a scholarship by the American Association of Law Libraries to study for the M.L.S. degree at the University of Toronto. The scholarship was presented at the A.A.L.L. annual meeting in Washington. Miss Knepflar represented the UWO Law Library at that convention. She has resigned from the Law Library staff and left at the end of August to return to the University of Toronto Library School where she obtained her B.L.S. in 1966.

Mr. Larry Lewis, Music Librarian, attended the Music Librarian's Workshop, Eastman School of Music, University of Rochester, Rochester, New York, July 14-18, 1969.

Mr. Lewis and Misses Cheryl Osborn and Linda Standing attended the spring meeting of the Music Library Association, New York State Chapter at Syracuse, New York in May, 1970; made a formal visit to the library of the University of Waterloo, Ontario, having interviews with Mr. William Watson and Mr. Paul Wiens; and attended the fall meeting of the Music Library Association, New York State Chapter at Syracuse, New York, on November 1, 1969. On the way to that meeting an informal visit was made to the Buffalo and Erie County Public Library, Buffalo, New York.

In addition, Miss Cheryl Osborn, Mrs. Graeme Parkinson and Mr. Larry Lewis attended the Forum on Copyright presented by the Regional and Public Libraries Division of the Ontario Library Association at Toronto on November 29, 1969; Miss Cheryl Osborn attended the 25th Annual Conference of the Canadian Library Association at Hamilton, Ontario, June 20-25, 1970. She was elected a councillor for the Canadian Music Library Association Executive; and Miss Linda Standing visited the School of Music, University of Toronto in order to determine the identity of a music manuscript in the U.W.O. Barnett Collection. While in Toronto she visited the CBC Music Library and its Librarian, Mr. Helmut Kallman.

Mrs. Louise Lin attended a National Library of Medicine orientation program on the MEDLARS system given at Wayne State University in September. She also attended the colloquium in Toronto in October given by the ACMC Associate Committee on Medical School Libraries.

Mr. John Macpherson, Deputy Chief Librarian, served on the following committees: Ontario Library Association Committee on the Wright Commission (member), Ontario Library Association 1971 Conference Local Arrangements Committee (member), and Fanshawe College of Applied Arts and Technology Library Technician Sub-Committee (chairman). Mr. Macpherson attended the conferences of, among other professional organizations, Ontario Library Association and the Canadian Library Association.

Miss Mary Murray attended a seminar on acquisitions and service sponsored by O.L.A. and the Book Publishers' Association of Canada in September. She also attended the colloquium held in Toronto in October by the ACMC Associate Committee on Medical School Libraries. Miss Murray attended an SDI seminar at the National Science Library in April in Ottawa. She is taking the Medical Library Association course on Medical Librarianship at Emory University from June 15 to July 24, 1970.

Mr. Edward Phelps and Mrs. Aileen DeSomogyi attended the annual seminar of the Ontario Genealogical Society which was held at Huron College in May, 1970. Mr. Phelps gave a talk on his work and on the contents of the Regional Collection. As Librarian-in-Charge of the County Records Programme, Mr. Phelps is responsible for the collection and the shipping to the Regional Room of non-current municipal and court records; his energy in this capacity is tireless. He attended the course on Archival Principles and Administration at Carleton University from 29 June to 31 July.

In October Miss Anne Seheult attended the annual meeting of the Association of Canadian Medical Colleges Associate Committee on medical libraries held in Toronto and served as secretary of that meeting. She also attended the annual meeting of the Medical Library Association in Louisville in October and took a continuing education course there. The 1970 annual meeting of the Medical Library Association was held in New Orleans from May 17 to 22 and she attended that meeting, taking a different continuing education course. In June she attended the CASLIS-SLA meeting held in Hamilton in conjunction with the CLA annual meeting.

Dr. James Talman or Mr. John Macpherson attended every meeting during the year of the Ontario Council of University Librarians. Dr. Talman continued his chairmanship of the Microfilm Committee of the Canadian Library Association for the sixteenth year, and attended all meetings of the Historic Sites and Monuments Board of Canada.

In May, 1970, the annual meeting of the Canadian Association of Law Libraries was held at The University of Western Ontario. The local arrangements committee consisted of Miss Diane Teeple and Dr. Margaret Banks. At the request of the President of the Association Dr. Margaret Banks acted as parliamentarian at this conference. As the present CALL Constitution has proved unsatisfactory in certain respects, Dr. Banks agreed to be chairman of a committee on constitutional revision; the work of this committee is just beginning.

### Conclusion

Because this my last report as Chief Librarian it may not be inappropriate to devote a few lines to the development of the University Libraries since 1947, the year in which I took office. One immediately thinks of acquisitions, budgets, buildings and staff. In 1947 there were 172,474 volumes in the collections. The figures for today are shown in the early pages of this report. A major change in the 23 years has been the proliferation in non-book and photographically reproduced material. Another development which would have pleased the late Professor Fred Landon has been the great expansion in the Regional History Collection, a distinctive feature of the U.W.O. Library System.

The total budget for the fiscal year 1947-48 amounted to \$39,720.00, whereas the expenditures for 1969-70 were approximately \$3,175,000.00, not including expenditures from special funds. The declining value of the dollar, reflected in higher costs of books and increased salaries, makes the comparison less meaningful, but even allowing for inflation the increase has been spectacular.

The development of physical plant and the establishment of divisional and professional libraries has been noteworthy. In 1947 the total library operation was to be found in the Lawson and Medical Libraries. A small reading room, housing a few journals, was maintained by a part-time staff member at the Institute of Public Health. Not only have several new libraries and reading rooms been opened but several of these have by now been enlarged. The following table gives the record:

1947-48	Science Reading Room opened in Natural Sciences Building.
1951	Reading Room opened in School of Business Administration.
1954	North wing of General Library completed.
1957	New Reading Room opened in School of Business Administration.
1958-59	Biological and Geological Sciences Reading Room opened.
	New Physics and Chemistry Reading Room opened in Natural Sciences Building.
1959-60	Law Reading Room opened on July 1, 1959, in Engineering Building.
	Department of Engineering Reading Room opened.
	Medway Hall Reading Room opened.
1960-61	Middlesex College Reading Room and School of Nursing Reading Room opened.
	Law Library opened in Niblett Building.
1961-62	South addition to General Library completed.
	New Library for the School of Business Administration completed.
	Two open-access Reading Rooms opened in the General Library.
1962-63	Reading Room opened at College of Music.
	Stevenson Medical Library opened.
1963-64	Sydenham Hall Reading Room opened.
1964-65	Medical Library moved from South Street to Health Sciences Centre.
1965-66	Education Library began operating.
1303 00	Natural Sciences Library opened.
	Hatara Goronous Elbrary oponous.

1966-67
 1968-69
 University College and Talbot College Reading Rooms opened.
 Addition to Law Library opened. Addition to Health Sciences Library opened.
 Addition to School of Business Administration Library opened.

The planning for these buildings required much consultation with the users of the library and the staff of the Department of Buildings and Grounds. I received nothing but the fullest cooperation from all those involved.

In the end, people form the most important part of the system and the libraries of the University have benefitted from the loyal and enthusiastic support of many individuals. In 1947 there were 16 employees; this year saw the figure rise to approximately 311, full-time.

Of the original group only Miss Lillian Benson and Miss Jean Elson remained until the end of my term. During much of the time, however, I was greatly assisted by Miss Kate Gillespie and Miss Catherine Campbell. The list would become inordinately long should I attempt to record my debt to the many who came and went. Suffice it to say that I consider the present divisional and professional library heads equal to the best in the nation, and I thank them and their staffs for their assistance during recent years. I owe a particular debt to Mr. John Macpherson, Deputy Chief Librarian, since 1965, for his support during the past 11 years and to Miss Lilian Gunraj, my last secretary, who aided me immeasurably during the years we worked together.

The death of Mr. W.H. Lane on May 23, 1970 was a severe blow. During the four years he served as Administrative Officer he proved himself to be almost indispensable.

In conclusion, I must thank the University officers to whom I reported for their unfailing support.

# **DEPARTMENT OF ATHLETICS**

Report of the Director Mr. John P. Metras

# Men's Intercollegiate Sports

The Department of Athletics at The University of Western Ontario competed in twenty men's sports at the Intercollegiate level. Most sports in the Ontario-Quebec Athletic Association of twelve universities are divided into two sections. Playing in the Western Section, Mustang representatives compete against Windsor, Guelph, McMaster, Waterloo and Toronto. The Eastern Section is made up Ottawa, Carleton, Queen's, McGill, Montreal and Laval. Playoffs between Divisions determine the overall O-Q.A.A. championships.

In 1969-70 Western athletes won either division or overall titles in tennis, rowing, swimming, basketball, skiing, track and field and soccer. Western acted as hosts for the O-Q.A.A. wrestling championships in February.

A new sport, that of water polo, was added to the list at Western this year. Although played for years at the Intramural level, this was the first time it had been played extramurally.

In addition, having Alumni Hall as a home court for the basketball Mustangs met with great favor and, although not large enough to accommodate the numbers of fans wishing to attend, provided an excellent showcase for the hoopsters as well as relieving the press on Thames Hall facilities.

### **Awards Banquet**

The Dr. Claude Brown Memorial Trophy, awarded for the "greatest contribution to athletics", was given to Robert La Rose, a two-sport star from Toronto. Bob earned two first colors in football and four in basketball. He graduated this year in Honors Physical Education.

La Rose, Klaus Meier and Jim Henshall were recipients of the coveted Purple Blankets for five or more first colors in two or more sports.

Twenty-seven Bronze "W" plaques were awarded to winners of three first colors. Special Bronze "W" awards went to John Metras on his retirement as football coach, and to retiring Vice-President Ross Willis, in recognition of his many years of service to athletics at Western.

The Toronto and District Football Association Trophy was presented to Soccer Captain John Dawson for the Western Division Championship.

Le Trophée de L'Université de Montréal for the Alpine Skiing Championship was received on behalf of the ski team by Peter McGibbon. For each of the above trophies, this was the first time they had ever been won by Western.

Another league award came to Western in the form of the E.C. Lebel Plaque which was presented to Bruce Dempster as the most valuable player in the O-Q.A.A. basketball tournament.

Two new trophies were received by the Athletic Association - the Duncan A. McLarty Trophy presented by Claud Turner for the most valuable soccer team member, and the John Metras Sportsmanship Award, presented by the Purple Spur Society for a member of the football team.

# Most Valuable Player Awards

John Metras Trophy (Basketball)

George Oliphant Trophy (Wrestling)

Duncan McLarty Trophy (Soccer)

George McCullagh Trophy (Football)

John Metras Sportsmanship Award (Football)

Peter Fowler Trophy (Swimming)

— Bruce Dempster

— Ole Sorensen

— Bill Nepotiuk

— Larry Bird

— John Stirling

— Ken Fowler

F. Murray McNie Trophy (Track & Field)

Circle "K" Trophy (Hockey)

Robert McChesney Trophy (Hockey)

— Chris Bolter

— Dick Oudekerk

— (Rick Smith

(Ray Lisk

### **Tean Awards**

Rowing — O-Q.A.A. Championship, E.C.I.R.A. Championship

Soccer — Toronto and District Football Association Trophy

Skiing – Le Trophée de L'Université de Montréal

Hockey — Cleveland Cup

# O-Q.A.A. - C.I.A.U. Individual Champions

Track & Field — Dave McGuffin — High Jump

Chris Bolter1500 m. also CIAU

– Max Morden– Triple Jump

Don Anderson
 CIAU Junior Men's Pole Vault

Tennis Doubles — Lyall McCurdy and Gord Clark

Swimming — Craig Gauld — 200 yd 1m. (new record) also CIAU

Ken Fowler
 200 breaststroke (tied record) also CIAU

− Doug Darling− 1 m. diving

Doug Leighcombined Alpine winner

# **All-Star Recognition**

Football – Ottavio Colosimo – linebacker

Bob La Rose
 Gairey Richardson
 defensive back
 defensive back

Hockey – Dick Oudekerk – defense

Basketball — Bruce Dempster — guard — also All Canadian Team

# Men's Intercollegiate Sports - 1969-70

Golf Coach — Dutch Decker

Western's five-man team placed third in the Ontario-Quebec Athletic Associ-

ation championship tournament at Hamilton.

Tennis Coach — Dutch Decker

The five-man team representing Western placed second in the Western

Division team tournament. Lyall McCurdy and Gord Clark won the O-Q.A.A.

overall doubles championship undefeated.

Football Coach — John Metras

The football Mustangs placed fourth in the O-Q.A.A. league with a 3 and 4

record. Overall, the season showed 4 wins, 1 tie, 4 losses.

Soccer Coach — Stan Hill

The team won the Western division title with a record of 5 wins, one loss and

two ties. Queen's defeated the Mustangs 3-0 in the league playoff in J.W. Little

Memorial Stadium.

Rugger Coach – Dr. Andrew Wilson

Competing in the Western Division of the O-Q.A.A., the rugger team had a

record of 5 losses and 3 ties, placing them fourth in the league.

Track & Field

Coach — Bob Vigars

The Western thinclads finished fourth in the O-Q.A.A. Championship at Hamilton and third among 13 schools competing in Winnipeg in the age-class Canadian Indoor Championship. Chris Bolter won the 1500 m. event and Don Anderson won the junior pole vault.

Harrier

Coach -

Chris Bolter ran in this event as an individual entry and finished fifth.

Rowing

Coach - Dr. Phil Fitz-James

They repeated as O-Q.A.A. champions in the regatta at St. Catharines, more than doubling the point total of their nearest competitors.

Water Polo

Coach — John Richardson

This sport was added to the program this year for the first time. In Western Division round-robin competition, they had a record of 3 and 1, losing only to eventual O-Q.A.A. champions from McMaster.

Volleyball

Coach — Dutch Decker

The team finished in fourth place with a record of 9 wins and 15 losses in the three round-robin tournaments.

Swimming

Coach — Bob Eynon

The mermen took third place in the O.Q.A.A. meet at Hamilton. Craig Gauld took both O-Q.A.A. and C.I.A.U. titles in the 200 yd, 1m. as did Ken Fowler in the 200 yd. breaststroke. Doug Darling won the one metre diving.

Wrestling

Coach — Peter Michienzi

Western hosted the O-Q.A.A. championships and placed second to the University of Waterloo in a thrilling race which was not decided until the very last match.

Basketball

Coach — Jerry Gonser

Western won the Western Division O-Q.A.A. title with an 8 and 2 record, defeated Carleton in the semi-final and then lost in the championship final to McMaster.

Badminton

Coach — Dutch Decker

Western placed fourth in the Western Division play at Waterloo.

Curling

Coach - Dutch Decker

The Western rink placed fifth with a 1-4 record in the O-Q.A.A. Western

Division play at Guelph.

Skiing

Western skiiers won the O-Q.A.A. combined Alpine championship in the meet held in Quebec.

Hockey

Coach — Ron Watson

Western's league record of 5 wins, 6 losses and 4 ties gave them third place in the Western Division. Their season's record was 9 wins, 8 losses and 4 ties. They won the Cleveland Cup Christmas tournament.

Fencing

Coach — Bob Foxcroft

A five man team represented Western in the Western Division tournament at McMaster.

Squash

Coach - Jack Fairs

In the O-Q.A.A. championship at McGill, Western's team ended the three days of play in a tie for second place with McGill, each having a 17-8 record.

**Gymnastics** 

Coach — Bob Vigars

For the first time as a team Western was represented by five men at the O-Q.A.A. meet held in Ottawa, and placed fourth out of ten schools. Mike McKay placed 7th in the all-round competition and won a trophy for 2nd place in parallel bars.

# Physical Recreation and Intramural Sports — Men

# July 1, 1969 - June 30, 1970

Over 1200 men competed in Intramural Sports during the period covered by this report. The program offered a wide variety of sporting events totalling twenty-five. Hockey and Basketball continued to be the most popular team sports involving 375 and 225 players respectively. Among the individual sports, golf, bowling, badminton and table tennis each drew large numbers of participants.

The program gave eighty-five students valuable experience in matters of organization and administration. They acted as Unit Organizers, Sport Supervisors and Officials. The success of the year's activities is largely a result of their dedicated hard work and leadership.

Final results of the intramural competition are shown below. The victory by the Faculty of Medical Science was a result of the Medical students demonstrating a good deal of prowess in many sports and having a high number of participants in ALL sports.

# 1969-70 Intramural Championship Results

	Points
Medical Science	312
Physical and Health Education	2491/2
Social Science	240
Huron College	229
Engineering Science	173
Natural Science	1421/2
Business	139½
King's College	128
Law	109
Arts	37

During the hours that the facilities were made available for informal recreational activity, most were used to the fullest extent, with people having to be turned away. This was particularly true of the squash and handball courts and the gymnasia. Spencer Memorial Pool, the tennis courts and skating rink each could have accommodated more poeple during the less popular hours but each of these facilities was overcrowded during peak demand times. For example, lifeguards' records show that there was a total of 19,100 visits for recreational swimming between October 1st., 1969 and May 31st., 1970. Usage varied from 25 people for a morning period to 308 for an evening period for Faculty, Staff and Alumni.

Every effort shall be made in the coming year to use facilities to maximum efficiency in order to enable students to learn, practice and participate in recreational sports activities.

# UNIVERSITY ATHLETIC ASSOCIATION

# Report of the President Dr. A. Mikalachki

The athletic activities at Western fall into two major categories — intercollegiate athletics and intramural-recreational athletics. The objectives of the Athletic Directorate complement the two major activities. A major objective is to provide an opportunity for competitive athletics at a level that involves the best athletes of certain universities in Ontario and Quebec. Another Directorate objective is to provide an opportunity for intramural-recreational athletic activity for the greatest number of students within The University of Western Ontario. These two objectives come into conflict only at the point where finances and facilities are to be allocated for the various activities.

The Directorate has approved a policy stating that by 1975, 60 percent of the athletic budget will be allocated to intercollegiate activities and 40 percent to intramural-recreational activities. The approved budget for 1970-1971 has 68 percent of the funds allocated to intercollegiate activity and 32 percent of the funds to intramural activity.

With the above objectives as a background, the remainder of the report will focus on the state of affairs and problems within the areas of athletic facilities, personnel, budgeting, and organization.

## **FACILITIES**

The present facilities available for intramural-recreational and intercollegiate activity are inadequate for the programs demanded by the growing Western student body. The lack of sufficient facilities not only holds for the regular academic year, but also for the summer term when participants from numerous summer programs inundate the rather sparse facilities available. In the year 1969-1970 the Co-ordinating Committee on athletics, chaired by Mr. J.P. Metras, developed and presented a plan for additional facilities to the appropriate Administrative and Senate committees on campus. There appears to be some relief coming in the near future in the University Community Centre which will house additional intramural-recreational activities. It is proposed that the University Community Centre house a swimming pool, gymnasium, six squash courts, two handball courts and an individual exercise room. These facilities are to be used primarily for intramural-recreational programs which are to be developed and administered by the Athletic Department. Three additional tennis courts and the lighting of two playing fields add to the facilities approved for athletics in the present year. Another facility sorely needed on this campus is a winter complex which would provide a place for skating, ice hockey, and curling programs. The possibility of a winter complex at Western is still being discussed.

### PERSONNEL

In the year 1969-1970 a new Director of Physical Recreation and Intramural Athletics, Mr. Bob Zeisner, was hired. This was a most significant move in terms of developing an intramural-recreational program. With a full-time individual responsible for intramural-recreational activities, we expect significant improvements in the program offered to students in the future. Program improvement was already in evidence during the summer of the 1969-1970 year in which the Extension School had an extensive intramural-recreational program which was limited only by the lack of facilities available at Western.

This year was the end of a successful era at Western for Mrs. E. Berzins and Mr. J.P. Metras. Mrs. Berzins, the prime architect of women's athletics at Western, resigned as Director of Women's Athletics; her contribution to women's athletics was recognized by the Directorate through the awarding of our major honor, a white blanket, at the Women's Athletic Banquet. Mr. Metras, after an illustrious career as coach of the Mustang football team, resigned to assume full-time duties as Director of Athletics;

his contribution to football at Western was recognized by the Directorate through the awarding of a bronze "W" at the Men's Intercollegiate Athletic Banquet. The Directorate members are most appreciative of the sincere, skilful and significant contributions that both Mrs. Berzins and Mr. Metras have made to athletics at Western.

### BUDGETING

The budgeting process was somewhat rationalized in the 1969-1970 year. A Directorate finance committee reviewed the budget developed by Mr. Metras and his Coordinating Committee. Mr. Metras and the Coordinating Committee worked on budgets that were developed by the various coaches and intramural recreational representatives. Consequently, we have reached the point where the grass roots, in terms of coaches and intramural-recreational representatives, are making a contribution to the development of the athletics budget. This is an important step in that the Directorate feels that budget decisions must take into account the views of those dealing with athletic activities on a daily basis.

There is one severe constraint on the budgetary process and that is the source of funds that is used for athletics. It is becoming progressively more difficult to finance the mature athletic program Western provides primarily from a \$20 student athletic fee. Except for the cost of maintaining buildings, the funds for the athletic program come exclusively from the student body and monies received at the gate or from extension activities. There is ample data to suggest that Western is one of the few Ontario universities that finances its athletics in this way. Consequently, this year the Directorate has endeavored to obtain funds from other sources such as university financing. There are many problems involved in the issue of financing, and the issue is still at the discussion stage.

### **ORGANIZATION**

This year the Directorate has taken on the responsibility of policy-making and budget approval and has left the administration of the program to Mr. Metras and his Coordinating Committee. The benefits of this form of organization are that Mr. Metras, as Director of Athletics, can administer the program on a daily basis and the Directorate, as a policy-making body, can oversee that the program generally fits the objectives and strategy that they have developed.

The organization of athletics at Western is frequently very difficult to follow. The existing athletic constitution is not congruent with common practice and consequently it does not always serve as the best guide. Organizational difficulties arise in such issues as hiring, where Mr. Metras and Dr.D.C. Williams, the President of the University, have the responsibility of hiring coaches and administrative personnel within the Department of Athletics, whereas the Athletic Directorate has the responsibility of allocating funds by which those who are hired would be paid. Given this situation, it is unclear as to whether one body can hire and individual and the other body refuse to pay him an appropriate salary or conversely, the Athletic Directorate could be willing to pay an individual which Mr. Metras and Dr. Williams might not be willing to hire. This is just one of many dilemmas when comparing common practice to the athletic constitution.

The problems of organization are being addressed by a Senate Committee which has been formed under the chairmanship of Dean W.J.Dunn. This committee will not only review the organizational problems of Athletics at Western but also the question of athletics' relationship to physical education.

In closing, I would like to express my gratitude to the members of the Athletic Directorate who attended numerous meetings and contributed to the development of an excellent athletic program at Western. I should like to name the members who are leaving the Directorate and in so doing thank them for their contribution in this past year and in previous years. Those leaving the Directorate this year are Mrs. E. Berzins, Mr. John Forsyth, Mr. Carr Hatch, Miss Sue Humphries, Mr. A.E.D. MacKenzie, Dr. D.O. McKay, Mr. Rod Pullen, and Dr. K.P. Strickland.

Finally, I should like to single out Mr. R.B. Willis who, after numerous years of significant contribution to Western, has retired from the University. His contribution to athletics was symbolically recognized by the Directorate through the awarding of a bronze "W" at the Men's Intercollegiate Awards Banquet.

# OFFICE OF THE REGISTRAR

# Report of the Registrar Professor J.K. Watson

Registration statistics, analysed and compared under many categories, were published in early fall, 1970. The accompanying table may best be described as an abbreviation, or summarization, of total registrations for 1969-70.

Registration statistics may only be compiled after the fact, i.e., after expiration of the period to be reviewed, and for university planning purposes and for identifying academic trends, they must be put in comparative perspectives with other years. A time lag of one year is thus inevitable for current departmental planning but longer term planning should not necessarily be disrupted, barring the occurrence of an unexpected or extraordinary situation.

Such a situation may have occurred in 1969-70 with the Senate's decision to revise graduation requirements for three-year undergraduate programs. The extent to which the lifting of specific course requirements for graduation may have altered course registration patterns in 1970-71 cannot be fully assessed until next year.

The accompanying table records intramural undergraduate course registrations for the two years, 1967-68 and 1969-70, in subjects offered by the three Faculties of Arts, Science, and Social Science.

In evaluating, or attempting to identify trends, several factors should be borne in mind:

- (a) "Course Registrations" is an umbrella term to describe total course loads of Departments.
- (b) Course registrations in the three Faculties increased by 25%. Increase in student body in the three Faculties was 36%. The discrepancy could be due to the fact that many First and Second Year students dropped a course in late winter of 1970, following revision of graduation requirements from 16 courses to 15, and some Departments have reduced the number of required courses in their Honors Programs.
- (c) Special factors affected registration in some subjects:
  - (i) Admission requirements of a language other than English was lifted for 1967/68 enrolment.
  - (ii) Graduation requirement for 1968/69 was broadened so that any two "20" level courses in Mathematics, English, or another language, were sufficient.
  - (iii) Some departments encourage students planning Honors or concentrated programs in their subjects to take a course in Mathematics.
  - (iv) Some subjects are developing, and registrations in their courses would necessarily decrease registrations in other subjects.

# **COURSE REGISTRATIONS**

	1967-68	1969-70	Change
Faculty of Arts			
Classics	375	292	- 83
English	4103	4318	+215
Fine Art	61	292	+231
French	2585	2246	-339
German	401	567	+166
Philosophy	1042	1463	+421
Spanish & Italian	574	479	- 95
Russian	106	219	+103
	9247	9876	
	3247	3070	
Faculty of Science			
Astronomy	169	187	+ 18
Botany	1130	1566	+436
Chemistry	1932	2317	+385
Computer Science	551	888	+337
Geology	441	500	+ 59
Geophysics	43	143	+100
Mathematics	1301	2275	+974
Applied Mathematics	692	1041	+349
Physics	1331	1976	+645
Zoology	1971	2105	+134
Biochemistry	192	224	+ 32
Biophysics	24	73	+ 49
Physiology	165	296	+131
Anatomy	62	140	+ 78
Bacteriology	77	76	- 1
	10081	13807	
Faculty of Social Science			
Economics	1973	2567	+594
Geography	743	1622	+879
History	1660	1719	+ 59
Journalism	360	558	+198
Physical & Health Education	926	1100	+174
Politics	817	1380	+563
Psychology	4510	4497	- 13
Secretarial Science	436	399	- 37
Sociology	1128	2411	+1283
	12553	16253	
	12000	10200	

# DEPARTMENT OF THE DEAN OF MEN

Report of the Dean Mr. T.L. Hoskin

This report covers student personnel services provided by the Department of the Dean of Men during the academic year 1969-70. It is important to note that some are for both men and women students but they are administered by the Dean of Men and his staff. Student financial aid, placement, off-campus housing and a reception and counselling service for foreign students are, in fact, sub-departments in this category. Personal counselling, fraternities and men's residences are areas which concern men only and are more closely identified with the Office of the Dean of Men and the Assistant Dean of Men, Mr. A.E.D. MacKenzie.

The increasing demands for the services provided in this Department in recent years are clearly shown by the following enrolment figures of full-time undergraduate and graduate males in the constituent University:

	1963-64	1966-67	1969-70
Men	3230	4883	6645
Men & Women	4867	7167	10019

Personal problems are not confined to a particular age group, and students are no exception to this. When students with problems, academic or personal, are identified early, they are more likely to achieve academically at a level commensurate with their innate ability. With this in mind, the staff in this Department endeavours to maintain effective liaison with campus and community resources. The Dean of Men wishes to thank especially the University Health Service, Academic Counselling Office, Registrar, and academic departments for their cooperation in making and receiving student referrals.

# Foreign Students

During the academic year 1969-70, 723 foreign students, of whom 416 were graduates, enrolled at this University. The countries with the largest representation were as follows:

United States	134
Hong Kong	128
United Kingdom	105
West Indies	71
India	57
Taiwan	35

The Overseas Students Reception Committee, under the Chairmanship of Miss Pam Duncan, a third year honors science student, did an outstanding job in meeting the newly arrived overseas students, assisting them in finding suitable accommodation and orienting them to the campus. Miss Duncan and her committee met in excess of 130 overseas students, of whom approximately 125 were interviewed by Mr. A.E.D. MacKenzie, Assistant Dean of Men and Foreign Student Advisor, during their first week on campus.

A formal orientation program for overseas students was introduced on this campus for the first time in the fall of 1969 with the cooperation of the International Students Club, the Overseas Student Reception Committee and the Foreign Student Advisor. In addition to tours of the campus and social events, panel discussions were held on Education in Canada and Canada and its Customs. We would be remiss if we did not thank at this time Professors D.G. Simpson and H.A. Stevenson of Althouse College and Mr. Adrian Fraser, President of the International Students Club for their assistance in this program.

Another new venture for the University was the "International Week" held on campus from November 2 - 8, 1969, sponsored by the International Students Club in cooperation with the University Students Council and the Society of Graduate Students. Under the capable Chairmanship of Mr. Singh Raina, the committee started the week with a flag raising ceremony in front of Alumni Hall and continued with panel discussions featuring civic and government leaders; an international fashion show; and an international variety night. With the cooperation of Mr. George Bullas of Food Services, foods of different countries were served at the cafeteria during the week.

Several other enjoyable social events were held during the year, highlighted by the International Dance. Miss Rosa Rojas of Panama, a student at Brescia College, was crowned "Miss International" for the academic year 1969/70.

We would like to express our appreciation to the Overseas Student Reception Committee, the University Women's Club and the local committee of Friendly Relations with Overseas Students and Trainees for their valuable assistance throughout the year. In addition, the cooperation of Mrs. Pat Smith, Secretary of Men's Residences, and Mr. Neil Campbell, Bursar of Westminster College, in providing, often at short notice, both temporary and permanent accommodation for overseas students is very much appreciated by this office.

### Student Financial Aid

The Director of Student Financial Aid, Mr. E.J. McLeod, reports that 11,968 awards for a total of \$6,418,770 were received by full-time graduate and undergraduate students of this University in 1969-70. Table I shows an analysis of these by course, year, and type of award. By far the largest source of student aid funds is the Province of Ontario Student Awards Program, which assisted 6,201 of our students through loans, grants, scholarships and fellowships amounting to a total of \$5,385,492.

The total of Canada Student Loans issued to Western students exceeded two and a half million dollars, having increased by approximately one half million. Mr. McLeod's figure includes Canada Student Loans from other provinces. These amounted to \$70,882 and were awarded to 86 students from provinces other than Ontario.

It is interesting to note here that although Canada Student Loans to our students increased by about \$500,000, OSAP grant payments totalling \$1,870.075 exceeded those of 1968-69 by only \$12,635.

The following new bursaries were established during the past year:

- (1) Miss Helen Marion Cole, R.N., Memorial Bursary One in the amount of \$100 for a student in the penultimate year of the Nursing Program.
- (2) Fruehauf Trailer Company of Canada Ltd. Bursary Two at \$150 each for students in the final year of the Physical Education Program.
- (3) Kitchener Waterloo Press Club Award One in the amount of \$100 for a Journalism student.
- (4) London Symphony Association Bursary One in the amount of \$200 for a Music Student.
- (5) Waterloo Music Company Bursary Five at \$100 each for Music students.
- (6) Mary Gillespie Memorial Bursary This bursary was formerly known as the National Secretaries Association Bursary. It is available, in the amount of \$100, to a student in a senior year of the Secretarial Program.

The Wellington County Bursaries were the only ones discontinued in 1969-70. There were five of \$100 each available to students from Wellington County.

At the end of the academic year, reports were sent to all donors giving the names, courses and addresses of their award-holders. Letters of thanks from students were also sent. This year 72% of bursary recipients wrote "thank you" letters, an increase of 10% over last year.

The number of loans from endowed sources in the UWO Combined Loan Fund was limited generally to students in their final year. This was done to shorten the period of loans outstanding. The Board of Governors agreed to the following changes in the regulations for the UWO Combined Loan Fund:

- (1) The loans will bear interest at 6% immediately when the student graduates or withdraws from the University and this rate will increase to 9% when a loan becomes overdue.
- (2) The requirement for assignment of a Life Insurance Policy has been deleted.
- (3) The only signature of a University Officer required on the contract is that of the Director of Student Financial Aid.

	University Administered Bursaries & G	ty stered s & Grants	Scholarships and Fellowships		Firms, Govt etc. Making Selections	Govt.Depts. Iking Own ons	Ontario St Awards (G Payments)	Student (Grant ts)	Ontario Awards Student	Student (Canada Loans)	University Loans	rsity	Grand Totals	otals
Number in Course and Year	Number	Value \$	Number	Value \$	Number	Value \$	Number	Value \$	Number	Value \$	Number	Value \$	Number of Awards	Total Assistance
6,450 Arts Totals	210	29,225	296	66,075	126	68,611	2,6531,	,067,155	2,913 1	,482,454	33	7,620	6,231	2,721,140
757 Science I 623 Science II 376 Science III	22 34 21	3,650 4,950 3,050	106	17,693	10	2,228 7,478 6,894	288 230 142	114,320 86,585 47,630	311 255 156	162,295 130,590 77,345	20	75 50 400	733 544 342	300,261 232,205 137,921
	06	13,700	148	76,	37	21,934	721	271,265	791	405,645	9	1,025	1,793	744,329
177 Engineering I 126 Engineering II 64 Engineering III 75 Engineering IV	011	750 1,550 1,050 600	8874	1,550 600 2,800 2,800	2487	992 2,622 1,800 4,938	77 61 25 25	30,830 22,760 9,750 8,695	85 64 30 32	42,340 32,140 16,220 15,885	- 1 1 m	200	179 143 74 75	76,662 59,672 31,620 34,018
442 Engineering Totals	30	3,950	22	7,750	16	10,352	188	72,035	211	106,585	4	1,300	471	201,972
148 Law I 105 Law II 59 Law III	16 7 8	1,950 800 1,200	വവന	300 1,350 600	1	553 500 —	77 72 35	37,150 31,785 21,205	83 78 36	45,210 43,120 20,610	- <sub>-</sub> 9	400	181 163 90	85,563 77,555 45,315
312 Law Totals	31	3,950	13	2,250	2	1,053	184	90,140	197	108,940	7	2,100	434	208,433
Nursing Nursing Nursing	1 2 5 1	200 600 150	m   1 2	41101	1 3 37	10 50 5,03 6,15	19 21 10 10	8 / 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20 22 111 111	0 - 24	1111	1111	43 46 29 51	19,2 20,2 14,8 55,7
78 Nursing Totals	ω	950	2	1,650	32	51,791	09	23,445	64	32,270	1	l	169	110,106
42 Dentistry I 30 Dentistry II 9 Dentistry III 7 Dentistry IV	4 C C F	550 300 400 100	2241	500 750 350 100	2 3	3,395 1,223 3,000 3,600	28 20 9 5	15,330 12,615 4,835 2,635	26 24 9 5	14,440 13,885 5,400 2,705	-1111	1111	63 49 26	34,215 28,773 13,985 9,140
88 Dentistry Totals	10	1,350	6	1,700	7	11,218	62	35,415	64	36,430	1	1	152	86,113
<ul> <li>*Medicine II M.R.</li> <li>Medicine III ) incl.</li> <li>Medicine IV ) M.R.</li> <li>Medicine V</li> <li>Medicine V</li> </ul>	20 17 10	3,450 3,025 1,500 950	10 26 - 13	2,170 8,275 1,575	- 12 7 4	5,733 10,792 9,945 2,910	445 38 56 62	1,705 22,665 19,965 35,685 61,200	48 40 59 63	2,420 26,985 23,330 34,550 39,215	1 - 2 2	- 400 750 575	10 128 134 151	4,125 61,003 65,787 82,430 106,425
355 Medicine Totals	54	8,925	49	12,020	28	29,380	206	141,220	215	126,500	2	1,725	557	319,770
652 Althouse	-	100	658	328,700	-	254	185	58,835	286	156,395	9	1,165	1,137	545,449
10,381 Totals Undergrads.	434	62,150	1,200	450,905	249	194,593	4,259 1,	,759,510	4,7412	,455,219	61	14,935	10,944	4,937,312
379 M.B.A.	4	550	46	896'89	5	3,478	9/	40,105	133	88,138	19	6,200	283	207,439
,203 Other Grads.	7	1,825	303	563,874	182	554,015	108	70,460	135	82,640	9	1,205	741	1,274,019
,582 Totals Grads.	11	2,375	349	632,842	187	557,493	184	110,565	268	170,778	25	7,405	1,024	1,481,458
11,963 Grand Totals	445	64,525	1,549 1	,083,747	436	752,086	4,443 1,	870,078,	5,009 2	2,625,997	98	22,340	11,968	6,418,770

Financial aid to students continues to grow as an effective and vital part of Western's student services. The Director has stated that many worthy students could not have attended this University without the help they received through the Financial Aid Office.

# Placement and Off-Campus Housing

These two student services are located in one office to provide the most effective use of staff throughout the entire academic year. Although both services are required in each month of the year, the peak period for housing is June to the end of September and for placement it is October to May.

#### **Placement**

The scheduled placement program was conducted in the following three phases with some overlapping between each of them:

Engineering and Science — November and December
Arts, Social Sciences, Law, etc. — January and February
Summer employment — November to May

In the first two phases 157 recruiters requested on-campus publicity and facilities for interviewing students wanting permanent or summer employment. Most of these recruiters were interested in graduating students but in the third phase the program was concerned mostly with undergraduates. During the year the Placement Office also endeavored to assist students who for special reasons wished to work part-time during the academic year.

Because the general economy seemed to be slowing down, it was anticipated that there would be a reduction in the number of recruiting firms and that there would be fewer job opportunities. As it happened, in fact, the number of employers visiting in the first phase showed a slight increase over the previous year and there appeared to be no reduction in their recruiting activity, except for Government agencies. Although several firms declined to recruit, the ranks were filled by fresh participants and this phase was really more active than in 1968-69, particularly because of increased student participation.

The second phase showed a substantial reduction in the number of recruiting employers and a general slowing of demand for Arts and Social Sciences students. However, it is understood that the situation at UWO was reasonably good by comparison with other universities as regards these graduates.

Salary offers were from five to ten per cent higher than in 1968-69 and there was little mention of the "hold the line" attitude of the previous year. It appeared that many employers were exercising greater selectivity than formerly.

Particularly during the first phase there was a noticeable increase in student activity, as though they sensed a declining job market and were determined to make the most of their chances. A total of 2,741 student interviews with Business, Industry and the Public Service Commission were scheduled by the Placement Office during the year. In addition, a total of 150 graduating students wrote the PSC examinations for Foreign Service Officer and Administrative Trainee. These examinations were written on campus and supervised by the Placement Officer.

The Secondary School Teacher Placement Program was conducted with effective liaison between Althouse College of Education and the Placement Office with preliminary interviewing of Althouse graduates being conducted in Placement Office facilities. The Dean of ACE is desirous that the Placement Office should assume this responsibility and this can be done, provided that the program can be organized in a manner similar to the normal placement program and that interview room space can be made available.

A survey of 1969 summer employment was conducted on campus during registration using a standardized questionnaire provided by the Department of Manpower as a part of its investigation into the supply and demand of summer jobs for University students. The results revealed the following:

- (a) 96 per cent of our full-time students desiring employment found jobs. Of the remaining 4 per cent, 2.7% were freshmen entering university for the first time.
- (b) The average duration of employment was 12.2 weeks.
- (c) 52 per cent of those employed earned more than \$750.00.

Figures obtained subsequently from the Department of Manpower and Immigration showed that the national average of university and college students obtaining employment was 93%.

The Committee on Student Summer Employment, established a year earlier, decided to meet again this year in October 1969 to review the results of the survey and in February 1970 to develop procedures for promoting summer jobs for students. The London Chamber of Commerce and the Canada Manpower Centre provided generous assistance to the Committee in its efforts to promote summer jobs for students in the London area.

# **Off-Campus Housing**

The completion of the new Glenmore Residences in time for occupation in September made available additional residence accommodation for 1207 single students and 399 married students' apartments. While an increased enrolment of 1500 students was anticipated, it was foreseen that this new residence accommodation would remove pressure from off-campus housing and this proved to be the case. The following table compares activity with the two previous years, figures being taken at the end of the housing season (end of first week in October):

	1969	1968	1967
Students registered	2074	3369	2581
Housing units listed	1776	2039	1569
Units rented	1027	1298	1058
Units surplus	748	722	525

In interpreting the above figures, the number of students registered (2074) is not a true measure of activity, since many students do not bother to register and it was not possible to provide supervision to ensure that this was done. A more accurate gauge is the number of units rented (1027) and this reflects a decrease of 271 units from the previous year. The surplus of housing was larger and the 748 units represented theoretical housing for almost 2000 students on the basis of two and one-half beds per unit listed.

The housing service functioned smoothly throughout the entire season and at no time did the supply of accommodation fall below 640 listings. By September 13th student demand for housing had fallen off considerably and there was little activity thereafter. Acceptance of new listings was discontinued on September 22nd.

The distribution of all housing received was as follows:

Zone	Boundaries	Percent
C (Central)	Hutton SR, Hwy 22, Adelaide St., Oxford St.	44.4
M (Middle)	Hyde Park SR, 6th Conc., Highbury, Thames River.	31.8
P (Peripheral)	Beyond M Zone	23.8

Of housing available, 72.5% of the C Zone listings were rented, 55% of M Zone, and 34.4% of P Zone.

During the winter months a new student housing brochure was prepared and printed and this was designed to provide information on both residence accommodation and off-campus housing. This brochure has replaced the former off-campus housing leaflet and is mailed to all students who forward enquiries to the Off-Campus Housing Office. The brochure is particularly useful in satisfying out-of-town enquiries, since it provides a complete housing picture and assists students in making their decisions on accommodation.

### Residences

The completion of the Glenmore Residences during the summer of 1969 provided an additional 900 beds for men, 300 beds for women and 399 apartments for married students.

Originally it was planned that this accommodation would become available in two phases — approximately half in the summer of 1968 and the balance in the summer of 1969. A long strike delayed construction with the result that no part of Glenmore was available in 1968-69 and the entire complex was presented to the University in July 1969. Because of the great size of the residence complex, some difficulty was found in filling all the rooms and apartments in the first year of operation. Present indications suggest that the entire Glenmore complex will be filled throughout the coming 1970-71 academic year.

The following were associated with Dr. W. Cameron Henry, Warden of Men's Residences, during the year.

# **Medway Hall**

Proctor: Dr. Patrick W. Whippey, B.Sc., Ph.D.

Dons: Mr. James A. Erskine, B.E.Sc., M.B.A.

Dr. Romas Mitalas, M.A., Ph.D. Mr. David Cruickshank, Law II.

Also associated with the residence were the following distinguished members of faculty who served as Fellows of Medway Hall:

P.A. Angeles Associate Professor

B.A., M.A., Ph.D. Department of Philosophy

D.R. Bidinosti Associate Professor

B.Sc., M.Sc., Ph.D. Department of Chemistry

J.H. Blackwell Professor and Head

B.Sc., M.Sc., Ph.D. Department of Applied Mathematics

R.W. Packer Professor

B.A., M.A., F.R.G.S. Department of Geography

E.G. Pleva Professor

B.A., M.A., Ph.D. Department of Geography

G.S. Rose Associate Professor B.Sc., Ph.D. Physics Department

R.J. Rossiter Vice-President (Academic) and Provost

D.Phil., D.M.

J.A.F. Stevenson Professor and Chairman

B.A., M.A., M.D., C.M., Department of Physiology, and Dean of Graduate Studies

A.M. Urquhart Assistant Professor
O.S.A., A.R.C.A., B.F.A. Department of Fine Art

### Honorary Residence Fellow

Brigadier the Honorable Milton Fowler Gregg

V.C., C.B.E., M.C., E.D. Warden of Medway Hall

### Sydenham Hall

Proctor: Professor George M. Thomson,

B.A., LL.B., LL.M.

Dons: Mr. John A. Sholdice, B.A.

Mr. A. Ben Lorriman, B.A. Mr. Dennis M. Walker, B.A.

Also associated with the residence were the following distinguished members of faculty who served as Fellows of Sydenham Hall.

P.A. Forsyth Professor

B.A., M.A., Ph.D., F.R.S.C. Department of Physics

J. Havelka Professor and Head

M.A., Ph.D., M.Sc. Department of Psychology

L. Ignatieff Professor

B.A., M.A., Ph.D. Department of Russian Studies

A.H. Johnson Senior Professor

B.A., M.A., Ph.D., F.R.S.C. Department of Philosophy

A. Mikalachki Associate Professor

M.B.A., Ph.D. School of Business Administration

R.G.E. Murray Professor and Head

B.A., M.A., M.D., C.M., Department of Bacteriology &

F.R.S.C. Immunology

H.C. Palmer

Associate Professor

B.Sc., Ph.D.

Department of Geophysics

J.A. Rendall

Associate Professor

B.A., LL.B., LL.M.

Faculty of Law

J.G. Rowe

Dean of Faculty of Arts

A.B., B.D., M.A., Ph.D.

W.A. Thompson

Associate Dean

A.B., M.B.A., LL.D.

School of Business Administration

W.H. Wehlau

Professor and Head

A.B., Ph.D.

Department of Astronomy

# Glenmore Residences - Saugeen Hall

Proctor:

Dr. T.B. (Max) Ong, M.D., M.Sc.

Dons:

Mr. William S. Lockington, B.A. Mr. John Pook, B.A., S.T.B. Mr. Edward J. Weber, B.A., M.A.

Mr. Jack S. Restivo, B.A. Mr. Richard W. Butler, B.A. Mr. Charles A. Labarge, B.A.

Mr. Sergio Spisani, B.A.

Dr. Vladimir (Walter) Yakovishin, M.D.

Mr. Lawrence A. Bertuzzi, B.Sc.

Also associated with the residence were the following distinguished members of faculty who served as Fellows of Saugeen Hall:

T.J. Casaubon, B.A.

Professor and Assistant Dean

Althouse College

T.J. Collins,

Assistant Professor

Department of English

A.G. Davenport

B.A., M.A., Ph.D.

Professor

M.A., M.A.Sc., Ph.D., P.Eng. Engineering Science

M. Leenders

Associate Professor

B.Sc., M.B.A., D.B.A.

School of Business Administration

A. Porter, M.Sc., Ph.D.

Academic Commissioner

H.B. Stewart

Professor and Head

M.D., Ph.D.

Department of Biochemistry

The administrative details involved with the use of the residences during the summer were looked after by Mr. R.A. Virtue, Business Manager of Residences, and his capable staff. During the 1970 summer there were 437 summer students and 2852 persons in special groups accommodated in the residences.

# **Fraternities**

During the academic year 1969/70 Western witnessed the closing of one fraternity and the granting of colony status to a new one. After 24 years, Beta Sigma Rho was forced to close its doors. Delta Kappa Epsilon, a highly respected International Fraternity was granted permission to form a colony on this campus beginning September 1970.

The fraternities at the University of Western Ontario continue their outstanding record of scholarship achievement. The fraternity average was once again well above the All Men's average for the Constituent University. Alpha Kappa Kappa for the third year in a row won the Northern Life Trophy for the best record of chapter scholarship for the fraternities at Western, and Sigma Chi was a close second. Contrary to public thinking, the fraternities at Western continue to flourish. The eight fraternities had a total membership of 338 men, 81 of whom lived in Chapter houses.

During the past year, the fraternities participated in many community projects such as providing Christmas parties for orphans and entertainment for senior citizens.

# DEPARTMENT OF THE DEAN OF WOMEN

Report of the Dean Dr. Leola E. Neal

Although the registration figures are given in detail in the Registrar's report, it is of interest to summarize the data for women. Of the 11,963 full-time intramural students, 4,340 or 36.28% were women. Of these, 3,722 were registered in the Constituent University and 618 in the Affiliated Colleges, Brescia, King's and Huron. Of the 3,722 full-time women students, 3,420 were undergraduates and 302 graduates. They were enrolled in the Faculties and Schools as follows:

	Undergraduate		Gr	aduate	
	1969-70	1968-69		1969-70	1968-69
Faculty of Arts	918	851		55	34
Faculty of Music	125	115		_	1
Faculty of Social Science	1,261	1,068		53	37
Faculty of Science	463	347		39	34
School of Business Administration	5	3		1	-
Faculty of Engineering Science	3	3		3	2
Faculty of Law	15	13		-	-
*Faculty of Medicine	82	74		38	33
Faculty of Nursing	177	158		14	10
School of Library and Information Science	-	-		99	29
Faculty of Dentistry	4	4		_	_
**Pre-Business	-	17		-	_
Unclassified	18	30		_	_
Althouse College of Education	349	202		_	-
TOTAL	3,420	2,885		302	180

<sup>\*</sup> Includes Medical Rehabilitation

It is all too obvious that women students are registering in every Faculty and School. As well they have been increasing in numbers significantly over the past decade. The percentage increase of full-time undergraduate women in the Constituent University has been of the following order:

	Women	% Increase	% Increase (accumulated)
1969-70	3420	18.5	359.2
1968-69	2885	22.3	203.1
1967-68	2359	2.3	147.8
1966-67	2307	21.1	142.3
1965-66	1905	20.6	100.0
1964-65	1580	9.3	66.0
1963-64	1445	16.9	51.8
1962-63	1236	10.9	29.8
1961-62	1115	17.1	17.1
1960-61	952		

<sup>\*\*</sup> Pre-Business is a discontinued course which terminated at the end of the academic year 1968-69.

In addition to the full-time students, there were 215 women enrolled as part-time intramural students; 156 undergraduates and 59 graduates.

It was mentioned previously that 618 of the women were registered in Affiliated Colleges. This represents 48.85% of all such students (1,265) and is of particular importance because many of these students are registered for two or three courses in the Constituent University

### STUDENT ACTIVITIES

As in the past, many women students have been active in campus affairs. A number of them have served effectively on the councils and the executives of various clubs. Others have spent countless hours in the "performing arts", publications, and athletic activities and found the experiences for the most part relaxing and rewarding.

One group, namely the Undergraduate Women's Organization, deserves special mention. This group planned and organized social events which were designed to help first year students meet one another and learn about Western. Among the events were the Freshette meeting and coffee hour, the Fashion Show and the very successful Co-Ed Ball. This group also provided a \$100.00 award for a woman student requiring financial aid.

The three Greek-letter organizations and the Pan-Hellenic Council had a busy year. In Pan-Hellenic a great deal of time was spent reviewing Rushing Procedures and planning for the future. As a result of comprehensive study, the rushing practices will be changed for 1970-71; deferred pledging will be discontinued and freshmen will be rushed, pledged and initiated in the first year. In a large and growing University it seems difficult to publicize the real role and advantages of fraternal organizations. Membership in sororities on this campus remains static. This is surprising because in large multiversities one would suppose students want to be identified with small groups.

# THE RESIDENCES

The housing of students is of major concern in this department and it was gratifying to have the Glenmore Residences completed and ready for occupancy in September. The unit for single women, named Maitland Hall, provides accommodation for 306 students. With existing residence halls, Spencer Hall (86) and Delaware Hall (452), there is residence accommodation for 844 women students; 19.44% of the full-time intramural women or 36.34% of full-time intramural out-of-town women. Slightly more women, in effect, will be living in residence halls because of student projects (sororities and Roxburghe College) and the United Church-sponsored Westminster College.

Following the tradition in Delaware Hall, of naming houses in residence for women who had made a significant contribution to Western, the three houses in the new residence, Maitland Hall, were named Allison, Battle and Strang. The three women so-honored, Dr. Helen M.B. Allison, Dr. Helen I. Battle and the late Dr. Margaret Strang (Savage), are all Western graduates.

The number of applications for residence accommodation increased from 2,330 to 2,370; 570 (538) from upperclass and 1,800 (1,792) from freshettes. Priority was given to undergraduates. A word or two is in order about residence applications. Applications represent people, not simply names with numbers on a computer list. University registration policies seem to make it virtually impossible to state definitively and at an early date how residence applications will be processed. This situation is confusing to many students and their parents and frustrating to those responsible for placing students in residences. This is a period of rapid expansion complicated by change and innovation and there will be problems, some of which no one can anticipate. One expects this, and one can be tolerant and understanding. However, long-range planning and team work is required if the administrative machinery is to be effective.

Delaware Hall is a busy place both during the academic year and the summer. In the winter session 453 were in residence; 297 freshettes, 156 upperclass. One student was domiciled in a guest room. Most of the students came from Ontario but 7 were from other parts of Canada, 7 from the Commonwealth countries, 7 from the United States of America and 2 from other foreign countries. The academic record was very good; 9.89% on the Dean's Honors List and only 2.2% failed the year's work.

At Spencer Hall there were 86 students in residence; 76 freshettes and 10 upperclass. Eighty-five of these students came from Ontario, and one from Quebec. The academic record was satisfactory; 1.12% were on the Dean's Honors List and 1.12% failed the year's work.

At Maitland Hall 306 students were in residence; 177 freshettes, 129 upperclass. Most of the students came from Ontario (284) but 12 were from other parts of Canada, and 10 from outside of Canada. The academic record was 7.5% on the Dean's Honors List and .98% failed the year's work.

In the period May to September there were Special Groups and Summer School students at Delaware Hall. Although a few students stayed at Delaware Hall during the entire summer there were 172 who stayed for a month or more. At Delaware Hall there were 12 special groups. They varied considerably in size and number of days in residence. They were as follows:

Name of Group	Date in Residence	No. Attending
Consumers' Association of Canada	May 6 - 8	62
Mathematical Association of America	May 9 - 10	24
Conference re Coronary Heart Disease		
(American College of Cardiology)	May 21 - 24	60
U.W.O. Business Conference	May 29 - 31	216
Canadian Conference on Foundations		
of Education	June 4 - 6	30
Nursing Executives' Seminar	June 8 - 20	35
University Career Planning Association	June 11 - 13	96
Council of Association of University		
Student Personnel Services	June 15 - 18	194
The Canadian Institute for Organization		
Management	June 15 - 21	81
NATO Advanced Study Institute on		
"Earthquake Displacement Fields	•	
and the Rotation of the Earth"	June 22 - 30	75
New Techniques for Modern Language	August 10 - 15	8
A.O.T.S. Men's Clubs		-
(Biennial Convention United Church)	August 22 - 24	233

The coordination and assignment of special groups was the responsibility of the Business Manager of Residences, Mr. R.A. Virtue. We acknowledge his contribution and that of his staff.

It seems wise to emphasize again this year that it was a period of soul-searching. The aims and policies of residence halls were constantly under review. The Special Committee appointed by the Senate presented a report on Spencer Hall, Delaware Hall, Maitland Hall and Sydenham Hall. This report was passed by Senate and a Special Committee has been appointed to implement the Report. It should be mentioned that the report contained a recommendation that Spencer Hall become a Co-ed Residence. This would mean the loss of 40 beds for women. There is a shortage of residential accommodation for women and I anticipate the shortage could become critical in the near future. I hope the Committee will consider ways and means of compensating the women for this loss.

### RESIGNATION

Dr. Helen M.B. Allison retired on June 30. She was appointed July 1, 1966 as the first Warden of Delaware Hall and served very effectively in this position. During the past year, she acted as Warden of Women's Residences and assisted in the organizational planning of Maitland Hall. I wish to express my gratitude and that of the Women's Residences Advisory Committee to Dr. Allison.

### **PERSONAL NOTES**

I should like in this report to express my thanks to Vice President R.B. Willis for his unique contribution to this University and, in particular, to thank him for his cooperation and advice over a period of many years. He has been a member of the Women's Residences Advisory Committee since its inception.

It is with great regret that I record the sudden death of Miss Mary Gillespie in June. Miss Gillespie served as secretary of the Women's Residences Advisory Committee for many years and was a very valuable member of the Committee. Our sincere sympathy is expressed to Miss Kate Gillespie and members of her family.

### COUNSELLING

It is the same story every year. A great deal of my time was devoted to personal counselling. Students came to discuss their many and varied problems. It was often necessary to refer students to others, namely the Faculty Deans, the Physicians and Counsellors in the University Health Service, the Registrar, the Director of Financial Aid and the Director of Placement and Off-Campus Housing. Without the cooperation of many people, problems would not have been resolved to the student's satisfaction. The cooperation of all who helped in any way is recognized and appreciated.

### **RESIDENCES STAFF**

Name of Residence	Proctor	Dons	House Seniors
Spencer Hall	Sherry Bowyer	Linda Duncan Christine Johanson	Maureen Logan Michele McGinn
Delaware Hall	Dr. Helen Allison (Warden of Women's Residences)	Carol Colthart Nancy Doughty Louise McKillop Christine Runstedtler Margaret Sedgewick	Peggy Colthart Ruth Gorwill Frances Kerr Heather McKeand Donna Millen Sandra Norris Margaret Paul
Maitland Hall	Cathie McFadden	Margaret Allen Joan Anderson Susanne Pearce	Marjorie Hare Audrey Howe Pat Rupar Kay Somerville Laura Spears Gwen Young

NOTE: All the above appointments were sessional and terminated on June 30, 1970.

# UNIVERSITY HEALTH SERVICE

# Report of the University Physician Dr. Richard J. Bowen

Increase in the population of the university community has brought about a consequent rise in the patient load of the Health Service. The clinic hours have not been changed and the student requirements have been adequately met.

Double physician coverage was instituted for the morning hours and four afternoon periods were also covered by two physicians.

### **GENERAL**

#### **Graduate Students**

More graduate students were reached and the feeling is entertained that this group of the university family is accepting the services available.

## **Physical Examinations**

The pre-registration medical examination is becoming even more valuable. It is felt that the examination of transfer students is imperative. With this procedure, personnel and group screening is obtained, with considerable benefit to the student and protection to the community as a whole.

It is again mentioned that review of these examinations makes it possible to follow up conditions needing care and finalization.

### **Tuberculosis Survey**

At registration all registrants were skin tested. Positive reactors and recent converters were x-rayed as soon as possible. This procedure materially decreases the possibility of "cases" of tuberculous infection within the University.

### **Activities**

During this period the student counsellors have been active with similar departments and have attended numerous meetings.

The Student Health Service was represented at the annual meeting of the Canadian College Health Association held in conjunction with the Canadian Association of University Personnel Services.

### STAFF

No new appointments were made during this period.

# **Counselling Division**

The counselling division of the Student Health Service, with two full-time counsellors (Jack Thurlow M.D. and Dave Sutton M.S.W.) completed its fourth full year in operation during 1969-70. The sharpest increase in "number of students seen" occured during this past year, the figure having been relatively constant for the first three years of the service. The increase amounted to approximately 17%, so that the number of students consulting the service approached three hundred (approximately one student out of every forty on the campus). The majority of these students (75%) were seen on more than one occasion, often over a period of several months in individual or group sessions.

Of the total number of students consulting the counselling division, only fifty were referred to psychiatric services, and less than half of this group required hospitalization.

The range of problems presented at the service continues to cover an incredibly wide range, but two trends were noted this year:

- (i) a small but increasing number of students with problems surrounding hallucinogenic drugs, and
- (ii) premarital pregnancy

In view of these currents, a special committee reported to the Vice-President (Health Sciences) on these two "conditions associated with emotional disturbances on campus". The recommendations of this committee, to help deal with these problems more effectively have been approved and will be brought into effect in the coming year.

The increasing student utilization of the service, and the implementation of the Special Committee Report may well necessitate expansion of facilities as personnel within the counselling division in the near future.

## **Acknowledgements**

Secretarial supervision involving the Tuberculosis Survey and involved personnel was directed by Mrs. E. Jarvis, Secretary of the Health Service.

Mrs. J. Bond R.N. assisted by Mrs. D. Ryckman R.N. managed the increasing load put on the nursing staff for this period and rendered great support to the physicians.

Mrs. J. Boughner R.N. at Althouse College was of great assistance in referrals to the university physicians.

The mass of administrative insurance detail attendant to OHSIP as it concerned the student body was handled with efficiency and consideration by Mr. J. Barton, Administrative Assistant.

### **Summer School**

The 1969 Summer School attendance showed a marked increase. The Health Service was pleased to treat, consult and refer to specialist care as requested.

# Comment

More comprehensive and continuous immunization for staff and students contemplating foreign travel is on a firm basis.

The student counselling service experienced greater activity with consequent value to students and the University in general.

Health Service Statistics July 1, 1969 — June 30, 1970.

# Referrals

Cardiac	7
Diagnostic Xrays	276
Treatment Xrays	29
G.I. series	17
Dermatologist	92
Medical	34
Surgical	130
Eye	70
Ear, Nose and Throat	24
Dental	19
Neurologist	6
Urologist	21
Gynaechologist	94
Psychologist	106
Psychiatrist	11

# **Prophylactic Inoculations**

	Allergy Serum		129	stu	dents received 1856 injections		
	Cold Vaccine		26 injections				
	Flu Vaccine		20		11		
	Mumps Vaccine		6		**		
	Typhoid-Para A & B	(1)	330	inje	ections		
			298		,,		
			277		,,		
	T.A.B.T.		8		• •		
	Diphtheria Toxoid		5		,,		
	Diphtheria Tet.		6		"		
	Tetanus—Polio Vaccine		311		,,		
	Poliomyelitis Vaccine		7		,,		
	Tetanus Toxoid		77		,,		
		(1)	245		,,		
	11	(2)	239		,,		
	Typhus Vaccine	(1)	215		,,		
		(1)	158		,,		
	Small Pox Vaccine	` .	558		u .		
•							

## **Tests**

Paul Bunnell	221
EEG	3
Wasserman	31
Neisserian	14
Schick	2
White Blood Count	32
Complete Blood Count	42
Blood Sugar	4

# Faculty, Staff and Visitors seen in Health Service - 294 visits including:

46 va	46 vaccination	
42 injections		
22	,,	
20	"	
12	"	
24	"	
6	"	
	42 in 22 20 12 24	

# Althouse Health Service Department September 1969 — May 1970

Visits to Health Service Dept.	2035
Students referred to Dr.	122
Visits by Faculty re Students	142
Students referred to Dr. Thurlow	4
Inoculations: Small Pox Vaccine	72
ТАВ	66
Tetanus-Polio	64
"Boosters"	14
Cholera	8

Students on "Teachers returning from West Africa Program" 42. In this group, 13 students were referred to Dr. Lenczner, at the Parasitology clinic, Toronto General Hospital.

Guyanese Head Masters observing at Althouse — seven In this group two men were referred to Dr. Lenczner, one person to Westminster Hospital and three to local Doctors.

Students registered September 1969 – 668.

# Comparison

43

1968 - 1969		1969 - 1970			
Total daily visits Immunization visits	13,843 1,898	Total daily visits Immunization visits	15,299 2,702		
Tittle action visits	15,741	mmamzution visits	18,001		

# OFFICE OF THE COMPTROLLER

# Report of the Comptroller R.R. Glover

This report is a brief summary of the financial aspects of the operation of the University for the fiscal year ended on 30th June 1970.

### Revenue

During the year the revenue and expense of the University reached an all time high. Operating revenue from all sources, excluding only the ancillary operations, exceeded \$41,500,000, an increase of almost 24% above the previous year. This was due principally to the substantial increase in student enrolment which greatly exceeded expectations. Under the Operating Grants Formula, the increase in enrolment was automatically translated into increased Provincial grants which totalled approximately \$27,000,000.

# Expense

The increase in the number of students brought with it a host of unforeseen expenses for additional staff, laboratory and classroom supplies, library books, etc. These extra expenses were compounded by the inexorable march of inflation which was reflected in the cost of all items. Expenses therefore reached a new high of over \$41,000,000, an increase of more than 29% above the preceding year.

### The Net Result

On balance, the University ended the year with a modest operating surplus of \$43,734 which was approximately 1/10 of 1% of the total expense. Net income carried forward was thereby increased to a cumulative total of \$1,965,796.

### Other

Expenditures for research from funds provided by outside sources increased to \$6,221,530, an increase of almost 7% over the previous year. During the year, the University embarked upon a program of providing urgently needed space by erecting temporary buildings, to be replaced by permanent buildings at a future date. A total of \$338,059 was spent in 1969-70 toward this program, with a greater amount to follow in the ensuing year's budget.

Actual figures and the details of both revenue and expense may be obtained by reference to the statements which follow this review. A synopic view of the financial operations may be seen in the graphical presentation which is included.

# **Ancillary Enterprises**

The objective of these activities is to operate at a breakeven point. The Book Store, Athletics, Residences and Parking Facilities ended the year in a profit position, but Food Services operated with a slight loss. With the exception of the Book Store, in which profits are allocated for student purposes, the profits are used to offset past or future losses, and the loss on Food Services was covered by a surplus from prior years.

## Althouse College of Education

As this College operates on a somewhat different basis to the University itself, with revenue being in the form of a grant from the Department of University Affairs, the revenue and expense are not integrated with that of the University, but are shown in a separate statement. In 1969-70, the College ended the year with an excess of expense over revenue of \$465,144. This was financed from the net income carried forward from previous years.

# Capital Funds

Expansion of the Physical Plant continued in 1969-70 with two major buildings under construction — the D.B. Weldon Library and an Addition to the Alexander Charles Spencer Faculty of Engineering Building. Total expenditure on these buildings and for other capital assets amounted to \$9,860,599. Of this total \$6,082,183 was from capital funds (approximately 93% of which was provided by the Provincial Government) and \$3,778,416 was from current operating funds. The latter amount was for the acquisition of laboratory apparatus, computer equipment, library books and furniture.

### Conclusion

We wish to acknowledge the co-operation of the President, the Vice-Presidents, the Deans of all the Faculties and Schools, and Heads and Directors of all non-academic entities. This has been of great assistance in maintaining the delicate balance between the receipt of funds and the steadily mounting expenses.

In addition I wish to express my sincere personal appreciation to all the members of the staff of the Office of the Comptroller for their conscientious and devoted service without which it would have been impossible to carry out the complex activities of this Department.

# The University of Western Ontario

# Statement of Operating Revenue and Expense

For the year ended 30th June 1970 (with comparative amounts for the year 1969)

	1969	-70	19	968-69
Revenue:	Amount	%	Amount	%
Student academic fees	\$ 6,208,729	14.95	\$ 5,260,331	15.69
Income received from invest- ments (including general				
endowment)	759,100	1.83	659,247	1.97
Gifts and grants for operating				
purposes	112,617	.27	143,898	.43
Miscellaneous	1,070,359	2.58	820,410	2.45
	\$ 8,150,805	19.63	\$ 6,883,886	20.54
Government grants for operating purp	ooses:			
General —				
Provincial	25,886,961	62.34	19,609,379	58.51
Municipal — City of London	151,250	.37	78,750	.24
Restricted — Provincial —				
Faculty of Dentistry	403,920	.97	650,000	1.94
School of Library and				
Information Science	175,000	.42	175,000	.52
Computer Facilities	535,054	1.29	295,095	.88
	\$27,152,185	65.39	\$20,808,224	62.09
Grants for assisted research				
(as applied)	\$ 6,221,530	14.98	\$ 5,821,169	17.37
Total Revenue	\$41,524,520	100.00	\$33,513,279	100.00

Note: 1969 figures have been adjusted to conform with classifications adopted for 1970.

# Statement of Operating Revenue and Expense For the year ended 30th June 1970

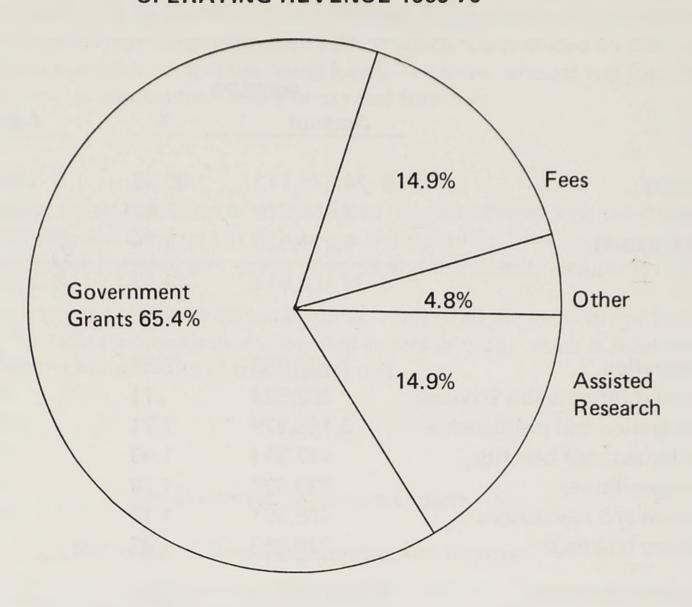
(with comparative amounts for the year 1969)

	1969-7	70	1968-69	
Expense	Amount	%	Amount	%
Instruction	\$ 24,876,172	60.55	\$ 18,511,291	58.26
Libraries	3,055,812	7.44	2,418,614	7.61
Assisted research	6,221,530	15.14	5,821,169	18.32
	\$ 34,153,514	83.13	\$ 26,751,074	84.19
Administration	1,468,888	3.58	1,117,498	3.52
Alumni and Information Services	292,524	.71	245,039	.77
Plant operation and maintenance	3,168,179	7.71	2,804,879	8.83
Undistributed staff benefits	447,594	1.09	333,407	1.05
Other expenditures	733,827	1.79	307,783	.97
Alterations and renovations	478,201	1.17	213,758	.67
Temporary buildings	338,059	82		
Total Operating Expense	\$ 41,080,786	100.00	\$ 31,773,438	100.00
Excess of revenue over operating expenses	443,734		1,739,841	
Deduct				
Provision for improvement of pensions of retired staff Provision for future annuity costs	400,000		336,032	
Excess (deficiency) of revenue over expense*	\$ 43,734		\$ 1,403,809	

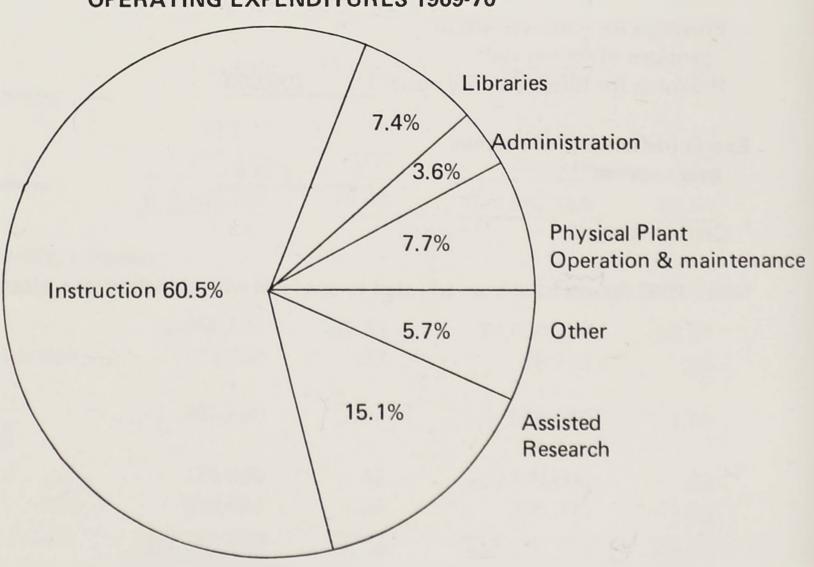
<sup>\*</sup> Carried forward

Note: 1969 figures have been adjusted to conform with classifications adopted for 1970.

# **OPERATING REVENUE 1969-70**



# **OPERATING EXPENDITURES 1969-70**



# Statement of Operating Revenue and Expense

# For the year ended 30th June 1970 (with comparative amounts for the year 1969)

	196	9-70	196	8-69
Ancillary Enterprises	Amount	%	Amount	%
Revenue:				
Food Services	\$ 1,078,337	18.12	\$ 953,527	25.32
Residences	2,946,421	49.52	1,357,709	36.05
Bookstore	1,352,360	22.73	1,111,631	29.51
Health Services	117,287	1.97	100,638	2.67
Athletics	282,258	4.74	242,736	6.45
Parking	173,663	2.92	_	_
	\$ 5,950,326	100.00	\$ 3,766,241	100.00
Expense:				
Food Services	1,083,788	18.43	941,989	25.08
Residences and apartments (in 1970)				
<ul><li>operations</li></ul>	2,470,604	42.01	1,199,669	31.94
-Mortgage payments and pre-				
opening costs	455,208	7.74	180,799	4.81
Bookstore — operations	1,302,170	22.14	1,076,536	28.66
<ul> <li>special purpose grants</li> </ul>	15,000	.26	24,900	.66
Health Services	117,287	2.00	100,638	2.68
Athletics	271,337	4.61	231,802	6.17
Parking	165,488	2.81		
	\$ 5,880,882	100.00	\$ 3,756,333	100.00
Excess (deficiency) of revenue over				
expense*	\$ 69,444		\$ 9,908	
*0 : 16				

<sup>\*</sup>Carried forward

Note: Parking expenditures included in Plant Operation and Maintenance in 1969. There were no Parking revenues in 1969.

# The Althouse College of Education

# Statement of Operating Revenue and Expense For the year ended 30th June 1970 (with comparative amounts for the year 1969)

	1969-70		1968-69	
Revenue:	Amount	%	Amount	%
Student academic fees	\$ 267,258	11.19	\$ 329,064	17.20
Income received from investments	41,201	1.73	59,655	3.12
Provincial grants for operating				
purposes	2,080,000	87.08	1,524,000	79.68
Total Revenue	\$ 2,388,459	100.00	\$ 1,912,719	100.00
Expense:				
Instruction	\$ 2,366,626	82.93	\$ 1,894,676	82.90
Libraries	123,807	4.34	92,414	4.04
Assisted Research	35,686	1.25	14,116	.62
	2,526,119	88.52	2,001,206	87.56
Administration	182,928	6.41	154,686	6.77
Plant operation and maintenance	137,719	4.83	122,992	5.38
Health Services	6,837	24	6,702	.29
Total Expense	\$ 2,853,603	100.00	\$ 2,285,586	100.00
Excess (deficiency) of revenue	A (405 444)		A (070 007)	
over expense *	\$ (465,144)		\$ (372,867)	

<sup>\*</sup> Carried forward

# **DEPARTMENT OF BUILDINGS AND GROUNDS**

# Report of the Director of Physical Plant Mr. John Shortreed

### Staff

During the year, the total number of employees of the Deaprtment increased almost ten percent to an average of 438 per month, including 35 probationary and casual staff. The regular appointees consisted of an average per month of 14 professional and administrative personnel, 33 clerical and drafting, 77 operative (including drivers, stores, grounds, heating plant, security and traffic officers, residence hall clerks, post office and switchboard), 81 tradesmen and 233 caretakers (including Supervisors). Of 35 terminations up to the end of the year, 18 were regular staff and 17 probationary or casual.

# **Telephones**

The University Centrex Telephone System again experienced a major expansion. By the end of the fiscal year the number of telephone sets increased almost 16 percent over the previous year to a total of 1,779 sets at a monthly rental cost of over \$19,000. Non-recurring service charges for the relocation and reconnecting of equipment and for new installations were approximately \$4,300 for the same period.

# Mail and Message Services

The acquisition of additional sorting bay units permitted a more efficient system of handling the increased volume of Royal Mail and of inter-campus messages. In addition to some 60 separate packages and parcels, an average of 10 bags of first-class mail and 40 bags of second-class mail were received daily. Included in these were 3,000 registered items each month. The wicket service also registered approximately 1,600 pieces of out-going mail monthly with the daily sale of stamps and money orders amounting to approximately \$600.

Budget approval was given to purchase an additional vehicle during the next fiscal year for the Mail and Message Service. The second vehicle will permit some extension to the present pick-up and delivery services to the departments on the campus as well as providing an inter-campus message service to the Glenmore single student residences. Overall expansion in the University buildings during the next fiscal year will increase the number of campus message boxes to 24 units from which collections are made, sorted and delivered three time daily, Mondays through Fridays.

### Reservations

Applications for special events and other reservations for room scheduling for functions outside of the regular academic curriculum totalled 5,151. Of the 1,751 regular applications processed for special events, 57 percent were for student groups. All class timetables for Summer School and Extension, Athletics and examinations were set up in the office records and were revised throughout the year as necessary to accommodate a large number of variations.

## Equipment

Increases in operations required the addition of one medium sized van. With the new addition, the vehicles of the Department totalled 5 small vans, 10 medium trucks and vans, 4 large trucks and 4 tractors.

### **Traffic and Parking**

The University Committee on Parking and Traffic formed in the Spring of 1969 met some 42 times during the 12 months ending June 30, 1970. During this period, the Committee recommended and approval was given to appoint a Parking and Traffic Co-ordinator, effective July 1, 1970, with the responsibility of being Secretary to the University Committee on Parking and Traffic and its sub-committees on Appeals and Special Requests.

Day-to-day routine was provided by personnel of the Buildings and Grounds Department. As directed, the uniforms of the Traffic and Security Services Officers were changed to avoid a similarity to the City of London Police.

Vehicle Parking and Traffic Regulations were produced and effected in September 1969 with a system of charging annual fees for each of several categories of parking. Daily parking was also made available at a coin charge in the University College Visitor's Lot, the former General Lots and at meters installed in convenient locations around the campus. During the year, approximately 60% of all available parking spaces in the lots were reserved.

In the Spring of 1970, the regulations were revised for implementation in September. Fees were not changed, but reserved spaces were limited to 25 percent of the capacity of each lot over 32 spaces. A re-distribution of spaces was incorporated to provide greater diversity to staff and student parking facilities.

### **General Operations**

The computerized inventory system initiated in 1968-1969 produced its first full year of data. A total of almost 50,000 transactions were made involving stores stock items. In addition, approximately 5,000 purchase requisitions were processed and materials received for other than stock items. A further 1,600 requisitions were processed on items for capital projects and other non-stores accounts.

### **Alterations to Grounds**

A major increase in parking lot capacity was made during the year, with construction of the Springett and Health Sciences lots and an increase in the Talbot College lot. Plans to pave the Springett and Health Sciences lots were finalized and tenders called for this work to be completed during the summer of 1970.

All roads on campus were named and illuminated street signs erected accordingly. New sidewalks were constructed on the north side of the Physics Building,on the north side of University Drive, and in numerous other areas.

The section of Huron Drive from the Services Building to Talbot College was under construction at the end of the year to straighten the double curve and allow for a site for the new Music Building. For the same reason, the football practice field east of the stadium was regraded and shifted southwards. It is expected that lighting towers will be erected to allow night practice in the Fall of 1970.

### Alterations to Buildings and Services

Alterations to the Dean's offices in University College were completed. This provided a main office area for the Faculty of Social Science.

New facilities were completed in Alumni Hall for the offices of Information Services and University Publications.

A program was commenced to up-date drinking fountains in older buildings with 23 new water cooled units installed in University College, MIddlesex College, Physical Sciences, Biological and Geological Sciences and the Engineering Building.

Installation of elevator emergency phones was completed. This service puts each passenger elevator in immediate contact with the Buildings and Grounds Dispatch Office and with the Heating Plant after normal working hours. A staff Call System now permits the supervisors to contact the building operators.

An unfinished storage area in the Dental Sciences Building was partitioned to provide emergency space, providing about 40 new offices.

Facilities for the Department of Fine Art were completed in Talbot College. This provided a studio, slide room and seminar room.

A new 900-pair telephone cable was installed to the terminal in University College to increase the telephone capacity on the Campus .

A considerable increase in food services space was achieved at Saugeen and Maitland Halls by adding a second floor to the existing storage room, extending the refrigerated garbage room and adding a roof over the loading dock.

A program was initiated to increase installation and the distribution of utilities for campus. The first phase of the program, valued at over 1.9 million dollars will consist of sewer services, chilled water distribution, water distribution, roads, electrical distribution, and additional capacity for the central heating and chiller plants. A portion of the work was commenced with the utility services for the Engineering Science Building addition.

The entire project is scheduled in several stages to minimize interruptions and distribute the cash flow as this is a non-formula project.

### **Emergency Space**

A 1969-70 Emergency Space Program was necessary with drawings and specifications being prepared, tenders obtained and the work carried out for the following: Alumni Hall (Department of Information Services and University Publications), Faculty of Dentistry, Faculty of Music (two portable buildings), Faculty of Nursing, School of Business Administration, Somerville House (student offices), Talbot College (Department of Fine Art), Thames Hall (awards, reservations, traffic and security), and University College (Dean's offices, Department of English).

An additional portable building similar to those previously erected was sited to the west of University College to provide additional office space for Stevenson Hall.

A temporary building for the Department of Fine Art consisting of 11,135 square feet of assignable space was commenced with completion scheduled for September 1970. The building is designed as a preengineered metal structure located just north of the Staging Building. A small area of the buildings was assigned to Computer Science. For the first time members of the Department of Fine Art feel they have adequate space in which to develop.

Preliminary and working drawings were prepared for portable buildings as adjuncts to Althouse College, Faculty of Music, Faculty of Graduate Studies, Natural Sciences Building, Social Sciences Building, Thames Hall and University College. This program for Emergency Space required for 1970-71 started in May and is budgeted at 1.5 million dollars.

A field station for the Department of Botany was constructed on the property of Mrs. John Labatt on Richmond Street, north of Highway 22.

A small addition to the School of Library and Information Science Building was designed, tendered and constructed during the year.

### **New Construction**

The attached chart indicates the progress made in the Capital Funds Program. During the 1969-70 fiscal year, the activities on the program were as follows:

### Glenmore Residences

The construction on Beaver and Ausable Halls (two bedroom, married student apartments) was completed in the early part of the year making all the apartments in the complex available for occupancy for the 1969-70 school term.

### D.B. Weldon Library

Construction continued on the D.B. Weldon Library building throughout the year. It is expected that the structural work will commence on the fourth floor and the undergraduate reading rooms will be finished and turned over to the University during the Fall of 1970. It is anticipated that the building will be completed by the Spring of 1971 with full occupancy obtained by the following September.

# **Engineering Science Addition**

Tenders were received and the contract awarded on this structure in September 1969. The total project cost was approved for approximately 5.5 million dollars.

The expected occupancy date for the addition is scheduled for the Summer of 1971.

# Staging Building - Collip Building

The tender was awarded and construction completed on the Staging Building by the beginning of the Fall Term, allowing occupancy by the Departments of Psychology, Botany and Zoology.

## **Future Planning**

### **Faculty of Music**

Planning was completed and tenders received for a major addition to Talbot College for the Faculty of Music. The contract was awarded with construction to start late in the Summer of 1970 as soon as revisions to the road system around Talbot College were completed. This gives the Faculty of Music 27,409 assignable square feet of new space for recital rooms, practice rooms and offices, supplemented by large office and teaching areas in Talbot College.

It is anticipated that the building will be available for occupancy by the Fall Term of 1971.

# **University Community Centre**

Preliminary planning was well advanced during this year for the 132,000 assignable square foot complex with the hope that tenders could be called in the Fall of 1970.

Funds for the project will be provided from both the University and the University Community; the latter occupying approximately one-third of the available space.

The main purpose of the building is intended to provide space for Recreational and Intermural Athletics, Student Services such as Health, Placement and Housing, Awards and Counselling, student organizations, lounges and meeting rooms. The structure is being designed to also accommodate the increased demand for Food Services and Book Store facilities.

The location of the building will be directly north of the D.B. Weldon Library.

### Social Science Centre

The siting of the Centre was established with the first phase to be erected west of Stevenson Hall and immediately north of the University Community Centre site.

The building is to be 183,000 assignable square feet in area, of this, 12,000 square feet will not be allocated or finished.

Plans for the concept of the structure were accepted on the basis of a lower section of four stories on the east portion and a nine storey section for the west portion. Architectural designs for each section of the building were distributed to the unit users for confirmation in order to proceed with working drawings.

# Stevenson Hall — Lawson Library Addition

General approval was given and planning undertaken for a link building of approximately 10,500 square feet of assignable area to join Stevenson Hall and Lawson Memorial Library. The building is intended to provide additional space for administrative offices and to provide a connection to the Lawson Library, which will also be converted for administrative use.

It is expected that tenders for the addition will be called late in 1970.

### **Central Food Services Commissary**

Preliminary planning began for the construction of a new centralized Food Services Commissary, Approval in principle has been received from the Department of University Affairs.

It is initially envisioned that the building, which is expected to be located on the main campus grounds, will have an assignable area of some 24,000 square feet.

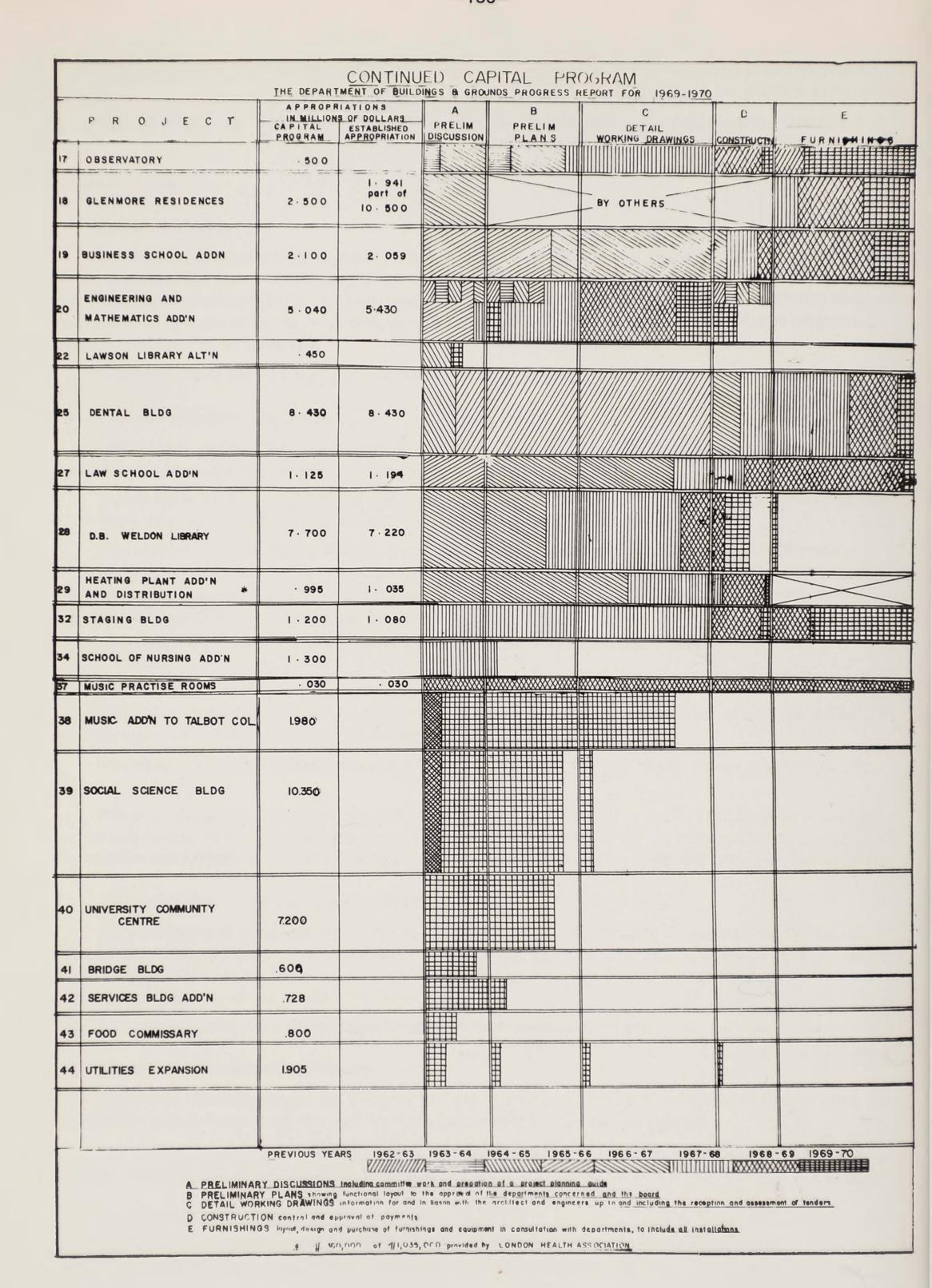
# Service Building

The continued expansion of the campus, as indicated by the present construction program, and the numerous projects in planning, has resulted in a need for the expansion of the facilities of the Department of Buildings and Grounds.

To meet this need, 20,800 assignable square feet of additional space is being added to the Services Building at an estimated cost of \$780,000. This added space will be in the form of two additions, one on

the easterly end for expanded office and storage space, and one on the westerly end to provide expanded maintenance and grounds shop facilities.

Preliminary planning for these additions is currently in progress and construction is anticipated to start early in 1971, for completion by Fall of 1971.



# **ALUMNI ASSOCIATION**

# Report of the President Mrs. Maxinne Barker

As president of the University of Western Ontario Alumni, at present numbering more than 30,000, I am pleased to report a year of progress in several fields.

Our greatest achievement, I believe, was the launching of the first Alumni College, a pilot project for which we owe great thanks to the initiative and resourcefulness of our Toronto Alumni under the presidency of Bob Moore. The success of the venture, a series of provocative and timely lectures ranging from space exploration to drug problems, attracted large audiences whose interest and concern were expressed in lively question periods. Alumni clubs in other centres, inside and outside of Ontario, have indicated great interest in sponsoring a similar program of continuing education in their own communities. All mailings for the Toronto series, and for all other activities in which Alumni clubs were engaged across the country originated in our Alumni office under the efficient direction of our Office Manager, Miss Doreen Burr.

We have seen the Alumni Gazette become the publication we have dreamed about and planned toward for many years, relevant, meaningful and provocative, and the year culminated with the report that the Gazette was nominated for an international award.

In the spring the Executive Council was instrumental in initiating and funding a campus beautification program which is presently underway, clearly and attractively sign-posting buildings and roads. I hope that we will see this project continued so that our visits to campus will bring further pride in its beauty.

Another innovation was a dinner for past presidents of the Executive Council, a frankly brain-picking session which proved most valuable to the executive.

Council made its first appointment of a representative to the Board of Governors under the terms of the University of Western Ontario Act of 1967 which proved to be a first for the Board, too. Miss Jessie MacFarlene, who was the first woman president of the Alumni Council began her term in July as first woman member of the Board of Governors.

Involvement with on-campus activities included early approval of the concept of a University Community Centre and assurance that Alumni would welcome inclusion in the centre. Throughout the year University Student Council president, Ian Brooks, and Student Senator, Tom Dean, kept us informed of the progress of plans for the centre. A member of Council, Gordon Whitehead, also served on the planning Commission.

Alumni vice-president, Don Scott, was an active member of one of the most controversial and time consuming committees on Western's campus, the Parking Committee.

At our monthly Council meetings we continued a policy initiated in the spring of 1968 of inviting special guests to attend and speak to us about different areas of interest on campus. Our speakers included Dr. Arthur Porter, then beginning his two-year term as Academic Commissioner, and Dr. Thomas Guinsberg of the Department of History outlined the Dean's Day continuing edcuation programs at Columbia University, a pattern we would like to see develop at Western. Mrs. G.K. Greene, recently named Western's first rare book librarian, and Maurice Stubbs, the first Art Curator, stimulated interest in their respective fields. Mr. Barry Browning, Deputy Registrar, explained the background and application of the new B.A. programs passed this year by Senate.

One of our greatest concerns is the maintenance of liaison between the campus and our Alumni throughout the world. Visits this year ranged far afield. In the fall Ward Cornell represented Council at a reception for Western Alumni in Ontario House, London, England. Later an enthusiastic group of Alumni in Thunder Bay welcomed Dr. Williams as guest speaker, accompanied by Professor C.M. Carmichael, Campbell McDonald, and myself. In the spring a whirlwind tour of the western provinces visiting with Alumni in Winnipeg, Calgary and Vancouver, found Alumni eager for news from Western and information about its growth and development.

The ever-popular Homecoming Weekend is not only a social weekend but has become an opportunity for various faculties to sponsor continuing education programs. The Medical School Conference, and the Engineering School Conference, were joined this year by the first Business Conference. It is my sincere hope that this more meaningful phase of Homecoming will continue to grow, eventually involving all component schools and faculties of the University community.

The Alumni Association also sponsored the second annual Live-In program in June, a weekend of discussion and informative panels and speakers held in conjunction with the Annual Assembly of the Alumni Association. Club representatives attended from Calgary and Thunder Bay as well as from the clubs in central and western Ontario.

The Great Artists Series, highlighted by the Spring Festival trio of concerts remained an outstanding contribution to the culture of the University and the community. We were honored this year to have as special guests His Excellency Vice-Admiral Wolfgang Larazzabal, Ambassador to Canada from Venezuela, and Senora Larazzabal.

The Alumni Art Collection continues to grow in value, not only in dollars, although that is most gratifying, but in the prestige it brings to Western and to its Alumni. It is now a travelling collection and is carrying Western's name far afield.

Progress in the several fields of Alumni concern has been encouraging and much is owed to the dedicated Alumni who have led the way through the years devoting time, energy and resources to furthering the prestige of Western.

I would be remiss if I did not call attention, too, to the dedicated service offered by the Alumni Secretariat under the capable leadership of Campbell McDonald, the Director of Alumni Affairs.

# DEPARTMENT OF INDIAN ARCHAEOLOGY AND PIONEER LIFE

# Report of the Curator Dr. Wilfrid Jury

From October 1969 to May 1970 the curator and his wife were at the University conducting the research necessary to build an archives and obtain information for the restoration of the site presently under reconstruction, as well as administrating the Museum. From May 1, or before, until October 1, we were at the site. This year we are continuing to rebuild the Naval and Military Establishment at Penetanguishene on the shore of Georgian Bay in the Huronia district, under an agreement between the University and the Ontario government, drawn up seven years ago.

Research, under the direction of my wife, continued with the study and collection of documents, maps, and manuscripts, as well as any written materials that would shed information on the site, the people involved while the Establishment was occupied, the vessels stationed there. This involves intensive search chiefly in the Public Archives of Canada and the Public Record Office, London, England. These undertakings have yielded valuable information and are indexed and recorded in duplicate, and will be housed in the research centre at the site and in the vaults at The University of Western Ontario. These files are available to any student engaged in research on this site or related subjects.

The buildings of the Naval Establishment have been completed. Since May 1970 the Military portion of the Establishment has been under construction. The original log soldiers' barracks and cook house is well on its way. The pay master's office and dwelling, it is hoped, will be completed along with the carriage shed and horse stable. With this, reconstruction of the Establishment as planned should be completed by September 30 this year. A great deal of furnishing and interior developments are yet required.

During the winter months, four carpenters were employed in making furniture and fittings. They also build eight sets of stairways to connect the three floors in the Naval Storehouse.

Meanwhile the Museum of Archaeology has been pretty well crowded out by the rapid expansion and growth of the University.

The gun collection has met the disapproval of some war protestors. Consideration should be given toward safer protection for the collection of long guns, and it was deemed advisable to store the collection of pistols.

Fanshawe Pioneer Village on the Upper Thames Conservation Authority property continues to create a growing interest in educational circles as an increased number of schools visiting the site indicates.

Also under The University of Western Ontario's direction, the Huron Indian Village in Midland operated by the Y's Mens' Club of the Midland Y.M.C.A. still holds the greatest interest of any attraction, with an ever-increasing number of school classes and tourists.

# **BUILDINGS: RECONSTRUCTED IN THE NAVAL ESTABLISHMENT**

Houses and kitchen for the surveyor Bayfield, 24' x 18'.

The Commanding Officer has two houses 24' x 16' each. One Cook House for the Commanding Officer is 16' x 16'.

The houses for Bayfield and the Commanding Officer's houses are buildings of squared log, covered with Clapboard.

The Clerk-in-Chare's house is 24' x 18' of squared logs. The Clerk-in-Charge's horse stable is 24' x 18'.

The Surgeon's House is 24' x 16' with a woodshed attached.

The Naval Seamen's Barracks is built of square logs 35' x 22' with a log cook house attached.

The Guard House is built of logs and has a heavy stone foundation (original stonework) with a solitary confinement cell. It is  $20' \times 18'$ . One seaman's home is built of round logs and is  $10' \times 15'$ .

The Blacksmith's Shop is built of round logs and has a slabbed room. It is  $12' \times 10'$  with an adjoining shed that is  $43' \times 12'$ .

The round-logged Storehouse for the ship builder's tools is  $8' \times 10'$ , and the Store Porter's house and office is  $20' \times 14'$  with cook shed  $10' \times 15'$ .

The Two-storied Saw Pit is 43' x 12'.

The Naval Storehouse is 100' x 50' and painted red. It was completed last fall.

The Lime Kiln is made of stone and the adjoining shed is 8' x 10'.

Two small wharfs were built opposite the Surveyor's and Commanding Officer's homes. The old road-ways traced at the time of the archaeological excavations have been featured and a guard-rail extending from the entrance gates to the Naval storehouse. A palisade built 50' from the Naval Storehouse completely surrounds it. Guard rails featuring the lawns have been built. A high picket fence was erected around the grave-yard. The garden patch is 100' x 100' and has been surrounded by an upright picket fence.

The Public Washroom is  $38' \times 18'$  and has been built under the rigid specifications laid down by the Health Department. The cesspool built of the latest design and made of heavy reinforced concrete empties into a weeping bed that is  $200' \times 60'$ . The building was constructed by our workmen and all the septic tanks were built by our workmen. The tile bed was laid under the daily supervision of the Health Inspectors of the District.

All the buildings have been open during the season for school classes and visitors. Guided tours have been given by competent guides, students of the University.

The fall of 1968 was spent mostly in obtaining brick for the fireplaces in the Surveyor's (Bayfield) house, the Commanding Officer's house and the Clerk-in-Charge's house.

The following is the attendance report up to and including August 13, 1969.

9,250
13,171

At this time last year our attendance was 12,031. Therefore, our gate count is up by 1,140.

# JOINT MCINTOSH COMMITTEE

# Report of the Secretary Professor W.S. Turner

Under the direction of Mr. Gino Lorcini, the Resident Artist, and Mr. Maurice Stubbs, the University Art Curator, extensive alterations to the McIntosh Memorial Building were planned and executed.

In November the Curator initiated the alterations to the Gallery to ensure greater flexibility in the exhibition areas.

The renovation included a new track system of lighting, interchangeable floor covering, repainting the interior, and new furnishings. To meet the needs of an expanding collection, metal storage racks in the McIntosh Memorial Building were rehoused in Alumni Hall.

# **Workshop Facilities**

Due to the prolonged remodelling work on the McIntosh Building, the installation of machinery necessary for the Resident Artist's work was delayed five months from the initial appointment date, which reduced production to almost nil. However, the studio is now in order, and the area is organized to facilitate good working conditions for his particular needs.

## **Art Workshop**

A course for the development of Creative Awareness was opened for students of the University in October, this being designed to offer those with or without Art experience an opportunity to participate in studio work, coupled with discussion on the need for creative development in everyday life. The course was well-received and continued until two weeks prior to the examination period when the participants felt the pressure of time.

#### **Open House**

Each Wednesday the studio was opened to the general public as well as to the University community, and this program continued through the summer months. It was encouraging to have an increasing number of visits from the members of Science faculties; the ensuing dialogue revealing so much common ground between the so-called opposite disciplines. Hopefully, this kind of exchange will help in some small way to break the schism between Art and Science.

A number of groups, including High School Art Teachers, University Women's Association, London Art Gallery Young People, Fanshawe Art Students, etc., visited the studio for tours, talks, and demonstrations during the year.

## Acquisitions

Thirty-six paintings, drawings and prints, listed below, were purchased for the University Art Collection and an additional thirteen works were accepted as gifts or bequests.

#### **University Purchases**

#### Alumni Fund:

441. Michael Snow Oil 61½ x 42 Beach —HCAEB 442. Ron Martin Acrylic 72 x 48 (a,b,c,) Triptych Nos. 7, 8, 9

Business School Fund			
445. Robert Hedrick 446. Dick Gerno 447. Takao Tanabe 448. Brian Fisher 449. Gordon Smith 450. Gordon Smith 451. Gordon Smith 460. Gino Lorcini	Acrylic Acrylic Acrylic Acrylic Silk Screen Silk Screen Silk Screen Alum. Rel.	39¼ x 39¼ 74 x 50½ 70 x 58 56 x 56 26 x 26 25 x 25 26 x 20 60 x 26	Untitled 1970 Aura 1968 September 1967 Monolith No. 4 Eastern Green IOSA Untitled Theta 18
Delaware Hall Fund			
	Inle De	0 v 10	The Old Corrigge Shop
413. Connie Jefferess 414. Connie Jefferess 415. Connie Jefferess 416. J. O'Henly 417. J. O'Henly 418. Bert Kloezeman 419. Jack Reppen 420. Karel Appel 421. Hundertwasser 422. D.M. Houston 423. P. Harris 424. M. Piggott 425. M.L. Bobak 426. T. Forrestall 427. M. Phillips 428. Wm. Roberts 429. Sally Wildman 430. Ray Cattell 455. Margot Ariss 456. V. Passmore	Ink Dr. Ink Dr. Serigraph Etching Etching Print Plastics Litho Serigraph Acrylic Oil W/C Oil W/C Poster Pnt. W/C W/C W/C Ceramic Serigraph	8 x 10 8 x 10 9 x 7 12-7/8 x 9 <sup>3</sup> / <sub>4</sub> 7 <sup>3</sup> / <sub>4</sub> x 9 <sup>3</sup> / <sub>4</sub> 16 <sup>1</sup> / <sub>2</sub> x 17 26-7/8 x 24 21 <sup>3</sup> / <sub>4</sub> x 27 33 x 21 <sup>1</sup> / <sub>2</sub> 22 x 20 26 x 23 <sup>1</sup> / <sub>2</sub> 27 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>4</sub> 40 x 48 15 x 20 38 <sup>1</sup> / <sub>2</sub> x 34 <sup>1</sup> / <sub>2</sub> 19 x 27 <sup>1</sup> / <sub>2</sub> 21 <sup>1</sup> / <sub>2</sub> x 29 <sup>1</sup> / <sub>2</sub> 19 x 26 36 <sup>1</sup> / <sub>2</sub> x 36 56 x 22-5/8	The Old Carriage Shop Landscape Abstract Abstract Aurora People No. 7 Rediscovered World Untitled —A/Prf/ Good Morning City Evolution No. 1 Flowers Autumn Gothic No. 2 Thames From Lambeth Cold But Happy 14 Smiling People End of Winter Winter Wood Entr. to the Night Gate When Distance Separates Untitled
Individual Purchases			
410. F. Andre	Oil/Pencil	61¼ × 73	Portrait of Dr. Inman
411. (a to g) F. Andre 465. Chas, Comfort 466. Cavouk	Pencil Oil Photo	various 45 x 35 31½ x 23½	Drawings for Portrait of Dr. Inman Portrait of A.E. Shepherd Portrait of R. Willis
McIntosh-Curator Fund			
408. Greg Curnoe	Ink	22½ x 17½	Jim Daunt Sitting On Yellow and Blue Chair
464. G. DeGroen	Acrylic on Paper	25 x 38	Untitled
Gifts to the University			
16. Tony Urquhart (Gift of the Artist)	Ink	10-3/8 x 8¾	Alligator and Owl
467. A.J. Casson (Gift of the Artist)	Drawing	12 x 15	Shed. Granville, Que.

18 x 24

Oil

Springbank Park

142. Paul Peel

(Gift of Mrs. Benjamin)

#### **Douglas Duncan Estate**

431.	David Milne	W/C	18¼ x 22	Pond by the Village
432.	David Milne	W/C	14 x 20	Campers Fireplace on a Stormy Day
433.	L.L. Fitzgerald	Ink	12 x 17-7/8	Woods and Clouds
434.	L.L. Fitzgerald	Pencil	24 x 18	Backyards and Rubber Tire
435.	B. Howard	Chalk	12½ x 19	Clump of Trees
436.	D. Rechenberg	Ink	15-3/4 x 12½	Abstract
437.	J. Buda	Monoprint	19 x 15	Vanishing Squares
438.	David Knox	Spraypaint	17 x 23½	Abstract
439.	Gerald Humen	Ink	14¼ x 14¼	Trees and Rocks
440.	M. Dainis	W/C	21¼ x 29¼	Marsh, North Shore St. Lawrence

## Inventory of Works of Art

An inventory of all works of art on the campus has now been completed together with an appraisal of values for insurance purposes.

In addition, an estimate for the restoration of paintings in the original McIntosh Bequest has been established.

#### Loans

Paintings from the University Art Collections were loaned for important exhibitions at the Art Gallery of Ontario, the Vancouver Art Gallery, the Whitechapel Gallery, London, England and many smaller galleries in Canada.

#### **Exhibitions**

During the year, twelve exhibitions were presented in the McIntosh Gallery and five in Talbot College Gallery Annex. The most important of these included the first London showing of aluminum constructions by Gino Lorcini, paintings and banners by Duncan de Kergommeaux and sculpture and prints by Don Bonham.

An interesting exhibition of paintings and crafts called "Indian Artforms" arranged by the Department of Indian Affairs, Ottawa featured an opening night performance by the Sky Dance Troupe.

Other exhibitions were Cucumber Sandwiches — Victorian photography and paintings, The Simon Fraser Centennial Suite — a showing of silk screen prints from British Columbia, Kloezeman Graphics and Greg Curnoe Drawings — both London artists. In April/May a large exhibition by Beal Secondary School students ended the season.

The McIntosh Collection was shown in December and during the summer months in the McIntosh Gallery.

#### Other Activities

Mr. Maurice Stubbs. In order to broaden the exhibition schedule, a program of films on Art, gallery talks and concerts were arranged by the Curator. Mr. Stubbs also presented seven lectures on art to groups in London and Guelph; attended a two-day campus workshop; juried art shows for the Windsor Art Gallery and the Western Fair Association; was interviewed on the T.V. program "At Random", Channel 10; attended the International Society of Education through Art Conference, New York, August 1969. At the latter he presented an audio-visual experiment using childrens' films, slides and tapes from the National Gallery of Canada's Summer Classes for children.

An application for membership in the Ontario Association of Art Galleries was accepted and the Curator attended meetings in Kitchener and Ottawa.

Mr. Gino Lorcini. The Resident Artist has had his works of art exhibited in One-Man Shows and Group shows in Canada and abroad. He is represented in many important collections.

#### Committees

Advisory Board Member – National Sculpture Conferences,

University of Kansas.

Chairman, Acquisitions — London Art Gallery Association,

London, Ontario.

Member – University Arts Committee, U.W.O.

Diploma Design, U.W.O.Honorary Degrees, U.W.O.

#### **Awards**

Commission for Fountain Sculpture, Ste. Anne's Hospital, Ste. Anne de Bellevue, Quebec. Diploma — Associate of Royal Canadian Academy.

## PRESIDENT'S MEDALS

# Report of the Committee Chairman Professor R.G.N. Bates

The President's Medals have been awarded since 1951 to complement the Governor General's awards for literature by giving recognition to periodical publication. They are awarded to the best works submitted in four categories: poem, short story, scholarly article, general article. To be eligible a work must be by a citizen or resident of Canada and must have been published in Canada in the preceding calendar year. The entries are judged by special committees drawn from the faculty of the University. A cash award of \$100.00 accompanies each medal, an innovation instituted in 1967.

#### The 1970 winners are:

- Single poem Glen Siebrasse, "The Human Being Who Wished He Were a Flag", in The Fiddlehead, May-July 1969. (Judges: J.P. Denny, R.G.N. Bates)
- Short story Alden Nowlan, "There Was An Old Woman from Wexford," in *Prism international*, Autumn 1969. (Judges: G.S. Emmerson, F.K. Harper, A.M. Hyatt, E.G. Pleva)
- Scholarly article A.I. Silver, "French Canada and the Prairie Frontier, 1870-1890," in *The Canadian Historical Review*, March 1969. (Judges: A.E. Barker, D.G.G. Kerr)
- General article Christina Newman, "Mr. McKasey Goes To Ottawa," in Saturday Night, February 1969. (Judges: F.K. Bambrick, J.W. Graham)

# THE WESTERN ONTARIO SECONDARY SCHOOLS ASSOCIATION

# Report of the Secretary Mr. Harvey A. Stewart

On December 11, 1970, W.O.S.S.A. will have completed 50 years of active operation.

The first organization of its kind in Ontario or Canada, it was originally created to establish a closer relationship among the various Secondary Schools of Western Ontario through the promotion of competition in all athletic activities deemed advisable, to develop in the students associated with the schools, an appreciation for good, clean, amateur sport, and to correlate sports with the academic program for the improvement of both sportsmanship and scholarship.

The success of W.O.S.S.A. led to the formation of similar associations in other areas of Ontario, so that currently there are 16 of them, with the strong possibility of one or two more in the near future.

From Ontario, the idea of setting up Secondary School Athletic Associations has spread to nearly all of Canada's other provinces.

All Associations have the purpose of coordinating athletic activities at the playoff level. Associations exert some degree of control, most of which is in the hands of individual conferences or sections of the larger bodies.

W.O.S.S.A. currently serves 56 secondary schools, with a total enrolment nearing 48,000 students. There are five conferences, as listed below:

Huron-Perth	with	10 schools
London	with	17 schools
Middlesex	with	6 schools
Oxford-Elgin	with	15 schools
Sarnia-Lambton	with	8 schools

Schools are still classified on the basis of numbers — "AA" at 751 plus, "A" at 750 and under. Conference rules permit schools of both classifications to compete in a common schedule, and the school with the best won-lost record in its classification may advance in W.O.S.S.A. playoffs for eith "AA" or "A" schools.

In most activities, association champions (mainly senior) advance to all-Ontario secondary school championship playoffs.

There are now 17 recognized activities, and there are indications that an 18th (table tennis) may be added.

About 14,000 students, in 1969-70, competed in inter-school activities in the W.O.S.S.A. jurisdiction.

This year, as of July 1, The University of Western Ontario discontinued its subsidy in aid of W.O.S.S.A. or component Conference playoff activities that used U.W.O. facilities. This action on the part of U.W.O. was quite a logical and reasonable one, and puts W.O.S.S.A. 100 percent on its own, financially.

Everyone involved with W.O.S.S.A. — executive, directors, school coaches and administrative personnel—is happy with the assistance and cooperation that have been so willingly and graciously given by the University to the Association. At all times U.W.O. help has been much appreciated.

Officers for 1970-71 are as follows:

Past President — Mr. A.I. Fletcher, D.H.S., Mitchell.

President — Mr. Don Hunter, St. Clair S.S., Sarnia.

Vice-President — Mr. Gordon Leach, D.H.S., Glencoe.

Secretary-Treasurer — Mr. Harvey A. Stewart, London.

APPENDIX A
STAFF CHANGES

## STAFF CHANGES

#### **FACULTY OF ARTS**

Appointments, Promotions, Leaves of Absence — Effective July 1, 1969 unless otherwise stated

Resignations, Retirements, Return from Leaves of Absence — Effective June 30, 1969, unless otherwise stated

## **Appointments**

# **Department of Classics**

M.E. Carbone Lecturer

# Department of English

D. George
J. Good
Assistant Professor
Assistant Professor
Assistant Professor

K. Livingstone Instructor

B.R. Lundgren Assistant Professor

M.D. Manson Instructor B.R. Markovits Instructor

W.L. Meriwether Assistant Professor

R.G. More Instructor

F.E.L. Priestly Visiting Professor (part-time)

A. Putnam Assistant Professor

J.A. Shelbourn
S. Speigel
Instructor
D.J. Vincent
Instructor
R. Watkins
Instructor
Instructor
Instructor
Instructor
Instructor

# Department of Fine Art

B. Bonario Assistant Professor

T. Hughes Instructor

M. Stubbs Honorary Lecturer

# **Department of French**

I.A. Arnold Professor

J. Bossé

J.P. Brunet Assistant Professor

R. Dickson

J.Y. Dupraz

P. Gounelle

G. Holmes

Lecturer

Lecturer

Lecturer

Lecturer

P. Sage Visiting Professor

J.C. Vilquin Assistant Professor

# Department of German

B. Beutler Instructor

H.J. Schluetter Associate Professor

## **Department of Philosophy**

R.B. Braithwaite Visiting Professor

(July 1, 1969 to Dec. 31, 1969)

G.E. Caton Visiting Professor
C.G. Echelbarger Assistant Professor

**Department of Russian Studies** 

G.M. Eramian Lecturer

E. Zytomirski Visiting Associate Professor

Department of Spanish and Italian

F.L. Smieja Visiting Associate Professor

#### **Promotions**

# **Department of Classics**

V.A. Broege

N.B. Crowther

D.E. Gerber

D.P. Stanley-Porter

To Assistant Professor

To Professor and Chairman

To Assistant Professor

## Department of English

R.G. Bates To Professor

M.M. Brown

E.J. Devereux

D.S. Hair

To Assistant Professor

To Associate Professor

To Associate Professor and

Associate Chairman

P.M. Ondaatje To Lecturer

## Department of French

I. Arnold
F.R. Atance
To Assistant Professor
To Assistant Professor
To Assistant Professor
To Assistant Professor
To Associate Professor and
Acting Chairman

# Department of Russian Studies

N. Bernotas

E. Froese

To Assistant Professor

To Assistant Professor

To Assistant Professor

To Assistant Professor and

Acting Chairman

# Resignations

## Department of English

K. GibsonW. L. MeriwetherE.A. PeyrouxR.J. ShroyerAssistant ProfessorAssistant ProfessorAssistant Professor

# Department of French

P.J. Cardinal Professor
D.M. Pearce Lecturer
C. Theodore Professor

# **Department of Philosophy**

P.A. Angeles Associate Professor

W.K. Wilson Professor

#### Leaves of Absence

## Department of English

G.E. Buckley

E.J. Devereux

D.C. Kaula

C.F. Klinck

Associate Professor

Associate Professor

Senior Professor

**Department of French** 

P.J. Cardinal

R.W. Torrens

Professor and Head

R.L. Walters

Associate Professor

Department of Philosophy

T.L. Block
H.J. Johnson

W.K. Wilson

Associate Professor
Associate Professor
Assistant Professor

Department of Russian Studies

R. Neuhauser Associate Professor and

Head

#### Retirements

Department of French

R.W. Torrens Professor and Head

Department of German

H.K. Kalbfleisch Professor (part-time)

Department of Russian Studies

L. Ignatieff Professor

#### **FACULTY OF SCIENCE**

## **Appointments**

# **Department of Applied Mathematics**

E. Barton Lecturer

P.J. Digby

F. Jackson

Visiting Lecturer

Visiting Lecturer

**Department of Botany** 

W.H. Hopkins Assistant Professor

**Department of Chemistry** 

N.C. Payne Assistant Professor

**Department of Geophysics** 

Z. Dvorak Post Doctoral Fellow

# **Department of Mathematics**

S.L. Lai Assistant Professor

C.B. Miller Lecturer

P. Milnes
R. Strube
Assistant Professor
Assistant Professor

G. Thierrin Professor

# **Department of Physics**

J. William McGowan

D.F. Gallaher

Professor and Chairman

Assistant Professor

**Department of Zoology** 

R.J. Planck Assistant Professor

## **Promotions**

# **Department of Astronomy**

David Gray Associate Professor

# **Department of Geology**

R.W. Hutchinson Professor

P.G. Sutterlin Associate Professor Associate Professor

# **Department of Mathematics**

R.N. Bryan Associate Professor
M.S. Haq Associate Professor

# **Department of Computer Science**

G.E. Beckhoff
C.B. Dunham
Associate Professor
Assistant Professor

# **Department of Physics**

G.F. Lyon Professor

Y.F. Bow Associate Professor
B.Y. Tong Associate Professor
D.R. Lanesmith Assistant Professor

# **Department of Zoology**

J.E. Steele Acting Chairman

## Resignations

# **Department of Botany**

P.R. Weese
C.C. Chen
Post Doctoral
Dr. R.S. Mehrotra
Post Doctoral
Post Doctoral
Post Doctoral

# **Department of Geology**

R.N. Farvolden Associate Professor

Department of Zoology

R.H. Stinson Professor

C. LaDochy Assistant Professor

#### Retirements

**Department of Geology** 

G.H. Reavely Professor

**Department of Physics** 

A.M.I.A.W. Durnford Professor

**Terminations** 

**Department of Mathematics** 

T.M. Viswanathan Assistant Professor

**Transfers** 

**Department of Chemistry** 

W.C. Howell Assistant Dean of Science

**Department of Computer Science** 

F. Zabransky From Department of Computer Science to

School of Business Administration

**Department of Physics** 

P.A. Fraser Professor of Applied Mathematics

Leaves of Absence

**Department of Applied Mathematics** 

A.S. Deakin Courant Institute of Mathematics, New York

P.J. Sullivan

California Institute of Technology

Niels Bohr Institute, Copenhagen

**Department of Computer Science** 

G.E. Beckhoff

Z.W. Pylyshyn

Associate Professor

Assistant Professor

Returning from Leave of Absence

**Department of Zoology** 

W.N. Holsworth Assistant Professor

#### **FACULTY OF SOCIAL SCIENCE**

## **Appointments**

## **Department of Economics**

K.B. Bhatia Lecturer
D.F. Burgess Lecturer
C.S. Clark Lecturer

G.R. Fisher Visiting Professor
S. Friedberg Visiting Lecturer
D. Gately Visiting Lecturer

H. Herberg Visiting Assistant Professor

A. Kelly Visiting Assistant Professor (January 1, 1970)

E.J.D. Ketchum Lecturer

L.A. Kochin Visiting Lecturer

J.D. May

C. Plourde

M. Schmundt

Y. Toda

Lecturer

Lecturer

Lecturer

#### Department of Geography

D.G. Cartwright Lecturer

M.F. Goodchild Assistant Professor
A. Holsman Visiting Lecturer

D.G. Janelle Assistant Professor (January 1, 1970)

#### Department of History

V.N. Pavloff Lecturer

G.O. Rothney Visiting Professor

## Department of Journalism

W.B. Key Visiting Associate Professor (October 1, 1969)

M.M. Laing Assistant Professor

#### Department of Physical and Health Education

D.A. Cunningham Research Associate (Department of National Health and

Welfare

D.L. Hayes Lecturer
Miss E. Lindsay Lecturer

B.M. Petrie Assistant Professor

R.J. Vigars Lecturer

# **Department of Political Science**

J. Cartwright

W.D.G. Gagne

R.A. Melvin

Associate Professor

Assistant Professor

Associate Professor

## Department of Psychology

D. Baran Assistant Professor

A.K. Bartoshuk Professor

G.A. Foulds

M.S. Goodstadt

Visiting Professor

Assistant Professor

Mrs. D.S. Prytulak Lecturer

L.S. Prytulak Assistant Professor

T.B. Rogers Lecturer

G.B. Rollman

M.L. Simner

Assistant Professor

Assistant Professor

# **Department of Secretarial Science**

M. Hartry

Lecturer

# **Department of Sociology**

C.L. Boydell

I. Okraku J.W. Rinehart

W. Skidmore Miss J. Veevers Lecturer

**Assistant Professor** 

Visiting Associate Professor

Lecturer

Lecturer

## **Promotions**

# **Department of Economics**

K.B. Bhatia

K.H. Burley

H.T. Johnson L. Parai

C.G. Plourde W.E. Vickery

R.J. Wonnacott

**Assistant Professor** 

Acting Chairman

Assistant Professor (August 1, 1969) Assistant Professor (June 1, 1969) Assistant Professor (January 1, 1970) Assistant Professor (September 1, 1969)

Chairman

# **Department of Geography**

R.W. Wightman

Associate Professor

# Department of History

T.N. Guinsburg D.S. Hoffman

C.A. Ruud I.K. Steele

**Assistant Professor** Associate Professor Associate Professor

Assistant Professor

# **Department of Journalism**

E.J. Beattie

Professor

# Department of Physical and Health Education

J.R. Fairs

Professor

# **Department of Secretarial Science**

Miss P.F. Davis

**Assistant Professor** Mrs. B. Seldon **Assistant Professor** 

## **Department of Sociology**

P.M. George

Associate Professor

E.T. Pryor

Associate Professor and Chairman

# Resignations

## **Department of Economics**

S.B. Gupta C.D. Hodgins T.R. Robinson L.S. Zudak

**Assistant Professor Assistant Professor Assistant Professor Assistant Professor** 

# Department of Geography

J.M. Havens

**Assistant Professor** 

# Department of Physical and Health Education

Miss M.L. Dresser Lecturer

**Department of Political Science** 

W.D. Gagne Assistant Professor

Department of Psychology

A.G. Conger
G.A. Foulds
Visiting Professor
G.A. Mulcahy
Assistant Professor
Assistant Professor
Assistant Professor
Assistant Professor
Assistant Professor
R. Stretch
Assistant Professor
Assistant Professor
Resigned Chairmanship

**Department of Sociology** 

J.D. Allingham Associate Professor

J.A. Geschwender Associate Professor (Visiting)

## Leaves of Absence

## **Department of Economics**

S.B. Gupta
C.D. Hodgins
Assistant Professor
Assistant Professor
Assistant Professor
Assistant Professor
Department Chairman

Department of Geography

J.M. Havens Assistant Professor (Jan. 1, 1970 - June 30, 1970)

O.P. Langtvet Associate Professor

Department of History

F.H. Armstrong Associate Professor

Department of Journalism

C.E. Wilson Assistant Professor

**Department of Political Science** 

B.B. Kymlicka Associate Professor

Department of Psychology

Z.W. Pylyshyn Assistant Professor

G.H. Turner Professor

Department of Physical and Health Education

G. Leyshon Assistant Professor
G.A. Wearring Associate Professor

Department of Sociology

T.R. Balakrishnan Associate Professor

# Returning from Leaves of Absence

## **Department of Economics**

T.J. Courchene Associate Professor

G.L. Reuber Professor

**Department of History** 

A.M.J. Hyatt Associate Professor

**Department of Political Science** 

W.M. Dobell Associate Professor

Department of Psychology

G.H. Turner Professor (Returned May, 1970)

#### Retirements

**Department of History** 

W.K. Ferguson Professor F.H. Hitchins Professor

**Department of Secretarial Science** 

Miss H.M. Gillespie Professor and Chairman (Deceased June 21, 1970)

**Transfers** 

**Department of Economics** 

G.L. Reuber Chairman to Dean, Faculty of Social Science

Department of Geography

N.L. Nicholson Acting Dean, Faculty of Social Science to Professor

Department of Psychology

D.A. Chambers Professor to Assistant Dean, Faculty of Social Science.

# **FACULTY OF MUSIC**

# **Appointments**

J.M. Anderson Instructor

E.L. Boos Assistant professor

John-Paul Bracey Instructor

K.I. Bray

P.G. Downs

Associate professor

Associate professor

A.J. Fisher Lecturer

D.J. Johnson Associate professor
G. VanOstrand Assistant professor

**Promotions** 

J.P. Green Chairman of the Music Education Department

J.S.McIntosh Associate professor

D.A. McKellar Associate Dean

#### **FACULTY OF MEDICINE**

#### **Appointments**

**Department of Anatomy** 

A.J. Gwinnett Associate Professor

Department of Bacteriology and Immunology

L. de Miranda Visiting Investigator (July 24, 1969 to October 23, 1969)

S.K. Singhal Assistant Professor (April 1, 1970)

Department of Biochemistry

R.A. Cook

Assistant Professor (September 15, 1969)

Assistant Professor (October 1, 1969)

J.P. Guthrie Assistant Professor (October 1, 1969)

**Department of Clinical Neurological Sciences** 

M. Daria Haust Honorary Lecturer (January 1, 1970)

**Division of Neurology** 

H.J.M. Barnett Professor and Chairman (August 1, 1969)

A.J. Hudson
A. Kertesz
Assistant Professor
W.P. McInnis
Clinical Lecturer

**Division of Neurosurgery** 

J.M. Allcock Honorary Lecturer
G.G. Hinton Honorary Lecturer

**Department of Community Medicine** 

Subdepartment of Epidemiology and Preventive Medicine

R.D. Appleford

J. Leake

Clinical Lecturer (September 1, 1969)

Instructor (September 1, 1969)

Honorary Lecturer (January 1, 1970)

J.I. Williams Assistant Professor

Subdepartment of Family Medicine

Miss J. Buchan Instructor (January 1, 1970)
C.H. Crowther Instructor (December 1, 1969)

M.T. Dillon Instructor

K. Edwards

Mrs. Marcia Fuller

B. Hennen

Mrs. Linda Lamb

Instructor (part time) (April 1, 1970)

Instructor (November 1, 1969)

Instructor (November 1, 1969)

J.P. Newell Instructor

Mrs. T. O'Neill Instructor (November 1, 1969)

B. Ragula Instructor

Mr. C.S. Redden Instructor (February 1, 1970)

Patricia S. Suffel Instructor

**Program of Continuing Medical Education** 

J. P. Newell Assistant to the Program (July 1, 1969 to June 30, 1970)

Department of Medicine

H.J. M. Barnett Professor (Neurology) (August 1, 1969)

E.J.M. Cholod Instructor
D.R.M. McCourtie Lecturer

W.C. Watson Associate Professor

Department of Obstetrics and Gynaecology

H.N. Ramaprakash

A.A. Yuzpe

Lecturer (July 1, 1969 to June 30, 1970) Assistant Professor (January 1, 1970)

Department of Ophthalmology

W.L. Burt

Instructor (part-time)

Department of Otolaryngology

E.E. MacRae R.R.F. Ruby Clinical Lecturer (October 14, 1969) Assistant Professor (January 1, 1970)

**Department of Paediatrics** 

Aurora B. Albarracin

E.R. Ecclestone W.H. Feasby K.L. McAlpine

Mrs. Halina M.C. Robinson

Clinical Lecturer (January 1, 1970) Assistant Professor (January 1, 1970) Honorary Lecturer (January 1, 1970)

**Honorary Lecturer** 

Instructor (December 1, 1969)

**Department of Pathological Chemistry** 

D.S. Jones

Lecturer (September 1, 1969)

**Department of Pathology** 

M.J. Ball

J.H. Bell

A.A. Enriquez

S. Gursel

D.S. Jones

J.P. Sapp

D.I. Turnbull

M. Vigneault

Instructor (September 15, 1969) Instructor (November 1, 1969)

Instructor

Instructor (January 1, 1970)

Lecturer

Assistant Professor (June 1, 1970) Instructor (September 1, 1969)

Clinical Associate Professor (June 1, 1970)

**Department of Pharmacology** 

I.T. Borda

J.M. Parker

Honorary Lecturer (September 1, 1969)

Professor to Professor and Acting Head (July 1, 1969)

to June 30, 1970)

D.F. White

Instructor

Department of Physical Medicine and Rehabilitation

R.A. Durnin

Clinical Lecturer (August 1, 1969)

Program of Medical Rehabilitation (Occupational Therapy)

Mrs. Margaret Trider

Assistant Professor (February 1, 1970)

Program of Medical Rehabilitation (Physical Therapy)

Miss S.E. Cameron

Miss J. Gilroy

Mr. P.W. Grantham

Mrs. N. MacRae Mrs. P. Valentine

Instructor Instructor

Lecturer (June 1, 1970)

Instructor

Instructor

Program of Speech Pathology and Audiology (Medical Rehabilitation)

Mr. A. Kroll

Assistant Professor (June 1, 1970)

Department of Physiology

G.F. Chess Honorary Lecturer

E.K. O'Hea Assistant Professor (March 1, 1970)

G.R. Sellery Lecturer (Sessional) (September 1, 1969 to June 30, 1970)

J.E. Steele Honorary Lecturer (January 1, 1970)

Mr. David J. Stewart Assistant Professor (September 15, 1969)

**Department of Psychiatry** 

G. Gort Lecturer (September 1, 1969)

Department of Diagnostic Radiology

G. Hamilton
R.A. Harwood
L.H. Mullen
Instructor (January 1, 1970)
Instructor (April 1, 1970)
Instructor (December 1, 1969)

**Department of Surgery** 

G.E. Meads Clinical Lecturer (January 1, 1970)

**Division of Orthopaedic Surgery** 

R.W. Grainger Clinical Lecturer (January 1, 1970)

**Division of Urology** 

D. Downham Instructor

**Special Lecturers** 

H. Krever Special Lecturer in Legal Medicine (October 1, 1969)

**Promotions** 

**Department of Anatomy** 

E.B. Gammal Lecturer to Assistant Professor

Department of Bacteriology and Immunology

L.A. Hatch

E.L. Medzon

Clinical Associate Professor to Clinical Professor

Assistant Professor to Associate Professor

Department of Biochemistry

C.C. Bigelow Associate Professor to Professor

Department of Community Medicine — Subdepartment of Family Medicine

J.A. Collyer Lecturer to Assistant Professor

C.H. Crowther Instructor to Lecturer (April 1, 1970)

C.T. Lamont Lecturer to Assistant Professor

J.W. Orchard Instructor to Clinical Lecturer (October 1, 1969)

P.B. Stein Instructor to Lecturer

**Department of Medicine** 

I.T. Borda

E.S. Hagerman

W.P. McInnis

R.K. Stuart

T.E. Wood

Instructor to Assistant Professor

Instructor to Clinical Lecturer

Lecturer to Assistant Professor

Lecturer to Assistant Professor

**Department of Obstetrics and Gynaecology** 

D.T. Armstrong Associate Professor to Professor

**Department of Ophthalmology** 

G.L. Oliver Instructor to Clinical Lecturer

**Department of Paediatrics** 

L.L. de Veber

G.G. Hinton

Assistant Professor to Associate Professor

Assistant Professor to Associate Professor

M.D. Li Lecturer to Assistant Professor

**Department of Pathology** 

B.A. Warren Assistant Professor to Associate Professor

**Department of Pharmacology** 

M.L.W. Hersey Instructor to Assistant Professor

Department of Physical Medicine and Rehabilitation

R.A. Durnin Clinical Lecturer to Assistant Professor (December 1, 1969)

Department of Physiology

D.T. Armstrong Associate Professor to Professor

Department of Psychiatry

B. Goldberg Clinical Lecturer to Clinical Assistant Professor

V. Jurjans Instructor to Assistant Professor

K.M. McGregor Clinical Lecturer to Clinical Assistant Professor

J.C. McLeish Clinical Lecturer to Assistant Professor

E.V. Metcalfe

Clinical Assistant Professor to Clinical Associate Professor

Clinical Assistant Professor to Clinical Associate Professor

Clinical Assistant Professor to Clinical Associate Professor

Department of Diagnostic Radiology

A.C. MacDonald

Clinical Lecturer to Clinical Assistant Professor

Clinical Lecturer to Clinical Assistant Professor

Department of Surgery — Division of Urology

J.L. Sales Instructor to Clinical Assistant Professor

J.K. Wyatt Instructor to Clinical Assistant Professor and Acting Head

Change in Rank

Department of Clinical Neurological Sciences

C.G. Drake

Clinical Professor and Chairman of the Division of Neuro-

surgery, Department of Surgery to Professor and Chairman

of the Department of Clinical Neurological Sciences

Division of Neurosurgery

H.W.K. Barr Clinical Assistant Professor of Neurosurgery, Department

of Surgery to Clinical Assistant Professor of Neurosurgery, Division of Neurosurgery, Department of Clinical Neuro-

**logical Sciences** 

C.G. Drake Clinical Professor and Chairman of the Division of Neuro-

surgery, Department of Surgery to Professor and Chairman,

Division of Neurosurgery, Department of Clinical Neuro-

logical Sciences

J.P. Girvin

Assistant Professor of Neurosurgery, Department of Surgery

to Assistant Professor of Neurosurgery, Division of Neuro-

surgery, Department of Clinical Neurological Sciences

Department of Community Medicine — Subdepartment of Family Medicine

J.A. Collyer Assistant Professor to Clinical Assistant Professor (August

1, 1969)

G.E. Pratt Clinical Assistant Professor to Assistant Professor (February

1, 1970)

**Department of Medicine** 

W.M. Cameron Clinical Associate Professor to Associate Professor

**Department of Paediatrics** 

Margaret K.P. Campbell Clinical Assistant Professor to Honorary Lecturer

**Department of Pathology** 

F.N. Lewis Clinical Assistant Professor to Assistant Professor (September

2, 1969)

Department of Physical Medicine and Rehabilitation

Olive J. Stewart Clinical Assistant Professor to Assistant Professor

**Department of Psychiatry** 

Olive J. Stewart Honorary Lecturer to Lecturer

Department of Diagnostic Radiology

P.P. Hauch Clinical Assistant Professor to Honorary Lecturer

**Department of Surgery** 

H.W.K. Barr Clinical Assistant Professor of Neurosurgery, Department of

Surgery to Clinical Assistant Professor of Surgery

J.P. Girvin

Assistant Professor of Neurosurgery, Department of Surgery

to Assistant Professor of Surgery

**Division of Urology** 

L.N. McAninch Clinical Professor to Professor and Chairman (September 1,

1969)

J.K. Wyatt Clinical Assistant Professor and Acting Head to Clinical

Assistant Professor (August 31, 1969)

Resignations

Department of Anaesthesia

J.A. Gerry Instructor (September 1, 1969)

**Department of Anatomy** 

A.C. Deadman Instructor

C. Levene Associate Professor (September 30, 1969)

Department of Bacteriology and Immunology

L. de Miranda Visiting Professor (October 15, 1969)

J.C. Paterson Honorary Lecturer

**Department of Biochemistry** 

P.D. Lawley Associate Professor (August 31, 1969)

## **Department of Community Medicine**

# Subdepartment of Epidemiology and Preventive Medicine

E.J. Love Assistant Professor

Subdepartment of Family Medicine

J.A. Collyer Clinical Assistant Professor (February 28, 1970)

Mrs. Marcia L. Fuller Instructor (December 13, 1969)

Department of Obstetrics and Gynaecology

E.J. Love Assistant Professor

Department of Ophthalmology

C.M. Mailer Instructor (August 31, 1969)

**Department of Paediatrics** 

W.A. Langdon Instructor

Department of Pathological Chemistry

T.D. McLarty Honorary Lecturer
J.H. Toogood Honorary Lecturer

Department of Physiology

A.A. Monjan Assistant Professor (September 1, 1969)

P.B. Stein Instructor (May 31, 1970)

Department of Psychiatry

W.N. Downe Instructor

Mr. K. Green Instructor (August 1, 1969)

E.J. Love Lecturer

H. Rochman Clinical Lecturer (September 30, 1969)

Department of Diagnostic Radiology

W.L. Teskey Clinical Lecturer (December 31, 1969)

Retirement

**Department of Biophysics** 

A.C. Burton Professor and Head

**Department of Paediatrics** 

H.J. Loughlin Honorary Lecturer

Department of Physiology

G.W. Stavraky Professor

Leave of Absence

**Department of Anatomy** 

Mr. G.A. Leyshon Instructor (July 1, 1969 to June 30, 1970)

**Department of Pathological Chemistry** 

Y.S. Brownstone Professor (July 1, 1969 to June 30, 1970)

## Department of Pharmacology

C.W. Gowdey

Professor and Head (July 1, 1969 to June 30, 1970)

#### Return from Leave of Absence

## Department of Bacteriology and Immunology

R.G.E. Murray

Professor and Head (July 1, 1969)

## **Department of Medicine**

P.A. Rechnitzer

Clinical Assistant Professor (September 1, 1969)

## **FACULTY OF NURSING**

# **Appointments**

E.M. Buzzell
J.A. Hezekiah
J.H. Mantle
Mrs. S. Fisher
S. Kelton
Mrs. S.M. McCallui

Mrs. S.M. McCallum Mrs. P.J. Parker Mrs. J. Pfisterer Assistant Professor Assistant Professor Assistant Professor

Instructor (August 15, 1969)

Instructor

Instructor (August 15, 1969) Instructor (August 15, 1969) Instructor (October 6, 1969)

#### **Promotions**

L.S. Brown
N.E. Healey
Mrs. V. Wood
P.R. Calvert
Mrs. J.T. Hurlock
J. McWhirter

Assistant Professor to Associate Professor Assistant Professor to Associate Professor Assistant Professor to Associate Professor

Lecturer to Assistant Professor Lecturer to Assistant Professor Lecturer to Assistant Professor

## Resignations

E.M. Buzzell
M.J. Moncrieff
Mrs. J. Hurlock
Mrs. S. Fisher
S. Kelton
Mrs. S.M. McCallum

Assistant Professor Assistant Professor Assistant Professor Instructor Instructor

#### Leaves of Absence

B. Brown Mrs. V. Wood

17

January 1, 1970

## **FACULTY OF DENTISTRY**

# **Appointments**

# **Department of Oral Medicine**

A.L. Beam Instructor

S.L. Kogon Assistant Professor

R.W. Morris Instructor
D.E. Whiteman Instructor

**Department of Paediatric Dentistry** 

G. Frey

B.R.W. Smith

Clinical Instructor

Clinical Instructor

**Department of Restorative Dentistry** 

H.G. Bunston
A.J. Gwinnett
Associate Professor
D.H. Skinner
Associate Professor
Associate Professor
Assistant Professor
Clinical Instructor

**Department of Social Dentistry** 

J.M. Smith Assistant Professor

D.C. Way Instructor

# **Promotions**

**Department of Oral Medicine** 

J.A. Reid Assistant Professor

Department of Restorative Dentistry

G.A. Bedrosian Clinical Assistant Professor

# Resignations

**Department of Oral Medicine** 

D.W. Stoneman Associate Professor

# **Transfers**

**Department of Paediatric Dentistry** 

G.C. Frey (from Department of Social Dentistry) Instructor

#### FACULTY OF LAW

## **Appointments**

B.J. Arnold K.B. Farquhar M.A. Hickling H. Krever

**Assistant Professor Assistant Professor** Professor Professor **Assistant Professor** 

J.W. Samuels

## **Promotions**

E.F. Ryan

**Associate Professor** 

# Resignations

M.H. Gropper C.G. Morley J.D. Payne E.F. Ryan

**Assistant Professor Assistant Professor** Professor Associate Professor

# **FACULTY OF ENGINEERING SCIENCE**

# **Appointments**

(Mrs.) E. Barton T.E. Base N. Kosaric C.E. Livingstone M. Novak W. Lane M. Masters

Senior Tutor Assistant Professor Assistant Professor Assistant Professor Associate Professor Teaching Fellow Post Doctoral Fellow

# **Promotions**

J.D. Brown G.S.P. Castle W.H. Davis B.J. Vickery

to Associate Professor to Assistant Professor to Associate Professor to Associate Professor

**Assistant Professor** 

#### SCHOOL OF BUSINESS ADMINISTRATION

#### **Appointments**

P.M. Bishop H. Crookell R.E. Duval J.D. ffolliott G.R. Forsyth C. Haehling von Lanzenauer T.G. Handley J.G.J. Lavallée R. Paterson

Lecturer (September 1, 1969) Visiting Lecturer Assistant Professor (December 1, 1969) Assistant Professor **Assistant Professor** 

Instructor Visiting Assistant Professor (January 1, 1970) Visiting Assistant Professor (January 1, 1970) Instructor

C.J. Piper R.G. Stevens F. Zabransky

**Assistant Professor** 

Instructor

#### **Promotions**

A.A. Grindlay Professor

D.G. Burgoyne

D.A. Drinkwalter

Assistant Professor

Assistant Professor

Assistant Professor

Assistant Professor

M. Pearce Instructor

## Resignations

J.A. Bartos Assistant Professor
A.G. Blair Assistant Professor

B.L. Davidson
J.M. Fuller
Lecturer
Lecturer
D.W. Konchak
Lecturer
Lecturer
Lecturer
Lecturer
Lecturer
Lecturer
Lecturer
Lecturer

J.T. Sears Visiting Associate Professor

#### Leaves of Absence

R.J.A. Lord

J.T. Nicholson

D.L. Wallace

Lecturer

Lecturer

A.R. Wood Professor (January 1, 1970)

# **Returning from Leave**

A.A. Grindlay Professor

#### SCHOOL OF LIBRARY AND INFORMATION SCIENCE

## **Appointments**

M. Beckman

A.W. Bowron

G.S. Cruzat

W.S. Debenham

J. Fyfe

B.J. Halevy

Part-time faculty

Part-time faculty

Part-time faculty

Part-time faculty

Part-time faculty

Part-time faculty

K. Hansen Lecturer

A.J. Jamieson Associate Professor

E.J. Ketchum Lecturer

J.T. Parkhill Part-time faculty

R.G. Prodrick
P.G. Scott
C.L. Sprovieri
Professor
Lecturer
Lecturer

G.M. Strathern Assistant Professor

\*Part-time faculty on terminal appointments.

## Resignations

S.A. Alexander

S.A. Edgar

W.N. Murray

Lecturer

Lecturer

#### Retirement

A.D. Osborn Dean (retired July 1, 1969)

#### ALTHOUSE COLLEGE OF EDUCATION

## **Appointments**

**Department of Art** 

A.D. Logan Associate Professor

**Department of Elementary Education** 

P. Park Lecturer

P. Sorrill Assistant Professor

**Department of History of Education** 

R.D. Gidney

D.A. Lawr

D.J. Radcliffe

D.W. Ray

Assistant Professor

Assistant Professor

Assistant Professor

Assistant Professor

**Department of Modern Languages** 

P.J. Charrette Sessional Lecturer

**Department of Philosophy** 

A.P. Koutsouvilis

L. Werth

Assistant Professor
Sessional Lecturer

Department of Physical and Health Education

M. Fairs Sessional Lecturer

**Department of Practice Teaching** 

N.H. Stevenson Assistant Director

Department of Professional Practice and Administration

G.C. Hay

E.A. McLeish

D.W. Menear

Assistant Professor
Assistant Professor
Assistant Professor

**Department of Psychology** 

A.J. Bergering

A.W. Blue

Assistant Professor

Assistant Professor

**Department of Science** 

D.N. Cunningham

J.F. Ogletree

Assistant Professor
Assistant Professor

E. Stabler Dean

**Promotions** 

T.J. Casaubon Professor and Assistant to the Dean

**Department of Elementary Education** 

P. Park Assistant Professor (September 1)

Department of English

P.J. Linden Associate Professor

Department of Philosophy

V.A. Howard Associate Professor

# Resignations

**Department of Modern Languages** 

P.J. Charrette

Sessional Lecturer

**Department of Philosophy** 

L. Werth

Sessional Lecturer

Department of Physical and Health Education

M. Fairs

Sessional Lecturer

Leave of Absence

**Department of Modern Languages** 

M. Baldwin

Professor (October 1, 1969 to June 30, 1970)

**Department of Philosophy** 

V.A. Howard

Associate Professor

Department of Physical and Health Education

I. Bliss

**Assistant Professor** 

Returning from Leaves of Absence

Department of English

J. Smallbridge

Professor

**Department of Mathematics** 

A.W. Harris

Professor

Department of Philosophy

P. O'Leary

**Assistant Professor** 

**Transfers** 

J. Walsh

Associate Professor (from Department of Business and Commerce to Department of Computer Studies)

**BRESCIA COLLEGE** 

**Appointments** 

Department of English

A. Zoll

**Assistant Professor** 

**Department of French** 

C. Carter

**Assistant Professor** 

**Promotions** 

**Department of Home Economics** 

R. Penney

Associate Professor and Chairman of Department

# Resignations

Sister Dominica Dean of the College and Chairman of Home Economics

Department (July 19, 1969)

**Department of Home Economics** 

M. Rouane Lecturer (June 30, 1970)

KING'S COLLEGE

**Appointments** 

Helen J. Chenier Assistant Registrar Elizabeth Russell Assistant Librarian

Department of English

E.J. Miner Assistant Professor Assistant Professor

**Department of French** 

A.S. de Fabry Assistant Professor

**Department of History** 

J.R. Goutor Associate Professor

**Department of Psychology** 

J. Havelka Professor

M.M. Lawlor Associate Professor

A. Thomas Professor

**Religious Studies** 

Rev. J.H. Donohue Assistant Professor

Sociology

H. Maor Associate Professor

Social Welfare

T. Brown

J. Robertson

Lecturer

Lecturer

Lecturer

**Promotions** 

**Department of History** 

Rev. P.E. Crunican Associate Professor

Department of Philosophy

J.J. Snyder Associate Professor

Resignations

**Department of History** 

C.K. McNamara Lecturer

G.W. Olsen Assistant Professor

Retirements

**Department of Classics** 

C.J. Treacy Professor

#### **NON-ACADEMIC STAFF**

#### Retirements

Administration and Finance

R.B. Willis Vice-President, Administration and Finance

Department of Alumni Affairs

G.O. Hartwell Fund Officer

**Department of Athletics** 

E. McCoy Assistant

**Department of Bacteriology** 

G.M. Vaughan Administrative Assistant

Department of Buildings and Grounds

R.D. Anderson

J. Finley

D.P. Peebles

M.K. Vincent

Caretaker

Electrician

Hall Clerk

Chief Operator

**Department of Food Services** 

A.G. Affeldt

K.C. Conlan

S.S. Gilbert

E.B. Marlatt

Dish Machine Operator

Dish Machine Operator

Dish Machine Operator

W. Wicary Kitchen Porter

Department of Health Services

R.M. Bond Nurse

Libraries

R.E. Hale Clerk

J.J. Talman

H.L. Yake

Chief Librarian

Professional

Museum of Indian Archeology and Pioneer Life

J. Grisdale Carpenter Assistant

**Deaths** 

Department of Buildings and Grounds

L.A. Davis Driver

J.W. Hitsman

W.M. McMaster

W.B. Willis

Groundsman

Hall Clerk

Carpenter

**Faculty of Dentistry** 

F.G. Grundy Technician

Libraries

W.H. Lane Administrative Officer

Museum of Indian Archeology and Pioneer Life

R.F. Smith Research Director

APPENDIX B
PUBLICATIONS

# **PUBLICATIONS**

#### **FACULTY OF ARTS**

## **Department of Classics**

- GERBER, D.E. (Review) Grant, M.A. <u>Folktale and Hero-Tale Motifs in the Odes of Pindar</u> Lawrence: University of Kansas Pr., 1967. <u>American Journal of Philology</u> 91(1970) 125-126.
- MURISON, C.L. (Review) Petit, P. <u>La Paix romaine</u> Paris: Presses Universitaire De France, 1967. <u>American</u> Journal of Philology 91(1970) 101-104.
- STANLEY-PORTER, D.P. (Review) Segal, E. Euripides: <u>A Collection of Critical Essays</u> Englewood Cliffs, N.J.: Prentice-Hall, 1968. Phoenix 23(1969) 328.
- TIMOTHY, H.B. <u>The Collected Poems of John Galt</u> Vol. 1 Toronto: University of Toronto Press, 1970. 455p.
- TIMOTHY, H.B. (Review) Ramsay, F. <u>John Ramsay of Kildalton</u> Toronto: Peter Martin Associates Limited, 1969. The <u>London Free Press</u> July 26, 1969.
- TIMOTHY, H.B. (Letter) "Galt Family Signatures as Reflecting Hereditary Influence" The London Free Press April 3, 1970.

## Department of English

- BATES, R.G.N. "On Translating Some Northern Poetry" Mosaic 2(1969) 87-94.
- BATES, R.G.N. "Sytuaciya anhlokanadskoyi literatury" Suchasnist (1969) 26-30.
- BATES, R.G.N. (Poem) "Kennst du das Land" Above Ground Review 1(1969) 3.
- BATES, R.G.N. (Poem) "Other Landscapes, Other Ways" Prism International Summer (1969) 27.
- BATES, R.G.N. (Poem) "Kennst du das Land" Canadian Forum May (1969) 35.
- BATES, R.G.N. (Review "Who's Afraid of Cultural Identity? or, Stand Up and be Counted Down" Mathews, R. and Steele, J. (Eds.) The Struggle for Canadian Universities Toronto: New Press, 1969. Canadian Review of American Studies 1(1970) 62-68.
- BIEMAN, E. and HIEATT, A.K. (Eds.) Spenser Newsletter No. 1 1970.
- BIEMAN, E. (Review) Gransden, K.W. <u>Spenser's "The Faerie Queene"</u> London: MacMillan, 1970. Spenser Newsletter 1(1970) 4.
- GARBER, L.A. Tales from the Quarter Toronto: Peter Martin Associates, 1969, 395 p.
- GEORGE, D. "Thomas Middleton's Sources: A Survey" Notes & Queries (1970)
- GRAHAM, J.W. "Point of View in The Waves: Some Services of the Style" University of Toronto Quarterly 39(1970) 193-211.
- HENSLEY, D. "The State of the Wordsworth Text" Wordsworth Circle 1(1970).
- HIEATT, A.K. and BIEMAN, E. (Eds.) Spenser Newsletter No. 1 1970.
- HIEATT, A.K. and HIEATT, C.B. (Eds.) "'The Bird With Four Feathers': Numerical Analysis of a Fourteenth-Century Poem" Papers on Language and Literature 6(1970) 18-38.
- HIEATT, A.K., DELANY, P. and BAYBAK, M. (Eds.) "Placement 'In the Middest' in The Faerie Queene" Papers on Language and Literature 5(1969) 227-234.
- HIEATT, A.K. "Milton's Comus and Spenser's False Genius" University of Toronto Quarterly 38(1969) 313-318.
- HIEATT, A.K. and HIEATT, C.B. (Eds.) Spenser, E. Selected Poetry New York: Appleton-Century-Crofts, 1969. 155 p.

- HIEATT, C.B. The Miller's Tale by Geoffrey Chaucer New York: Odyssey Press, 1970.
- HIEATT, C.B. The Knight of the Cart New York: T.Y. Crowell, 1969. 85 p.
- HIEATT, C.B. and HIEATT, A.K. (Eds.) Spenser, E. Selected Poetry New York: Appleton-Century-Crofts, 1970. 155 p.
- HIEATT, C.B. and HIEATT, A.K. (Eds.) "'The Bird with Four Feathers': Numerical Analysis of a Fourteenth-Century Poem" Papers on Language and Literature 6(1970) 18-38.
- HIEATT, C.B. "A New Theory of Triple Rhythm in the Hypermetric Lines of Old English Verse" Modern Philology 66(1969) 1-8.
- HIEATT, C.B. (Review) Hibbert, C. The Search for King Arthur New York: Harper & Row, 1970. New York Times Book Review March 15, 1970.
- RAJAN, B. The Lofty Rhyme: a Study of Milton's Major Poetry London and Miami: Routledge and Kegan Paul, University of Miami Press, 1970. 190p.
- REANEY, J. Colours in the Dark Toronto: Macmillan, 1970. 90p.
- REANEY, J. "Names and Nicknames" In Nobody in the Cast Edited by R. Barton, et al. Toronto: Longmans, 1969, pp. 194-219.
- REANEY, J. "Ten Years at Plan" Canadian Literature 41(1969) 53-61.
- REANEY, J. (Review) Ready, W. <u>The Tolkien Relation: A Personal Enquiry</u> Toronto: Regnery, 1969. University of Toronto Quarterly 38(1969) 378-379.
- REANEY, J. "Five Emblem Poems" Poetry 115(1969) 150-153.
- STINGLE, R.M. (Review) Lemire, E.D. The Unpublished Lectures of William Morris University of Toronto Quarterly Spring (1970).
- WILSON, H.R. "The Geography of Language" In Linguistics in School Programs Edited by A.H. Marckwardt. Chicago: National Society for the Study of Education, 1970, pp. 64-84.
- WILSON, H.R. "Research in Progress Statement A 9" Tennyson Research Bulletin 1(1969) 72-73.
- YOUNG, A.M. "Some Aspects of St. Augustine's Literary Aesthetics, Studied Chiefly in <u>De Doctrina</u> Christiana" Harvard Theological Review 62(1969) 289-299.
- YOUNG, A.M. (Review) "Tony Urquhart Exhibition, 20/20 Gallery, London" Arts Canada June, 1970.

## **Department of Fine Art**

- HART, W.S. "London Survey Show" 20 Cents Magazine 1969.
- HART, W.S. "18th Century Naval Artists On The Northwest Coast" Alberta Historical Review 17(1969) 1-9.

#### Department of French

- BAGULEY, D. (Review) Brady, P. "Loeuvre" de Emile Zola Genève: Droz, 1967 Modern Language Review 64(1969) 677-679.
- BRUNET, J.P. (Translation) Constitution and By-Laws of the Canadian Neurological Society. Canadian Neurological Society, June 1970.
- BUSH, W.S. Georges Bernanos New York: Twayne, 1969. 171p.
- BUSH, W.S. "Base pour la critique du temps de l'espace et de la structure de M. OUINE: Les blancs du Manuscrit Plon" Revue des Lettres Modernes 203-208(1969) 7-25.
- BUSH, W.S. "A propos du Chapitre IV de M. OUINE: Trois Lignes Supprimés par Albert Béguin" Revue des Lettres Modernes 203-208(1969) 27-29.
- BUSH, W.S. "Rencountres?" Revue des Lettres Modernes 203-208(1969) 239-242.
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- BANKS, M.A. "Marriage with a Deceased Wife's Sister Law and Practice in Upper Canada, with a Summary of Post-Confederation Changes" Western Ontario Historical Notes 25(1970) 1-6.
- PHELPS, E.C.H. A Bibliography of Lambton County and the City of Sarnia, Ontario (U.W.O. Library Bulletin No. 8) Petrolia, Ont., Printed by the Advertiser-Topic, 1970. 146 p.

#### **BRESCIA COLLEGE**

### **Department of English**

SHARP, C. "Dürrenmatt and the Spirit of Play" University of Toronto Quarterly 39(1969) 63-76.

#### KING'S COLLEGE

- BRITAIN, S.D. "Effect of Manipulation of Children's Affect on their Family-Drawings" Journal of Projective Techniques and Personality Assessment. 34(1970) 234-237.
- BRITAIN, S.D. "Field-Dependence-Independence, Anxiety and Performance on a Complex Cognitive-Perceptual Task" Western Psychological Convention. April, 1970. Proceedings (1970)
- WOOD, K. and BRITAIN, S.D. "Patterns of Physiological Response to Avernoe and Non-Aversive Visual Stimula" Western Psychological Convention. Proceedings (1969).
- ECCLES, E.M. and BRITAIN, S.D. "Developmental Stage Individual Differences and the Pogendorff Illusion" Western Psychological Convention. Proceedings 1969.
- CRUNICAN, P.E. (Review) DALTON, ROY C. The Jesuits Estates Question 1760-1888: A Study of the Background for the Agitation of 1888 Toronto: University of Toronto, 1968. Journal of the Canadian Church Historical Society 12(1970) 19-20.
- CRUNICAN, P.E. "Newman in Canada: An Overview "In Newman in Canada J.W. Evans. Washington: Center for Applied Research in the Apostolate, 1970.
- CRUNICAN, P.E. (Abstract) "Bishop Lafleche and The Mandement of 1896" Historical Papers/Communications Historiques. (1969) 52-61.
- MAOR, HARRY "Judisch-Deutsche Transmigration," Emuna-Horizonte. 5(1970) 3-9.
- MAOR, HARRY (Translation) ALEXANDER, F.G. and SELESNICK, S.T. The History of Psychiatry Konstanz: Diana Verlag, 1969.
- MAOR, HARRY "Gewaltfreiheit im Judentum" In Gewaltfreie Aktion Edited by Winifred Maechler. Stuttgart: Radius Verlag, 1969 pp. 51-58.
- MAOR, HARRY "Judisches in Freuda Brautbriefen" Emuna, Blatter. 4(1969) 311-316.
- MAOR, HARRY (Translation) MACKENZIE, NORMAN <u>A Guide to the Social Sciences</u> Munich: Nymphenburger Verlagschandlug, 1969.
- MAOR, HARRY "Enine Religiose Separatistenbewegung im Deutschen Judentum." In Entwicklung und Forschritt. Edited by Horst Reiman and Drnst Huller. Tubingen: J.C.B. Mohr (Paul Siebeck), pp. 277-289.

APPENDIX C
SCHOLARLY ADDRESSES

# SCHOLARLY ADDRESSES

# **FACULTY OF ARTS**

Department of Classics	
BROEGE, V.A.	"Divine Polarity in Horace's Lyric Poetry", Classical Association of Canada, Winnipeg, June, 1970.
CROWTHER, N.B.	"Catullus and his Contemporaries", Colloquium on Catullus sponsored by U.W.O. Classics Department, March, 1970.
Department of English	
BATES, R.G.N.	"American Studies". Participant in a panel discussion at the fifth annual conference of the Canadian Association for American Studies, York University, Toronto.
GRAHAM, J.W.	"On Editing a Manuscript", Annual conference on Editorial Problems, University of Toronto, November, 1970.
HIEATT, A.K.	"Spenser Research Opportunities" and "Three Fearful Symmetries of The Faerie Queene", International Spenser Colloquium under the sponsorship of St. Thomas University and the University of New Brunswick, Fredericton, N.B., October, 1969.
HIEATT, A.K.	"Spenser's Timely Numbers: The Tally to Date", Modern Language Association, Denver, Colorado, December, 1969.
HIEATT, C.B.	"The Moral of the Nun's Priest's Tale", Chaucer Section of the Modern Language Association, Denver, Colorado, December, 1969.
HIEATT, C.B.	"Olive and Landres: an Analysis of the Karlamagnús Saga version of a Lost Old French and Middle English Romance", Medieval-Renaissance Seminar, U.W.O., London, October, 1969.
HIEATT, C.B.	"An Introduction to the Miller's Tale", English Department Colloquium, U.W.O., November, 1969.
RANS, G.	"But the Penalty of Adam: Cooper's Sense of the Subversive", C.A.A.S. Meeting, Toronto, 1969.
REANEY, J.	"The World in Me, Me in the World", C.A.A.S. Meeting, Toronto, 1969.
REDEKOP, E.	"Paradise Lost: Brave New World in Cooper's 'The Crater' And Thomas Cole's 'The Course of Empire'." London Branch of the Humanities Association, March, 1970.
WILSON, H.R.	"Canadian English and American English", Canadian Symposium of Applied Linguistics, Ottawa, May, 1970.
WILSON, H.R.	"Your Thing and My Thing Are They Parts of One Thing?" ACUTE, Winnipeg, June, 1970.
WILSON, H.R.	"Dialectology and Dictionaries", Panel participant, Canadian Council of Teachers of English, Fredericton, August, 1969.

Renaissance Seminar, U.W.O., London, October, 1969.

"A Study of Desiderius Erasmus Enchiridion Militis Christiani", Medieval-

YOUNG, A.

**Department of Fine Art** 

HART, W.S. "Die Brucke", Third lecture in the London Public Library and Art Gallery

Series, 100 Years of Contemporary Art 1870-1970, November, 1969.

HART, W.S. "Der Blaue Reiter", Sixth lecture in the London Public Library and Art

Gallery Series, 100 Years of Contemporary Art, 1870-1970, November, 1969.

HART, W.S. "Op and Kinetic Art", Thirteenth lecture in the London Public Library and

Art Gallery Series, 100 Years of Contemporary Art, 1870-1970, February,

1970.

Department of French

BUSH, W.S. "M. Quine: L'exorcisme du mauvais rêve", Colloque International, Décade

Bernanos, Château de Cerisyla-Salle (Manche), France, July, 1969.

SAGE, P. "Réflexions sur L'Utopie dans la littérature française", Department of

French Seminar, U.W.O., November, 1969.

SANDERS, J.B. "Conservation in Ontario", Association des Naturalistes Corbeillois, Corbeil,

France, July, 1969.

TATILON, C. "Explication de text: Corneille, Le Cid", Department of French Seminar,

U.W.O., January, 1970.

VENESOEN, C. "Racine, Corneille & Péguy", Department of French Seminar, U.W.O.,

December, 1969.

Department of Philosophy

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ANGELES, P.A. "The Infinite Regress", Sir George Williams University, Montreal, Quebec,

November, 1969.

BINKLEY, R.W. "Quotation, Quantification and a Paradox". Philosophical Society of

McMaster University, Hamilton, Ontario, December, 1969.

BINKLEY, R.W. "Comments on D. Goldstick's 'Against Categories'." Canadian Philosophical

Association, Winnipeg, Manitoba, June, 1970.

BLOCK, I. "Austin and the Cartesians", Philosophy Club of Sir George Williams Univer-

sity, Montreal, Quebec, January, 1970.

BUTTS, R.E. "Discussion of Papers on Kant's Philosophy of Science by Gerd Buchdahl and

Robert Palter", Third International Kant Congress, Rochester, New York,

April, 1970.

CATON, C.E. "A Problem in Empirical Semantics", Waterloo University Philosophy Collo-

quium, Waterloo, March, 1970.

CATON, C.E. "Comments on Professor Ziff's 'There's More to Seeing Than Meets the Eye'."

Oberlin College Philosophy Colloquium, Oberlin, Ohio, April, 1970.

CATON, C.E. "Comment on Stewart Thau's 'The Distinction Between Rhetic and

Illocutionary Acts'." Western Division, American Philosophical Association,

St. Louis, Missouri, May, 1970.

JOHNSON, A.H. "Whitehead's Philosophy of Education", Philosophy Association, Windsor,

October, 1969.

JOHNSON, A.H. "Whitehead's Conception of Philosophy", Philosophy Club, U.W.O., February,

1970.

JOHNSON, H.J. "Education for What?", Principals' Course, Ontario Department of Education,

U.W.O., London, July, 1969.

WILLIAMS, M.E. "The Examination Paradox", Canadian Philosophical Association, Winnipeg,

Manitoba, June, 1970.

### Department of Russian Studies

SALTER, F.R. "The Syntatic Dual in Old Russian", Canadian Linguistics Association,

Toronto, June, 1969.

SALTER, F.R. "Aleko Konstantinov's Bai Ganiu: Satire of Manners", North East Modern

Languages Association, Buffalo, N.Y., April, 1970.

### Department of Spanish and Italian

ASENSIO, J. "Algunos Aspectos Del Racionalismo de Tirso de Molina", North East

Modern Languages Association, Buffalo, N.Y., April, 1970.

LOPEZ PACHECO, J. "Aldecoa o la Poesia de la Prosa", Canadian Association of Hispanists,

Winnipeg, June, 1970.

MUNN, B.W. "Sir William Haggard: A Second Christie in Brazil", Canadian Association

of Latin American Studies, Winnipeg, June, 1970.

#### **FACULTY OF SCIENCE**

### **Department of Applied Mathematics**

DENNIS, S.C.R. "Flow near the leading edge of a thin ellipse". Twelfth British Theoretical Mechanics Colloquium, University of East Anglia, Norwich, England,

March 1970.

# Department of Astronomy

GRAY, D. "Investigations of Temperatures and Other Factors Affecting Photomultiplier and LEVY, G. Sensitivity." National Committee for Canada International Astronomical

Union, U.W.O. September, 1969.

GRAY, D. "The Effect of Model Uncertainties in Spectral Analysis." National Committee

for Canada International Astronomical Union, U.W.O. September, 1969.

MARLBOROUGH, J.M. "Stellar Winds in Early Type Stars." Colloquium given at the University of

Michigan. December, 1969.

MARLBOROUGH, J.M. "Pleione's Last Shell Episode." Colloquium given at the University of Toledo.

February, 1970.

MARLBOROUGH, J.M. "Stellar Winds in Early Type Stars." U.W.O. Department of Astronomy.

January, 1970.

RICE, J.B. "An Oblique Rotator Model for the Magnetic and Spectrum Variable HD173650."

National Committee for Canada International Astronomical Union, U.W.O.,

September, 1969.

ROY, J.R. "The Moon and Planets." A Review of the Recent NATO Conference at Newcastle,

U.W.O. Department of Astronomy, May, 1970.

#### **Department of Botany**

CAVERS, P.B. "The Effects of Several Overwintering Treatments including Burial and Flooding

on the Subsequent Germination of Seeds of Rumex crispus L." International Botanical Congress, XIth, Seattle, Washington, U.S.A., August/September, 1969.

CAVERS, P.B. "Ecological Aspects of Seed Production and Germination in Weeds". Michigan

State University, East Lansing, November, 1969.

OANTEDO DE "Efferts of Engage Atlanta fullo De Art de Maire de Art

CAVERS, P.B. "Effects of Fragmentation of the Rootstock on Winter Survival and Subsequent and MAUN, M. A. Seed Production in Rumex crispus L." Weed Science Society of America, 1970

Meeting, Montreal, Quebec, February, 1970.

CUMMING, B.G. "Photoperiod and Endogenous Rhythms". (4 lecture/discussion sessions). U.S.

Soil Conservation Service Short Course, University of Nebraska, September, 1969.

232 CUMMING, B.G. "Endogenous rhy thms and photoperiodism in plants". International Symposium on Biochronometry, Friday Harbor, Washington. Sponsored by N.A.S.A., U.S. CUMMING, B.G. "Biological Rhythms". York University, November, 1969. "The effect of ultra-violet light on nuclear fusion in Ustilago violacea." DAY, A.W. Connecticut Agricultural Experimental Station, New Haven, October, 1969. "The use of Tomato Mutants in Studies of Flower Development".(demonstration) GREYSON, R.I. XIth International Botanic Congress, Seattle, Washington, August/ September 1969. GREYSON, R.I. "The Flower Meristem as an Embryological Tissue". Annual Meeting, Canadian Botanical Association, June, 1970. HAWTHORN, W.R. "Patterns of Change in Natural Populations of Two Weedy Species". Canadian Botanical Association Annual Meeting, Quebec City, P.Q., June, 1970. and CAVERS, P.B. "Incomplete haploidization in Ustilago violacea". Genetics Society of America, JONES, J. K. and DAY, A.W. Madison, August, 1969. "A possible role of DNA repair mechanisms in the fusion of nuclei of Ustilago JONES, J. K. and DAY, A.W. violacea". XI International Botanical Congress, Seattle, August/September 1969. MacINNES, K.L. "Reproductive Viology of Five Species of Pedicularis (Scrophulariaceae) in the and CAVERS, P.B. Low Arctic and Subarctic Transition Zone. I. Frequency of Flowering. II. Frequency of Fruiting". International Botanical Congress, XIth, Seattle, Washington, U.S.A., August/September, 1969. McKEEN, W.E. "The Powdery Mildew Disease". Macdonald College, Montreal, November, 1969. MAUN, M.A. "Viability of Curly Dock Seeds Harvested at Different Stages of Seed Maturaand CAVERS, P.B. tion". Weed Science Society of America, 1970 Meeting, Montreal, Quebec, February, 1970. MAUN, M.A. and CAVERS, P.B. Quebec City, P.Q., June, 1970. "Floral Induction in Kentucky Bluegrass". Agricultural Institute of Canada MAUN, M.A.

"Effects of Defoliation or Partial Flower Removal on Seed Production and Germination in Curled Dock". Canadian Botanical Association Annual Meeting,

and TEARE, I.D. and CANODE, C.L.

Meetings, University of Saskatchewan, Saskatoon, August, 1969.

ORLOCI, L.

"Information Theory Techniques for Classifying Plant Communities". Conference on Statistical Ecology, New Haven, August, 1969.

ORLOCI, L.

"Information Analysis in Phytosociology". Conference on Numerical Taxonomy, Cambridge, England, September, 1969.

ORLOCI, L.

"Classification of Plant Communities Based on Information". Symposium of International Society for Plant Geography and Ecology, Rinteln, Germany, March, 1970.

PHIPPS, J.B.

"Taxonomy as an Integrating Science". Queen's University, Kingston, January, 1970.

PHIPPS, J.B.

"Data on the Non-Specificity Hypothesis". Canadian Botanical Association Annual Meeting, Laval University, June, 1970.

SAWHNEY, V.K. and GREYSON, R.I.

"The Induction of Multilocular Ovary in Tomato (Lycopersicon esculentum) with Gibberellic Acid". Annual Meeting, Canadian Botanical Association, June, 1970.

SIDHU, S.S. and CAVERS, P.B.

"Dormancy of Attached and Detached Seeds at Different Stages of Maturity in Black Medick". Weed Science Society of America, 1970 Meeting, Montreal, Quebec, February, 1970.

STANIFORTH, R.J. and CAVERS, P.B.

"Water as a Vector for Fruit Dispersal in Polygonum lapathifolium L., P. pensylvanicum L. and P. persicaria L." Canadian Botanical Association Annual Meeting, Quebec City, P.Q., June, 1970.

STANIFORTH, R.J.

"The Distribution of Three Polygonum species near London, in relation to Soil Type and Land Use". 24th Technical Session on Biological Research, Ottawa, February, 1970.

VAN HUYSTEE, R.B. and VERMA, D.P.S.

"Leucine-H<sup>3</sup> Incorporation by Peanut Cells as Affected by Ionizing Radiation". XI Internatl. Botanical Congress at University of Washington, Seattle, August/September 1969.

WALDEN, D.B. and DOUGLAS, G.R.

"Chromosomal Replication Profiles from Root-Tips Nuclei of Zea mays". American Institute of Biological Sciences, Annual Meeting, Burlington, Vt., August, 1969.

WALDEN, D.B. and VERMA, R.S.

"Temperature and Nuclear Cycle Duration in Zea mays". Crop Science Society of America, Annual Meeting, Detroit, November, 1969.

WALDEN, D.B.

"Somatic Cell Genetics". Connecticut Agr. Expt. Sta., New Haven, December, 1969.

WALDEN, D.B.
WELLMAN, A.M.
and VOLESKY, B.

and ZAJIC, J.E.

"The Interphase Nucleus". Michigan State University, East Lansing, May, 1970. "Utilisation of Natural Gas by a Species of Graphium" Canadian Society of Microbiology, South Western Branch, London, Ontario, January, 1970.

# **Department of Chemistry**

BAIRD, N.C. "SCF-LCAO-MO Calculations for Planar and Twisted  $\pi\pi^*$  Triplets" ACS/CIC Joint Conference, Toronto, May, 1970.

BIDINOSTI, D.R. "Mass Spectrometric Studies on Metal-Metal Bonded Carbonyl Compounds"

Mt. Allison University, February, 1970.

BRAND, J.C.D. and KNIGHT, P.D.

"Influence of Substituents on the Structure of the <sup>1</sup>B<sub>2u</sub> State of Benzene" Molecular Spectroscopy Symposium, Columbus, Ohio, 1969.

CLARK, H.C.

"Substituent Effects on the Spectroscopic and Chemical Properties of Some Metal-Metal Bonded Compounds" ACS/CIC Meeting, Toronto, May, 1970.

CLARK, H.C.

"Metal Hydrides: Methods of Preparations and Spectroscopic Methods of Characterization" Noranda Research Centre, Pointe Claire, Quebec, March, 1970.

CLARK, H.C.

"Some Organic Chemistry of Heavy Transition Metals" Mt. Allison University, New Brunswick, The University of New Brunswick, N.B., March 1970.

CLARK, H.C.

"University-Industry Relations on the Canadian Chemical Scene" St. Mary's University, Nova Scotia, and Memorial University of Newfoundland, March, 1970.

CLARK, H.C.

"Some Organic Chemistry of Heavy Transition Metals" University of Guelph, and Brock University, St. Catharines, November, 1969.

HAINES, R.A. and KEAST, D.H.

"Racemization of the cis-Diaquobis (ethylenediamine) cobalt (III) Ion" Inorganic Discussion Weekend, sponsored by McMaster University, Brantford, Ontario, October, 1969.

HUNTER, D.H. and KIDD, R.G.

"An Integrated Course in Chemistry" Workshop on Curriculum Innovations, York University, Toronto, May, 1970.

JACOBS, P.W.M.

"Ionic Conductivity of Alkali Halide Crystals" University of Saskatchewan, Regina, Sask., February, 1970.

KIDD, R.G.

"Chemical Shifts in the NMR Spectra of Coordinated Metal Atoms" McMaster University Inorganic Discussion Weekend, Brantford, Ontario, October, 1969.

KIDD, R.G.

"Chemical Shifts in the NMR Spectra of Metal Atoms — an Illuminating Dicnotomy" Queen's University, December, 1969.

KIDD, R.G. and HUNTER, D.H.

"An Integrated Course in Chemistry." Higher Education Group, University of Toronto. Workshop on curriculum innovations in Arts and Science held at York University, May, 1970.

KING, J.F.

"Sulfene - Recent Work on an Elusive Intermediate" Colloquium at University of Windsor, September, 1969.

LORIMER, J.W.

"Transport of Water in Membranes" Biophysics Seminar, U.W.O., January, 1970.

LORIMER, J.W.

"Hydrodynamic Control of Transport Processes in Membranes" University of Victoria, March, 1970.

de MAYO, P.

"Photochemistry" Ecole de Physique et Chimie, U. of Paris, March, 1969.

de MAYO, P.

"Primycin" Ecole de Chimie et Physique, Univ. of Paris, March, 1969, and Institute of National Products, Gif-sur-Yvette, March, 1969.

de MAYO, P.

de MAYO, P.

"The synthesis of methyl isomarasmate" Chemical Society Symposium,

Oxford University, England, July, 1969.

de MAYO, P.

"Photochemistry of Nitrocompounds" Gordon Conference, New Hampshire, August, 1969.

MEATH, W.J.

"Intermediate and Long Range Atomic and Molecular Interactions" Third Canadian Symposium on Theoretical Chemistry, Toronto, August, 1969.

MEATH, W.J.

"Some Comments on Intermolecular Forces" Seminar, Department of Chemistry, University of Manitoba, March, 1969.

PAYNE, N.C. and DAVIS, B.R. and IBERS, J.A. "The Bonding of Molecular Nitrogen in Transition Metal Complexes — The Structure of Co H (N<sub>2</sub>) [P(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>] 3" Eighth International Congress of Crystallography, Stoneybrook, New York, August, 1969.

STOTHERS, J.B.

"Organic Application of <sup>13</sup>C NMR" University of Connecticut, Storrs, Conn., October, 1969. University of California, Davis, Calif., October, 1969. ACS/CIC Conference, Toronto, May, 1970. Gulf Research and Development, Pittsburgh, June, 1970.

WARNHOFF, E.W.

"The steroelectronic effect in halogenation of cyclohexanones" ACS/CIC Meeting, Toronto, May, 1970.

WARNHOFF, E.W.

"The steroelectronics of Ketone Halogenation" Sir George Williams University, Montreal, March, 1970.

WARNHOFF, E.W.

"The steroelectronic effect in halogenation of cyclohexanones" C.I.C. Hawkesbury, Ontario, and "Rearrangement of Acyloxy Ketones" on Cornwall, Ontario, December, 1969.

# **Department of Computer Science**

CARROLL, J.M.

"An Industrial Application of Computer Simulation". Western Ontario Chapter of the American Institute of Industrial Engineers, London, Ontario, November, 1969.

CARROLL, J.M. and ROLLOFFS, R.

"Computer Selection of Keywords Using Word Frequency Analysis". American Society for Information Science, San Francisco, California, October, 1969.

CARROLL, J.M. and McLELLAN, P.M.

"The Privacy Environment of Canadian Resource-Sharing Systems". Canadian Information Processing Society, Vancouver, British Columbia, June 1970.

CARROLL, J.M.

"Privacy and the Computer – An Interdisciplinary Enquiry". Computer Science Association, Winnipeg, Manitoba, June, 1970.

DEWDNEY, A.K.

"Neural Models". U.W.O., February, 1970.

DEWDNEY, A.K.

"Levels of Exposition in Graph Theory". University of Waterloo, Waterloo,

Ontario, April, 1970.

DUNHAM, C.B.

"Non-Standard Arithmetic". Mathematical Software Symposium, SICNUM,

Purdue University, Lafayette, Indiana, April, 1970.

NEWKIRK, Mrs. R.

"ALearner Control Strategy for Computer Assisted Instruction". Workshop in Computer Assisted Instruction Techniques, Waterloo Lutheran University, Waterloo, Ontario, November, 1969.

NEWKIRK, Mrs. R.

"A Comparison of Learner Control and Machine Control Strategies for Computer Assisted Instruction". Canadian Information Processing Society Conference, Vancouver, British Columbia, June, 1970.

SUTTIE, I.P.

"Use of Visual Media — Potential, Problems and Cost". Computer Science Discipline Committee, U.W.O., April, 1970.

SUTTIE, I.P.

"Computer Science 20 at The University of Western Ontario — A Case Study". Workshop on Educational Technology and the Professional Schools, O.I.S.E., Toronto, Ontario, May, 1970.

WILLIAMS, J.I. and CARROLL, J.M.

"Records – A Threat to Privacy". Ontario University Registrars' Association, London, Ontario, May, 1970.

### **Department of Geology**

CHANDLER, F.W. and YOUNG, G.M.

"Comparative Study of Three Huronian paraconglomerates". Presented April 15 at Symposium on Precambrian Sedimentation in the Canadian Shield, U.W.O., April, 1970.

CHURCH, W.R. and STEVENS, R.K.

"Mantle Peridotite and early Paleozoic ophiolite complexes of the Newfoundland Appalachians". Int. Symp. Mechanical Properties and Process of the Mantle, Flagstaff, Arizona, 1970.

DREIMANIS, A.

"The last ice age in the Eastern Great Lakes Region, North America" — "Methods of till investigations in North America" — "The dependence of the Composition of till upon the rule of bimodal distribution" VIII Congress of International Quaternary Association, Paris, France, September, 1969.

DREIMANIS, A.

"Till wedges as indicators of direction of glacial movement". Geological Society of America Annual Meeting, Atlantic City, N.J., November, 1969.

DREIMANIS, A.

"Effect of groundwater levels on stress history of the St. Clair clay till deposit". (invited discussion) 22nd Canadian Soil Mechanics Conference, December, 1969.

DREIMANIS, A.

"Bimodal distribution of rock and mineral fragments in basal tills". University of Guelph, January, 1970.

EDGAR, A.D.

"A Laboratory Approach to the Problems of Alkaline Rock Genesis". Invited lecture — McGill University, November, 1969.

EDGAR, A.D.

"The meaning of the term agpatic in the light of recent experimental studies". Experimental Petrology Symposium, Hamilton, Ontario, February, 1970.

EDGAR, A.D.

"Problems of compilation of data with reference to alkaline volcanics".

Symposium on Geochemistry of Volcanic Rock.

FARVOLDEN, R.N.

22nd Canadian Soil Mechanics Conference, Queen's University, December, 1969.

FARVOLDEN, R.N.

1969 Technical Conference, APE of Nfld. and Region X Engin., Inst. of Canada, St. John's, Nfld., – invited Hydrogeologic Aspects of Waste Disposal, October.

HUTCHINSON, R.W.

CIMM, Toronto, April, 1970.

HUTCHINSON, R.W.

Inst. Lake Superior Geology, Lakehead, Ontario, May, 1970.

STARKEY, J.

"A Refined Structure for Bytownite". International Union of Crystallography, Stoneybrook, New York, August, 1969.

STARKEY, J.

"Uber Die Struktur des Tiefalbits aus Klauften in den Glaucophanschiefern Kaliforniens". 47th Annual Meeting Deutsche Mineralogische Gesellschaft, Berne, Switzerland, September, 1969.

SUTTERLIN, P.G.

9th International Symposium on Techniques for Decision-Making in the Mineral Industries, Montreal, June, 1970.

WINDER, C.G. Mines Ministers' Conference – brief on behalf of ASPG, CIMM, and GAC

recommending the introduction of Earth Science in Canadian High Schools

(accepted).

YOUNG, G.M. "Widespread occurrence of aluminous minerals in Aphebian quartzites". Annual

Inst. on Lake Superior Geology, Thunder Bay, Ontario, May, 1970.

**Department of Geophysics** 

BECK, A.E. "Heat Flow in Ghana". Joint International Association of Seismology and

and MUSTONEN, E.D. Physics of the Earth's Interior — International Heat Flow Committee,

Symposium on Terrestrial Heat Flow, Madrid, September, 1969.

BECK, A.E. "Heat Production and Heat Flow in Sedimentary Formations." C.A.P. Annual

Meeting, Winnipeg, June, 1970.

CARMICHAEL, C.M. "Mid-Atlantic Ridge at 45°N, the Magnetic Properties of Dredged Samples".

The International Association of Geomagnetism and Aeronomy meetings in

Madrid, September, 1969.

CARMICHAEL, C.M.

and HAYATSU, A.

"Occlusion of Argon as a Cause of Excess Argon". Am. Geophys. Union Congress, Washington, April, 1970.

GURKAN, T.

and MEREU, R.F.

"The Interpretation of a Shallow Field Experiment by Conventional and Time-Term Methods of Analysis". C.A.P. Annual Meeting, Winnipeg, June,

1970.

HUNTER, J.A. "An Application of the Light Portable Seismograph Reflection Technique to

Mineral Exploration in the Canadian Shield". Utah Geophysical Society, Salt

Lake City, Utah, April, 1970.

JOBIDON, G.

and MEREU, R.F.

"Crustal Seismic Studies across the Grenville Front". C.A.P. Annual Meeting,

Winnipeg, June, 1970.

MANSINHA, L. "Polar Motions". NASA Seminar on Solid Earth and Ocean Physics.

Williamstown, Mass., August, 1969.

MANSINHA, L. "The Earth's Wobble". Annual meeting of the Indian Society of Earthquake

Technology, New Delhi, December, 1969.

MEREU, R.F. "Seismic Profile Across the Grenville Front in the Canadian Shield". The

International Association of Seismology and Physics of the Earth's Interior

"A Portable Inexpensive Seismic System for Crustal Studies". C.A.P. Annual

meetings in Madrid, September, 1969.

MEREU, R.F.

Meeting, Winnipeg, June, 1970.

and KOVACH, R.J.

PALMER, H.C. and ADE-HALL, J.M. and HUBBARD, T.P.

"Burial Metamorphism and the Magnetic Properties of Basalt Lavas". Am. Geophys. Union Congress, Washington, April, 1970.

SCHLOESSIN, H.H. and BECK, A.E.

"On the Pressure and Temperature Dependence of Lattice Thermal Conductivity of Enstatite, Silica and Pyrophyllite" Am. Geophys. Union Con-

gress, Washington, April, 1970.

**Department of Mathematics** 

ALI, M.M. "On Some Extremal Simplexes". Thirteenth Ontario Mathematics Meeting,

Waterloo, Ontario, December, 1969.

ALI, M.M. "On Structural Inference". Symposium on Information Theory, Hamilton,

Ontario, February, 1970.

BORWEIN, D. "Strong Summability". Sequence Spaces and Summability Colloquium,

Toronto, Ontario, March, 1970.

MOORE, J.T. "Some remarks on Differential Algebra". "Algebra Days at Queen's",

Kingston, Ontario, January, 1970.

NAYOR, D. "On a Bessel integral transform" University of Toronto, November, 1969.

VISWANATHAN, J.M. "A Compactness Property for Prime Ideals in Noetherian Rings". Meeting

of the American Mathematical Society, New York, New York, March, 1970.

<b>Department of Physics</b>	Depa	rtment	of	Phy	sics
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FORSYTH, P.A.

"Amplitude, Phase & Angle-of-Arrival Fluctuations". AGARD lecture series,

Eindhoven, The Netherlands, June, 1970.

FORSYTH, P.A.

"The Formation of Ionospheric Irregularities". AGARD lecture series,

Eindhoven, The Netherlands, June, 1970.

FORSYTH, P.A.

"Amplitude, Phase & Angle-of-Arrival Fluctuations". AGARD lecture

series, Ottawa, June, 1970.

FORSYTH, P.A.

"The Formation of Ionospheric Irregularities". AGARD lecture series, Ottawa,

June, 1970.

FRASER, P.A.

"Positronium in Helium". CAP meeting, Winnipeg, June, 1970.

GALLAHER, D.F.

"Proton-Hydrogen Scattering: The Search for Useful Expansion Basis". CAP

meeting, Winnipeg, June 1970.

GROCE, D.E. and COSTELLO, D.G. and McGOWAN, J. Wm. and HERRING, D.F. "Direct Measurement Technique for Low-Energy Positron Total Cross Sections".

VIth International Conference on the Physics of Electronic and Atomic Col-

lisions, Boston, July, 1969.

HAY, D.R.

"Films on Research Projects in Radio Meteorology". (Physics Department, U.W.O.; E.S.S.A., Boulder, Colorado) NATO Advanced Study Institute, University of

Western Ontario, London, August/September 1969.

KUCEROVSKY, Z. and BRANNEN, E. and SARJEANT, W.J.

"Absorption Line Characteristics using a Single Frequency Gas Laser". CAP meeting, Winnipeg, June, 1970.

LEUNG, L.C. and TONG, B.Y.

"Amorphous Substances — the Existence of Energy Gaps in their One-dimen-

sional Analogs". CAP meeting, Winnipeg, June, 1970.

McGOWAN, J.Wm.

"Three Body Systems". International Summer School on the Physics of Electron and Atomic Collisions, Bari, Italy, August/September 1969.

McGOWAN, J.Wm.

"Positron Scattering". International Summer School on the Physics of Electron and Atomic Collisions, Bari, Italy, August/September, 1969.

McGOWAN, J.Wm.

"General Understanding of Ionization Process". International Summer School on the Physics of Electron and Atomic Collisions, Bari, Italy, August/September, 1969.

McGOWAN, J.Wm.

"Photo Ionization". International Summer School on the Physics of Electron and Atomic Collisions, Bari, Italy, August/September, 1969.

McGOWAN, J.Wm.

"Mono-energetic Positron Scattering". Wayne State University, October 1969.

McGOWAN, J.Wm.

"Bouncing Electrons from Hydrogen Atoms". Canadian Association of Physicists Lecture, Dalhousie, Mount Allison, Acadia, St. Francis Xavier, Moncton, Prince Edward Island, University of New Brunswick, February, 1970.

McGOWAN, J.Wm.

"Positron Scattering from Helium Atoms". Université Laval, February, 1970.

McGOWAN, J.Wm

"Positron Scattering from Helium Atoms". Carleton University, March, 1970.

McGOWAN, J.Wm.

"Positron Scattering from Atoms". University of Virginia, May, 1970.

McGOWAN, J.Wm.

"Mono-energetic e+ Scattering". Summer Seminar on Positron Scattering in

Gases and Solids, Owen Sound, June, 1970.

McGOWAN, J.Wm. and WILLIAMS, J.F.

"Lyman-a Radiation from Electron Collisions with Simple Hydrogen Containing Molecules". VIth International Conference on the Physics of Electronic and Atomic Collisions, Boston, July, 1969.

McGOWAN, J.Wm. and WILLIAMS, J.F.

"The Effect of H2 Compound State Formation Upon Excitation in the Vacuum Ultraviolet". VIth International Conference on the Physics of Electronic and Atomic Collisions, Boston, July 1969.

PALMER, A.J. and McGOWAN, J.Wm.

"Charge Transfer Laser Excitation in the Cathode Region of a Glow Discharge". CAP meeting, Winnipeg, June, 1970.

SARJEANT, W. J. and KUCEROVSKY, A. and BRANNEN, E.

"A Water Vapor Laser with Compound Grating Resonators". CAP meeting, Winnipeg, June, 1970.

TONG, B.Y.

"My Recent Researches in Superfluids". Department of Mathematics, University of Hong Kong, July, 1969.

TONG, B.Y.

"Binary Alloys and Disordered Systems". Summer Conference on Fundamental Problems in Metals, Banff, August, 1969.

TONG, B.Y.

"Electronic Structures of One-dimensional Systems". International Conference on Amorphous and Liquid Semiconductors, Cambridge University (Cavendish Laboratory) September, 1969.

VROOM, D. A. and COMEAUX, A.R. and McGOWAN, J.Wm.

"Molecular Photoelectron Angular Distributions" VIth International Conference on the Physics of Electronic and Atomic Collisions, Boston, July, 1969.

VROOM, D.A and COMEAUX, A.R. and McGOWAN, J.Wm.

"Rare Gas Photoelectron Angular Distributions" VIth International Conference on the Physics of Electronic and Atomic Collisions, Boston, July, 1969.

### **Department of Zoology**

BATTLE, H.I.

University Women's Club, Woodstock, Ontario, September, 1969. Grade XIII Biology, Catholic Central Secondary School, London, May, 1970.

BOURNS, T.K.R.

Fanshawe College, Basic Genetics for Dog Breeders, April, 1970. Rutgers University, Medical Parasitology, three half-day sessions with the second year

class in medicine, May, 1970.

GEORGE, J.A.

"The Mercury Problem". Sarnia and District Labour Council — April, 1970. "Pollution". Mount Elgin Women's Institute, May, 1970.

"Population Problems". Tillsonburg Catholic Women's League, June, 1970.

HOLSWORTH, W.N.

Pollution Probe, April, 1970, Woodstock.

Environmental Teach-In, April, 1970, Port Huron, Michigan. Tri-County Pollution Probe Meeting, April, 1970, Chatham.

TV Interview — February, 1970, CFPL.
TV Interview — February, CTV network.

STEELE, J.E.

"How Muscles Work". Lecture to Grade XIII at Sarnia Collegiate Institute – May, 1970.

# FACULTY OF SOCIAL SCIENCE

#### **Department of Economics**

BLOMQVIST, A. G.

"Growth and Inflation in a Low Income, Primary Producing Economy, with Special Reference to Ghana". Department of Economics, University of Ghana, Accra, Ghana, February, 1970.

BODKIN, R. G.

"Wage Drift". McGill University, Montreal, December, 1969.

BODKIN, R. G.

"Consumption Categories in the United States". McMaster University,

Hamilton, January, 1970.

BODKIN, R. G.

"Determinants of Municipal Construction Expenditure in Ontario".

University of New Brunswick, Fredericton, March, 1970.

BODKIN, R. G.

"The Phillips Curve after 10 Years". Participant in seminar, University of

Windsor, Windsor, March, 1970.

BODKIN, R. G.

(Discussant) "Fiscal and Income Policies and Inflation in Canada". Hotson, J. H., Canadian Economics Association Meetings, Winnipeg, June, 1970.

BODKIN, R. G.	"Price Formation in Econometric Models". Queen's University, Kingston, June, 1970.
BROWN, T. M.	"The Use of Econometric Models for Determining an Optimal Growth Path". U.W.O Ghana Workshop, University of Ghana, Accra, Ghana, October, 1969.
CLARK, C. S.	"A Simple Model with Overhead Labor". Workshop in Economics, The University of Western Ontario, London, Ontario, December, 1969.
CONKLIN, D. W.	"Cost-Benefit Analysis". Participant in seminars, Canadian International Development Agency, Ottawa, Fall and Spring, 1969-70.
COURCHENE, T. J.	"Money, Growth and Macroeconomics: An Extension of The Mundell Analysis" Workshop in Economics, The University of Western Ontario, London, Ontario, October, 1969.
COURCHENE, T. J.	"Interprovincial Migration and Economic Adjustment". McMaster University, Hamilton, February, 1970.
COURCHENE, T. J.	"The Price-Specie-Flow Mechanism and the Gold Exchange Standard". Conference of International Monetary Economists, Madrid, March, 1970.
FISHER, G. R.	"Quarterly Dividend Behavior in the U.K. 1956-57" Workshop in Economics, The University of Western Ontario, London, Ontario, October, 1969.
FRIED, J.	"Liquidity, Expectations and the Neutrality of Money". Workshop in Economics, The University of Western Ontario, London, Ontario, March, 1970.
HERBERG, H.	"Factor Market Distortion, the Shape of the Locus of Competitive Outputs and the Relation between Produce Prices and Equilibrium Outputs". Workshop in Economics, The University of Western Ontario, London, Ontario, October, 1969.
HERBERG, H.	"On the Convexity of the Production Possibility Set Under General Production Conditions". Workshop in Economics, The University of Western Ontario, London, Ontario, February, 1970.
KADIYALA, K. R.	"Regression with Cauchy Disturbances". Workshop in Economics, The University of Western Ontario, London, Ontario, October, 1969.
KADIYALA, K. R.	"Estimating Regressions with Infinite Second Moments". Purdue University, December, 1969.
LEITH, J. C.	"Export Concentration and Instability: The Case of Ghana in the Nkrumah Period". Department Seminar, Department of Economics, University of Ghana, Accra, Ghana, March, 1970.
LEITH, J. C.	"The Competitive Performances of Ghanaian Exports in the Nkrumah Period". Department Seminar, Department of Economics, University of Ghana, Accra, Ghana, March, 1970.
MELVIN, J. R.	"Determinants of International Trade". Wayne State University, January, 1970.
MELVIN, J. R.	"Production Function with Intermediate Inputs". University of Chicago, February, 1970.

February, 1970.

PARAI, L.	"Canadian and Australian Post-War Immigration: Some Comparisons". Canadian Economics Association, Winnipeg, June, 1970.
PLOURDE, C. G.	"A Simple Model of Replenishable Natural Resource Exploitation". Workshop in Economics, The University of Western Ontario, London, Ontario, November, 1969.
REUBER, G. L.	"Some Issues of Economic Policy During the 1970's". Management Seminar, Goodyear Tire & Rubber Co., Toronto, November, 1969.
REUBER, G. L.	"International Capital Flows and Foreign Take-Overs: Canada, 1945-61" with F. Roseman as co-author, Conference on International Mobility and Movement of Capital, National Bureau of Economic Research, Washington and University of Chicago, February, 1970.
REUBER, G. L.	"Is Unemployment Necessary?" Toronto Star Forum, Toronto, April, 1970.
REUBER, G. L.	Participant in Seminar, World Peace Foundation, Boston, Mass., May, 1970.
TANNER, J. E.	"Dynamic Properties of the Money Income Relationship". Virginia Polytechnic Institute, December, 1969.
TANNER, J. E. and HODGINS, C. D.	"Forecasting Investment Expenditures". Workshop in Economics, The University of Western Ontario, London, Ontario, April, 1970.
TANNER, J. E. and DUSANSKY, R.	"Shifting of the Corporation Income Tax". Canadian Economics Association Meetings, Winnipeg, June, 1970.
TODA, Y.	"International Comparison of Consumption: An Index-Number Approach". Workshop in Economics, The University of Western Ontario, London, Ontario, March, 1970.
Department of Geography	
BUTLER, R. W.	"Summer Seasonal Homes in Scotland — Some Comparisons with Ontario".  Annual Meeting of the Canadian Association of Geographers, St. John's, August, 1969.
NICHOLSON, N. L.	"Canada in Six Atlases". International Commission on Atlases, Madrid, May, 1970.
PACKER, R. W.	"Quantitative Assessment of the Role of Gullying in Lake Shore Bluff Retreat".  Annual Meeting of the Canadian Association of Geographers, St. John's,  August, 1969.
PACKER, R. W.	"Training of Cartographers in Universities". Symposium on Cartography, University of Alberta, Edmonton, January, 1970.
PACKER, R. W.	"The Role of Rotational Landslip in Lake Shore Bluff Retreat". Canadian Association of Geographers, Winnipeg, June, 1970.
PLEVA, E. G.	"Summary". Ontario Housing Conference, Kingston, October, 1969.
PLEVA, E. G.	"The London Water Resources Decision-Making Process". National Water Resources Seminar, The University of Western Ontario, London, Ontario, October, 1969.
PLEVA, E. G.	"The Great Lakes Scenic Highway and Parks Systems". Great Lakes Lecture

Series, University of Toronto, November, 1969.

PLEVA, E. G.	"Geography in the Seventies". Protestant Teachers of Quebec, Montreal, November, 1969.
PLEVA, E. G.	"The Seventies as a Challenge". Northern Ontario Planning Conference, Sault Ste. Marie, November, 1969.
PLEVA, E. G.	"Conflict Between Fishing and Hunting and Urban Development in Southern Ontario". Ontario Federation of Anglers and Hunters, Annual Conference, Brantford, February, 1970.
PLEVA, E. G.	"Canada's Unique Geography and Its Effect on Economic Development". Panel. "Chemical Critique, Challenge and Response". ACS/CIC, Toronto, May, 1970.
PLEVA, E. G.	"Multiple Use of Resources". Symposium on Pollution Problems of our Environment, ACS/CIC, Toronto, May, 1970.
PLEVA, E. G.	"The Quality of the Canadian Environment in the Seventies". The University of Western Ontario Business Conference, London, Ontario, May 1970.
PLEVA, E. G.	"Regions and Problem Solving in Ontario". Registered Nurses Association of Ontario, Toronto, May, 1970.
PLEVA, E. G.	"The Meaning of Megalopolis". Ontario Water Resources Commission Conference, Niagara Falls, June, 1970.
PLEVA, E. G.	"The Urban Environment as a Measurable Mosaic of Elements". Trent University Environment Conference, Peterborough, June, 1970.
WHEBELL, C. F. J.	"The Australian Folk House: Some Observations". Canadian Association of Geographers (Southern Ontario Division), January, 1970.
Department of History	
ARMSTRONG, F. H.	"George Jervis Goodhue, London's First Millionaire". London and Middlesex Historical Society, London, Ontario, January, 1970.
ARMSTRONG, F. H.	"The Goodhue Brothers of St. Thomas and London". St. Thomas-Elgin Historical Association, St. Thomas, April, 1970.
ARMSTRONG, F. H.	"William Lyon Mackenzie, The Persistent Hero". Joint Meeting of Canadian Historical Association-American Historical Association, Winnipeg, June, 1970.
GUINSBURG, T. N.	"The Contours of American Foreign Policy in the Interwar Years". Michigan State University, East Lansing, Michigan, October, 1969.
GUINSBURG, T. N.	"The Revolution of Hope: What Role for the History Teacher?" Althouse Conference for History Teachers, The University of Western Ontario, London, Ontario, February, 1970.
HILBORN, K. H. W.	"Viet Nam: The Case for the Allies". Current Topic Club, London, Ontario, January, 1970.
HILBORN, K. H. W.	"Ideology and International Relations in the Twentieth Century". The University of Western Ontario History Conference for Secondary School Teachers, London, Ontario, February, 1970.
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"Cities and War". London and Middlesex Historical Society, London, Ontario,

HYATT, A. M. J.

February, 1970.

LANDER, J. R.	"1485: The End of the Great Divide". Queen's University, Kingston, Ontario, April, 1970.
McLAUGHLIN, J. P.	"The Music of the French Revolution". Central Secondary School, London, Ontario, October, 1969.
McLAUGHLIN, J. P.	"The Aims of History Teaching at School and University". Conference of Ontario Secondary School History Teachers, The University of Western Ontario, London, Ontario, February, 1970.
OGELSBY, J. C. M.	"Do We Really Need Closer Relations with Latin America?" Canadian Institute of International Affairs, St. John's, Halifax, Wolfville and Fredericton branches, December, 1969 and Bagotville, Sherbrooke, and Montreal branches, April, 1970.
OGELSBY, J. C. M.	"England vs. Spain in America, 1739-1748: The Spanish Side of the Hill". Canadian Historical Association, Winnipeg, June, 1970.
OGELSBY, J. C. M.	"The Cuban Revolution's First Decade". Canadian Institute of International Affairs, London, Ontario, May, 1970.
OGELSBY, J. C. M.	"Canadians View Latin America". University of Windsor International Affairs Meeting, Windsor, December, 1969.
OGELSBY, J. C. M.	"Canada, the U. S. and Latin America". Canadian Association of Latin American Studies Meeting, Winnipeg, June, 1970.
RUDD, C. A.	"Nineteenth Century Russian Autocracy and Reform". Quebec Association of Teachers of History and the History Association of Montreal, Sir George Williams University, Montreal, December, 1969.
STEELE, I. K.	"Time, Space, and Empire: Communications in Britain's Atlantic Empire, circa 1700". The University of Western Ontario History Conference, London, Ontario, February, 1970.
ZASLOW, M.	"A Historian Looks at the Canadian Indian Question". University of Waterloo History Club, Waterloo, January, 1970.

Department of Physical and Health Education		
BERZINS, E. K.	"Athletics and Motivation". Girls' Athletic Association Banquet, Oakridge Secondary School, London, Ontario, May, 1970.	
BERZINS, E. K.	"Athletics and Motivation". Girls' Athletic Association Banquet, Ingersoll District Collegiate Institute, Ingersoll, June, 1970.	
BERZINS, E. K.	"Activities in Grades 1, 2, 3". Elementary School Teachers of Middlesex County Conference, Strathroy, June, 1970.	
CUNNINGHAM, D. A.	"Physical Activity and Health". Victoria Hospital Nurses Alumni, London, Ontario, April and May, 1970.	
EYNON, R. B.	"Strength Training for Competitive Swimming". Toronto Secondary School Coaches, November, 1969.	
EYNON, R. B.	"Jogging Tips". The University of Western Ontario Women's Faculty Club, London, Ontario, November, 1969.	
EYNON, R. B.	"Competitive Swimming Techniques". Camp Borden Armed Forces Aquatic Specialists, January, 1970.	

EYNON, R. B.	"Girls' Athletics". Sir Wilfred Laurier Athletic Banquet, London, Ontario, June, 1970.
GONSER, G. I.	Panel. "Little League Sports". Clara Brenton School, London, Ontario, April, 1970.
GONSER, G. I.	Clinic. "Basketball". Cub Scouts of Mountsfield School, London, Ontario, May, 1970.
GONSER, G. I.	"Academics and Athletics". Academic Banquet, Glendale High School, Tillsonburg, May, 1970.
GONSER, G. I.	"Athletic Scholarships". East Elgin High School's Athletic Banquet, St. Thomas, May, 1970.
HILL, J. S.	"A Review of Research Carried Out in the Area of Frequency of Exercise".  Department of Physical and Health Education Graduate Program, London,  Ontario, July, 1969.
HILL, J. S.	Soccer Clinic. Althouse College of Education Summer School, London, Ontario, July, 1969.
HILL, J. S.	"Fitness Today". Y.M.C.A. Men's Group, London, Ontario, October, 1969.
HILL, J. S.	"The Place of Physical Fitness in Total Health". Robinson Memorial United Church, London, Ontario, November, 1969.
L'HEUREUX, W. J.	"Curriculum Changes in Physical Education". Regional O.S.S.T.F. Conference, London, Ontario, October, 1969.
L'HEUREUX, W. J.	"Recreation Facilities and Needs". P.T.A. Panel, Blessed Sacrament Separate School, London, Ontario, December, 1969.
L'HEUREUX, W. J.	"Is There Room for a Little Boy Here?" Professional Development Day, Sir John A. MacDonald Public School, London, Ontario, February, 1970.
L'HEUREUX, W. J.	"The Amateur Ideal". Ontario Community Colleges Hockey Tournament, Fanshawe College, London, Ontario, March, 1970.
L'HEUREUX, W. J.	"The National Team Concept". The University of Western Ontario Rowing Club Banquet Panel, London, Ontario, March, 1970.
L'HEUREUX, W. J.	"The Pursuit of Excellence in School Sport". Ridgetown High School Athletic Banquet, Ridgetown, May, 1970.
PATON, G. A.	"The Importance of CAHPER to the Profession". Physical Education Students, McMaster University, Hamilton, October, 1969.
PATON, G. A.	"Physical Education and Rural Living". Mount Brydges Junior Farmers, March, 1970.
PATON, G. A.	Physical Education Curriculum Seminar, Moderator of Reacting Panel, Althouse College of Education, London, Ontario, June, 1970.
PETRIE, B. M.	"Whatever Happened to Education for Leisure?" Curriculum Development Conference, Althouse College of Education, London, Ontario, June, 1970.

PETRIE, B. M.	"The Implementation of the Honorable John Munro's Proposed Sports Policy for Canadians". Consultant, Canadian Sports Committee, Fitness and Amateur Sport Directorate, Department of National Health and Welfare, Ottawa, May, 1970.
PETRIE, B. M.	Seminar. "Sociology of Sport". McMaster University, Hamilton, May, 1970.
RICHARDSON, J. R.	"Cross Modality Matching for Strength and Muscular Endurance: A Psycho- physical Approach". Motor Learning Symposium, University of Alberta, Edmonton, October, 1969.
RICHARDSON, J. R.	"The Motivation of Athletes". Institute de Medicina Deportiva — Escuela Superior de Education Fisica, Havana, January, 1970.
RICHARDSON, J. R.	"Involvement in National Sport — Capitalism vs. Communism". P.E.C.E.P.O.Q. 1970 Conference, London, Ontario, February, 1970.
RICHARDSON, J. R.	"Water Polo In Canada — A Developmental Approach". F.I.N.A. International Water Polo Committee Congress, Budapest, May, 1970.
SMITH, G. J.	"Offensive Backfield Play". London District High School Football Coaches Clinic, London, Ontario, May, 1970.
SMITH, G. J.	"Sport and Society". Ingersoll Collegiate Institute, Ingersoll, June, 1970.
TAYLOR, M. J.	"Technique of Officiating Basketball". Basketball Officiating Course for London High School Students, London, Ontario, October - November, 1969.
VIGARS, R. J.	"Professionalism in Athletics". Strathroy District High School Athletic Banquet, Strathroy, June, 1970.
WATSON, R. C.	"Analysis of Basic Fundamentals". Hockey Coaches Clinic, Kitchener - Waterloo, October, 1969.
WATSON, R. C.	"Forward Skating". Hockey Coaches Clinic, Kitchener – Waterloo, October, 1969.
YUHASZ, M. S.	"Physical Exercise for Cardiac Rehabilitation". Canadian Physiotherapy Association, Annual Convention of the Ontario Hospital Association, October, 1969.
YUHASZ, M. S.	"The Value of Physical Activity for Graduate M.B.A. Students". The University of Western Ontario, London, Ontario, September, 1969.
YUHASZ, M. S.	Wrestling Officials Clinic. The University of Western Ontario, London, Ontario, October, 1969.
YUHASZ, M. S.	"Exercise for Slimming and Trimming". YMCA, London, Ontario, October, 1969.
YUHASZ, M. S.	"The Cardiac Exercise Program at U.W.O." Victoria Hospital Nurses, London, Ontario, October, 1969.
YUHASZ, M. S.	"The Components of an Exercise Workout for Cardiacs". Post-Graduate Course on Cardiology and Cardio-Vascular Surgery for Physical Therapists, Toronto, November, 1969.
YUHASZ, M. S.	Physical Fitness Appraisal Clinic. YMCA, London, Ontario, November, 1969.
YUHASZ, M. S.	Midwest Regional Workshop. YMCA, Winnipeg, November, 1969.

YUHASZ, M. S.	"The Need to Strengthen the Professional Physical Education Association".  Atlantic Provinces Physical Education Association, Charlottetown, November, 1969.
YUHASZ, M. S.	"A Criticism of the Task Force Reports". Ontario Universities Physical Education Annual Meeting, Windsor, December, 1969.
YUHASZ, M. S.	"The Cardiac Exercise Research Study at U.W.O." The University of Western Ontario Physical Therapy Class, London, Ontario, December, 1969.
YUHASZ, M. S.	"CAHPER and You". London Secondary School Physical Education Department Heads, London, Ontario, February, 1970.
YUHASZ, M. S.	"Exercise in Post-Cardiac Rehabilitation". Laval Hospital, Quebec City, February, 1970.
YUHASZ, M. S.	YMCA National Fitness Workshop, Hamilton, March, 1970.
YUHASZ, M. S.	"The Science of Physical Education". P.E.C.E.P.O.Q. Student Conference, March, 1970.
YUHASZ, M. S.	"The Physical Educator Today and Tomorrow". University of Windsor, Windsor, March, 1970.
YUHASZ, M. S.	"Surviving the 70's". Society of the Plastics Industry of Canada, Toronto, April, 1970.
YUHASZ, M. S.	"Modern Trends and New Directions for CAHPER". Saskatchewan Physical Education Association, Regina, April, 1970.
YUHASZ, M. S.	Women's Physical Fitness Clinic. YWCA, Regina, April, 1970.

YUHASZ, M. S.	Women's Physical Fitness Clinic. YWCA, Regina, April, 1970.
Department of Political Scie	nce
BEECROFT, E. A.	"Urban Transportation Policy". National Policy Conference of the Progressive-Conservative Party, Niagara Falls, October, 1969.
BEECROFT, E. A.	Summary address concluding the Seminar on Municipal Finance. University of Saskatchewan, Saskatoon, December, 1969.
BEECROFT, E. A.	Opening address. University of Windsor Seminar on Regional Government, Windsor, February, 1970.
BEECROFT, E. A.	"Interprofessional Cooperation in the Planning and Administration of Urban Development". Seminar sponsored by the Town Planning Institute of Canada and graduate planning students of the University of Waterloo, Waterloo, May, 1970.
BEECROFT, E. A.	Keynote address. Annual Conference of the Canadian Federation of Mayors and Municipalities, Halifax, June, 1970.
DOBELL, W. M.	"Canadian Policy on Peacekeeping in Cyprus". Address to representatives of Departments of External Affairs and National Defence, Ottawa, July, 1969.
KHANH, H. K.	"Background of the Vietnamese August Revolution: A Revisionist's View". Association of Asian Studies Annual Meeting, San Francisco, April, 1970.

KHANH, H. K. "The Viet Minh Front as Organizational Weapon". Seminar Paper given for Southeast Asian Studies Program, Cornell University, Ithaca, New York, May, 1970. "Political Parties and Elite Accommodation: Interpretations of Canadian NOEL, S. J. R. Federalism". Canadian Political Science Association, Winnipeg, June, 1970. Department of Psychology "Responses of the Male Mongolian Gerbil to Biological Odors Produced in BARAN, D. Conspecific-Inhabited Areas". Eastern Psychological Association, Atlantic City, April, 1970. DENNY, J. P. "The Elimination of Empirical Biases in Experimental Psychology as Exemplified in the Discovery of Concept Formation Strategies having Deductive, Concrete, and Inductive Components". International Congress of Psychology, London, England, July, 1969. DENNY, J. P. "The Need for the Concrete as well as the Formal Level of Functioning in Cybernetic Models of Human Conceptual Thinking". International Congress of Cybernetics, London, England, September, 1969. DENNY, J. P. "Effects of Category Labelling on Difficulty of Learning Conditional and Biconditional Conceptual Rules". Canadian Psychological Association, Winnipeg, May, 1970. JACKSON, D. N. "The Dynamics of Structured Personality Tests: 1970". The University of Western Ontario Colloquium, London, Ontario, November, 1969. "Maximum Specificity for a Set of Variables". Society for Multivariate JACKSON, D. N. and NEILL, J. A. Experimental Psychology, Morgantown, W. Va., November, 1969. JACKSON, D. N. "The Assessment of Psychopathology with the Differential Personality Inventory". Lakeshore Psychiatric Hospital, Toronto, February, 1970. "Component Scores for Multimethod Factor Analysis". Psychometric Society, JACKSON, D. N. Stanford, Calif., March, 1970. JACKSON, D. N. "Conceptions of Personality Structure: Universal or Unique?" Midwestern Psychological Association, Cincinnati, April, 1970. and BURRON, B. F. "Convergent and Discriminant Validation of the Differential Personality JACKSON, D. N. Inventory". Midwestern Psychological Association, Cincinnati, April, 1970. and CARLSON, K. A. JACKSON, D. N. "The Effects of Informational Characteristics Upon the Perception of Hypothetical and Real Target Persons". Canadian Psychological Association, and BURRON, B. F. Winnipeg, May, 1970. and CARLSON, K. A. and GETTY, R. G. "Reinforcing Effects of Stimuli Associated with S\(^{2}\)". Michigan Academy of KENDALL, S.B. Arts, Science, and Letters, Detroit, April, 1970.

KIMURA, D. "Verbal and Nonverbal Processing as Revealed by Studies of Brain Asymmetry".Colloquium, State University of New York at Buffalo, May, 1970.

April, 1970.

KIMURA, D.

"Visual Field Differences in Perception of Depth and Slant of Line".

(Sponsor for M. Durnford). Eastern Psychological Association, Atlantic City,

KIMURA, D.	"Some Normal Studies on the Neural Basis of Verbal and Nonverbal Function" 15th International Neuropsychological Symposium, Cambridge, England, June, 1970.
LOBB, H.O.	"Pretraining Retarded and Normal Children for Discrimination Learning".  Canadian Psychological Association, Winnipeg, May, 1970.
LOBB, H.O.	"Attention in the Mentally Retarded". Invited Discussant, Canadian Psychological Association, Winnipeg, May, 1970.
MOGENSON, G.J.	"Relationship Between the Rewarding Effects of Hypothalamic Stimulation and an Activation of Pathways Related to Specific Drives". Third Annual Winter Conference on Brain Research, Aspen, Colorado, January, 1970.
MOGENSON, G.J.	"Biological Approaches to the Study of Reward Mechanisms". Symposium Chairman, Third Annual Winter Conference on Brain Research, Aspen, Colorado, January, 1970.
MOGENSON, G.J. and WISHART, T.	"Depression of Drinking by Electrical Stimulation of the Septum of the Rat". Eastern Psychological Association, Atlantic City, April, 1970.
MOGENSON, G.J.	"Graduate Education in the 1970's". Symposium on Graduate Education. Canadian Psychological Association, Winnipeg, May, 1970.
MOGENSON, G.J.	"Control Systems Analysis of the Regulation of Water and Energy Balance". U.S. Army Natick Laboratory, Natick, Massachusetts, May, 1970.
MOGENSON, G.J. and STEFFENS, A.B. and STEVENSON, J.A.F.	"Effects of Electrical Stimulation of the Feeding System of the Hypothalamus on Blood Glucose and Free Fatty Acids". Canadian Federation of Biological Sciences, Montreal, June, 1970.
MURRAY, H.G. and GRIESBAUER, P. and CONTRERAS, R.	"Role of Contiguity in Incidental Paired — Associate Learning". Canadian Psychological Association, Winnipeg, May, 1970.
PAIVIO, A.U.	"Imagery, Memory, and Language". Psychology Colloquium address, University of Manitoba, Winnipeg, November, 1969.
PAIVIO, A.U.	"Imagery, Memory, and Language". Psychology Colloquium address, Indiana University, December, 1969.
PAIVIO, A.U.	"Imagery, Memory, and Language". Central Pennsylvania Lecture Series, Lycoming College, February, 1970.
PAIVIO, A.U.	"Imagery in Natural Language". Symposium address, American Educational Research Association, Minneapolis, March, 1970.
PAIVIO, A.U.	"Imagery, Memory, and Language". Psychology Colloquium, University of Guelph, April, 1970.
PAIVIO, A.U.	"Imagery, Memory, and Language". Psychology Colloquium, University of Waterloo, April, 1970.
PAIVIO, A.U. and ERNEST, C.H.	"Verbal and Imaginal Associative Reaction Times to Noun Stimuli as a Function of Imagery Ability". Canadian Psychological Association Meetings, Winnipeg, May, 1970.
	NAME AND ADDRESS OF THE PARTY O

"Word Meaning and Ear Differences in Dichotic Listening". Canadian Psycho-

logical Association Meetings, Winnipeg, May, 1970.

PAIVIO, A.U.

and O'NEILL, B.J.

PAIVIO, A.U. and PHILIPCHALK, R.	"The Development of Effective Concreteness in Verbal Stimuli". Canadian Psychological Association Meetings, Winnipeg, May, 1970.
PAIVIO, A.U. and ROWE, E.J.	"Effect of Word Attributes in Verbal Discrimination". Canadian Psychological Association Meetings, Winnipeg, May, 1970.
PAIVIO, A.U.	"Imagery and Language". Conference on "The Adaptive Function of Imagery", Center for Cognition and Affect of the City University of New York, June, 1970.
PAIVIO, A.U.	A series of four lectures on Imagery at a special Summer Session Graduate Seminar, entitled "Cognitive, Linguistic, Learning and Developmental Aspects of Imagery". State University of Buffalo, June, 1970.
REITZ, W.E.	"Personal Reinforcement and Awareness". Eastern Psychological Association, Atlantic City, April, 1970.
REITZ, W.E. (sponsor) and GUTHWIN, J.	"Effects of Similarity on Interpersonal Attraction and Expectation". Eastern Psychological Association, Atlantic City, April, 1970.
REITZ, W.E. (sponsor) and KONOPASKY, R.	"Effects of Personal and Social Desirability on Reinforcing Properties of Self Attitudes". Eastern Psychological Association, Atlantic City, April, 1970.
ROGERS, T.R.	"Computer Simulation of the MMPI Factor Structure". Canadian Psychological Association, Winnipeg, May, 1970.
ROLLMAN, G.B.	"Detection of Tactile Pulses". Midwestern Psychological Association, Cincinnati, May, 1970.
SIESS, T.F. and HEAPY, N.	"Behavioral Consequences of Impression Formation: The Effects of Prior Information on Teachers' Essay Marks". Eastern Psychological Association, Atlantic City, April, 1970.
SIMNER, M.L.	"Auditory Self-Stimulative Feedback and Reflexive Crying in Human Infants".  Eastern Psychological Association, Atlantic City, April, 1970.
STRETCH, R.G.A.	"Amphetamine Self-Administration in Monkeys". Invited Lecture, Department of Psychology, University of Alberta, Edmonton, October, 1969.
STRETCH, R.G.A. and ORLOFF, E.R. and GERBER, G.J.	"Multiple Interruptions of Responding Maintained by a Fixed-Interval Schedule of Electric-Shock Presentation". Psychonomic Society, St. Louis, October, 1969.
STRETCH, R.G.A.	"Schedule-Controlled Patterns of Drug Self-Administration in Monkeys". Invited Lecture, Addiction Research Foundation, Toronto, December, 1969.
STRETCH, R.G.A.	"Drugs and Operant Behavior". Colloquium address, Department of Psychology, University of Saskatchewan, Saskatoon, February, 1970.
STRETCH, R.G.A.	"Behavioral Consequences of Amphetamine Administration in Squirrel Monkeys". Symposium on Schedule-Induced and Schedule-Dependent Phenomena sponsored by the Addiction Research Foundation of Ontario, Toronto, May, 1970.
STRETCH, R.G.A.	"Amphetamine Self-Administration in the Squirrel Monkey". Canadian Federation for Biological Sciences, Montreal, June, 1970.

"Is Hippocampal Electrical Activity Altered by Training?" Psychonomic

Society, St. Louis, November, 1969.

VANDERWOLF, C.H.

and WHISHAW, I.Q.

VANDERWOLF, C.H. and BLAND, B.H.

"Effects of Hypothalamic Stimulation on Behavior and Hippocampal EEG".
Eastern Psychological Association, Atlantic City, April, 1970.

VANDERWOLF, C.H. and BLAND, B.H.

"Effects of Dentate Gyrus Stimulation on Behavior and Hippocampal Electrical Activity". Canadian Physiological Society, Montreal, June, 1970.

VANDERWOLF, C.H. and WHISHAW, I.Q.

"Hippocampal Correlates of Movement". Canadian Physiological Society, Montreal, June, 1970.

VIDMAR, N.J. and FERGUSON, D.A.

"Effects of Group Discussion on Estimates of Culturally Appropriate Risk Levels". Eastern Psychological Association, Atlantic City, April, 1970.

VIDMAR, N.J. and BURDENY, T.C.

"Effects of Group Size and Item Type in the 'Risky Shift' Effect".

Midwestern Psychological Association, Cincinnati, May, 1970.

VIDMAR, N.J. and FERGUSON, D.A.

"Familiarization Induced Risky and Cautious Shifts: A Replication of Sorts". Midwestern Psychological Association, Cincinnati, May, 1970.

### **Department of Sociology**

ALLINGHAM, J.D. "Analysis of Oral Contraceptive Use Through Multiple Decrement Life Table and BALAKRISHNAN, T.R. Techniques". Population Association of America, Atlanta, Georgia, April, 1970. and KANTNER, J.F.

EBANKS, G.E. and KAYANI, A.

"Factors Affecting Barbados Women of Lower Socio-Economic Status".
Canadian Sociological and Anthropological Association, Winnipeg, Manitoba, May, 1970.

GEORGE, P.M.

"The Model of Man and the Problem of Understanding". XXIInd International Congress of Sociology, Rome, Italy, September, 1969.

GEORGE, P.M.

"Social Factors Affecting the Educational Aspirations of High School Students". Canadian Sociological and Anthropological Association, Winnipeg, Manitoba, May, 1970.

GEORGE, P.M. and OKRAKU, I.

"College Education and Religion". Canadian Sociological and Anthropological Association, Winnipeg, Manitoba, May, 1970.

GESCHWENDER, J.A. and SINGER, B.D.

"Social Isolation and Riot Participation". American Sociological Association, San Francisco, California, September, 1969.

GESCHWENDER, J.A. and SINGER, B.D.

"Status Consistency, Relative Deprivation and The Detroit Riot". American Sociological Association, San Francisco, California, September, 1969.

GESCHWENDER, J.A. and SINGER, B.D.

"The Detroit Insurrection: Grievance and Facilitating Conditions". Ohio Valley Sociological Association, Columbus, Ohio, May, 1970.

NOBBE, C.E.

"Doctrinal Orthodoxy and Social Deprivation". American Sociological Association, San Francisco, California, September, 1969.

RINEHART, J.W.

"Working Class Politics". Ohio Valley Sociological Society, Columbus, Ohio, May, 1970.

WILLIAMS, J.I.

"A Threat to the Privacy of an Individual". Dialogue '70. Ontario Universities' Registrars' Association, The University of Western Ontario, London, Ontario, May, 1970.

WILLIAMS, J.I. "Planning Change in Health Professional Roles". Public Health Nurses Workshop,

The University of Western Ontario, London, Ontario, May, 1970.

WILLIAMS, J.I. "Evaluative Research in Hospital Care". Nurses Workshop, Victoria Hospital,

London, Ontario, March, 1970.

### **FACULTY OF MUSIC**

DOWNS, P. "Problems of Stylistic Change in the Baroque", Symposium II: The Baroque,

Ontario Music Educators' Association, University of Western Ontario, January,

1970.

HAENSELMAN, C. "Toward a Theory of Rhythm", Canadian Association of University Schools of

Music, University of Manitoba, June, 1970.

McKellar, D. "The Role in Music Education of the University Faculties of Music in Ontario",

Ontario Music Educators' Association, Toronto, March, 1970.

#### **FACULTY OF MEDICINE**

**Department of Anatomy** 

HOSHINO, K. "Histogenesis and carcinogenesis of mouse mammary isografts." Joint Seminar of

the Department of Anatomy, University of Texas, and the Southwest Founda-

tion for Research and Education, San Antonio, May, 1970.

MONTEMURRO, D.G. "The effect of fore-brain intervention on the genesis of spontaneous mammary

gland cancer in mice." Department of Pathology, State University of New York

at Buffalo, April, 1970.

SINGH, R.P. "The use of sex chromatin and dermatoglyphic analysis in screening large

populations." Annual Meeting, American Association of Physical Anthropologists,

Washington, March, 1970.

#### Department of Bacteriology and Immunology

BEHME, R.

and FITZ-JAMES, P.C.

"An unstable sporulating variant of <u>Bacillus megaterium</u> KM." 15th Annual

Meeting, The Genetics Society of Canada, May, 1970.

BOURGEOIS, R.

and MURRAY, R.G.E.

and WILKINS, P.O.

"Cold Temperature Responses of Listeria monocytogenes and Erysipelothrix rhusiopathiae." Canadian Society of Microbiologists, June, 1970.

CROTHERS, S.F.

and FACKRELL, H.G. and ROBINSON, J.

"Relationship between Bdellovibrio bacteriovorus and Autoclaved Host Bacteria." Canadian Society of Microbiologists, Halifax, June, 1970.

CROTHERS, S.F. and ROBINSON, J.

"Parasitization of Escherichia coli by Bdellovibrio bacteriovorus." Canadian Society of Microbiologists, Halifax, June, 1970.

FACKRELL, H.B. and CAMPBELL, G.K. and ROBINSON, J.

"Isolation and Characterization of a Bacteriolytic Enzyme Produced by Bdellovibrio bacteriovorus 6-5-S." Canadian Society of Microbiologists, Halifax, June, 1970.

FITZ-JAMES, P.C.

1.

I. "Structural and Chemical Events throughout the process of bacterial spore formation." II. "A Comparison of the formation of parasporal inclusions in Bacillus thuringiensis and Bacillus medusa." III. "Structural and biochemical studies of membrane synthesis." IV. "Monorails' on the surface of Bacillus

membranes—Their nature and significance." Invitation lectures in Microbiology,

McGill University, January, 1970.

"Recent Structural and Chemical Studies of the Sporulation Process in Bacillus species". Food and Drug Directorate, Ottawa, November, 1969.

HUSSAIN, R. and STREJAN, G.

"Naturally occurring Anti-'O' cryoagglutinins in rabbits." Federation of Biological Societies, Montreal, June, 1970.

IONEDA, T. and LEDERER, E. and ROZANIS, J.

"The structure of Diesters of Trehalose ('Cord Factors') produced by Nocardia asteroides and Nocardia rhodochrous." Roussel UCLAF Round Table, "Maison de le Chimie", Paris, March, 1970.

McCULLY, K. and ROBINOW, C.F.

"Mitosis in Candida scottii." Federation of Biological Societies, Montreal, June, 1970.

MEDZON, E.L. and GEDIES, A.

"Substitution of HEPES for Bicarbonate buffer in animal cell culture media." Canadian Society of Microbiologists, Halifax, June, 1970.

MEDZON, E.L. and CREIGHTON, M.O.

"Properties of parasynchronous LM mouse fibroblasts isolated by density gradient centrifugation." Federation of Biological Societies, Montreal, June, 1970.

MURRAY, R.G.E.

"Morphological approaches to unravelling bacterial cell wall structure".

Graduate lecture in School of Hygiene, University of Toronto, February, 1970.

MURRAY, R.G.E.

"Macromolecular arrangements in bacterial cell walls." Contribution to Round Table on the Regulation of Cell Wall Structure. Annual Meeting of the American Society for Microbiology, Boston, April, 1970.

MURRAY, R.G.E.

"Structural observations of Spirillum sinuosum". Canadian Society of Microbiologists, Halifax, June, 1970.

RAMDIAL, B.

"The survival of organisms in sputum — a comparison of liquifaction techniques". Canadian Public Health Association Meeting (Laboratory Section), Toronto, November, 1969.

ROZANIS, J. and LEDERER, E.

"Nocardia and Mycolic acids". Centro de Microscopia Electronica, Porto-Portugal, April, 1970.

SINGHAL, S.K.

"Induction of tolerance of antigen-reactive noraml bone marrow cells". University of California, November, 1969.

SINGHAL, S.K.

"Antigen specific receptors on the surface of bone marrow immunocytes". International Symposium on Cell Interactions in the Immune Response. Sigrid Juselius Foundation, Helsinki, June, 1970.

STREJAN, G. and CAMPBELL, D.H.

"Production of rabbit — anti Ascaris homocytotropic antibodies". Federation of the American Societies of Experimental Biology Meeting, Atlantic City, April, 1970.

WILKINS, P.O.

"Transport and Binding of galactose by Streptococcus faecalis". Canadian Society of Microbiologists, Halifax, June, 1970.

#### Department of Biophysics

BURTON, A.C.

"The Relevance of Physics in the World of Living Things". Undergraduate Physics Conference, Canadian Association of Physicists, University of Waterloo, October, 1969.

BURTON, A.C.

"The Stretching of the Pores of Biological Membranes". University of Virginia, February, 1970.

BURTON, A.C. and FERGUSON, G.G. and ROACH, M.R. "Sound in the Human Body". (Replay of T.V. Film with Comments). Acoustical Society of Canada, May, 1970.

"A Biophysical Look at the Arterial Wall in Health and Disease". Special Interdisciplinary Lecture, The University of Western Ontario, February, 1970.

ROACH, M.R.

ROACH, M.R.

"The Effect of Stenoses and Bifurcations on Flow and on the Arterial Wall".

Euromech Colloquium XII, Warsaw, September, 1969.

ROACH, M.R.

"The Role of Arterial Wall Elastic Tissue in Hamostasis". International Committee on Haemostasis and Thrombosis, Bath, England, October, 1969.

ROACH, M.R. "The Mechansim of Contraction of Umbilical Arteries". Nuffield Institute

for Medical Research, Oxford, 1969.

ROACH, M.R. "The Importance of Bifurcations in the Circulation". University of Oxford,

October, 1969.

# **Department of Clinical Neurological Sciences**

BARNETT, H.J.M. Conference on Cerebral Vascular Disease, Princeton, New Jersey, January,

1970.

BARNETT, H.J.M. Medical Progress Lecture Series, Royal College of Physicians and Surgeons,

Montreal, January, 1970.

BARNETT, H.J.M. "The Neurological Sequelae of Neck Injuries". The Medico-Legal Society,

Kingston, February, 1970.

BARNETT, H.J.M. "Involuntary Movements". Neurology Seminar, Buffalo, N.Y., April, 1970.

BARNETT, H.J.M. "Dementia – Newer Knowledge & Treatable Conditions" and "Peripheral

Neuropathies due to Violent Effort". North Pacific Society of Neurology

and Psychiatry, Vancouver, B.C., April, 1970.

BARNETT, H.J.M. "Post-traumatic Syringomyelia". Harvey Cushing Society, Washington, April,

1970.

DRAKE, C.G. "On the Surgical Treatment of Intracranial Aneurysms". Annual Congress of

the International College of Surgeons, Montreal, September, 1969.

DRAKE, C.G. "Vertebral Basilar Aneurysms". XIII Latin American Congress of Neuro-

surgery, Bogota, Colombia, September, 1969.

DRAKE, C.G. "Head Injuries" and "Surgical Management of Cerebralvascular Accidents".

Oklahoma City Clinical Society, 39th Annual Fall Conference, Oklahoma

City, October, 1969.

DRAKE, C.G. "Surgical Approaches to Aneurysms of the Basilar and Vertebral Arteries".

The Cleveland Clinic Educational Foundation, Cleveland, Ohio, November,

1969.

DRAKE, C.G. Discussion of William F. McCormick's paper on: "Problems of Pathogenesis

of Intracranial Arterial Aneurysms" and Discussion of Lindsay Symons' paper on: "Vasospasm in Aneurysms". Princeton Conference on Cerebra! Vascular

Disease, Princeton, N.J., January, 1970.

DRAKE, C.G. "General Philosophy of the Treatment of Aneurysms" and "Treatment of

Aneurysms and Angiomas of the Posterior Fossa". Your Stroke Patient.

A Symposium Sponsored by: Regional Medical Program Area VII,

Coronado, California, February, 1970.

DRAKE, C.G. "Ruptured Intracranial Aneurysms". The Royal Society of Medicine,

London, England, March, 1970.

DRAKE, C.G. "Basilar Aneurysm Surgery". Hollan Neurosurgical Society, Amsterdam,

Holland, March, 1970.

DRAKE, C.G. "How-I-Do-It Clinic". American College of Surgeons Joint Sectional Meeting

for Surgeons and Graduate Nurses, Washington, March, 1970.

DRAKE, C.G. "Ruptured Intracranial Aneurysms". The Albany Medical College of Union

University, Albany, N.Y., June, 1970.

DRAKE, C.G. "Vertebral Basilar Aneurysms - A Progress Report". Canadian Neurological

Congress, Toronto, June, 1970.

# **Department of Community Medicine**

BUCK, CAROL W. "The Epidemiology of Coronary Artery Disease". Dalhousie University,

March, 1970.

BUCK, CAROL W. "Studies of Factors Influencing Intelligence of Young Children". University

of Toronto, School of Hygiene.

McWHINNEY, I.R.

"Postgraduate Education for Family Medicine". Annual Convention of the College of Family Physicians of Canada, College of Family Physicians, Toronto, September, 1969.

RAND, C.G.

"The Problem and Extent of Physical Disability in Canada". Annual Refresher Course at University of Toronto, School of Hygiene, February, 1970.

#### **Department of Medicine**

ALBERS, H.J.

"Side Effects of Birth Control Pills to the Skin". "Common Disorders Seen in a Canadian Dermatological Practice".

"Pyoderma Gangrenosum". II Dermatological Clinic of the Free University of Berlin, February, 1970.

BONDY, D.C. and BATE, L.R.

"Shell of Hydration and Ion Absorption". Canadian Federation of Biological Societies, Montreal, June, 1970.

BOUGHNER, D.R. and ROACH, M.R.

"The Effect of Low Frequency Vibrations on the Arterial Wall". American College of Cardiology, New Orleans, 1970.

BOUGHNER, D.R. and ROACH, M.R.

"The Effect of Low Frequency Vibration on Arterial Wall Elastin". AGARD Symposium of Biofluid Dynamics, Naples, 1970.

HARTH, M. and BONDY, D.C.

"Indomethacin and Acetylsalicylic Acid in the Treatment of Ostioarthritis of the Hips and Knees". Canadian Rheumatism Association, Annual Meeting, Toronto, June, 1970.

HARTH, M. and WILDEMAN, R.A. and PHILP, R.B.

"The Effect of Allopurinol on Platelet Adhesiveness and Aggregation". Inter-Urban Arthritis Club, Annual Meeting, Pittsburgh, May, 1970.

HUDSON, A.J. and CHOLOD, E.J. and HAUST, M.D.

"Clinical and Morphological Studies in Primary Hyperparathyroid Myopathy Occurring in Two Siblings". 4th Canadian Congress of Neurological Sciences.

KIMBER, R.W.

"Renal Transplantation". St. Thomas Academy of Medicine, April, 1970.

KIMBER, R.W.

"Renal Transplantation". Ontario Dialysis Association, London, May, 1970.

LEFCOE, N.M.

"Biological Effects of Air Pollution". Air Pollution Control for Chemical Process — International Conference. Sponsored by University of Washington, University of Western Ontario, and Canadian Chemical Producers Association, November, 1969.

McCOURTIE, D.R. and TOOGOOD, J.H. and ROSE, K.

"A Clinical Trial of Dissodium Cromoglycate in a Group of Atopic Persons". Canadian Society of Allergy and Clinical Immunology, Ottawa, May, 1970.

ROACH, M.R.

"The Effect of Stenoses and Bifurcations on Flow and on the Arterial Wall". Euromech XII, Warsaw, September, 1969.

RECHNITZER, P.A.

"Physical Rehabilitation Programme for Coronary Patients". Institute of Cardiology, Quebec City, 1969.

ROACH, M.R.

"The Role of Vascular Wall Elastic Tissue in Haemostasis". International Committee on Haemostasis and Thrombosis, Bath, October, 1969.

STUART, R.K.

"Diagnosis and Treatment of Acute Massive Pulmonary Embolism". Toronto Academy of Medicine, Toronto, November, 1969.

TOOGOOD, J.H. and McCOURTIE, D.R. and ROSE, D.K.

"A Double Blind Trial of Dissodium Cromoglycate in Allergic Bronchial Asthma". The American Academy of Allergy Meeting, New Orleans, February, 1970.

ARMSTRONG, D.T.

"Regulation of the Corpus Luteum". Department of Obstetrics and Gynae-cology, Victoria Hospital, The University of Western Ontario, London, November, 1969.

ARMSTRONG, D.T.

"Endocrine Regulation of Ovum Implantation". University of Guelph, Department of Animal Science, Guelph, Ontario, April, 1970.

"Conversion of Progesterone to 5a-pregnan-3, 20-dione by uterine nuclei and ARMSTRONG, D.T. its possible physiologic significance". The American Physiological Society, Atlantic City, N.J., May, 1970. ARMSTRONG, D.T. "Hormonal Control of Implantation". Harvard University, Department of Anatomy and Laboratory for Human Reproduction and Reproductive Biology, Boston, Mass., May, 1970. ARMSTRONG, D.T. "Endocrine Regulation of Implantation". McMaster University, Department of Obstetrics and Gynaecology, Hamilton, Ontario, May, 1970. **Department of Paediatrics** ALBARRACIN, A. "Remission and Relapse State of Acute Leukemia and the Phenomenon of Blast Transformation". American Societies for Experimental Biology, Atlantic City, New Jersey, April, 1970. ECCLESTONE, E.R. "The Use of Planimetry in Dtermining the Total Lung Capacity in Children". Southern Society for Paediatric Research, Richmond, Virginia, November, 1969. ECCLESTONE, E.R. "Cystic Fibrosis". Paediatric Pulmonary Function Course, Tulane University, New Orleans, Louisiana, September, 1969. FEASBY, W.H. "A Comparison of Two Mandibular Reference Planes". Research Section, Association of Canadian Faculty of Dentistry, Vancouver, British Columbia, June 1970. HAUST, M.D. "Alternate Potentials of the Smooth Muscle Cell in Health and Disease". The Gordon Research Conference on Molecular Pathology — The Smooth Muscle Cell, Issaquah, Washington, July, 1969. HAUST, M.D. "Injury and Repair in the Pathogenesis of Atherosclerosis". The Second International Symposium on Atherosclerosis, November 1969. HAUST, M.D. "The Fibroblast — its Structure and Function in Health". Symposium on Fibroblast; Pediatric Pathology Club Annual Meeting, St. Louis, Missouri, March 1970. HAUST, M.D. "Problems in Paediatric Pathology". Annual Meeting, International Academy of Pathology, St. Louis, Missouri, March 1970. HAUST, M.D. "Placental Pathology" (Conducted A Refresher Course). VII Latin American Congress of Pathology, Buenos Aires, Argentina, November 1969. HAUST, M.D. "Gross and Microscopic Examination of Placenta" (Directed a Refresher Course). Annual Meeting, International Academy of Pathology, St. Louis, Missouri, March 1970. HAUST, M.D. "The Arterial Wall in Health and Disease" (Seminar), Department of Pathology, McMaster University, Hamilton, Ontario, March 1970. HAUST, M.D. "The Arterial Wall and its Reaction to Injury" (Seminar). Department of Pathology, Queen's University, Kingston, Ontario, March 1970. HAUST, M.D. "Fundamental Data on Reaction of Vascular Tissue in Man". International Symposium, Lindau, Germany, April 1970. "The Application of Electron Microscopy to the study of Human Disease". HAUST, M.D. Annual Meeting, Canadian Association of Pathologists, St. John's Newfoundland, June 1970. Chairman of Scientific Session, Council on Atherosclerosis, American HAUST, M.D. Heart Association Meeting, Dallas, Texas, November 1969. Co-Chairman, Scientific Session on Endocrinology and Bone, International HAUST, M.D. Academy of Pathology, St. Louis, Missouri, March 1970.

Chairman, Neuropathy Session, American Society for Experimental

Pathology, (FASEB), Atlantic City, April 1970.

HAUST, M.D.

HINTON, G.G. "Mentally Handicapped Child". Victoria Hospital Alumni Association,

London, Ontario, October 1969.

HINTON, G.G. "Learning Disabilities". London Board of Education, London, Ontario,

January 1970.

HINTON, G.G. "Handicapped Children". Crippled Children's Treatment Centre,

Chatham, Ontario, October 1969.

HINTON, G.G. "Absence Seizures". Canadian Neurological Association, Toronto, Ontario,

June 1970.

JACO, N.T. "Obstetrical and Neonatal Intensive Care". Department of Obstetrics and

Gynaecology, Oxford University, Oxford, England, April, 1970.

MC KIM, J.S. "A Cytogenetic Study of 150 Full Term, Low Birth Weight, Mentally

Retarded Children and Controls". Canadian Paediatric Society, Annual

Meeting, Montreal, Quebec, July 1969.

MC KIM, J.S. "Management of Infant Colic". Gastroenterology Conference, The University

of Western Ontario, London, Ontario, September 1969.

VALENTINE, G.H. "Cystic Fibrosis". Northwest Metropolitan Medical Society, Bedford, England,

September 1969.

VALENTINE, G.H. "Genetic Counselling". The University of Windsor, Windsor, Ontario,

September 1969.

# **Department of Pathological Chemistry**

BINNS SMITH, M. "The use of the laboratory". Family Medical Centre, January, 1970.

KIMBER, R.W. "Renal Transplantation". St. Thomas Academy of Medicine, April, 1970.

KIMBER, R.W. "Renal Transplantation". Ontario Dialysis Association, May, 1970.

KIMBER, R.W. Symposium on Hematuria. Urology Refresher Day, April, 1970.

LEE, L.M.Y. "Studies on human erythrocyte phosphofructokinase". Canadian Federation

and BROWNSTONE, Y.S. of Biological Societies Meeting, Montreal, June 1970.

TUSTANOFF, E.R. "Control of mitochondriogenesis in the facultative anaerobe, S. cerevisiae". and BALL, A.J.S. Presented at an International Symposium in Canberra, Australia, December

Presented at an International Symposium in Canberra, Australia, December 1969. Symposium entitled "Autonomy and Biogenesis of Mitochondria and Chloroplasts" and sponsored by the Australian Academy of Science, National Academy of Sciences (USA) and the International Union of

Biochemistry.

#### Department of Pathology

GARDNER, D.G. "Oral Pathology in Dental Practice". Northern Ontario Dental Association,

North Bay, September 1969.

GARDNER, D.G. "Tumours and Tumour-like Lesions of Oral Soft Tissues". London &

District Dental Society, London, November, 1969.

GARDNER, D.G. "Oral Manifestations of Systemic Disease." Waterloo-Wellington Dental

Society, Kitchener, January 1970.

GARDNER, D.G. "Periodontal Disease". Children's Psychiatric Research Institute, London,

June 1970.

GARDNER, D.G. "Oral Histopathology". State University of New York at Buffalo, School of

Dentistry, May 1970.

SAPP, J.P. "The ultrastructure of peripheral giant cell reparative granuloma". 5th

Canadian Dental Research Conference, University of British Columbia,

Vancouver, B.C., June, 1970.

WALLACE, A.C. "Spread of Tumours". Session on Advances in Medicine, The Royal College

of Physicians & Surgeons of Canada, January 1970.

"The Blood Supply of Tumours". Sydney Hospital, Sydney, Australia, July WARREN, B.A.

1969.

WARREN, B.A. "The Ultrastructure of Platelet Adhesion and Aggregation". Max-Planchk-

Institut fur Psychiatrie, Munich, Germany, December, 1969.

WARREN, B.A. "Morphology of Cellular Adhesion with particular reference to Platelet

Aggregation". Il Anatomisches Institut der Freien Universitat Berlin, Berlin,

West Germany, December, 1969.

WARREN, B.A. "The Ultrastructure of Platelet Adhesion and Aggregation". Department of

Pharmacology, Royal College of Surgeons of England, London, England,

December 1969.

WARREN, B.A. "Intracellular Endothelial Fenestrations in the Capillaries of the Advancing

Edge of Walker 256 Carcinoma". Microcirulatory Society (Eighteenth Annual

Meeting), Atlantic City, N.J., April 1970.

# Department of Pharmacology

HAMILTON, JOHN T. and RATHBUN, FLORA J. (MISS)

"Cardiovascular Side-effects of the Muscle Relaxant Drug Gallamine Triethiodide". Canadian Association for Research in Toxicology, Toronto, Ontario, October 1969.

"Experimental Evidence for Platelet Aggregation Initiated by Intravascular Bubbles". Aerospace Medical Association (and Undersea Medical Association),

St. Louis, Missouri, April 1970.

# Department of Physical Medicine and Rehabilitation

CAMERON, M.G.P. and STEWART, O.J.

PHILP, R.B.

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"A Comparison of Patients in an Extended Care Hospital with those on a Home Care Programme". Canadian Association of Physical Medicine and

Rehabilitation, Halifax, August 1969.

# **Department of Physiology**

"Regulation of the Corpus Luteum". Department of Obstetrics and Gynae-ARMSTRONG, D.T.

cology, Victoria Hospital, The University of Western Ontario, London,

Ontario, November 1969.

ARMSTRONG, D.T. "Endocrine Regulation of Ovum Implantation". The University of Guelph,

Department of Animal Science, Guelph, Ontario, April 1970.

"Conversion to Progesterone to 5 a-pregnan-3, 20-dione by Uterine Nuclei ARMSTRONG, D.T.

and its Possible Physiologic Significance". The American Physiological

Society, Atlantic City, New Jersey, May 1970.

ARMSTRONG, D.T. "Hormonal Control of Implantation". Harvard University, Department of

Anatomy and Laboratory for Human Reproduction and Reproductive

Biology, Boston, Massachusetts, May 1970.

"Endocrine Regulation of Implanation". McMaster University, Department ARMSTRONG, D.T.

of Obstetrics and Gynaecology, Halilton, Ontario, May 1970.

"Central and Peripheral Mechanisms of Control of Heart Rate". Professor CALARESU, F.R.

P. Dell. Centre Nationale Des Researches, Laboratoire De Neurophysiologie,

Marseilles, France, July 1969.

CALARESU, F.R. "An Application of Systems Theory in the Study of a Biological System". and CHESS, G.F.

Institute of Electrical and Electronic Engineers, London, Ontario, February

1970.

DELLOW, P.G. "Control Mechanisms of Mastication". Convocation of Australian College of

Dental Surgeons, Sydney, Australia, August 1969.

HARDING, P.G.R. "The Regulation of Lipid Balance in the Fetus and Neonate". International

Symposium on Physiological Biochemistry of the Fetus, Detroit, Michigan,

April 1970.

"Control Systems Analysis of the Regulation of Water and Energy Balance". MOGENSON, G.J. Pioneering Research Laboratories, U.S. Army Natick Laboratories, Natick, Massachusetts, May 1970. O'HEA, E.K. "Lipid Synthesis and Regulation". The University of Western Ontario, London, Ontario, December 1969. SEGUIN, J.J. "Effects of Preoptic Cooling and Heating on Water and Food Intake and the and BANET, M. Thermoregulatory Responses in Rats Acclimated to 4 and 21°C". The 10th Canadian Cold Physiology Conference, The University of Western Ontario, November 1969. "The Cowardly Cover: Comments on Professional Education". Faculty of SQUIRES, B.P. Engineering, The University of Western Ontario, London, Ontario, May 1970. "Choice of Medium". Council on Medical Television, Philadelphia, Pennsyl-SQUIRES, B.P. vania, May 1970. "Effects of ACTH and Conticosteroids on the Regulation of Food and Water STEVENSON, J.A.F. Intake". Conference on The Pituitary-Adrenal Axis and the Nervous System, Utrecht, The Netherlands, July 1969. "Mechanisms Involved in Translating Exogenous Factors Into Responses". STEVENSON, J.A.F. The American Cancer Society, Working Conference on the Anorexia and Cachexia of Neoplastic Disease, Philadelphia, Pennsylvania, November 1969. "Is Hippocampal Electrical Activity Altered by Training?" The Psychonomic VANDERWOLF, C.H. Society, St. Louis, Missouri, November 1969. and WHISHAW, I.Q. "Effects of Hypothalamic Stimulation on Behavior and Hippocampal EEG". BLAND, B.H. Eastern Psychological Association, Atlantic City, New Jersey, April 1970. and VANDERWOLF, C.H. Department of Surgery BAILEY, W.H. "Surgery of Haemophilia". Ontario Chapter Haemophilia, London, May, 1970. "Ruptured Abdominal Aneurysm". Gastroenterology Conference, Westminster CARROLL, S.E. Hospital, September, 1969. "Subfascial Ligation for Varicose Veins". Westminster Day, November, 1969. CARROLL, S.E. "Mediastinoscopy". Buffalo Surgical Society, Medical Sciences Centre, Univer-CARROLL, S.E. sity of Western Ontario, London, November 1969. "Experimental Venous Thrombectomy". (Presented by Dr. A.D. McLachlin). CARROLL, S.E. Southern Surgical Association, Hot Springs, Virginia, December 1969. "The Disappearing Needle". Quarterly Meeting, Hospital Medical Staff, CARROLL, S.E. St. Joseph's Hospital, December, 1969. "Chest Disease and Biopsies". Refresher Day in Chest Diseases, St. Joseph's CARROLL, S.E. Hospital, March 1970. "Chondrosarcoma of the Rib". (Presented by Dr. R. Holliday, discussed by CARROLL, S.E. Dr. S.E. Carroll), Staff Meeting, Westminster Hospital, March 1970. COLES, J.C. "Peripheral Arterial Surgery". "Surgery of the Aortic Valve". "Coronary Artery Surgery". "Surgery of Abdominal Aneurysm". University of Alexandria, U.A.R., February 1970. "Experimental Cardiac Allotransplantation". Annual Meeting of Royal GERGELY, N.F. College of Physicians and Surgeons of Canada, Montreal, January 1970. and COLES, J.C. GERGELY, N.F. "Experiences with Abdominal Aneurysms". Annual Meeting of Ontario Medical Association, Ottawa, May 1970. "Internal Derangements of the Knee Joint". Combined Meeting of the KENNEDY, J.C. Rehabilitation Foundation and the Ontario Society for Crippled Children,

"Osteochondral Fractures of the Femoral Condyle". "The Posterior Cruciate Ligament". University of Pittsburgh, Pittsburgh, Pennsylvania, November 1969.

Toronto, October, 1969.

KENNEDY, J.D.

KENNEDY, J.D.	"The Problem of Medial Instability of the Knee Joint". Pennsylvania Orthopaedic Association, November 1969.
KENNEDY, J.D.	"Instability of the Knee Joint, a Mechanical Evaluation". The American Academy of Orthopaedic Surgeons, Chicago, Illinois, January 1970.
KENNEDY, J.D.	"The Treatment of Ligamentous Injuries about the Knee". Symposium on Trauma, University of Toronto, Toronto, March 1970.
KENNEDY, J.D.	"Closed Nailing of Intramedullary Fractures". (Discussion). Combined Meeting of the English Speaking World, Sydney, Australia, April 1970.
KENNEDY, J.D.	Panel on Sports Injuries. Combined Meeting of the English Speaking World, Sydney, Australia, April 1970.
McANINCH, L.N.	"Radical Surgery for Cancer of the Bladder". Detroit Section of the American Urological Society, November 1969.
McANINCH, L.N.	"Pyuria in the Youngster". London Branch of the College of General Practice, Westminster Hospital, London, November 1969.
McANINCH, L.N.	"External Meatotomy in the Female", "The Results of Urinary Diversion".  Eleventh International Congress of Urology, Miami, Florida, December 1969.
McCREDIE, J.A.	"Growth and Radiosensitivity of Animal Tumours". 2nd Clinical Cancer Research Conference, Geneva Park, Lake Couchiching, September 1969.
McCREDIE, J.A.	"Effect of a Single Large Dose Local X-rays on Allogeneic Skin Graft Rejection in the Mouse". 55th Clinical Surgical Forum Committee, American College of Surgeons, San Francisco, October 1969.
McCREDIE, J.A.	"Effect of X-radiation to Tumor Bed on Local Recurrence". 5th Annual San Francisco Cancer Symposium, San Francisco, October 1969.
McCREDIE, J.A.	"Tumor Growth". Buffalo Surgical Society Meeting, London, Ontario, November 1969.
McCREDIE, J.A.	"Growth and Radiosensitivity of Animal Tumors: A New In Vitro Tumor Model." Chicago Medical School, Chicago, Illinois, December 1969.
McCREDIE, J.A.	"Growth of Chinese Hamster Cells as a Tumor Model". American Association for Cancer Research Meeting, Philadelphia, Pa., April 1970.
McCREDIE, J.A.	"Phytohemagglutinin (PHA) — Induced Transformation of Lymphocytes in Patients with Cancer." 10th International Cancer Congress, Houston, Texas, May 1970.
McCREDIE, J.A.	"Radiotherapy in Combination with Surgery in the Treatment of Curable Cancer". 14th Annual Cancer Symposium, Regina, Saskatchewan, June 1970.
McCREDIE, J.A.	"Growth of Chinese Hamster Cells as a Tumor Model for Studying Radiation Effects". 4th International Congress of Radiation Research, Evian, France, June-July 1970.
McLACHLIN, A.D.	"Venous Thrombosis and its Sequelae". Surgical Society Yandell Lecture, Louisville, Kentucky, November 1969.
McLACHLIN, A.D.	"Experimental Venous Thrombectomy". Southern Surgical Society, December 1969.
McLACHLIN, A.D.	"Venous Thrombosis and Pulmonary Embolism". Gallie Lecture, Royal College of Physicians and Surgeons of Canada, January 1970.
McLACHLIN, A.D.	"Combined Abdominoperineal Excision for Cancer of the Rectum — Primary Suture of the Perineal Incision with Continuous Suction" "Retroperitoneal Injuries of the Duodenum by Blunt Trauma". State University of New York, College of Medicine, Syracuse, New York, May 1970.
MEADS, G.E.	"Septic Shock". 1st Annual Meeting Military Surgeons, Long Binh, Republic Vietnam, November 1969.

London, Ontario, May, 1970.

MEADS, G.E.

"Surgical Experience in Viet Nam". Medical Defense Group, Wolseley Barracks,

SALES, J.L. "Procidentia". Detroit Branch of the American Urological Association, Windsor,

December 1969.

WYATT, J.K. Panels on Pyuria and Haematuria. Refresher Day, Westminster Hospital, London,

April 1970.

WYATT, J.K. "Male Sterilization". Learnington Medical Society, Learnington Hospital, May

1970.

### **FACULTY OF DENTISTRY**

# **Department of Oral Medicine**

MOORE, D.S. "Occlusal Equilibration for the General Practitioner". Grey-Bruce-Dufferin

Dental Society, Owen Sound, October, 1969.

REID, J.A. "Selection of Kilovoltage for Optimum Clarity, Choice of Milliamperage,

Choice of Films, High Temperature Processing, Technique Bisecting vs Paralleling". Canadian Academy of General Practice (Hamilton Branch),

Hamilton, November, 1969.

REID, J.A. "X-ray Hazards, Hygiene, Processing". Fanshawe College Extension Course

in Dental Assisting, Simcoe, November, 1969.

REID, J.A. "Better Radiographic Techniques". Essex County Dental Society, Windsor,

January, 1970.

REID, J.A. "More Efficient X-ray Processing". Table Clinic at Ontario Dental Association

Convention, Toronto, May, 1970.

STONEMAN, D.W. "Periapical Radiolucencies, Radiolucencies of the Jaws, Radiopacities of the

Jaws". Canadian Academy of General Practice (Hamilton Branch), Hamilton,

November, 1969.

ZULQAR-NAIN, B.J. "Compounded Epoxy Models for Teaching Occlusal Correction Techniques".

Symposium on Teaching Aids — Principles of Occlusion, Chicago, February,

1970.

### **Department of Oral Surgery**

PARNELL, A.G. and McFEDERN, R. and McKELVEN, A.D. and BRUMMENT, W.

"Acute Medical Emergencies in the Dental Office". West Toronto Dental Society,

Toronto, November, 1969.

PARNELL, A.G.

"Ketamine. A New General Anaesthetic Agent for Oral Surgery in Children".

British and Scandinavian Societies of Oral Surgery, Randers, Denmark, May,

1970.

#### Department of Paediatric Dentistry

FEASBY, W.H. "A Comparison of Two Mandibular Reference Planes". Research Section of

Association of Canadian Faculties of Dentistry, Vancouver, B.C., June, 1970.

HUNTER, W.S. "Orthodontics in General Practice". Sault Ste. Marie and District Dental Society,

November, 1969.

HUNTER, W.S. "Longitudinal Analysis of Facial Growth". Cranio-Facial Growth Course, Univer-

sity of Michigan, Ann Arbor, Michigan, May, 1970.

HUNTER, W.S. "Landmarks and Planes Used in the Equivalent-Balanced Analysis of Facial

Growth". Cranio-Facial Growth Course, University of Michigan, Ann Arbor,

Michigan, February, 1970.

HUNTER, W.S. "The Role of Heredity in Cranio-Facial Growth". Cranio-Facial Growth Course,

University of Michigan, Ann Arbor, Michigan, May, 1970.

# **Department of Restorative Dentistry**

JOHNSON, L.N. "Effects Various Finishing Procedures Have on Composite Resin Surfaces".

International Association of Dental Research, New York, March, 1970.

JOHNSON, L.N. "Finishing Dental Composite Restorative Materials". Ontario Dental Associ-

ation, Toronto, May, 1970.

JOHNSON, L.N. "Composite Resins as a Dental Restorative Material" American Chemical

Society-Chemical Institute of Canada, Toronto, May, 1970.

JORDAN, R.E. "Silver Amalgam Restorations". Northern Ontario Dental Association, North

Bay, September, 1969.

JORDAN, R.E. "Restorative Dentistry". Winnipeg Dental Society, Winnipeg, November, 1969.

JORDAN, R.E. "Biological and Manipulative Variables in Restorative Dentistry". University

of Pittsburgh Student ADA Day, Pittsburgh, March, 1970.

JORDAN, R.E. "Control of Biological and Technological Variables in Operative Dentistry".

College of Dental Surgeons of British Columbia Annual Convention, Vancouver,

May, 1970.

RYAN, J.E. "Partial Dentures and the Practitioner". Canadian Academy of Restorative

Dentistry and Canadian Academy of Prosthodontics, Montreal, July, 1969.

RYAN, J.E. "The Successful Partial Denture". London and District Dental Society, London,

September, 1969.

RYAN, J.E. "Trouble Shooting in Complete and Partial Dentures". Bay of Quinte Dental

Society, Trenton, March, 1970.

TETERUCK, W.R. "Fixed Prosthodontics for the General Practitioner". Royal College of Dental

Surgeons, Brant County, Brantford, May, 1970.

# **Department of Social Dentistry**

DUNN, W.J. "Evolution and Integration of Health Manpower". University of Waterloo,

Waterloo, January, 1970.

DUNN, W.J. "Education of the Health Disciplines". Second Conference on Co-operation

in Provision of Health Services, Toronto, April, 1970.

DUNN, W.J. "Fluoridation - Its Silver Anniversary in Canada". City of Brantford,

Brantford, Ontario, June, 1970.

DUNN, W.J. "Social and Political Trends that will Affect the Provision of Dental Services

and Dental Education". Association of Canadian Faculties of Dentistry,

University of British Columbia, Vancouver, June, 1970.

# LAW

ATKEY, R.G. "Government and the Urban Challenge". Priorities for Canada Conference,

Niagara Falls, October 1969.

ATKEY, R.G. "Urban Government and the Constitution". Association of Canadian Law

Teachers, Winnipeg, June 1970.

KREVER, H. "Ethical-Legal Aspects of Medical Experimentation: Some Recent Experience".

Hamilton Medical — Legal Society, Hamilton, February 1970.

KREVER, H. "The Challenge of the Report of the Committee on the Healing Arts".

Registered Nurse's Association of Ontario, Toronto, May 1970.

KREVER, H. "Selection Criteria for Law Reporting". Canadian Association of Law Libraries,

London, May 1970.

KREVER, H. "Problems in Human Organ Transplantation". Conference of Ontario

Coroners, Toronto, May 1970.

KREVER, H. "Guidelines in the Relationship Between Accrediting and Licensing Agencies and Educational Programs for Allied Health Personnel". Symposium sponsored by U.W.O., Fanshawe College, London, June 1970.

KREVER, H. "Tomorrow's Pharmacist: Health Professional or Expensively-Trained Merchant?"
Ontario Pharmacy Association, Toronto, June 1970.

PAYNE, J.D. "The Case for Maintenance". Canadian Bar Association Conference, Vancouver, September 1969.

PALMER, E.E. "The Woods Report". Canadian Industrial Relations Research Institute, Montreal, July 1969.

PALMER, E.E. "Collective Bargaining for Professional Employees". 7th Annual Management Seminar, Sarnia, October 1969.

PALMER, E.E. "Recent Trends in Labour Arbitration". Personnel Association of Toronto, Toronto, January 1970.

PALMER, E.E. "Labour Arbitration and Collective Bargaining". Society for the Advance-ment of Management, London, April 1970.

# **ENGINEERING SCIENCE**

BASE, T.E. "Mathematical Studies of Vortex Models", Lockheed Georgia Research
Centre, Atlanta, Georgia, September 1969.

BEECKMANS, J.M. "Pyrolysis of Sewage Sludge", Graduate Seminar, McMaster University, October 1969.

BEECKMANS, J.M. "The Deposition of Eclipsordal Particles in the Human Respiratory Tract",

3rd Rochester International Conference on Environmental Toxicity,

Rochester, New York, June 1970.

BERGOUGNOU, M.A. "The Fluidized Bed Boiler for Pollution-Free Combustion of Low Grade High-Sulphur Canadian Coal", Canadian Advisory Committee for Coal Research, Ottawa, May 1970.

CASTLE, G.S.P. "A two-Stage Electrostatic Precipitator With Electrified Media", Air Pollution Control Association Annual Meeting, June 1969.

DAVENPORT, A.G. "Wind Loading of Structures", Princeton University, Princeton, New Jersey, November 1969.

DAVENPORT, A.G. "Wind Forces on Cable Systems", Symposium on Architectural and Structural Design of Cable Systems, University of Pennsylvania, November 1969.

DAVENPORT, A.G. "Structural Response to Atmospheric Turbulence — Its Nature and Consequences", Royal Society Meeting on Architectural Aerodynamics, London, England, February 1970.

DAVENPORT, A.G. "Wind Loading of Structures", Institution of Wind and Sound Vibrations, University of Southampton, England, March 1970.

DAVENPORT, A.G. "Modern Methods of Design Against Wind", American Society of Civil Engineers, Pittsburgh Chapter, Pittsburgh, Pennsylvania, March 1970.

DAVENPORT, A.G. "Wind Structures Over Cities", IUGG, IAMAP, AMS Conference on Planetary Boundary Layers, Boulder, Colorado, March 1970.

DAVENPORT, A.G. "Wind Loading on Tall Buildings", Chicago Design Symposium on Wind Effects on High-Rise Buildings, Northwestern University, Evanston, Illinois, March 1970.

"The Buffeting and Aerodynamic Stability of Suspension Bridges in Turbulent Wind", American Society of Civil Engineers, National Structural Engineering Meeting, Portland, Oregon, April 1970.

DAVENPORT, A.G. "New Approaches to Design Against Wind Action", University of Manitoba Wind Seminar, Winnipeg, Manitoba, May 1970.

"Wind, Ice and Earthquake Loading on Guyed Towers", I.A.S.S. Working

Committee on Tower Shaped Structures, Copenhagen, Denmark, May 1970.

DAVENPORT, A.G.

ARCHIBALD, T.R.

DICKINSON, S.M.	"Symposium in Structural Dynamics", Loughborough, March 1970.
DICKINSON, S.M.	"Static and Dynamic Analysis of Cat Bodies", UWO, April 1970.
LAUCHLAND, L.S.	"Convocation Address", St. Lawrence College of Applied Arts and Technology, Cornwall, May 1970.
NOWAK, E.S.	"Investigation on Enthalpy of Heavy Water", A.E.C.L., Sheridan Park, April 1969.
NOWAK, E.S.	"Thermal Behaviour of Coolants", Rensellaer Polytechnical Institute, Hartford, Connecticut, April 1970.
PEACOCK, W.H.	"Frost Action and Compaction", P.C.A., London, Ontario, April, 1970.
QUIGLEY, R.M.	"Black Shale Heaving at Ottawa", 22nd Canadian Soil Mechanics Conference, Kingston, August, 1969.
QUIGLEY, R.M.	"The Influence of Geochemical Factors on Soil Properties", University of Waterloo, January, 1970 and U.W.O., February, 1970.
SHEASBY, J.S.	"The Oxidation of Niobium in the Temperature Range 350° – 600° C", 62nd AGARD Wright-Patterson Air Force Base, Ohio, October, 1969.
SWARTMAN, R,K.	"Further Studies on Solar Powered Intermittent Absorption Refrigeration", International Solar Energy Conference, Melbourne, Australia, March, 1970.
TARASUK, J.D.	"Canadian Organization for Joint Research", Windsor, May, 1970.
VICKERY, B.J.	"Wind Action on Simple Yielding Structures", American Society of Civil Engineers National Conference, Portland, Oregon, April, 1970.
ZAJIC, J.E.	"Pollution and the World Food Crisis", Science Teachers, Timmins, Ontario, January, 1970.
ZAJIC, J.E.	"Polyelectrolytes Formed from Kerosene", Canadian Society for Microbiology, U.W.O., February, 1970.
ZAJIC, J.E.	"PHB Synthesis and Flocculation", Canadian Society for Microbiology, U.W.O., February, 1970.
ZAJIC, J.E.	"The Use of Microbes in Pollution Control", American Society for Microbiology Michigan State University, Lansing, June 1970.
	SCHOOL OF BUSINESS ADMINISTRATION

and SHAW, D.C.	Division, American Accounting Association, Winnipeg, June, 1970.
BRITNEY, R.R.	"Some Properties and Applications On Bayesian Point Estimates", American Statistical Association, New York, August 1969.
BRITNEY, R.R.	"Quality Control Screening in Non-Serial Production Systems", Western Associates, U.W.O., London, Ontario, May, 1970.
CROOKELL, H.	"The Role of Innovation in Trade Flows", Western Associates, U.W.O., London Ontario, May, 1970.
DISTEFANO, J.J.	"Interpersonal Perceptions of Field Independent and Dependent Teachers and Students", Business Administration Professors from Canadian Universities, School of Business Administration, U.W.O., London, Ontario, March, 1970.

"A Client-Based Analysis of Canada's Public Accounting Profession", Canadian

DISTEFANO, J.J. "M.B.A.'s and Analytic Skills", Western Associates, U.W.O., London, Ontario, May, 1970.

DRINKWALTER, D. "The Fight Against Inflation", London Region of the Canadian Banking Institute, London, Ontario, April, 1970.

"The Determinants of Trade and the Firm", Western Associates, U.W.O., DRINKWALTER, D. London, Ontario, May, 1970. "Computers in Production Management", Canadian Association for Production GORDON, J.R.M. and Inventory Control, London, Ontario, April, 1970. GORDON, J.R.M. "Management Development in Management Science", American Institute of Industrial Engineers, Niagara Falls, May, 1970. "The Optimal Deductible for a Given Automobile Insurance Policy", Operation HAEHLING VON LANZENAUER, C. Research Society of America, Washington, April, 1970. "The Analysis of Automobile Insurance Systems with Merit Rating Structures", HAEHLING VON Western Associates, U.W.O., London, Ontario, May, 1970. LANZENAUER, C. "A Model for Determining Optimal Decisions in Automobile Insurance Systems", HAEHLING VON Graduate School of Business, Tulane University, New Orleans, April, 1970. LANZENAUER, C. "Continuing Education for Local Managers: Two Experiences", Annual Confer-HARDY, K.G. ence of the Canadian School of Business, London, Ontario, June, 1970. HARDY, K.G. "Correlates of Taste Discriminators", Western Associates, U.W.O., London, Ontario, May, 1970. "The Allocation Problem in Financial Accounting: A Critique", Canadian Region HICKS, B. of the American Accounting Association, University of Manitoba, June, 1970. "The Allocation Problem in Accounting", Western Associates, U.W.O., London, HICKS, B. Ontario, May, 1970. HODGSON, R.C. "Job Design and Motivation to Work", Western Associates, U.W.O., London, and LOUCKS, K. Ontario, May, 1970. KUECHLE, D. "Labor Relations Trends", Canadian Pulp and Paper Association, Victoria, B.C., August, 1969. "The Overthrow Phenomenon", Personnel Association of Toronto, KUECHLE, D. Toronto, April, 1970. KUECHLE, D. "Participative Management", Canadian Warehousing Association, Toronto, May, 1970. "The President's Chair", Purchasing Management Association of Canada, LEENDERS, M.R. Quebec City, June, 1970. "Canadian Unrest — What is Happening to Consumers, Students and Workers?" MIKALACHKI, A. Business School Alumni Homecoming Program, London, Ontario, October, 1969. "Student Unrest", Western's Alumni Association, Toronto, February, 1970. MIKALACHKI, A. "Turbulence in Our Society in the 1970's", Business Conference, U.W.O., MIKALACHKI, A. London, Ontario, May, 1970. PORTIS, B. "Use of Advanced Notice in Plant Shutdown", Western Associates, U.W.O., London, Ontario, May, 1970. WETTLAUFER, J.J. "The Challenge of Youth", Life Office Management Association, Dallas, Texas, September, 1969. WETTLAUFER, J.J. "Will Tomorrow Be Cancelled", London Centennial Chapter, The National Secretaries Association, London, Ontario, October 1969. WETTLAUFER, J.J. "People - The Key to Profits and Growth", Industrial Management Clubs of Canada, London, Ontario, October, 1969. "Youth and Business", Institute of Management Consultants, Montreal, WETTLAUFER, J.J. February, 1970. "The Manager of the Seventies — Innovator, Integrator and Faciliator" WETTLAUFER, J.J. Executive Development Institute, Montreal, May, 1970. "What in the World is Happening to Management?" Canadian Industrial WETTLAUFER, J.J. Management Association, Winnipeg, June, 1970.

"Turbulence in Labor - Management Relations" London Rotary Club,

London, Ontario, April, 1970.

WETTLAUFER, J.J.

# **ALTHOUSE COLLEGE OF EDUCATION**

Federation, Essex County, October, 1969.

U.W.O., London, Ontario, February, 1970.

BOWDEN, J.J.

BOWDEN, J.J.

BASS, R.W.

BURKE, D.R.

"Architecture and Local History". Ontario Secondary School Teachers'

"Teacher Training - Now and in the Future". Conference of Ontario

"Artifacts as an Interdisciplinary Approach to Teaching Canadian History".

Conference of Ontario History Teachers' Association and History Department,

Secondary School Headmasters' Council, London, Ontario, November, 1969.

"On Turning the Philosophy of Education Outside-In". Discussion of joint

paper with V.A. Howard. Ontario Institute for Studies in Education Confer-

ence on New Directions in the Philosophy of Education, Toronto, May, 1970.

GUTTERIDGE, D.G.	"Riel: Historical Man or Literary Symbol?" The Humanities Association, London, Ontario, February, 1970.
HARDY, M.	"Clinical Follow-up Study of Disabled Readers". Conference of Ontario Education Research Council, Toronto, Ontario, December, 1969.
HARDY, M.	"Severe Reading Disabilities". Reading '70 Conference, York University, Toronto, Ontario, February, 1970.
HARRIS, A.W.	"School Geometry in the United Kingdom". Regional Conference, Ontario Association of Teachers of Mathematics, Althouse College, U.W.O., London, Ontario, October, 1969.
IRVINE, S.H.	"Implications of Human Behavior in Africa for a General Theory of Intellect".  British Association for the Advancement of Science, Exeter, England, September, 1969.
IRVINE, S.H.	"Psychology in Africa". University of Nairobi, University of Lusaka, and University of Capetown, South Africa, May, 1970.
IRVINE, S.H.	"On Comparing Means Across Cultures". Ontario Psychological Association, Kingston, Ontario, February, 1970.
KALUZA, H.J.	"The Equation Approach in the Teaching of Introductory Accounting", "The Preparation of Overhead Transparencies", "The Use of Case Studies in the Teaching of Introductory Accounting" and "The Approaches, Application and Utilization of Accounting at Various Job Levels". Calgary Teachers' Association Calgary, Alberta, February, 1970.
KALUZA, H.J.	"Periodic and Perpetual Inventory Systems Compared", "The Importance of Teaching Generally Accepted Accounting Principles", and "Developments in the Teaching of High School Economics". McGraw-Hill Company of Canada at Manitoba-Saskatchewan Joint Conference on Business Education, Yorkton, Saskatchewan, May, 1970.
KENNEY, K.W.	"An Inquiry Approach to Mathematics Learning". Conference, Saskatoon Elementary School Teachers, Saskatoon, Saskatchewan, September, 1969.
LAMBERT, G.R.	"The Place and Importance of Classical Civilization in Curriculum Revision in Classics". Brock Latin Workshop, Brock University, St. Catharines, Ontario, March, 1970.
LAWR, D.A.	"The Forming of the Ontario Secondary School, 1880-1920". Ontario History Teachers' Association and History Department, U.W.O., London, Ontario, February, 1970.
McMURRAY, J.G.	"The Psychology of Reading". Reading '70 Conference, York University, Toronto, Ontario, February, 1970.
MILBURN, G.	"Models in Curriculum Design". Association of Chairmen of History Departments, Toronto, Ontario, January, 1970.
MILBURN, G.	"The Third Reich: Approaches and Interpretations". Conference, Ontario History Teachers' Association and History Department, U.W.O., London,

Ontario, February, 1970.

"Relevance of the Past". Social and Environmental Studies Conference, York MILBURN, G. University, Toronto, Ontario, May, 1970. "Developing Inquiry Through Simple Materials". Newfoundland Teachers' PARK, P.B. Federation, St. John's, Newfoundland, November, 1969. PARK, P.B. "College Leadership in Elementary Curriculum Development". Teachers College, Fredericton, N.B., November, 1969. PATERSON, W. "An Analysis of Mosstron's Spectrum Styles of Teaching". Curriculum Conference, Althouse College, U.W.O., London, Ontario, June, 1970. PURDY, J.D. "The Position of Bishop Strachan in Upper Canada". Conference, Ontario History Teachers' Association and History Department, U.W.O., February, 1970. "Reorientation in the Non-Western History: Some Sub-Colonial Rumblings". RADCLIFFE, D.J. Ontario History Teachers' Association and the History Department, U.W.O., London, Ontario, February, 1970. "UNESCO Affiliated Schools and the History Teacher". Ontario History RAY, D.W. Teachers' Association and the History Department, U.W.O., London, Ontario, February, 1970. "Infant Precocity". Makerere College, Kampala, Uganda, May, 1970. SANDERS, J.T. "Theory and Research in Child Development". South African Psychological SANDERS, J.T. Association, Capetown, South Africa, May, 1970. "Theory and Research in Child Development in Africa". Ontario Psychological SANDERS, J.T. Association, Kingston, Ontario, February, 1970, and National Institute of Personnel Research, Johannesburg, South Africa, June, 1970. "Recent Trends in Achievement Testing". The University of Rhodesia, SANDERS, J.T. Salisbury, Rhodesia, June, 1970. "Creativity: Theory and Research". Chancellor College, University of Malawi, SANDERS, J.T. Blantyre, Malawi, June, 1970. "A School and University Partnership". Conference of Secondary School STABLER, E. Principals and Guidance Counsellors, London, Ontario, October, 1969. "The Canadian University, International Education and Development STABLER, E. Assistance". University of Calgary, Calgary, Alberta, February, 1970, and Canadian Association of Professors of Education, Winnipeg, Manitoba, May, 1970. "James H. Coyne as a Local Historian". St. Thomas & Elgin Historical Society, STEVENSON, H.A. St. Thomas, Ontario, February, 1970. WEBBER, H.D. "What's Happening in High School Chemistry". Chemical Institute of Canada, London, Ontario, November, 1969; Science Department, U.W.O., February, 1970; and Chemistry Teachers' Association, St. Catharines, Ontario, May, 1970. WEST, N.W. "The Case for a Health Specialist". Ontario Physical and Health Education Association, Western Ontario Region, The University of Windsor, Windsor, Ontario, May, 1970. WEST, N.W. "Role and Function of the Physical Education Department, Althouse College of Education". University of Windsor, Windsor, Ontario, October, 1969. WEST, N.W. "A Conceptual Framework for Curriculum in Physical Education: K-12". Curriculum Conference, Althouse College, U.W.O., London, Ontario, June, 1970.

"Using Group Work in the Office Practice Classroom". The University of

Waterloo, Waterloo, Ontario, August, 1969.

WESTGATE, D.G.

#### SCHOOL OF LIBRARY AND INFORMATION SCIENCE

CAMERON, W.J. "Dr. Johnson's Dictionary" The 18th Century Study Group, U.W.O., October,

1969.

CAMERON, W.J. "Education for Librarianship" Cornell University Libraries Staff Association,

April, 1970.

# KING'S COLLEGE

CRUNICAN, P.E. "Bishop La Fleche and the Mandement of 1896". Canadian Historical Associ-

ation, June, 1969.

GOUTOR, JACQUES R. "Hannah Arendt's Eichmann in Jerusalem — a reappraisal". Waterloo Lutheran

University, February 17, 1970.

THOMAS, A. "Modern Scripture Studies". London Sisters Council, 1969-1970.

THOMAS, A. "The Natural Law As A Foundation For the Civil Law". U.W.O. Law School,

September, 1969.

THOMAS, A. "Abortion, Homosexuality and the Natural Law". U.W.O. Law School, September,

1969.

THOMAS, A. "Civil Law and Morality". U.W.O. Law School, October, 1969.

# APPENDIX D SCHEDULE OF RESEARCH GRANTS

# SCHEDULE OF RESEARCH GRANTS For the Year Ended June 30, 1970

# **FACULTY OF ARTS**

Grantee	Granting Agency	Description of Project
Classics		
M.E. Carbone	University of Western Ontario	Research on the Julio-Claudian Period of Roman History and Literature.
N.B. Crowther	University of Western Ontario	Research on Catullus.
D.E. Gerber	University of Western Ontario	Research on Greek Lyric Poetry.
A.R. Littlewood	University of Western Ontario	Research on Geometres.
C.L. Murison	University of Western Ontario	Research on the Roman Civil Wars.
D. Stanley-Porter	University of Western Ontario	Research on Euripedes' Use of Mute Characters.
H.B. Timothy	Canada Council	The Galts and their cumulative impact on Canadian History.
	University of Western Ontario	Translation of Jerome Demers' Institutiones Philosophical ad Usum Juventutis.
English		
R. Bates	University of Western Ontario	Translation — Swedish & Finnish.
E. Bieman	University of Western Ontario	Creative Circuit — Spenser et al.
A. Bolgan	University of Western Ontario	Research on T.S. Eliot.
D.F. Chapin	University of Western Ontario	English and Scottish Poetry of the Later Middle Ages: An Anthology.
T.J. Collins	Canada Council	Letters from Robert Browning to the Rev. J.D. Williams.
	University of Western Ontario	Browning—Williams Correspondence, Browning's Later Poetry: A Critical Study.
A.B. Conron	University of Western Ontario	Comparative study of Canadian, Australian and New Zealand contemporary novelists.
E.J. Devereux	Canada Council	A study of the life and publications of John Rastell.
	University of Western Ontario	A study of the works and printing of John Rastell.
P.D. Fleck	University of Western Ontario	The literary relationships between the Shelleys and Byron.
D. George	University of Western Ontario	Book on Thomas Middleton.
I. Gordon	University of Western Ontario	Book on Pope.
J.W. Graham	Canada Council	Preparation for publication of a transcription of the complete extant manuscript of <i>The Waves</i> by Virginia Woolf.
	University of Western Ontario	The Manuscript of <i>The Waves</i> .
D.S. Hair	University of Western Ontario	Domestic Imagery in Tennyson's Poetry.
A.K. Hieatt	University of Western Ontario	Translation of Lorenze Valla, De very falsoque bono (to be published by U. of Ky. Press); work on book on Chaucer and Spenser.

Grantee	Granting Agency	Decription of Project
C. Hieatt	University of Western Ontario	Translation of Karlamagnus Saga.
V.M. Hoar	University of Western Ontario	To do an oral history of University of Toronto Press.
C.F. Klinck	University of Western Ontario	Early Canadian Writers.
B. Rajan	University of Western Ontario	To explore some of the Connections Between Milton's prose (Notably <i>Areopagitica</i> ) and his poetry.
G. Rans	University of Western Ontario	Research on the Works of Walt Whitman.
J. Reaney	University of Western Ontario	Research on the Biddulph Tragedy in the Regional History Collection.
J.A.B. Somerset	University of Western Ontario	Playwright, Interluders, and Stages 1450-1568.
A. Straulman	University of Western Ontario	The Influence of Drama on the Early English Novels.
H.R. Wilson	University of Western Ontario	Studies in Late Eighteenth and Early Nineteenth Century English and Colonial Phonology.
Fine Art		
T. Hughes	University of Western Ontario	A Film by Two Artists Working in a University Environment.
A.M. Urquhart	University of Western Ontario	Regional Imagery in Southwestern France, May, 1970.
French		
I. Arnold	University of Western Ontario	Villiers de L'Isle-Adam: style-study.
F. Atance	University of Western Ontario	Marguerite de Navarre et Luther — an investigation on the influence of the writings of Martin Luther on the works of Marguerite de Navarre.
D. Baguley	University of Western Ontario	The Naturalist Novel in France.
M.L. Balse	University of Western Ontario	Camus — His Philosophy and his entire work.
J. Bossé	University of Western Ontario	L'Héroisme chez les héroines Stendhaliennes.
W.S. Bush	Canada Council	<ol> <li>A book on Baudelaire's evolution.</li> <li>Continuing documentation on a book on Bernanos.</li> </ol>
	University of Western Ontario	Investigation of the Prophetic Side of French.
J. Cameron	University of Western Ontario	The Role of Science in Pascal's Intellectual Development.
D.G. Creighton	University of Western Ontario	Jacques—Francois de Luc and the French Enlightenment.
L. Forsyth	University of Western Ontario	Research on Poets and Critics in the 20th Century.
D. Guestault	University of Western Ontario	Le Féminisme dans l'oeuvre de Simone de Beauvoir.
L. Heller	University of Western Ontario	La Place du Stoicisme dans l'apologie Pascalienne.
R.F. Jones	University of Western Ontario	Key Words in O.F. Lit. Study of Change and Transition.
L.J.S. Metford	University of Western Ontario	Tape Interviews in France to Accompany Teaching Texts at U.W.O.

University of Western Ontario

J.B. Sanders

André Antoine à l'Odéon.

Grantee	Granting Agency	Description of Project
A.C. Saraydar	University of Western Ontario	La Conception Proustienne de l'amour.
C. Tatilon	University of Western Ontario	Le Stylisticien face à la critique littéraire.
C. Venesoen	University of Western Ontario	Publication of: Boileau: Etudes Critiques Racine & la Justification du Mal and Don Juan: le défi dérisoire de Molière.
D. Westgate	University of Western Ontario	XVIIth Century Augustinian Thought.
General		
J.G. Rowe	University of Western Ontario	General research.
German		
A. Anderson	Canada Council	The novels of Friedrich Spielhagen (1829-1911).
	University of Western Ontario	The novels of Friedrich Spielhagen.
H.K. Kalbfleisch	University of Western Ontario	Research of the Life and Works of Klaus Reinbolt.
R. Purekevich	University of Western Ontario	Wissenschaftliche Elemente im Werke Gottfried Benns.
H.J. Schlutter	University of Western Ontario	The German Sonnet.
G.H. Seufert	University of Western Ontario	Study of Vers-Structure in Des Minnesangs Fruhling.
H. Spencer	University of Western Ontario	Studies on Heinrich Heine.
G.L. Tracy	Canada Council	The Dramatic theory and practice of Richard Wagner and Bertolt Brecht.
	University of Western Ontario	The gestie and conative features of the language of Bertolt Brecht.
Philosophy		
P.A. Angeles	University of Western Ontario	Readings in the Philosophy of Parmenides.
E. Beaman	University of Western Ontario	Philosophical Problems in Space, Time, and Matter.
R.W. Binkley	University of Western Ontario	Philosophical Applications of Modal Logic.
I. Block	University of Western Ontario	Method in Aristotle.
R.N. Bronaugh	University of Western Ontario	Research in Philosophy of Law and Ethics.
R.E. Butts	University of Western Ontario	Kant's Philosophy of Science.
C.E. Caton	University of Western Ontario	The Syntax of Conversations.
J.W. Davis	University of Western Ontario	Berkeley's Design.
C.G. Echelbarger	University of Western Ontario	Research in the Philosophy of Wilfrid Sellars.
P.L. Friedman	University of Western Ontario	A study in the Logic of Prediction.
A.H. Johnson	Canada Council	The Development of a philosophical system (Experiential Realism) based on the insights of Alfred North Whitehead.
	University of Western Ontario	Development of a Philosophical System: Experiential Realism.
H.J. Johnson	University of Western Ontario	The Concept of Convention in the Philosophy of Hobbes.
J.J. Leach	University of Western Ontario	Objective Historical Knowledge.
T.M. Lennon	University of Western Ontario	Translation of and Commentary on: Malebranche's Search After Truth.
A. Marras	University of Western Ontario	Thought and Language.
P. Maynard	University of Western Ontario	Perception without Epistemology.

Grantee	Granting Agency	Description of Project
R.G. Muehlmann	Canada Council	An examination of the correspondence of H.A. Prichard.
	University of Western Ontario	Science and Metaphysics.
G. Pearce	University of Western Ontario	Grammar and Meaning.
M.W. Williams	University of Western Ontario	Nietzche and Paradox.
Russian Studies		
N. Bernotas	University of Western Ontario	Russian Drama.
G. Eramian	University of Western Ontario	Trends in Russian Phonology.
R. Piontkovsky	Canada Council	A study of Doukhobor folklore in Canada.
	University of Western Ontario	Russian Folklore.
F.R. Salter	University of Western Ontario	Research of ancient historical documents in the Russian area in Turkish archives.
Spanish and Italian		
J. Asensio	University of Western Ontario	A Study on the Bibliography of Tirso de Molina.
M.V. Brizio	University of Western Ontario	Studies in La Commedia dell'Arte.
W. Burghardt	University of Western Ontario	Studies in Spanish Baroque Poetry.
W. Flint	University of Western Ontario	Minor Figures of the Generation of 1898: Painters and Writers.
J. Lopez Pacheco	University of Western Ontario	Influence of Antonio Machado on post Civil War Spanish Poetry.
A.M. Marti	University of Western Ontario	The Diplomatic Correspondence between Spain and England related to Canada.
B.W. Munn	University of Western Ontario	Project in Latin American Prose Fiction.
J. Newman	University of Western Ontario	A Study on the Prose of Pedro Salinas.
F.L. Smieja	University of Western Ontario	A Study of a MS Play by Fray Remon.

# FACULTY OF SCIENCE

<b>Applied Mathematics</b>		
J.H. Blackwell	National Research Council	Hydrodynamic and hydromagnetic boundary value problems.
S.C.R. Dennis	National Research Council	Numerical Solutions of the Navier-Stokes Equations.
J.B. Ehrman	National Research Council	Attempt to express solutions of a dispersive system of partial differential equations in terms of stationary solutions.
F. Jackson	National Research Council	Steady state solution of a parabolic system.
E. Lewis	Defence Research Board	Numerical solutions of three-dimensional boundary layer equations.
	National Research Council	Numerical solutions of three-dimentional boundary layer equations.
T.M. Luke	National Research Council	Extended Lee Models.
P.W. Manuel	National Research Council	Magnetohydrodynamic problems of astrophysical interest.
D.R. Miller	Department of University Affairs	Research on convection cells in fluids.
M.A. Nerenberg	National Research Council	Excited states of free ions and atoms, and of ions

in a crystal field.

Grantee	Granting Agency	Description of Project
P.W. Norey	National Research Council	Dynamics of a dusty gas.
I.A. Sakmar	National Research Council	Regge crossing and differential cross sections.
J.D. Talman	National Research Council	Investigations in the quantum mechanics of many particle systems and the scattering of light from atoms.
Astronomy		
D.F. Gray	Department of University Affairs	Stellar absorption line profiles. Photoelectric photometer.
	National Research Council	Stellar Atmospheres.
J.M. Marlborough	National Research Council	The envelopes of be stars.
R. Mitalas	National Research Council	Stellar structure and evolution.
J.M. Moorhead	National Research Council	Spectroscopy of variable stars.
W.H. Wehlau	Department of Energy, Mines & Resources	Purchase of a Sky Atlas.
	National Research Council	Equipment Grant.
	National Research Council	Equipment Grant.
	Department of Energy, Mines & Resources	To supply refrigeration to the Photomultiplier being designed for the photometry of faint stars.
	National Research Council	Astronomical Research.
Botany		
P.B. Cavers	Department of Agriculture— Canada	The comparative biology of closely related weed species.
	International Biological Program	Biological Research.
	National Research Council	The biology of weeds.
	Department of University Affairs	The ecology of weeds and of plants growing on unstable gravel banks in southwestern Ontario.
	Canadian National Sportsmen's Show	The study of the ecology of a number of plant species growing along the banks of rivers and streams in southwestern Ontario.
F.S. Cook	National Research Council	Physiological studies of the pollen of Zea mays L.
B.G. Cumming	National Research Council	Equipment Grant.
	National Research Council	Rhythmic processes and the control of germination, growth and flowering.
A.W. Day	Department of University Affairs	Phycological studies of nuclear behaviour in Ustilago-Violacea.
	National Research Council	The Parasexual cycle in ustilago violacea.
D. Fahselt	Department of University Affairs	Investigation of Dicentra Alkaloids.
	National Research Council	Analysis of secondary plant substances in Dicentra.
R.I. Greyson	National Research Council	Experimental studies on flower development.
	Department of University Affairs	Microscopic Analysis of flower development.
C.J. Hickman	National Research Council	Studies of the biology of plant pathogenic fungi, particularly phycomycetes.
W.G. Hopkins	National Research Council	Phytochrome control of cellular enlargement.
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Numerical techniques in plant taxonomy.

R.C. Jancey

National Research Council

Grantee	Granting Agency	Description of Project
W.E. McKeen	National Research Council	Ultrastructure and host-parasite studies.
D. McLarty	Canadian National Sportsmen's Show	To promote Algae Studies.
	Department of Energy, Mines & Resources	Algae nutritional requirements as a means of assessment and control of artificial eutrophication.
L. Orloci	National Research Council	Ecological informativeness of quantitative analyses: studies in ordination, classification and pattern analysis.
J.B. Phipps	National Research Council	Evolution of genera in Arundinelleae.
R.D. Van Huystee	Department of University Affairs	Nucleic acid metabolism in plants.
	National Research Council	Irradiation effect on ribo nucleic acids.
D.B. Walden	National Research Council	Cytogenetic Studies in Zea mays L.
A.M. Wellman	National Research Council	Growth of fungi before and after cryogenic storage.
D.G. Wilson	Department of University Affairs	An investigation of the organic acids in succulent plants.
Chemistry		
A.R. Allnatt	National Research Council	<ol> <li>Thermal diffusion and electrical properties of crystals.</li> <li>Statistical mechanics of defects, and of</li> </ol>
		simple fluids.
N.C. Baird	National Research Council	Molecular orbital theories and calculations for covalently-bonded molecules.
H.W. Baldwin	National Research Council	Oxygen 18 exchange between solvent water and aquo ions.
D.R. Bidinosti	National Research Council	Electron-impact and high-temperature studies by mass spectrometry.
	U.S. Air Force Office of Scientific Research	Some Thermochemical Studies by Mass spectrometry.
J.R. Bolton	National Research Council	ESR studies in light-induced free radicals.
J.C.D. Brand	National Research Council	Electronic spectra of polyatomic molecules.
R.K.C. Chan	National Research Council	Equipment Grant.
	Ontario Hydro	Study of Limestone/Sulphur Dioxide reaction.
	National Research Council	Physico-chemical effects of pressure.
	Department of University Affairs	Control of sulphur dioxide emission from sulphur- bearing coals by powdered limestone and dolomite.
H.C. Clark	North Atlantic Treaty Organization	Aspects of the organo-metallic chemistry of germanium tin and lead.
	American Chemical Society	The Activity of Olefins toward Metal-Metal Bonds.
	National Research Council	Research project for Research Associate Dr. Beg.
	Imperial Oil Limited	Chemical research.
	Dupont of Canada Limited	Chemical research.
	National Research Council	Equipment grant.
	National Research Council	Science Scholarship awarded to Mr. Walter J. Cherwinski.
	National Research Council	Studies of Organometallic and Co-ordination

Compounds.

Grantee	Granting Agency	Description of Project
C. Prevedorou-Demas	National Research Council	Synthesis of oligomeric metalloxane dialkyl siloxanes and related compounds.
P. De Mayo	American Chemical Society	Flash Thermolysis.
	Bristol Laboratories	Chemical Research.
	Dow Chemical Limited	Chemical Research.
	National Research Council	Organic Chemistry.
	U.S. Public Health	The Constitution of Primycin.
	Schering Corporation Limited	Chemical Research.
	Squibb Institute	Chemical Research.
	National Research Council	Photochemistry Laboratory.
D.M. Graham	National Research Council	Photochemical investigations.
J.P. Guthrie	National Research Council	Models for the enzyme-substrate complex- formation.
R.A. Haines	Department of University Affairs	Resolution and studies of optically active halogenoacetato complexes of cobalt (III). Structure and stereochemistry of metal complexes.
D.H. Hunter	National Research Council	Geometry of carbanions.
	University of Western Ontario	Chemical research.
P.W.M. Jacobs	Defence Research Board	Physical chemistry of solid fuel propellants.
	National Research Council	Optical and electrical properties of crystals. Solid Fuel Rocket Propellants.
	U.S. Office of Naval Research	Research in photochemistry in Solids.
R.G. Kidd	National Research Council	Nature of the metal-ligand bond in coordination complexes of metals.
J.F. King	American Chemical Society	Organic Sulphur Mechanisms.
	National Research Council	Mechanism, stereochemistry and organic sulfur reactions.
	Alfred P. Sloan Foundation	Research Fellowship.
J.W. Lorimer	Defence Research Board	Thermal diffusion in ion-selective membranes.
	Defence Research Board	The chemistry of Water-Repellent Compounds.
	National Research Council	Transport Processes in Ion-selective membranes.
Thomas C.W. Mak	National Research Council	X-ray analysis of crystal structures.
	Department of University Affairs	X-ray crystallography.
W.J. Meath	National Research Council	Studies in intermolecular and intramolecular forces.
N.C. Payne	National Research Council	Determination of absolute configurations, crystal and molecular structures of inorganic complexes.
B.C. Smith	National Research Council	Reactions of sulphur dioxide with organometallic compounds.
J.B. Stothers	National Research Council	Equipment grant,
	National Research Council	Reaction mechanism studies and NMR Spectroscopy.
A.J. Sukava	National Research Council	Electrodeposition and cathode overpotential studies.
E.W. Warnhoff	National Research Council	Natural product studies; alpha-halo ketone reactions.

Grantee	Granting Agency	Description of Project
P. Reynolds Warnhoff	National Research Council	Rearrangements of di-secondary epoxides of fixed stereochemistry.
C.J. Willis	Defence Research Board	Studies on the synthesis and properties of perfluoro-alkyl silicones.
	National Research Council	Studies on fluorinated alcohols and alkoxides.
Computer science		
G.F. Beckhoff	National Research Council	Graph application in system-theory.
J.M. Carroll	Canada Council	Privacy and the computer.
	National Research Council	Automatic indexing by statistical modelling.
C.B. Dunham	National Research Council	Bessel function routines for large arguments.
I. Gargantini	National Research Council	A zero-finding routine for polynomials.
J.F. Hart	National Research Council	Equipment grant.
	National Research Council	Equipment grant.
	IBM Canada Limited	Research in computer aided instruction.
	National Research Council	Least Maximum Approximation in more than one variable.
	National Research Council	Towards the cost of the Fourth Biennial Research Seminar of the Computer Science Association Montreal, June 1969.
K. Langland	IBM Canada Limited	Computerized Electrocardiogram Analysis.
Z.W. Pylyshyn	National Research Council	Development of techniques and programs for computer aided natural language text processing.
F. Zabransky	National Research Council	Viscous incompressible fluid flow in three dimensional basins.
Computing Centre		
G.T. Lake	Defence Research Board	Graphic aids to programming.
	National Research Council	Computing facilities for research and teaching. Support of computing centre. Character generator; vector generator.
General		
A.E. Scott	University of Western Ontario	General Research.
Geology		
W.R. Church	Geological Survey of Canada	Geology of the Burlington Peninsula and adjacent
w.n. Church	Geological Survey of Callada	areas, northeast Newfoundland.
	National Research Council	Eclogites, ariegites and associated ultramafics. Geology of the Flatwater Pond—Westport and Confusion Bay regions, Newfoundland.
	Department of University Affairs	Stratigraphy, structure and sedimentology of the Proterozoic rocks north-east of Manitoulin Island.
A. Dreimanis	Geological Survey of Canada	Provenance of Diamonds in Glacial Drift, Great Lakes Region.

National Research Council

Studies of Wisconsin Tills in South-western Ontario.

		Description of Project
Grantee	Granting Agency	Description of Project
A.D. Edgar	North Atlantic Treaty Organization	
	National Research Council	Equipment Grant.
	Geological Survey of Canada	Comparative studies of lithium-bearing pegmatites.
	Geological Survey of Canada	Geochemistry of the Montgary, Manitoba lithium-bearing pegmatites.
	National Research Council	Experimental studies of igneous rocks and minerals.
	Department of University Affairs	Studies in accessory minerals in Alkaline undersaturated rocks in Ontario.
R.N. Farvolden	National Research Council	Regional Hydrogeology in Southern Ontario.
M.E.L. Fleet	National Research Council	Geochemistry and structure of sulphide minerals.
R.W. Hutchinson	North Atlantic Treaty Organization	Comparative Study of Turkish and Canadian  Massive Suplide Ore Deposits.
	Anaconda American Brass Limited	Geological Research
	Amax Exploration Incorporated	Support of Research in Applied Mineral Deposits.
	Callahan Mining Corporation	Research for master's thesis in Geology.
	Opemiska Mines Limited	Mineralogy of the Opemiska ore deposits.
	Lake Dufault Mines Limited	A Study of the Lake Dufault Mine.
	National Research Council	Genesis of massive sulfide ores, primary and metamorphic stages. Detailed studies of the chemalloy (Montgary) Pegmatite, Manitoba.
	National Research Council	Electron probe study of pyrrhotite, its varieties, distribution and origin in Canadian massive sulphide ores.
A.C. Lenz	Geological Survey of Canada	Upper Silurian and Lower Devonian brachiopods at Royal Creek area, Yukon.
	Department of University Affairs	Middle and Upper Silurian Paleogeography and Biostratigraphy of southern Ontario.
	National Research Council	Silurian and Devonian graptolite and brachiopod biostratigraphy of Northern Yukon; with emphasis on the Upper Silurian and Lower Devonian.
N.D. MacRae	National Research Council	Geochemical relations of silicate oxide-sulphide assemblages on mafic rocks.
J. Starkey	National Research Council	Equipment grant.
	National Research Council	The study of crystal orientations in synthetically and naturally deformed polycrystalline aggregates and an investigation of the crystal structure of the deformed crystals.
G.G. Suffel	Department of University Affairs	Nature and origin of certain sedimentary banded iron formations of Ontario.
	National Research Council	Genesis and metamorphism of massive sulphide ores
P.G. Sutterlin	Geological Survey of Canada	Development of a Geochemical Data File using the Free-Form Format System.
	National Research Council	An integrated data processing system for geological data.
C.G. Winder	Treasury and Economics	Structural Geology of Southwestern Ontario.
		Structural geology of Southern Ontario.

Grantee	Granting Agency	Description of Project
C.G. Winder	Hudson Bay Oil and Gas Company	Geological Research
	National Research Council	Paleozoic stratigraphy of Southwestern Ontario
G.M. Young	Geological Survey of Canada	Stratigraphy, structure and sedimentology of the Precambrian rocks of Harrow and McKinnon townships, Ontario.
	National Research Council	Geology Symposium.
	National Research Council	Stratigraphy, sedimentation and paleoclimatology of early proterozoic rocks.
Geophysics		
A.E. Beck	North Atlantic Treaty Organization	NATO Advanced Study Institute.
	National Research Council	NATO Advanced Study Institute.
	Sundry Donors	Geophysics Research.
	National Research Council	Post-Doctoral Fellowships and Graduate Student Salaries.
	National Research Council	Geothermal investigations.
	Standard Oil Foundation Inc.	Geophysics Research.
C.M. Carmichael	National Research Council	Geomagnetism, age determinations and isotope studies.
L.M. Mansinha	National Research Council	Chandler Wobble studies.
	Department of University Affairs	Oil Bearing Structure in the Sarnia Area.
R.F. Mereu	Defence Research Board	The crust and upper mantle of the Canadian Shield.
	National Research Council	Deep and shallow crustal sounding Research.
H.C. Palmer	International Nickel Company of Canada	Fellowship for Mr. R.B. Marlow.
	National Research Council	Paleomagnetic studies of Canadian rock units and Mesozoic and Tertiary rock units of South America.
H.H. Schloessin	National Research Council	Equipment grant.
	National Research Council	Physical properties of earth materials at high temperatures and pressures.
Mathematics		
M.M. Ali	National Research Council	Rate of convergence of random variables.
R.G. Biggs	National Research Council	Abelian groups.
D. Borwein	National Research Council	Summability of Series and Integrals.
R.N. Bryan	National Research Council	A linear differential system with boundary and interface conditions.
F.P.A. Cass	Department of University Affairs	Summability of series and integrals.
	National Research Council	Summability of series and integrals.
L.K. Chan	Department of University Affairs	Convergences of estimates.
	National Research Council	Convergency of best linear estimates.
R.H. Cole	National Research Council	General Boundary conditions for ordinary differential equations.
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National Research Council

J.B. Florence

Constructive analysis.

Grantee	Granting Agency	Description of Project
M.S. Haq	Department of University Affairs	Structural method of statistical inference.
	National Research Council	Local structural analysis for discrete statistical models.
A.G. Heinicke	National Research Council	A torsion theory for modules.
D. Naylor	National Research Council	Eigenvalue and eigenfunction problems.
C.M. Reis	National Research Council	Automorphisms of finite p-groups.
I.J.W. Robinson	National Research Council	Tauberian theorems for Borel type methods of summability.
B.L.R. Shawyer	National Research Council	Summability of series and integrals.
T.M. Viswanathan	Department of University Affairs	<ol> <li>Structure of ordered rings.</li> <li>Ordered modules which are injective.</li> </ol>
T.H. Wonnacott	National Research Council	Semi-valuations and ordered rings
	National Research Council	The statistical analysis of simultaneous- equation regression models.
Physics		
Y.F. Bow	National Research Council	Theoretical Study on Nuclear Magnetic Moment and Nuclear Magnetic Transitions.
E. Brannen	Defence Research Board	Submillimeter Laser Research
	National Research Council	Submillimeter radiation research with a racetrac microtron and gas laser.
H.I.S. Ferguson	National Research Council	Ion Beam spectroscopy of gasses and solids.
P.A. Forsyth	Defence Research Board	VHF radio wave scattering in the ionosphere.
	National Research Council	Equipment Grant.
	Department of Transport	Metor Winds.
	National Research Council	Radio physics of the high atmosphere.
	National Research Council	Rocket, satellite and radar studies of ionospheric irregularities.
P.A. Fraser	National Research Council	Theoretical studies in atomic collisions.
H.R. Froelich	Department of University Affairs	Development of a Three Orbit Racetrack Microtron.
	National Research Council	Racetrack microtron theory and far-infrared absorption in solids.
J.A. Fulford	National Research Council	Measurement of apparent positions and motions of solar radio sources.
D.F.M. Gallaher	National Research Council	Alfa and proton-hydrogen scattering.
D.R. Hay	Defence Research Board	Physics of the troposphere as related to UHF radio transmission.
	Department of Transport	Micrometeorology of the Outer Layer of Frictional Influence.
	North Atlantic Treaty Organization	n Advanced Study Institute.
	National Research Council	Advanced Study Institute.
	National Research Council	Laser probing of the lower atmosphere.
	United States Air Force	Research directed toward a study to reduce temperature and humidity transient effects on stability for the high-frequency capacitive microwave refractrometers.
W.R. Jarmain	National Research Council	Theoretical studies of diatomic band and contin

intensites.

Grantee	Granting Agency	Description of Project
P.K. John	National Research Council	Equipment Grant.
	National Research Council	Equipment Grant.
	Department of University Affairs	Construction and evaluation of a multi-channel detection system.
	National Research Council	An investigation of the reliability of probe measurements of plasma parameters by means of laser scattering. Study of self-focussing of light in solids using a laser beam.
J. Jones	National Research Council	The determination of the electron density profiles of meteor trains.
D.R. Lane Smith	Defence Research Board	Electrification of a highly convective explosion cloud.
	National Research Council	A preliminary investigation of atmospheric electrical processes in Southwestern Ontario.
R.P. Lowe	Defence Research Board	Infra-red airglow studies.
	Department of University Affairs	Cross-sections for ion-molecules excitation.
	National Research Council	Excitation in ion-molecule collision.
G.F. Lyon	Defence Research Board	Ionospheric studies using satellites.
	National Research Council	Radio Studies of auroral structures.
J.W. McGowan	National Research Council	Equipment grant.
	National Bureau of Standards (U.S.)	Preparation of a book entitled "The Role of Excited Particles in Chemical Physics".
	National Research Council	Atomic and Molecular collision physics.
D.R. Moorcroft	National Research Council	Studies of Ionosphereic Scattering.
R.C. Murty	Department of Transport	Carrying out research directed toward the development of equipment and techniques for the detection and tracking of lightning strokes and their differentiation into types.
	National Research Council	Atmospheric electricity.
	Department of University Affairs	Electrical Studies of Thunderstorms.
G.S. Rose	National Research Council	A study of the interaction between a streaming plasma and a transverse magnetic field.
B.Y. Tong	National Research Council	Studies in one-dimensional alloys. Studies of non-linear optics in crystals.
E.L. Vogan	National Research Council	Rocket and associated studies of the lower ionosphere.
P.W. Whippey	National Research Council	Equipment grant.
	Department of University Affairs	Effect of external electrical fields on the symmetrie of rare earth ion sites on CaF2.
	National Research Council	An investigation of defect states in rare earth doped MF2, M Ca, Ba, Sr.
Vice-President Acade	emic	
R.J. Rossiter	J.B. Smallman Memorial Fund	Research in the Humanities and Sciences.
Zoology		
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National Research Council

H.I. Battle

Embryonic responses of teleosts to selected pro-

tein and R.N.A. inhibitors.

Grantee	Granting Agency	Description of Project
T.K.R. Bourns	National Research Council	Host-parasite relationships of Trematodes in Ontario.
	Department of University Affairs	Studies on host parasite relations.
	Canadian National Sportsmen's Show	Blood fluke disease in ducks.
R.W. Dunbar	Department of University Affairs	Cytotaxonomic evolutionary studies in simuliidae.
	National Research Council	Cytotaxonomic and evolutionary studies in black flies.
J.A. George	Defence Research Board	Control of Cluster Flies.
	Department of University Affairs	Biology of Cluster Flies.
	National Research Council	Induced sterility in insects.
W.N. Holsworth	Department of University Affairs	Ecology and Social Behaviour of the White Tailed deer in Ontario.
	Canadian National Sportsmen's Show	Ecology and Social Behaviour of the White Tailed deer.
	National Research Council	Social Behaviour, Ecology, and Population Control of mammals.
	Canadian Wildlife Service	Mercury uses in Canada and their effects on wildlife.
W.W. Judd	National Research Council parative study	Inheritance of colour pattern in polygonia; comparative study of the proventriculus in Carabid beetles.
M. Keenleyside	National Research Council	Social behaviour and activity patterns in fish and insects.
B.C. Lieff	Cyanamid of Canada	Zoological research.
C.D. MacInnes	National Research Council	A quantitative investigation of the ecology of Canada geese and other bird species nesting near the mouth of the McConnell River, N.W.T.
	Canadian National Sportsmen's Show	Winter Phase of Family Group Behaviour of the Blue and Snow Geese.
	Canadian Wildlife Service	Banding Canada Geese and Blue and Snow Geese, in the McConnell River Area, N.W.T. Study of family group behaviour of Blue Geese, McConnell River, N.W.T.
D.B. McMillan	National Research Council	Studies in comparative histology and ultrastructure.
R.K. Misra	Department of University Affairs	Genetical aspects of variations among populations of Canada Geese.
	National Research Council	Genetic Aspects of variations among animal populations.
D.M. Ogilvie	National Research Council	Equipment grant.
	National Research Council	Temperature regulation and adaptation in homeotherms.
R.J. Planck	National Research Council	The role of extra-retinal photoreception on photoperiodism in birds.
J. Purko	National Cancer Institute	Biological actions of the alkylating agents and mechanisms of resistance to their effects.

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Grantee	Granting Agency	Description of Project
J. Purko	Department of University Affairs	Biological action of the "chemosterilant", hempa (hexamethylphosphoric triamide) and mechanism of resistance to its effects.
	National Research Council	Molecular events in early embryogenesis and their possible significance in development.
R.R. Roth	Department of University Affairs	Metabolic pathways of steroid hormones in freshwater teleosts.
D.M. Scott	National Research Council	Biology of passerine birds.
R.R. Shivers	Department of University Affairs	Ultra Structural Studies of Oogenesis and the Vitellogenesis in Meiotically Impaired Drosophila Eggs.
	National Research Council	Fine structure of crayfish neurosecretory organs.
J.E. Steele	National Research Council	Equipment Grant.
	National Research Council	Metabolic and developmental regulatory mechanisms in insects.
	Department of University Affairs	Studies on Insect Blood Proteins.
R.H. Stinson	National Research Council	A study of physiological and ecological differences in slugs of the genera Deroceras and Arion.
Economics		
R.Y.M. Andrieu	University of Western Ontario	Elasticity of Substitution and Derived Demand.
R.W. Baguley	University of Western Ontario	Monetary Policy in an Open Economy.
K.B. Bhatia	University of Western Ontario	A Study of Income Distribution of Capital Gains in the United States.
A.G. Blomqvist	University of Western Ontario	Monetary Policy in Nigeria.
R.G. Bodkin	Canada Council	A Set of Additively Consistent Consumption Category Relationships.
	Canada Council	Quantitative Studies in Canadian Economic Policy.
	University of Western Ontario	Orders-Shipments Mechanism in Canadian Producer Good Industries.
D.F. Burgess	University of Western Ontario	International Capital Movements.
K.H. Burley	University of Western Ontario	The Impact of Ocean Freight Rates on International Trade.
C.S. Clark	University of Western Ontario	Overhead Labor Lag.
D.W. Conklin	University of Western Ontario	Soviet Profit Reforms.
T.J. Courchene	Canada Council	Domestic and International Money: An Empirical Investigation.
	Canada Council	Quantitative Studies in Canadian Economic Policy.
	University of Western Ontario	Domestic and International Monetary Policy.
G.R. Fisher	University of Western Ontario	Symmetry and Idempotence in Econometrics.
J. Fried	University of Western Ontario	Money, Value and Exchange.
S.J. Friedberg	University of Western Ontario	Causes of Rigid Prices.
F.D. Gately	University of Western Ontario	Investment Planning for the Electric Power Industry: An Integer Programming Approach (With Application to India).
H. Herberg	University of Western Ontario	Money as a Producer's Good in a Context of a Growing Economy.

Growing Economy.

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Grantee	Granting Agency	Description of Project
H.T. Johnson	Canada Council	Cost Determination in Large-Scale American Industrial Firms, 1880-1920.
	University of Western Ontario	Impact of Transportation and Urbanization on Rural non-farm Business Organization U.S. 1900-1930.
K.R. Kadiyala	National Research Council	Prediction in the presence of disturbances whose moments do not exist.
	University of Western Ontario	Small Sample Properties of K-Class Estimators.
E.J.D. Ketchum	University of Western Ontario	An "Excess-labour" Model of Short-run Productivity Change.
P.G. Kirkham	University of Western Ontario	Distributed Lag Functions and Financial Intermediaries.
L.A. Kochin	University of Western Ontario	A New Method of Estimating Agricultural Supply Elasticities.
J.D. May	University of Western Ontario	Cost of Funds in Canadian Manufacturing.
J.R. Melvin	Canada Council	Studies in the theory of international trade.
	University of Western Ontario	Theoretical Studies in Macroeconomics.
L. Parai	Department of Labour	A study in short-term fluctuations in Canadian international migration, 1964-65.
	University of Western Ontario	Effects of Recent Changes in Canadian Immigration Policy.
C.G. Plourde	University of Western Ontario	Replenishable Natural Resource Exploitation.
G.L. Reuber	Canadian International Development Agency	Twinning arrangement between the University of Ghana and the University of Western Ontario to develop the Department of Economics at the University of Ghana.
	Canadian International Development Agency	Ghana Project Economic Development Workshop.
P.N. Roy	University of Western Ontario	Capital Flows and Stabilization Policy.
	University of Western Ontario	Research in Labour Theory and Economic History.
J.E. Tanner	University of Western Ontario	Shifting of the Corporate Income Tax.
Y. Toda	Canada Council	Comparison of consumption and productive efficiency.
	University of Western Ontario	International Comparisons of Consumption Levels and Production Efficiencies.
P. Tomlinson	University of Western Ontario	Positive Theory of Public Sector Resource Allocation.
R.J. Wonnacott	University of Western Ontario	The Various Multicollinearity Problems in Systems Estimation.
L.S. Zudak	University of Western Ontario	Extension of Sequence Supply Model to Canadian Industry.
General		
G.L. Reuber	Canada Council	To continue quantitative studies in Canadian Economic Policy.
	University of Western Ontario	General research.
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Geography	T	E in Denimate
P.M. Bruer	Treasury and Economics	Erie Project

A Land Use Analysis and Development Model of

the Strathroy Area.

Treasury and Economics

Grantee	Granting Agency	Description of Project
R.W. Butler	Treasury and Economics	An Evaluation of the Significance of Travel Time
		in the Recreational Day Trip.
	Treasury and Economics	A Study of the Recreational Activity Patterns of Urban Residents, Case Study: London, Ontario.
	University of Western Ontario	Outdoor Recreation Facility Data Book.
J.C. Day	Department of University Affairs	Modifications induced in stream-channel morphology and vegetation by river-control structures.
	University of Western Ontario	Water Management on an International River: The Lower Rio Grande.
M.F. Goodchild	National Research Council	Geographical Research.
	University of Western Ontario	The Division of Space for Administrative Purposes.
H.A. Hosse	Canada Council	Comparative Study of Regional Planning in Canada.
	Department of Treasury and Economics	Industrial Location and the Regional Implications of housing.
D.J. Janelle	University of Western Ontario	Transportation Improvement and the Gravitation of Economic Activity.
N.L. Nicholson	University of Western Ontario	A Re-evaluation of the "Pioneer Fringe" Concept.
R.W. Packer	Geological Survey of Canada	Slope studies on Pleistocene Material.
	Department of University Affairs	Ice Effect Study.
A.K. Philbrick	University of Western Ontario	Erie Region Transportation Pilot Study.
E.G. Pleva	Essex Kent Regional Tourist Council	The Baldoon Study.
V.M. Sim	Department of Energy, Mines and Resources	Quantitative Observations on the Effects of Fluvial and Masswasting Processes on the Lake Erie Shore-bluff and in Adjacent First and Second Order Stream Channels South of London, Ontario.
	Department of Treasury and Economics	Master's Thesis by R.M. Welch, "International Water Quality Management: A Case Study in the St. Clair-Detroit River Reach of the Great Lakes".
	University of Western Ontario	Examination of Till Surface Topography at Department of Geography Field Station, West of Port Bruce.
H.W. Taylor	Canada Council	Construction, testing and application of models relating to farm size, land tenure, farm investment and land productive, Colombia.
M.J. Troughton	Canada Council	A comparative study of the farm units in Ontario and Denmark.
	University of Western Ontario	A Comparison of Functional Farm Units in Denmark and Ontario.
C.F.J. Whebell	Department of Treasury and Economics	Distributional Pattern of Net Migration Parameters in Southern Ontario, 1961-1966.
	Department of Energy, Mines and Resources	Critical Bibliography of Maps of Southern Ontario, 1780-1879.
	Department of Treasury and Economics	London's Migration Field.
	University of Western Ontario	House Types of Nineteenth Century — Ontario.

Grantee	Granting Agency	Description of Project
W.R. Wightman	Department of Energy, Mines and Resources	The Historical Geography of Southwestern Ontario, 1780-1960.
	University of Western Ontario	Colonial Atlas of Southern Ontario.
History		
F.H. Armstrong	Canada Council	Colonial Rule in Lower Canada 1763-1848.
	University of Western Ontario	Research while on Sabbatical leave.
D.H. Avery	University of Western Ontario	A Study of Leadership: The National Progressive Party, 1919-1926.
R.L. Emerson	University of Western Ontario	A Statistical Profile of Scottish Intellectuals c. 1700-1800.
G.N. Emery	University of Western Ontario	A Study of the Methodist Church on the Canadian Prairies, 1896-1914.
T.N. Guinsburg	Canada Council	Senatorial Isolationism in America, 1919-1941.
	University of Western Ontario	Senatorial Isolationism in America from Versailles to Pearl Harbour.
D.S. Hoffman	University of Western Ontario	Book on Germany in the 19th Century.
R.A. Hohner	Canada Council	Biography of Bishop James Cannon Jr. (1864-1944).
	University of Western Ontario	A biography of Bishop James Cannon, Jr., the American temperance leader, Methodist churchman, and political figure.
A.M.J. Hyatt	University of Western Ontario	Research on the historical background of current strategic problems.
D.G.G. Kerr	Canada Council	An Historical Analysis of Canadian Federal Elections, 1867 to the present.
F.K. Metzger	University of Western Ontario	Mazarin and the French Nobility, 1653-1660.
P.F. Neary	University of Western Ontario	Research into History of Anglo American Relations 1907-1913.
J.C.M. Ogelsby	University of Western Ontario	Canada in Latin America.
R.C. Overton	University of Western Ontario	Research for completing issue of "Palimpsest" entitled "The Burlington Comes".
G.O. Rothney	University of Western Ontario	Current Research.
C.A. Ruud	University of Western Ontario	Book on Reform Period, 19th Century Russia.
I.K. Steele	University of Western Ontario	British Imperial Correspondence, 1675-1737.
M. Zaslow	Canada Council	Completion of study on the opening of the Canadian North, 1870-1967.
Journalism		
E.J. Beattie	University of Western Ontario	Maximizing the Use of Television in Communication Lecturing.
W.B. Key	University of Western Ontario	Ten Year Circulation Analysis of Selected Canadian Newspapers.
Physical Health and I	Education	
D.A. Cunningham	University of Western Ontario	Metabolic Adjustments to Exhaustive Exercise.
R.B. Eynon	University of Western Ontario	The Effects of Competitive Swimming Training on Age Group Swimmers.

Grantee	Granting Agency	Description of Project
W.J. L'Heureux	Department of National Health and Welfare	Research Associateship — Dr. Cunningham.
	Department of National Health and Welfare	Equipment Grant.
B.M. Petrie	University of Western Ontario	The Place of Athletics in the University Environment.
J.R. Richardson	University of Western Ontario	The Effect of Fitness Development on the Learning of a Gross Motor Skill in Perceptually Handicapped and Emotionally Disturbed Children.
R.C. Watson	University of Western Ontario	Ice Hockey: Reaction time and movement time.
M.S. Yuhasz	Fitness and Amateur Sport	Effects of a Twenty-week Exercise Program on Post-infarct and Clinically Healthy Males.
Political Science		
J. Cartwright	University of Western Ontario	Political leadership and political support in Sierra Leone.
W.F. Dawson	University of Western Ontario	The Speaker in the Commonwealth.
W.M. Dobell	University of Western Ontario	Cyprus in World Politics.
C.C. Dunlop	University of Western Ontario	National Film Board.
W.D. Gagne	University of Western Ontario	Class Voting in Canada.
M.J. Hrabik	University of Western Ontario	Relation of demographic variables.
H.K. Khanh	University of Western Ontario	Projects for Democratic Politics in Vietnam.
R.A. Melvin	University of Western Ontario	A Book on the Concept of Interest.
G.P. Murray	University of Western Ontario	Special Relationships and the North Atlantic Triangle
S.J.R. Noel	University of Western Ontario	A Comparative Study of Canadian Provincial Political Parties.
Psychology		
D. Baran	National Research Council	Responses of several rodents and primates to bio-
D, Daran	Trational Trescaron Council	logical odours produced by conspecifics.
	University of Western Ontario	Responses to Biological Odours Produced by Conspecifics.
A.K. Bartoshuk	National Research Council	Psychophysical magnitude estimations during arousal habituation.
	University of Western Ontario	Psychophysical Magnitude Estimations During Arousal Habituation.
F.D. Colman	National Research Council	Sequential and parallel information processing and pupillary dialation.
A.J. Conger	University of Western Ontario	Multidimensional Scaling of Personality Items:  I, Depression.
J.P. Denny	National Research Council	The relation of information and memory variables in concept formation.
R.C. Gardner	Canada Council	Bicultural Communication: The Significance of Stereotypes.
M.S. Goodstadt	Canada Council	Helping and the Dependent Relationship.
	University of Western Ontario	Involvement in the Helping Relationship.
D.N. Jackson	Alcoholism & Drug Addiction Research Foundation	Behavioural Studies in Alcoholism.
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Grantee	Granting Agency	Description of Project
D.N. Jackson	Ontario Mental Health Foundation	A Research Program in the Assessment of Psychopathology.
	University of Western Ontario	Measurement of Vocational Interests and Values.
S.B. Kendall	National Research Council	Studies of temporal conflict.
	University of Western Ontario	An Investigation of Behavioral Contrast.
D. Kimura	Foundations Fund for Psychiatry	The Development of Functional Brain Asymmetry in Normal Children and in Children with Reading Disability.
	National Research Council	Functional Asymmetry of the brain in perception.
R.M. Knights	Ontario Mental Health Foundation	The effects of cerebral lesions on the Psychological test performance.
H.O. Lobb	Ontario Mental Health Foundation	Human test system equipment.
	Ontario Mental Health Foundation	Basic learning deficits in mental retardation.
	National Research Council	Contrast effects of reward and nonreward.
	University of Western Ontario	Contrast effects of reward and nonreward.
G.J. Mogenson	National Research Council	Neural mechanisms of motivation and learning.
G.A. Mulcahy	University of Western Ontario	The Effects of Varying Situational Variables on Subsequent Attitude Change.
H.G. Murray	Defence Research Board	Effect of stimulus pre-exposure upon auditory reaction time.
	National Research Council	Stochastic models of response latency.
	University of Western Ontario	Interstimulus Interval Effects in Verbal Associative Learning.
A. Paivio	National Research Council	Mediating processes in verbal learning.
	University of Western Ontario	Mediating processes in verbal learning.
J. Partington	Canada Council	To study individual differences in social cognition.
D.R. Pederson	Ontario Mental Health Foundation	Reaction of Infants to vestibular stimulation.
	National Research Council	Children's reactions to nonreward: Facilitation and interference effects.
	University of Western Ontario	Development of the depth perception in human infants.
D.S. Prytulak	University of Western Ontario	Disagreement in personality judgments with multiple reference points.
L.S. Prytulak	National Research Council	Natural language mediation in short-term memory and paired-associate.
	University of Western Ontario	Stimulus generalization as an encoding process.
W.E. Reitz	Canada Council	Research on the reinforcing properties of attitudes.
M. Rieber	Abbot Laboratories Limited	Study of Cylert (Magnesium Pemoline)
T.B. Rogers	University of Western Ontario	The relation between desirability and endorsement.
G.B. Rollman	National Research Council	Temporal determinants of tactile sensation.
	University of Western Ontario	Interaction of Tactile and Electrocutaneous Pulses.
M.M. Schnore	Ontario Mental Health Foundation	Cognitive Functioning in the Aged.
T.F. Siess	Ontario Mental Health Foundation	An evaluation of teachers' assessments of children's adjustment.

Grantee	Granting Agency	Description of Project
T.F. Siess	University of Western Ontario	An evaluation of teachers' assessments of children's adjustment.
M.L. Simner	National Research Council	The influence of prehatch exposure to photostiumulation on posthatch preferences for visual flicker in chicks.
	University of Western Ontario	The influence of prehatch exposure to photostimulation on posthatch preferences for visual flicker in chicks.
R.G.A. Stretch	Alcoholism and Drug Addiction Research Foundation	Effects of Behavioral and Pharmacological Manipulations upon Patterns of Drug Self-Administration Squirrel Monkeys.
	Medical Research Council	Pharmacological manipulation of schedule-controlled behaviour in squirrel monkeys maintained by intra- venous infusion and self-infusion procedures.
	National Research Council	Factors involved in the maintenance of free-operant avoidance behavior in animals with reference to the effects of selected drugs.
	University of Western Ontario	Drug self-administration in squirrel monkeys.
G.H. Turner	University of Western Ontario	Evaluation of Course Outcome: Psychology 46 (1967-68, 1968-69).
C.H. Vanderwolf	National Research Council	Neural Mechanisms of voluntary movement.
F.M. Van Fleet	National Research Council	Behavioural effects of pre-time out stimuli.
	University of Western Ontario	Frustration as a result of response cost.
N.J. Vidmar	Canada Council	Dynamics in group decision making.
	University of Western Ontario	Social Psychological Factors in Jury Decisions.
F.R. Wilkinson	Medical Research Council	Behavioral correlates of ipsi-lateral stimulation of adjacent retinal areas.
	University of Western Ontario	Optics and Lens Use.
M.J. Wright	University of Western Ontario	Department of Psychology's Research Bulletin.
	University of Western Ontario	Colloquium.
Sociology		
J.D. Allingham	Canada Council	The Determinants and Consequences of Patterns of Family Formation.
	University of Western Ontario	Basic Demographic Data Bank.
C.L. Boydell	University of Western Ontario	Public Opinions and Legal Sanctions.
G.E. Ebanks	Canada Council	Clients of the National Family Planning Program in Jamaica and their contraceptive use.
	University of Western Ontario	Social Development and Fertility Decline in Barbados.
P.M. George	Canada Council	Research on social factors affecting aspirations for higher education.
	University of Western Ontario	Social development and fertility decline in Barbados.
J.A. Geschwender	University of Western Ontario	Political orientations of university students.
C.F. Grindstaff	Canada Council	Male sterilization in Canada.
	University of Western Ontario	Male sterilization in Canada.
G.K. Jarvis	University of Western Ontario	Differentiation in Canadian Metropolitan Areas.

Grantee	Granting Agency	Description of Project
C.E. Nobbe	University of Western Ontario	Social Development and Fertility Decline in Barbados.
I.O. Okraku	University of Western Ontario	Religious Commitment Among University Students.
R.W. Osborn	University of Western Ontario	Therapeutic Abortion Study.
E.T. Pryor	University of Western Ontario	Historical Canadian Statistics.
J.W. Rinehart	University of Western Ontario	A Study of Plant Shutdown.
B.D. Singer	Canada Council	To study the social-psychological dynamics of the Detroit Riot.
	Canada Council	London mass communication study.
	London Mass Media Study	London mass communication study.
	Department of Health & Welfare (U.S.)	Detroit Riot Study.
	University of Western Ontario	Mass Media and Social Class: Their Functions; Attitudes Toward Them.
W.L. Skidmore	University of Western Ontario	Conceptual Clarifications and Theory.
J.I. Williams	University of Western Ontario	A Health Survey of London, Ontario.
	University of Western Ontario	An Estimate of Dental Health.
	FACULTY OF ENGINEE	ERING SCIENCE
S.H. Abu Sitta	National Research Council	Analytical and experimental investigation of static and dynamic behaviour of thin surfaces of revolution.
C.G.J. Baker	National Research Council	Hydrodynamics of three phase fluidized beds. Agglomerate particle analysis.
J.M. Beeckmans	Department of Health (Ontario)	Sonic Deposition of Smoke and Dusts on Filters.
	Department of National Health and Welfare	Atmospheric Lead Sampler.
	National Research Council	Intense sound phenomena.
M.A. Bergougnou	National Research Council	Equipment Grant.
	National Research Council	Design and scale-up fundamentals for fluid bed and transport reactors.
	Department of University Affairs	Design and scale-up fundamentals for fluid bed and transport reactors.
T. Bonnema	National Research Council	lonospheric studies using the geostationary satellites.
J.D. Brown	National Research Council	X-ray generation applied to electron probe microanalysis.
W. Bulani	University of Western Ontario	Engineering Research.
	Department of Health (Ontario)	Chemical Reactor and Separator Design Studies for the Reduction of Atmospheric Pollution.
	Department of Energy, Mines and Resources	Electrostatic studies in separation of materials.
	National Research Council	Study of electrochemical effects on chemical and physical rate-processes.
	Spring Chemicals Limited	To conduct studies on a project directed toward

the successful establishment of a pilot plant based

on Robinson process for treatment of waste

sulphite liquors.

Grantee	Granting Agency	Description of Project
G.S.P. Castle	National Research Council	Space charge effects in aerosols.
A.G. Davenport	Australian Mutual Provident Society	A study of wind effects on the proposed A.M.P. Tower, Sydney, Australia.
	Northumberland Consultants Limited	A study of wind action on proposed concrete bridge for Northumberland Straits Crossing.
	Canadian Bridge	Halifax Narrows Bridge Erection Study.
	C.D. Carruthers & Wallace, Consultants Ltd.	Canadian Imperial Bank of Commerce Building Study.
	Canadian Steel Industries Construction Council	Investigation of bracing requirements and drift limits for steel framed buildings.
	National Research Council	Equipment Grant.
	National Research Council	Equipment Grant.
	National Research Council	Extension of digital data acquisition system.
	Chappell-Taylor & Mitchell Co.	Wind Tunnel Investigation of the Griffin Tower, Dallas, Texas.
	Hydro-Electric Power Com- mission of Ontario	A Study of the Response to Wind for a proposed stack at Nanticoke Generating Station.
	C.D. Carruthers & Wallace, Consultants Ltd.	Metro Centre Study
	National Research Council	Aeroelastic and aerodynamic behaviour of structural shapes in turbulent and laminar flow.
	National Aeronautics and Space Administration	Investigation of Ground Wind Loads on Space Vehicles.
	Sears Roebuck & Company	A study of Wind Effects for the Sears Project, Chicago.
	Department of Transport	Comparison of Boundary layer turbulence properties as measured in the first 1,000 ft. of the atmosphere and in the new U.W.O. ground boundary layer wind tunnel.
	C.D. Carruthers & Wallace, Consultants Ltd.	Wind Tunnel Study of proposed stack for Toronto General Hospital.
	Skilling, Helle, Consultants, Limited	Wind Tunnel Investigation on Theme Building, Century City, Los Angeles, California.
	Skilling, Helle, Consultants, Limited	World Trade Center Study.
S.M. Dickinson	National Research Council	The lateral vibration of rectangular plates subject to in-plane forces.
R.M. Dillon	J.P. Bickell Foundation	To support a Research Project in Engineering Education.
	Canadian International Develop- ment Agency	Professor McGarry assignment in Thailand.
	University of Western Ontario	Summer students.
I.J. Duerden	National Research Council	Weldability of polyphase nickel alloys.
G.S. Emmerson	National Research Council	Leidenfrost phenomena. Pool boiling phenomena.
J.E.K. Foreman	Medical Research Council	Equipment Grant.
	Medical Research Council	Model and in vivo studies of arterial blood flow and post-stenotic dilatation.

Grantee	Granting Agency	Description of Project
A.J. Frick	National Research Council	Biaxial bending of impulsively loaded rigid-plastic structures.
G.A. Geach	National Research Council	Equipment Grant.
	National Research Council	Relationships between mechanical properties of engineering materials at high temperatures and their structure.
	United States Steel Foundation Inc.	Research in Engineering Science.
I.I. Inculet	University of Western Ontario	Engineering Research.
	University of Western Ontario	Engineering Research.
	Department of Health (Ontario)	Air Pollution Control.
	Department of Health (Ontario)	Laboratory Equipment — Air Pollution Control and Abatement.
	Dept. of Energy, Mines and Resources	Electrostatic benefication of Canadian raw and processed ores in fluidized beds.
	National Research Council	Static Electrification.
	Sundry Donors	Pollution Probe Research Fund.
N. Kosaric	National Research Council	Food flavours and additives.
L.S. Lauchland	National Research Council	Multi-input control device.
C.E. Livingstone	National Research Council	Two frequency angle of arrival measurements.
M. Novak	National Research Council	Vibrations of structures and foundations.
E.S. Nowak	Atomic Energy of Canada Limited	To check the enthalpy change of heavy water between the temperatures of 480° and 560° F.
	University of Western Ontario	Engineering Research.
	National Research Council	The thermodynamic behaviour of important engineering fluids.
	National Research Council	Heat flow through porous media as applicable in the recovery of heavy oils from petroleum reservoirs.
A.T. Olson	National Research Council	Boundary layer control by suction in conical diffusers.
W.H. Peacock	National Research Council	Influence of frequency on the liquefaction of sands.
	University of Western Ontario	For the construction of equipment.
M.P. Poucher	National Research Council	Flexible reinforced concrete pipe.
R.M. Quigley	H.G. Acres and Company	Soil Mineralogy, Grain Shape and Fabric, Mudstone Samples from the Proposed Northumberland Strait Crossing.
	H.Q. Golder & Associates, Limited	Clay Mineralogy soils from three slope failures in British Columbia.
	National Research Council	Mineralogical and fabric control on the physical behaviour of clay soils and shale rocks.
	Queen's University	Mineralogical analyses on three soil samples from Labrador, Ottawa and Mattagami.
P.A. Rosati	National Research Council	The response of rectangular prisms to wind load.
C. Roy	Atomic Energy of Canada Limited	To investigate the relationship between built-up stresses and the breakdown process in oxide films on zirconium alloys at temperatures between 350°-500°.

Grantee	Granting Agency	Description of Project
C. Roy	National Research Council	The effects of oxygen in solution and temperature on the elastic moduli of zirconium II. Dislocations and strength of bicrystals of CaF2.
J.S. Sheasby	University of Western Ontario	Engineering Research.
	National Research Council	Studies in high temperature chemical reactions.
K.A. Shelstad	Department of Health (Ontario)	Catalysis in Air Pollution.
	National Research Council	Studies in contact catalysis and related phenomena.
I.G. Soderman	National Research Council	Field determination of dynamic properties of Ontario soils.
R.K. Swartman	National Research Council	Absorption refrigeration. Bubble lift pump.
J.D. Tarasuk	National Research Council	The pressure volume temperature behaviour of heavy water and other important engineering liquids.
B.J. Vickery	Canadian Steel Industries Construction Council	The Behaviour at Collapse of Simple Elasto-Plastic Structure under the Action of Wind Loads.
	National Research Council	Wind effects on buildings and structures.
E.F. Wahl	National Research Council	Distillation column dynamics and mass transfer processes.
J.E. Zajic	Campbell Soup Company Limited	Sewage plant sampling and analysis program, St. Mary's plant.
	Dextran Products Limited	Dextranase production and recovery.
	Northern Electric Co. Ltd.	Analyzing gases in air in water treatment area.
	John Labatt Limited	Factors affecting the fermentation of B. subtilis.
	National Research Council	Biochemical engineering process studies.
	Imperial Oil Limited	Conversion of Methane of Food Products.
	Sun Oil Company	An investigation of the production of microbial flocculants for clays in Athabasca tailings pond water.
	Department of Energy, Mines and Resources	A Critical Review of Forced Aeration Techniques for the Processing of Effluent Wastes.

# **HEALTH SCIENCES**

# Faculty of Nursing

Amy Griffin	Department of Health (Ontario)	Students' Knowledge of Nursing.
	The Richard Ivey Foundation	Research Project – Nursing.
	The Richard Ivey Foundation	Special Research Projects.
V. Wood	The Richard Ivey Foundation	Special Research Projects.

# Faculties of Medicine and Dentistry

Anatomy		
G.G. Altmann	Medical Research Council	Factors influencing morphology and renewal in the epithelium of the small intestine of rats.
M.L. Barr	Joseph P. Kennedy Jr. Foundation	Mental Retardation.
	Medical Research Council	Studies in human genetics.

Grantee	Granting Agency	Description of Project
R.C. Buck	National Cancer Institute	The surface structures of normal and cancerous cells.
	Medical Research Council	For the purchase of an Electron Microscope.
	The Richard Ivey Foundation	For the purchase of an Electron Microscope.
	Medical Research Council	Cytologic Studies on Metaplasia.
	A.E. Silverwood Foundation	Research in Mental Retardation.
E. Donish	Medical Research Council	Structural changes with age in the lumbar intervertebral discs.
A.J. Gwinnett	Medical Research Council	Medical Research Scholarship.
D.G. Gwyn	Medical Research Council	Cholinesterase in the central nervous system.
M.L. Hollenberg	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	Studies of cell differentiation in the vertebrate eye.
K. Hoshino	Jane Coffin Childs Memorial Fund	Cancer Research.
	National Cancer Institute	Studies of breast cancer in mice.
	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	Hormonal influences upon development and function of endocrine and reproductive organs in mice.
	Medical Research Council	Studies on salivary glands in mice.
C. Levene	Medical Research Council	Vascularisation of growing cartilage.
D.G. Montemurro	National Cancer Institute	Cancer research.
	Medical Research Council	Study of the structure and function of pituicytes.
E.L. Shaver	Medical Research Council	Chromosome abnormalities in rabbit embryos.
R.P. Singh	Medical Research Council	Histochemical studies of the gonads of XO abortuses.
A.S. Wilson	Medical Research Council	Innervation of the diaphragm.
Bacteriology		
P.C. Fitzjames	Medical Research Council	Medical Research Associateship.
	Medical Research Council	M.R.C. Fellowship Grant.
	John Labatt Limited	Microbiology Research.
	Medical Research Council	Macromolecular synthesis in bacteria.
E.L. Medzon	Medical Research Council	Structure and function of vaccinia virus.
R.G.E. Murray	Collip Trust Fund	Immunology Research.
	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	Studies of Listeria monocytogenes.
	Medical Research Council	General Microbiological and cytological studies.
C.F. Robinow	Medical Research Council	For the support of Dr. B. Strejan.
J. Robinson	Medical Research Council	The mode of action of lysis of specific bacteria by Bdellovibrio.
J. Rozanis	Medical Research Council	The effect of PAS on nocardia.
G. Strejan	Medical Research Council	Hypersensitivity to ascaris antigens.

Fungistatic activity of normal and abnormal sera.

Bacteriology - Meek Laboratory

Medical Research Council

A. Bakerspigel

Grantee	Granting Agency	Description of Project
Biochemistry		
C.C. Bigelow	Medical Research Council	The physical chemistry of proteins.
	Medical Research Council	Protein denaturation and structure.
K.K. Carroll	Canadian Federation of Biological Societies	Secretarial Services.
	National Cancer Institute	An investigation of the substances in certain bacteria which cause run-away production of white blood cells.
	National Dairy Products Corporation	The Role of Dietary Fat in Cancer.
	Medical Research Council	M.R.C. Associateship.
	Ontario Heart Foundation	Dietary Control of Liver Cholesterol Biosynthesis.
	Medical Research Council	Analysis and metabolism of bacterial lipids.
R.A. Cook	Medical Research Council	A Physico-chemical study of the allosteric NAD- specific isocitrate dehydrogenase of neurospora crassa.
Bruce Gordon	Ontario Mental Health Foundation	Research Scholarship.
W.L. Magee	Multiple Sclerosis Society	Metabolism of Myelin.
	Medical Research Council	The ethanolamine-containing phospholipids of brain.
W.C. McMurray	Medical Research Council	Metabolic studies of mitochondrial lipids.
R.J. Rossiter	Medical Research Council	Biochemistry of the nervous sytem.
D.B. Smith	Medical Research Council	Structure of hemoglobin and hemoglobin-haptoglobin complex.
H.B. Stewart	Medical Research Council	Cytological organization and metabolism of yeast.
K.P. Strickland	Medical Research Council	M.R.C. Associateship.
	Muscular Dystrophy Association of Canada	Morphological and Chemical Changes in Myasthenia Gravis and Myasthenia-like Conditions.
	Muscular Dystrophy Association of Canada	Pre-doctoral Fellowships.
	Medical Research Council	The biosynthesis of phospholipids.
J.R. Trevithick	Medical Research Council	M.R.C. Scholarship.
	Medical Research Council	The role of basic nuclear proteins in development.
	Department of Unviersity Affairs	The fertilization and development of Trout Eggs.
D. Webling	Medical Research Council	Bile and bile salts in calcium metabolism.
Pathology		
D.G. Gardner	National Research Council	Studies on the oral tissues in certain systematic disorders.
	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	Studies on the oral tissues in certain systematic disorders.
M.D. Haust	Ontario Heart Foundation	The role of plasma proteins in human atherosclerosis.
	Ontario Heart Foundation	Immunohistochemical and electron microscopic studies of renal and cardiac arterioles in hypertension.

Grantee	Granting Agency	Description of Project
M.D. Haust	Medical Research Council	Immuno-electron microscopic studies of human atherosclerotic lesions.
	Geographic Trust Fund	Neuropathology Research.
J.C. Patterson	Ontario Heart Foundation	Localizing factors of early atherosclerotic plagues.
A.C. Wallace	National Cancer Institute	Studies of the factors involved in spreading tumors to different areas of the body.
B.A. Warren	National Cancer Institute	Cancer Research.
	Medical Research Council	Plasminogen activator activity of the endothelial cell.
Pharmacology		
E.H. Colhoun	Medical Research Council	M.R.C. Associateship.
	Medical Research Council	M.R.C. Associateship Grant.
	Medical Research Council	Metabolism of Amines.
	Medical Research Council	To support research conducted by Dr. E.H. Colhoun.
	Medical Research Council	Studies of microsomal enzymes.
C.W. Gowdey	Canadian Arthritis and Rheumatism Society	Anti-inflammatory activity of a series of glyceryl ethers.
	National Cancer Institute	Cancer Research.
	Defence Research Board	Studies on decompression aeroembolism.
	Medical Research Council	Study of vasodilator mechanism during reoxygenation following hypoxia.
	Smith Kline & French Laboratories	Studies on the common cold.
John T. Hamilton	Burroughs Wellcome Company	Study on Bretylium.
	Ontario Heart Foundation	An investigation of established and new anti- arrhythmic agents and a closer look at "gallamine- tachycardia".
	Medical Research Council	Closer study of the synaptic blockade produced by new and commonly-used agents.
M. Hirst	Medical Research Council	The effect of substitution in cholinomimetic agents.
J.M. Parker	Burroughs Wellcome Company Limited	The study of pseudo-ephedrine and other amiens.
	Defence Research Board	Studies of low-dose incapacitating effects of organophosphorus compounds.
	Delmar Chemicals Limited Research	Special research project.
	Department of National Health and Welfare	Physiological availability studies of various drugs in man.
	National Research Council	Study of analgesics by operant behavioural techniques
	Medical Research Council	Effect of drugs on different types of sleep.
	Medical Research Council	Study of analgesics by operant behavioural techniques
R.B. Philp	Medical Research Council	M.R.C. Fellowship Grant.
	Geigy Canada Limited	Study of pharmacological properties of persantine analogues.

Medical Research Council

Drug-induced alterations in platelet function.

Grantee	Granting Agency	Description of Project
Physiology		
D.C. Bondy	Medical Research Council	M.R.C. Fellowship Grant.
F.R. Calaresu	Ontario Heart Foundation	Control systems analysis of heart rate regulation by the vagus nerves in the cat.
	Medical Research Council	Physiological studies of central and peripheral pathways of cardiovascular and sexual reflexes.
J.B. Critz	Defence Research Board	Metabolic reactions to dietary, temperature and traumatic stresses.
	Ontario Heart Foundation	The effect of graded hypoxia on efflux of tissue enzymes.
	Medical Research Council	Effect of stimulated exercise on serum enzyme levels.
P.G. Dellow	National Research Council	Hypothalamic relationships to oral and salivary function.
	Medical Research Council	Trigeminal Responses and their central nervous relationships.
	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	M.R.C. Fellowship Grant.
J.P. Girvin	Medical Research Council	Motor unit discharge in voluntary activity clonus and Parkinsonism.
P.G.R. Harding	Medical Research Council	M.R.C. Scholarship.
	Geographic Research Fund	For the purchase of animals for research.
	Medical Research Council	Energy balance and lipid metabolism in the fetus.
P.F. Mercer	Medical Research Council	Equipment Grant.
	Medical Research Council	Changes in the distribution of electrolytes in the kidney due to renal specific diuretic drugs and body sodium balance.
G.J. Mogenson	Medical Research Council	The role of the nervous and endocrine systems in the control of behaviour.
A.A. Monjan	Medical Research Council	Role of steady potentials in the modulation of sensory systems.
J.J. Seguin	Medical Research Council	The role of proprioceptor mechanisms in shivering.
B.P. Squires	Medical Research Council	The regulation of pituitary and other polypeptide hormone secretion in animals and men.
G.W. Stavraky	Medical Research Council	Responses of partially isolated structures to chemical, reflex, and electric stimulation.
J.A.F. Stevenson	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	The role of the nervous and endocrine systems in the regulation of energy, water and electrolyte exchange.
	Medical Research Council	Metabolic and endocrine regulation of nutritional state.
	Sundry Donors	Miscellaneous Research in Physiology.
D.J. Stewart	Dean's Research Grant	The role of Phospholipids.

Grantee	Granting Agency	Description of Project
	Cancer Research L	aboratory
Judith K. Ball	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	Studies on the mechanism of induction of thymic lymphoma by a single, neonatal injection of DMBA.
K. Ebisuzaki	Medical Research Council	Studies on fine analysis of DNA; Recombination mechanisms.
J.V. Frei	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	Proliferation of mouse embryo cells treated with methylnitrosourea and related agents.
J.A. McCarter	National Cancer Institute	Cancer Research.
	National Cancer Institute	Equipment Grant.
	National Cancer Institute	Fellowships and Studentships.
	Medical Research Council	Interaction of nucleic acids with polycyclic aromatic hydrocarbons and acridines.
N.R. Sinclair	Medical Research Council	M.R.C. Scholarship.
	Medical Research Council	Scholarship Grant.
	Medical Research Council	Regulation of the immune response by antibody and antigen.
I.G. Walker	Defence Research Board	Sulphydryl compounds and protection against radiomimetic alkylating agents.
	Medical Research Council	Studies with alkylating agents.
	Faculty of Me	edicine
Anaesthesia		
W. Spoerel	Sundry Donors	Research in Anaesthesia.
	Medical Research Council	The effect of anaesthesia and resuscitation on cerebral ischemia in the rabbit.
Biophysics		
A.C. Burton	Defence Research Board	Mechanism of temperature receptors in acclimatization.
	Medical Research Council	M.R.C. Fellowship Grant.
	Ontario Heart Foundation	Frequency Characteristics of Sinus Arrythmia.
	Life Insurance Medical Research Fund	The Biophysics of the red blood cell.
	Medical Research Council	Energetics of vascular smooth muscle.
	Medical Research Council	Analysis of total E.M.G. activity in voluntary contraction.
P.B. Canham	Medical Research Council	Physical properties of the red cell membrane.
R.I. Duncan	Canada Council	Special Fellowship Grant.
	National Cancer Institute	A study of the effect of electrical currents on, and the development of electrical potentials during, cell growth.
	Multiple Sclerosis Society	The effects of Deterium on Membrane Potentials

of Canada

of Neurons in Culture.

Grantee	Granting Agency	Description of Project
A.C. Groom	Medical Research Council	M.R.C. Scholarship.
	Medical Research Council	Flow of cells and plasma through the smaller vessels of skeletal muscle, and dynamics of the splenic circulation.
M.R. Roach	Victoria Hospital	Biophysics Research Fund.
	Medical Research Council	M.R.C. Scholarship.
	Medical Research Council	Scholarship Grant.
	Ontario Heart Foundation	Effects of Vibration on Tissues.
	Medical Research Council	Contraction of vascular smooth muscle.
	Canadian Tuberculosis and Respiratory Disease Association	Effect of Dionosil on Lung Surfactant.
M.H. Sherebrin	Medical Research Council	M.R.C. Scholarship.
	Medical Research Council	M.R.C. Scholarship Grant.
	Medical Research Council	Conformation changes of macromolecules in biological membranes.
C.P.S. Taylor	Dean of Medicine	Research Grant.
	National Research Council	Biophysical studies on respiration and photosynthesis
	Medical Research Council	EPR studies of Hemoproteins.
Clinical Neurological S	Sciences	
Y.M. Archibald	Medical Research Council	An evaluation of four nonverbal cognitive tests for use in the differential diagnosis of brain damage.
H.J.M. Barnett	The Richard Ivey Foundation	Clinical Neurological Sciences Department Library Fund.
C.G. Drake	Geographic Research Fund	Salary Supplement – Dr. Girvin
Community Medicine		
Carol Buck	Ontario Cancer Treatment and Research Foundation	Relationship between smoking in pregnancy and cancer in children.
	National Department of Health and Welfare	Provision of Statistical Computing Equipment.
	Laidlaw Foundation	For the support of a summer student.
	The John McClary Memorial Fund	For research in industrial medicine.
	Ontario Mental Health Foundation	Factors influencing the intellectual development of young children.
E.J. Love	Department of National Health and Welfare	The Phenomenon of Prematurity.
C.G. Rand	Ontario Department of Health	Diabetic Screening.
K.M. Stavraky	Ontario Cancer Treatment and Research Foundation	Investigation of Precursor Illness in Lung Cancer Patients.
	Ontario Cancer Treatment and Research Foundation	Factors associated with the development of Breast Cancer in Premenopausal vs Post Menopausal Women
J.M. Wanklin	Ontario Department of Health	Health Care — Pilot Study.
Family Medicine		
J.A. Collyer	Geographic Trust Fund	Family Medicine Research Program.
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Ontario Department of Health

Family Practice.

Grantee	Granting Agency	Description of Project
A.T. Hunter	Department of National Health and Welfare	Medical Education – Television.
	Department of Health (Ontario)	A Study of Medical Manpower in Ontario.
C.T. Lamont	Geographic Trust Fund	For the purchase of educational research equipment for new Family Medical Center.
Medicine		
S.P. Ahuja	Medical Research Council	Vectorcardiographic elucidation of minor electro- cardiographic abnormalities in normal subjects and cardiac patients.
Ivan T. Borda	Department of National Health and Welfare	Drug Surveillance Program.
F.S. Brien	Lady Jean Lister Kay Fund	Medical Research.
W.B. Chodirker	Canadian Arthritis and Rheumatism Society	An in-vitro study utilizing the macrophage migration inhibition system.
	Medical Research Council	The development of an in-vitro assay of delayed hypersensitivity in man utilizing a macrophage migration inhibition system.
R.W. Gunton	Geographic Trust Fund	Department of Medicine Pooled Research Fund.
	Medical Association	Department of Medicine Clinical Research Fund.
	The Richard & Jean Ivey Fund	For the establishment of a Gastroenterology Unit, Department of Medicine.
M. Harth	Canadian Arthritis and Rheumatism Society	To support Rheumatic Diseases Unit.
B.L. Hession	Geographic Trust Fund	Research in pulmonary Physiology.
	Geographic Trust Fund	Support of Research Fellows, St. Joseph's Hospital.
	Geographic Trust Fund	Pooled Research Fund, St. Joseph's Hospital.
A.J. Hudson	Dean of Medicine	Special Research Grant.
A. Kertesz	Geographic Trust Fund	Neurological Research — St. Joseph's Hospital.
R.W. Kimber	Medical Research Council	M.R.C. Scholarship Grant.
	Geographic Trust Fund	Research in the Renal Unit.
	Department of National Health and Welfare	Hereditary Nephritis.
	Medical Associates	Department of Medicine Nephritis Research.
N.M. Lefcoe	Geographic Trust Fund	For the purchase of Research Equipment for Pulmonary Unit.
	Ontario Tuberculosis Association	Research into problems of Respiratory Disease.
J.A. Lewis	Geographic Trust Fund	Travelling Expenses — Cornell Intensive Care Unit, N.Y.
G.W. Manning	Sarah Duncan Estate	Cardiovascular Research.
	Geigy Canada Limited	Cardiovascular Research.
	Ontario Heart Foundation	Cardiovascular Research.
	Sundry Donors	Department of Medicine Cardiovascular Research.
	Bessie Mayne Cardiovascular Fund	Cardiovascular Research.
	The Richard and Jean Ivey Research Fund	Computer analysis of the Electrocardiogram.
	H. Wolf Memorial Fund	Cardiovascular Research.

Grantee	Granting Agency	Description of Project
P.A. Rechnitzer	Ontario Heart Foundation	Cardiac Rehabilitation Study.
Lionel Reese	Ontario Department of Health	Renal and Hypertensive Disease.
N.W. Rodger	Medical Research Council	Hyperlipidemia in diabetes mellitus.
D.B. Shaw	Geographic Research Fund	For the purchase of equipment.
	Geographic Research Fund	Equipment for Pulmonary Function Laboratory.
Robert K. Stuart	Ontario Heart Foundation	Experimental and Clinical Studies of Thrombosis and Thrombolysis.
J.H. Toogood	Sundry Donors	Allergy Research.
	Fisons Canada Limited	Allergy Research.
	Canadian Tuberculosis Association	Effect of Acoustic Stress on Bronchial Wall Elasticity
L.D. Wilcox	Medical Research Council	Proposed studies of problems associated with the creation of a spleno-pulmonary shunt.
Medicine — General		
D. Bocking	Canadian Patents & Development Limited	Cancer Research.
	Medical Research Council	M.R.C. Fellowships.
	Medical Research Council	M.R.C. Studentships.
	Department of National Health and Welfare	General Practitioner Education.
	Department of National Health and Welfare	Education Program for General Practice.
	Ontario Heart Foundation	Summer Student Scholarships.
	Ontario Heart Foundation	The Martin L. Wills High School Student Scholarships
	Ontario Heart Foundation	Associateships and Fellowships.
	Mrs. W.F. Herman and W.L. Clarke	R. Knox Herman Fellowship.
	Geographic Trust Funds	Faculty of Medicine Pooled Research Fund.
	Medical Research Council	For the support of Medical Research.
	Medical Research Council	Summer Scholarships.
	Richard Ivey Foundation	General Research Travel Fund.
	Geographic Trust Funds	Faculty of Medicine Research Travel Fund.

# Obstetrics and Gynaecology

D.T. Armstrong	Medical Research Council	M.R.C. Scholarship.
D. I. Allistrong	Wicarear Mescareri Godinen	Willia. Ocholarship.
	Medical Research Council	M.R.C. Fellowship Grant.
	Medical Research Council	M.R.C. Scholarship Grant.
	Department of Health, Education and Welfare	Hormonal control of ovarian development and function.
	Department of Health, Education and Welfare	Corpus luteum regulatory mechanisms.
	Medical Research Council	Regulation of ovarian sterol metabolism and steroid hormone secretion.
E.B. Gammal	Dean of Medicine	Special Research Grant.

Grantee	Granting Agency	Description of Project
E.R. Plunkett	Ayerst Laboratories	Drug Study.
	Ontario Cancer Treatment Research Foundation	Environmental factors in Human Mammary Cancer.
	Geographic Research Fund	For the purchase of a Laparoscope.
	Canadian Life Insurance Association.	Medical Fellowship.
	Medical Research Council	Investigation of pituitary-ovarian failure in humans.
	Medical Research Council	For the support of research undertaken by Dr. David Armstrong.
	Ortho Pharmaceutical Limited	A special grant-in-aid to assist the teaching program for students, interns and residents in the Department of Obstetrics & Gynaecology.
	The Richard and Jean Ivey Fund	For the purchase of special equipment relating to the biochemical and physiological study of reproductive hormones.
	Upjohn Company of Canada Limited Research Fund	Obstetrical Research.
	Department of Obstetrics and Gynaecology Research Fund	Obstetrical Research
	Obstetrics & Gynaecology Associates	Partial support — Dr. A. Yuzpe.
	Warner Lambert Research Fund	Obstetrical Research.
M.L. Robinson	Searle Company Research Project	Searle Project on Substitution Therapy in Menopause.
J. Walters	Ontario Cancer Treatment and Research Foundation	A pilot study in cytological screening.
	Geographic Trust Fund	Research Investigation — Dr. Effer.
	Geographic Trust Fund	Technical Development & Research Equipment.
Ophthalmology		
C. Dyson	The Richard Ivey Foundation	Department of Opthalmology — Teaching and Research Fund.
	The Richard and Jean Ivey Fund	For the purchase of an operating microscope.
	Sundry Donors	Joint University Hospitals Research Fund.
Otolaryngology		
F.J. Rounthwaite	Geographic Trust Fund	Summer Student Research Project.
	Medical Research Council	Neurophysiological aspects of deafness in retarded children.
	Geographic Trust Fund	Department of Otolaryngology Research Fund.
Paediatrics		
L.L. DeVeber	Canadian Hemophilia Society	Research in hemophilia.
	Geographic Research Fund	Summer Student Research Project.
G.G. Hinton	CIBA Company Limited	The effect of methylphenidate on the motor skills of children with minimal brain dysfunction.
J.C. Rathbun	Canadian Cystic Fibrosis Foundation	The Diagnosis of Cystic Fibrosis and the Detection of the Heterozygote Carriers State by the Examination of Short-term Lymphocyte Cultures for Metachromatic Granules.

Grantee	Granting Agency	Description of Project
J.C. Rathbun	Department of National Health and Welfare	Fluorescent Antibody Techniques.
G.H. Valentine	Geographic Trust Fund	To investigate the cellular responses of patients with Down's Syndrome.
Pathological Chemis	try	
Y.S. Brownstone	Defence Research Board	The use of short chain ribosides as blood preservatives
A.H. Neufeld	Medical Research Council	Metabolic changes in disease with emphasis on proteins.
E.R. Tustanoff	Medical Research Council	Studies of the control mechanisms of mitochondrial development and metabolism.
Physical Medicine R	ehabilitation	
M.G.P. Cameron	Geographic Trust Fund	Travelling Fellowship — Dr. Olive J. Stewart.
M. Trider	Department of National Health and Welfare	Course for Physio-Occupational Therapists.
Psychiatry		
G.E. Hobbs	Department of National Health and Welfare	Research Position in Epidemiology.
	Ontario Mental Health Foundation	Associateship — Senior Psychiatrist.
	Ontario Mental Health Foundation	CMHA Niacin Project in Schizophrenia.
	Geographic Trust Fund	Department of Psychiatry Research.
F.G. Johnson	Ontario Mental Health Foundation	Attempted suicide in London, Ontario.
H.J. Thurlow	Ontario Mental Health Foundation	Illness in relation to the "life situation" and sick-role tendency.
Diagnostic Radiolog	y	
John Allcock	National Academy of Sciences	A Study of causes, prevention and treatment of cerebral vascular spasm in patients with subarachnoid haemorrhage.
C		
Surgery	Coographia Trust Fund	Summer Student Research Fellowship.
S.E. Carroll	Geographic Trust Fund Geographic Trust Fund	Research project on surgical shock at St. Joseph's Hospital.
	Geographic Trust Fund	Special Research Travel Fund, Department of Surgery.
	Ontario Heart Foundation	To investigate myocardial hypoxia in hemorrhagic hypotension.
N.F. Gergely	Ontario Heart Foundation	Heterotopic and orthotopic canine cardiac homotransplantation with topical irradiation and/or hyperbaric oxygen treatment.
L.N. McAninch	Estate of the late Col. J.E. Smallman	Urological Research.

Grantee	Granting Agency	Description of Project
A.D. McLachlin	Victoria Hospital Associates	Surgical Research Fund.
	Victoria Hospital	Undergraduate Medical Students.
	Victoria Hospital	Surgical and Teaching Research Fund.
R.B. Passi	Geographic Trust Fund	Department of Surgery Research.
	Sundry Donors	V.H. Animal Laboratory Fund.

# **Faculty of Dentistry**

General		
W.J. Dunn	Medical Research Council	For the assistance of research.
	Medical Research Council	To provide Summer Scholarships in the Faculty of Dentistry.
	The Richard Ivey Foundation	Special Travel Fund.
Paediatric Dentistry		
W.H. Feasby	Department of National Health	Dental Eruption.

	and vveitare	
W.S. Hunter	Department of Health (Ontario)	Spacing — Crowding.
	Medical Research Council	Timing, amount, and variability of human facial growth.
	National Possarch Council	Timing amount and predictability of human fac

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National Research Council	Timing, amount, and predictability of human facial growth.

# A.J. Gwinnett Medical Research Council Adhesives and dental caries prevention. L.N. Johnson Department of Health (Ontario) Dental Silver Amalgam. R.E. Jordon Department of Health (Ontario) Remineralization of Dentin.

	Genera	I	
G.H. Reavely	The Richard Ivey Foundation	Special Research Project.	

O. Warwick	The Richard Ivey Foundation	For General Research Purposes in the Health
		Sciences, comprising medicine, dentistry and
		nursing.

## SCHOOL OF BUSINESS ADMINISTRATION

T.R. Archibald	Associates Fund	Structure of Chartered Accountancy Profession.  Disclosure of Depreciation Changes by Canadian Firms.  MacLean Hunter Tape Retrieval System.
A.G. Blair	Associates Fund	Desirability and Feasibility of Pre-Approval and Post- Completion Audits of Capital Investments.
R.R. Britney	Associates Fund	Non-Linear Inventory Control Models. Bayesian Point Estimation Studies. Critical Path Scheduling Project.
J.J. DiStefano	Associates Fund	Behavioral Co-Relates of Perceptual Style.
H.H. Frankiel	Associates Fund	Learning Processes of Sensitivity Training Groups. Changes in Member-Member Relationships during

Sensitivity Training Experiences.

Grantee	Granting Agency	Description of Project
J.N. Fry	Associates Fund	Search and Evaluation in Consumer Purchasing. Correspondence of Semantic Differential and Nonmetric Multidimensional Scaling Descriptions of Brand Images. Personality and Cigarette Brand Choice. Case Development in Marketing.
J.R.M. Gordon	Associates Fund	Case Development in Production.  Research in Management Information Systems.
C. Haehling von Lanzenauer	Associates Fund	A Mathematical Model of the Purchase of Collision Insurance. Production and Employment Scheduling in Multi-Stage Production Systems.
K.G. Hardy	Associates Fund	The Effect of Taste Experience on Consumers' Sensitivity and Reliability.
B.E. Hicks	Associates Fund	A Framework for Situations Where Sensitivity Analysis and Specific Inaccuracies are Possible in a Linear Programming Problem.
J.A. Humphrey	Associates Fund	The Effect of Industrial Expansion on Municipal Expenditures.
C.B. Johnston	Associates Fund	Case Development in Marketing.
F.W.P. Jones	Associates Fund	Case Development in Investment Management.
J.R. Kennedy	Associates Fund	Case Development in Marketing.
D. Kuechle	Associates Fund	Case Development in Industrial Relations.
M.R. Leenders	Associates Fund	Publication on Case Writing and Case Development.
D.S.R. Leighton	Associates Fund	Case Development in International Business.
B. Little	Associates Fund	Case Development in Marketing.
S.A. Martin	Associates Fund and Canadian Institute of Chartered Accountants	Accounting for Financial Implications of Business Combinations. Published a book "Business Combinations in the '60s: A Canadian Profile".
W.J. McDougall	Associates Fund	Case Development in Control.
R.E.M. Nourse	Associates Fund	Case Development in Marketing.
B. Portis	Associates Fund Dept. of Labour	Problems of Employee Relocation Due to a Plant Shutdown. Kelvinator Research Project.
D.C. Shaw	Associates Fund	Cost of Public Offerings of Securities in Canada. Structure of the Chartered Accountancy Profession in Canada. A Comparative Performance of the Market for New Equity Issues in Canada and the United States. A Historical Review of the Financing of Canadian Business.
R.E. Sproule	Canada Council The Robert Markon Foundation	Leisure habits and patterns of industrial employment. Research in the field of Politics and Business.
A.K. Weinstein	Associates Fund Sundry Advertising Agencies	A Study of the Operating Procedures of Toronto Advertising Agencies.
F. Sabransky	IBM Canada Limited	Research into a Management Information Systems suitable for smaller companies.
	Associates Fund	Case Development in Quantitative Analysis.  MIS for applicants both for the undergraduate and the

MBA program.

Grantee	Granting Agency	Description of Project
	FACULTY O	FLAW
R.G. Atkey	Canada Council	Canadian Constitutional Law in a Modern Perspective
II.G. MIKCY	Department of Labour	The Canadian Constitution and the Protection of the Public Interest in Labour Disputes.
M. Gropper	Canada Council	Consumer Credit in Canada.
J.D. Payne	Canada Council	An analysis of the Divorce Act (Canada) 1968.
	MUSEU	JMS
W. Jury	Department of Tourism and Information	Penetanguishene Project.
V.T. Mould	Department of Tourism and Information	Ste. Marie I Museum Project.
	GENER	AL
Biochemistry		
E.Y. Spencer	Sundry Donors	Canada Department of Agriculture Research
Office of the President	t	
D.C. Williams	National Research Council	Scientific Research Special.
	COLLEGE OF EI	DUCATION
Art		
D. Logan	University of Western Ontario	Contemporary Art Systems.
Classics		
G. Lambert	University of Western Ontario	Curriculum Development in Classified Civilization.
Computer Studies		
J.E. Walsh	University of Western Ontario	Proposal to investigate the effectiveness of a high level symbolic computer language called APL.
Elementary Teaching		
Paul B. Park	The Ford Foundation	Early School Environment Study.
General Administration	on	
W.G. Nediger	University of Western Ontario	The CUSO Learner Centred Project.
History of Education		
D. Gutteridge	University of Western Ontario	Writing and Rhetoric at the Grade VII Level.
W.B. Hamilton	University of Western Ontario	A History of Education in Nova Scotia.
D.A. Lawr	University of Western Ontario	The Selection of Original Readings for use in History of Education Seminars.
J.D. Purdy	University of Western Ontario	The Educational Policies and Practices of John Strachan.
J.D. Radcliffe	University of Western Ontario	Obtaining Data on Social Education in Several Societies.
	University of Western Ontario	A Study of the Educational Theory of the Taman Siswo School Movement in Java.

Grantee	Granting Agency	Description of Project
D.W. Ray	University of Western Ontario	Developing Audio-Visual Materials about Selected Topics on Comparative Education.
H.A. Stevenson	University of Western Ontario	An investigation of commonly used evaluation techniques.
	University of Western Ontario	The educational policies of the M.F. Hepburn Government in Ontario between 1934 and 1943.
History		
J.J. Bowden	University of Western Ontario	An historical study of Ontario Architecture recorded by means of 35mm slides and accompanying script.
G. Milburn	University of Western Ontario	Teaching Models in History: Implications for Curriculum Development and Classroom Interaction.
Mathematics		
D.R. Campbell	University of Western Ontario	A Two-Week Investigation of Six Methods of Teaching Algorithms at the Grade X Level.
Office of the Dean		
E. Stabler	University of Western Ontario	Miscellaneous Research.
Professional Practice a	and Administration	
D.W. Menear	University of Western Ontario	An Interdisciplinary Approach to the Creation of Self-Instructional Materials.
Psychology and Socio	logy	
A.W. Blue	University of Western Ontario	The Development of Mathematical Concepts in the Young Indian Student.
	University of Western Ontario	North American Native Peoples.
	Sundry Donors	College of Education Research.
S.H. Irvine	University of Western Ontario	Human Behavior in Africa.
	Canada Council	Theoretical implications of studies in human behaviour in Africa south of the Sahara.
J.G. McMurray	University of Western Ontario	Student Evaluation Study.
Teaching Aids Centre		
E.V. Crisp	University of Western Ontario	Semi-Automated Methods of Developing Skills in the use of Audio-Visual Equipment.
P.J. McKeon	University of Western Ontario	The Production of Media Oriented Teaching

Materials.

APPENDIX E
VISITING PROFESSORS

# **VISITING PROFESSORS**

#### **FACULTY OF ARTS**

#### **Department of Classics**

MR. R.K. SINCLAIR,
University of Sydney

PROFESSOR D.F.S. THOMPSON,
University of Toronto

PROFESSOR K.F. Quinn,
University of Toronto

"The Hazards of Public Office in Athens", November 19, 1969.

"The Lyric Epigram: Catullus 85", March 14, 1970.

"The Dismissal (Poem 11)", March 14, 1970.

#### Department of English

MR. D. DUFFY,
Department of English,
University of Toronto

MR. B. BISSETT, Poet, Vancouver, B.C.

MR. G. CURNOE, London, Ontario

PROFESSOR R. DANIELLS, Department of English, University of British Columbia

PROFESSOR L. MARTZ,
Douglas Tracy Smith Professor
of English and American Literature,
Yale University

PROFESSOR R. STOW, Australian Poet and Novelist

MR. J.B. TRAPP, Librarian, The Warburg Institute "The Future of English Studies", October, 1969.

"Poetry and Freedom", February, 1970.

"Problems of Being an Artist in the Community", December, 1969.

Visits to classes in English and Fine Art to lecture on the relation between the two, February, 1970.

"Paradise Lost: The Realms of Light", March, 1970.

"Australian Literature", March, 1970.

"Adam, Eve, and the Artists", November, 1969.

#### Department of Fine Art

MR. J. SHADBOLT, North Burnaby, B.C. MR. T. TAGGART, New York, N.Y. "Survey of Trends in Modern Art-Picasso to Breeze", January 28, 1970.

"Contemporary Art in Small Progressive Galleries", March 9, 1970.

# **Department of French**

PROFESSOR H.A. BOURAOUI,
Associate Professor of French and
Coordinator of French Language
Training Program at York University

PROFESSOR B.T. FITCH, University of Toronto "Methods Used in Teaching Language Courses", September 12, 1970.

"Camus", January 22, 1970.

PROFESSOR MAURICE REGARD, University of Aix-Marseille PROFESSOR M.A. SCREECH, University of London

"Mythe et Réalité Américain Chez Chateaubriand", October 29, 1969.

"Emblems and Colors in Gargantua" (Departmental Seminar); "Humanist Comedy in Rabelais" (Public Lecture) and "Picrochole" (Undergraduate Lecture), November 27-28,

1969.

#### **Department of German**

MR. ROLF BREITENSTEIN, Diplomatic Correspondent, Frankfurter, Rundschau, Bonn

"The Generation Problem" and "Germany's Policy Toward the East", October 21, 1969.

PROFESSOR K.K. POLHEIM, University of Bonn

"The Romantic Unity of the Arts", December 8, 1969.

DR. STEFAN SCHNELL. Editor-In-Chief, Fuldaer Zeitung, Fulda, Germany

"Germany in Central Europe" and "The Perfect Apparatus", February 17, 1970.

PROFESSOR ROY PASCAL, Birmingham University

"The Problem of Goodness in Brecht" and "The Style of Friedrich Nietzsche", February 19, 1970.

#### Department of Philosophy

PROFESSOR R.B. BRAITHWAITE, King's College, Cambridge

"Behind Decision and Games Theory: Acting With a Co-Agent v. Acting Along with Nature", Annual Fall Colloquium, November 1, 1969.

University of Indiana

PROFESSOR HECTOR-NERI CASTANEDA, Commentator at Annual Fall Colloquium, November 2, 1969.

PROFESSOR C. WEST CHURCHMAN, University of California at Berkeley

"The Epistemology of Measurement: A Systems Approach", Annual Fall Colloquium, October 31, 1969.

PROFESSOR ABRAHAM EDEL, City University of New York

Session Chairman, Annual Fall Colloquium, November 2, 1969.

PROFESSOR I.J. GOOD, Virginia Polytechnical Institute

Session Chairman, Annual Fall Colloquium, November 1, 1969.

PROFESSOR HENRY HIZ, University of Pennsylvania

Commentator, Annual Fall Colloquium, November 1, 1969. Commentator, Annual Fall Colloquium, November 1,

PROFESSOR HENRY E. KYBURG University of Rochester

1969.

PROFESSOR ISAAC LEVI, Case Western Reserve University

Commentator, Annual Fall Colloquium, October 31, 1969.

PROFESSOR J.S. MINAS, University of Waterloo

"Emergent Utilities", Annual Fall Colloquium, November 2, 1969.

PROFESSOR NICHOLAS RESCHER, University of Pittsburgh

Session Chairman, Annual Fall Colloquium, November 1, 1969.

PROFESSOR RICHARD RUDNER, Washington University

Session Chairman, Annual Fall Colloquium, October 31, 1969.

"The Concept of Obligation in the Decision Theoretic Con-

PROFESSOR PATRICK SUPPES, Stanford University

text", Annual Fall Colloquium, November 1, 1969.

PROFESSOR P.K. FEYERABEND, University of California at Berkeley

"Against Method", November 6, 7, 8, 1969.

PROFESSOR A. KAPLAN, University of Michigan

Addressed the Philosophy Club, November 20, 1969.

PROFESSOR F. DRETSKE, University of Wisconsin

"Epistemic Operators", November 21, 1969.

PROFESSOR M. RESNIK, University of North Carolina

PROFESSOR R. PULIGANDLA, University of Toledo

PROFESSOR G. MAXWELL, University of Minnesota

PROFESSOR R. SWARTZ, Brown University

PROFESSOR R. ACKERMANN, University of Massachusetts

"On the Philosophical Significance of Consistency Proofs", December 6, 1969.

Addressed the Hemlock Society, "Time and Quantum Physics", January 9, 1970.

"Science and Perception", March 12, 1970.

"Pains and Privacy", March 20, 1970.

"Against Utilitarianism", March 23, 1970.

#### Department of Spanish & Italian

DR. P.N. DUNN
University of Aberdeen
DR. C.A. JONES,
University of Oxford

"Calderón, Poet of Extremity", March, 1970.

"Comedies of Calderón" and "Calderón and Shakespeare", March, 1970.

#### **FACULTY OF SCIENCE**

#### **Department of Applied Mathematics**

DR. R.C. ACKERBERG,
Department of Aerospace Engineering
and Applied Mechanics,
Polytechnic Institute of Brooklyn,
Farmingdale, New York

DR. A. AHMADZADEH, Arizona State University, Tempe, Arizona

DR. J.D. BESSIS, Service de Physique Théorique, C.E.N. de Saclay, France

DR. Y.C. LIU, University of Waterloo, Waterloo, Ontario

DR. H.J. LUGT, Naval Ship Research and Development Center,

Washington, D.C.

DR. J.D. PRENTICE, Department of Physics, University of Toronto, Toronto, Ontario

DR. J. RUBINSTEIN, York University, Toronto, Ontario

DR. S. SMITH,
Department of Mathematics,
University of Toronto,
Toronto, Ontario

MR. K.C. WANG, Research Institute for Advanced Studies, Baltimore, Maryland "Boundary Layer Separation at a Free Streamline". November 4, 1969.

"Exchange Degenerate Regge Trajectories and Meson-Nucleon Charge Exchange Scattering". October 21, 1969.

"Applications of the Padé Approximation Method". Series of lecutres January 22 - 29, 1970.

"Dispersion Relations, Sum Rules". June 10, 1970.

"Laminar Flows past Flat Plates at Various Angles of Attack". January 20, 1970.

"Production and Decay of A2 Meson". November 18, 1969.

"Non-Euclidean Fields: General Properties and a One-Dimensional Model". March 5, 1970.

"Unsteady Flows in a Boundary Layer". December 4, 1969.

"Three-Dimensional Laminar Boundary Layers". April 16, 1970.

# **Department of Astronomy**

DR. S.P.S. ANAND, University of Toronto

MR. C.T. BOLTON, University of Michigan

MR. R.L. BOTTEMILLER, Ohio State University

MR. GEORGE BRANDIE, University of Michigan

DR. W.Y. CHOW, Queen's University

DR. SERGE DEMERS, Laurentian University

DR. J.D. FERNIE,
David Dunlap Observatory

DR. ROBERTA HUMPHREYS, Vanderbilt University

DR. KAM-CHING LEUNG, Goddard Space Flight Center

DR. J.D. LANDSTREET, Columbia University

DR. ROBERT LOWE,
Physics Department, U.W.O.

DR. JOHN PERCY University of Toronto

DR. C.R. PURTON, York University

DR. RENE RACINE, University of Toronto

MR. HARVEY RICHER, University of Rochester

DR. HERBERT J. ROOD, Wesleyan University

DR. ANNE UNDERHILL, Astronomical Institute, Utrecht, The Netherlands

DR. SIDNEY VAN DEN BERGH, University of Toronto "Rotating White Dwarfs Near Chandrasekhar's Limit". March 5, 1970.

"Calibration of Spectral Classification Criteria". March 3, 1970.

"Intrinsic Polarization in Be Stars." April 23, 1970.

"The Michigan Radio Source Survey", March 19, 1970.

"Energetic Consideration of Neutron Stars". November 27, 1969.

"Population II Cepheids". May 6, 1970.

"The Historical Development of the Cosmological Distance Scale". February 19, 1970.

"The Space Distribution and Kinematics of Supergiant Stars". April 28, 1970.

"The Interpretation of Delta Scuti Stars". November 12, 1969.

"A Search for Magnetism in White Dwarfs". April 24, 1970.

"Michaelson Interferometry of the Earth's Airglow". December 2, 1969.

"The B Canis Majoris Stars"

"The High Frequency Portion of Radio Source Spectra". January 15, 1970

"A Photometric Study of the Reflection Nebula CED201". February 5, 1970.

"Observations of Ultrashort Stellar Fluctuations". March 10, 1970.

"A Photographic Study of Galaxies Near the Center of the Coma Cluster". September 8, 1969.

"Recent Developments in Stellar Atmospheres". November 4, 1969.

"The Time Scale of Creation as Determined from the Hubble Constant". November 13, 1969.

#### Department of Botany

DR. C.B. BECK, University of Michigan

DR. C. BRACKER, Purdue University

DR. J.H. CHERRY, Purdue University

DR. A.H. ELLINGBOE, Michigan State University "The Origin and Evolutionary Relationships of Gymnosperms". November 4, 1969.

"The Endomembrane System in Relation to Growth and Differentiation of Fungal Cells". November 18, 1969.

"Hormonal Regulation of Nucleic Acid Synthesis in Plants". October 22, 1969.

"The Genetic Control of Primary Infection by Erysiphe graminis". January 21, 1969.

DR. D.W. GOODALL, Ecology Center, Utah State University

DR D.N. HUNTLEY,
Ontario Department of Agriculture
and Food

DR. J.S. MAINI,
Department of Fisheries and
Forestry, Ottawa

DR. E.L. McWILLIAMS, University of Michigan

DR. T. NEALES, University of Melbourne Australia

DR. O.E. NELSON,
Department of Genetics,
University of Wisconsin

DR. R.J. ROSSITER, Vice President (Academic), The University of Western Ontario

DR. G. SETTERFIELD, Carleton University

# **Department of Chemistry**

DR. F.A.L. ANET, University of California, Los Angeles, California

DR. G.M. BANCROFT Cambridge University, England

DR. R.A. BELL, McMaster University

Sciences, USSR

PROFESSOR V. BOLDYREV
Institute of Chemical Kinetics and
Combustion,
Siberian Branch of the Academy of

DR. D.C. BRADLEY

Queen Mary College, London

DR. W.H. BRECKENRIDGE University of Cambridge

DR. D. BRYCE-SMITH, University of Reading, England

DR. R.S. DRAGO, University of Illinois

DR. J.O. EDWARDS, Brown University,

DR. J.P. FACKLER, Case Western Reserve University "Simulation of Grazing Systems". February 27, 1970.

"Biology Graduates in Agriculture — Why? Where? and What for?" February 12, 1970.

"Ecology of Widely Distributed Species – *Populus themuloides*". March 12, 1970.

"Comparative Genecology of Amaranthus retroflexus and A. Hybridus". March 16, 1970.

"The Control of Gas Exchange in some Xerophytes: A Comparative Approach". November 27, 1969.

"The Opaque-2 Mutation in Maize". April 6, 1970.

"Biology in the University in the Coming Decade". February 9, 1970.

"Cytolobical Aspects of Growth Regulation in Plant Cells". March 26, 1970.

Series of 9 lectures entitled: "Application NMR to Organic Chemistry". June 2, 3, 4, 9, 1011, 16, 17, 18, 1970.

"Mössbauer Spectroscopy". September, 1969.

"Some Applications of the Intramolecular Nuclear Overhauser Effect". February 11, 1970.

"Influence of Defects on Thermal Decomposition of Solids". June 1, 1970.

"Dialkylamido Compounds of Transition Metals". October 28. 1969.

"Reactions of Ground-State and Electronically Excited Sulfur Atoms". October 21, 1969.

"Structure and Mechanism in the Photochemistry of Benzene". October 2, 1969.

"Donor Accepter Interactions — Quantitative Prediction and Spectral Correlations". January 14, 1970.

Series of 7 lectures on "Reaction Mechanisms of Some Inorganic Oxygen Systems". March 24, 25, 26, 30 31; April 2, 3, 1970.

"Developments in Metal-Sulfur Chelate Chemistry". February 4, 1970.

DR. S.K. GARG,
Division of Chemistry,
National Research Council

DR. P.G. GASSMAN, Ohio State University

DR. D.M.L. GOODGAME, Imperial College, England

DR. R. GOUTAREL,
Institut de Chimie des
Substances Naturelles,
Gif-sur-Yvette, France

PROFESSOR H.B. GRAY, California Institute of Technology, California

DR. J. HUDEC, The University, Southampton, England

DR. D.R. KEARNS, University of California, Riverside

DR. A.A. LOMOLA, Bell Telephone Laboratories, Murray Hill, New Jersey.

DR. A.J. MERER, University of British Columbia

DR. G.J. PALENIK, University of Waterloo

DR. R.F. POTTIE,
Division of Chemistry,
National Research Council, Ottawa

PROFESSOR E.A. POWER, University College, London, England

PROFESSOR P.L. PRATT,
Imperial College of Science
and Technology,
University of London, England

PROFESSOR G. QUINKERT, Technische Hochschule, Braunschweig, Germany

DR. K. SCHAFFNER, E.T.H., Zurich

DR. E.W. SCHLAG, Northwestern University, Evanston, Illinois

DR. B. STEVENS, University of South Florida

DR. D.D. TANNER, University of Alberta, Alberta "NMR Properties of Clathrate Hydrates", April 1, 1970.

"Recent Developments in the Chemistry of Strained Ring Compunds". January 21, 1970.

"Recent Studies in Spin Equilibria and Magnetic Exchange Phenomena". April 29, 1970.

"Peptide Alkaloids". July 1, 1969.

Series of 6 lectures entitled "Molecular and Electronic Structures of Metal Complexes". November 24, 26, 28; December 2, 3, 5, 1969.

"Spectroscopic Correlations — (UV, CD-ORD, NMR) — and Their Relationship to the Ground State Properties of Organic Molecules". May 21, 1970.

"Some Aspects of Photochemisty". May 29, 1970.

"DNA Photochemistry". October 1, 1969.

"Electronic Spectra of Simple Olefins". April 8, 1970.

"Can a Chemist Find Happiness as an X-Ray Crystallographer." March 11, 1970.

"The Study of Helium Metastables in a D.C. Glow Discharge by Mass Spectrometry and Optical Absorption". February 18, 1970.

Series of 12 lectures entitled: "Low Energy Quantum Electrodynamics". March 23, 24, 26, 31; April 2, 3, 7, 9, 10, 13, 14, 15, 1970.

"Some Recent Developments in the Dislocation Structures and Grain Boundary Conductivity of Ionic Crystals".

July 18, 1969.

Series of 10 lectures entitled "Stereochemical Aspects of Excited State Reactions". October 14, 16, 20, 23, 29, 30; November 3, 6, 11, 13, 1969.

"Some Aspects of Photochemistry", May 11, 1970.

"Timing of Processes from Selected Excited States". October 8, 1969.

"Some Aspects of Photoassociation in Aromatic Systems". September 8, 1969.

"The Kinetics of Photoperoxidation of Unsaturated Organic Molecules". September 9, 1969.

"The Bromination of Bromoalkanes. A Case Against Bridged Bromine". December 16, 1969.

DR. HENRY TAUBE, Stanford University, California

DR. A.F. THOMAS, Firmenich et Cie, Geneva, Switzerland

DR. A. TROZZOLO, Bell Telephone Laboratories, Murray Hill, New Jersey

DR. H.E. ZIMMERMAN, University of Wisconsin

## **Department of Computer Science**

DR. M. STEINBY, Department of Mathematics, University of Turku, Finland

#### **Department of Geology**

DR. PAUL CLIFFORD, McMaster University

DR. JOHN FERGUSON, G.S.C.,

DR. GORDON GROSS, G.S.C., (CIM Guest Lecturer)

DR. JOHN HANSULD, Amax Exploration Inc., Toronto

DR. PAUL HOFFMAN, G.S.C.,

MR. J.W. KEITH, Union Oil Company

DR. THOMAS KROUGH, C.I.W., Geophysical laboratory

DR. D.J. McLAREN, Director, Inst. Sedimentary and Petroleum Geology, G.S.C., Calgary.

DR. R.W. HODDER, Callahan Mining Corporation

DR. D.F. SANGSTER, G.S.C.,

DR. M. SCHAU,
McMaster University

DR. H.P. TRETTIN,
Inst. Sedimentary and Petroleum Geology,
G.S.C., Calgary

JIRI HRUSKA,
Vice Director, Geofond Praha,
Prague

University Lecturer in Chemistry for 1969: "Organic Molecules as Mediators in Electron Transfer Reactions". October 6, 1969.

"Induced Electron Transfer". October 7, 1969. "Current Research on the Chemistry of Ruthenium Ammines". October 8, 1969.

"The Double Chaisen-Cope in the Synthesis of Natural Products". September 16, 1969.

"Low Temperature Photochemistry of Oxiranes". September 29, 1969.

"Some Aspects of Photochemistry". December 9, 1969.

Guest Lecturer for CS 313 — Computer Logic and Design CS 513 — Formal Languages and Automata July 1, 1969 to June 30, 1970

"Evolution of an Archean Geosyncline". (Lake St. Joseph area).

"The Garder alkaline province of South Greenland (with special reference to the Ilimaussaq Intrusion)".

"Origin of iron ore deposits derived from iron formations". "Iron Formations and geologic environment".

"Some aspects of surface geochemistry applied to base metal deposits", (invited in relation to Ore Deposits course).

"An early Proterozoic geosyncline in the Great Slave Lake Region of the Canadian Shield". (Invited by outcrop Club).

"Application of carbonate sedimentation studies to oil exploration". (Alberta Soc. Petrol. Geol. Distinguished Lecturer).

"Two ages of metamorphism in the north-west Grenville province and the ages of the Grenville Front".

"Time, life and boundaries".

"Felsic volcanic rocks, the controversy on origin, and relationships to certain base metal ore deposits". (Invited in relation to Ore Deposits course).

"Sulphur isotope geochemistry in relation to problems of genesis of base metal ore deposits". (Invited in relation to Ore Deposits course).

"Copper and stratigraphy in the Kamloops region". (Sponsored by Outcrop Club).

"The axial trough of the Franklinian geosyncline — Sedimentology and tectonics".

"Computer aspects of data storage and retreival". (NRC Visiting Scientist, May — Dec., 1969).

#### **Department of Geophysics**

DR. B.F. HOWELL, Department of Geology and Geophysics, Pennsylvania State University, Penn.

DR. J.C. JAEGER,
Department of Geophysics and Geochemistry,
Australian National University

DR. ELLIS STRICK,
Department of Earth and Planetary Sciences,
University of Pittsburgh, Penn.

DR. H.D.B. WILSON,
Department of Earth Sciences,
University of Manitoba,
Winnipeg, Manitoba

"Problems in the International Organization of Science", December, 1969.

"Geophysics in Australia" and "Rock Deformation", April, 1970.

"Seismic Wave Propagation", July, 1969.

"The Significance of the Copper-Lead Line", February, 1970.

#### **Department of Mathematics**

PROFESSOR L.S. BOSANQUET, Department of Mathematics, University College, London, England

PROFESSOR G. KULLDORFF, Institute of Mathematical Statistics, University of Umea, Sweden

PROFESSOR B. KUTTNER, Department of Mathematics, University of Birmingham, England

PROFESSOR A. PEYERIMHOFF, University of Ulm, West Germany "An Introduction to Functional Analysis with Applications to Summability" (summer graduate course). May 1 — September 30, 1970.

"Estimation Based on Censored and Grouped Samples" (series of seven lectures). June 15-26, 1970.

"Strong Nörlund Summability of a Cauchy Product Series". "Translative Methods of Summability". March 21-28, 1970.

"Consultation on problems in summability theory". March 16 - 18, 1970.

#### Department of Physics

PROFESSOR J.D. BESSIS, Service de Physique Theorique, C.E.N. de Saclay, France

PROFESSOR W. CHUPKA, Argonne National Laboratory, Argonne, Illinois

PROFESSOR D. EDMONDS, Boston University, Boston, Massachusetts

PROFESSOR D. GROCE, University of California, La Jolla, California

DR. S. LUNDQUIST, Director, Institute of High Voltage, Uppsala, Sweden

DR. P. MAHADEVAN,
Douglas Advanced Research
Laboratories,
Huntington Beach, California

"Pade Approximates" "High Energy Physics". January 22 – 29, 1970.

"Photoionization Mass Spectrometry". March 10 - 13, 1970.

"Molecular Beams" "Physics in Industry". June 1-10, 1970

"Biomedical Applications of the Los Alamos Meson Factory" "Physics in a Small Industry" November 25 - 26, 1969.

"Electric Discharges in Air" "Plasma Physics and Atmospheric Electricity". April 2-10, 1970.

"Electron Impact Ionization of Ions Using the Merging Beam Techniques". April 21, 1970.

PROFESSOR S.V. VENKATESWARAN,
Department of Meteorology,
U.C.L.A., Los Angeles

DR. G.A. WOONTON,
Director, Centre de Recherches
sur les Atomes et les Molécules,
Université Laval, Quebec

"Ionospheric Effects of the Partial Solar Eclipse of September 11, 1969". April 20, 1970.

"C.R.A.M. and Other Things in Quebec Province". March 26, 1970.

#### **Department of Zoology**

DR. T.A. ANGUS, Canadian Forestry Service Sault Ste. Marie DR. MILTON W. BRIGHTMAN, N.I.H., Maryland

DR. DUNCAN M. CAMERON, JR., York University

DR. JANET COLLINS, Queen's University

DR. ROBERT JEANNE, Harvard University

DR. C.J. KERSWILL, Arctic Biological Station, Fisheries Research Board of Canada

DR. MICHAEL LOCKE, Case Western Reserve University

DR. GERALD P. MORRIS, Queen's University

DR. MICHAEL D. OWEN, Harvard University

DR. BERTA SCHARRER, Albert Einstein College of Medicine

DR. J.D. SMYTH, Australian National University

DR. W. GARY SPRULES, Princeton University

DR. ARI VAN TIENHOVEN, Cornell University

DR. NIKO TINBERGEN, Oxford University, England

DR. JACK A. WARD, Illinois State University

DR. C.S. WOODS, University of Manitoba

DR. TUNEO YAMADA,
Oak Ridge National Laboratory

"Recent Developments in the Study of *Bacillus thuringiensis* as a Microbial Insecticide". February 25, 1970.

"Cerebral distribution of electron dense colloids injected intravascularly and intraventricularly". October 29, 1969.

"A case of competition in a mammalian community". November 12, 1969.

"Selective Accumulation of Haemolymph Proteins by the Fat Body". December 10, 1969.

"Chemical Defense of Brood in a Social Wasp". June 3, 1970.

"Activities of the Arctic Biological Station, Fisheries Research Board of Canada". January 21, 1970.

"Insect Cell Development". May 27, 1970.

"Fine Structure of the Absorptive Surfaces of some Parasitic Flatworms". April 29, 1970.

"The Biology of Wasp and Bee Stings". June 15, 1970.

"Some ultrastructural aspects of insect endocrinology". May 13, 1970.

"Differentiation in a parasite model (Echinococcus), using *in vitro* systems". July 29, 1969.

"Effect of Size Selection Predation and Food Competition on Crustacean Zoo-plankton Communities of High Altitude Ponds". May 4, 1970.

"Neuro-endocrine relationships — a two-way street". November 19, 1969.

"Function and Causation of Signalling Among Animals". December 15, 1969.

"The effects of earlier experience on the behavior of the orange chromide (Etroplus maculatus)". January 28, 1970.

"Geographic variations in freshwater fishes of New Zealand". October 7, 1969.

"Control of Cell Differentiation". February 11, 1970.

#### **FACULTY OF SOCIAL SCIENCE**

#### **Department of Economics**

PROFESSOR W.C. BRAINARD, Yale University, New Haven, Connecticut

PROFESSOR R.B. BRAITHWAITE, Cambridge University, Cambridge

PROFESSOR R.W. CLOWER, University of Chicago, Chicago, Illinois

PROFESSOR I. DIEWERT, University of Chicago, Chicago, Illinois

PROFESSOR R. DIWAN, Rensselaer Polytechnic Institute, Troy, New York

PROFESSOR E.D. DOMAR, Massachusetts Institute of Technology, Cambridge, Mass.

PROFESSOR R.G. LIPSEY, University of Essex, England and University of British Columbia, Vancouver, British Columbia

PROFESSOR L.W. MCKENZIE, University of Rochester, Rochester, New York.

PROFESSOR R. MEIDNER,
Swedish National Institute for Labour
Market Research,
Stockholm, Sweden

PROFESSOR D. MORTENSEN, Northwestern University, Evanston, Illinois

PROFESSOR M.L. NERLOVE, University of Chicago, Chicago, Illinois

PROFESSOR D. PATINKIN, Hebrew University Institute of Technology, Jerusalem, Israel

PROFESSOR C.R. RAO, Indian Statistical Institute, Calcutta, India

PROFESSOR J.R. ZECHER, University of Chicago, Chicago, Illinois "Contemporary Developments in Monetary Economics". October 29 - 31, 1969.

"Two-Person Non-Zero-Sum Games". November 20, 1969.

"The Technology of Exchange". November 26-29, 1969.

"The Demand for Money", November 6 - 9, 1969.

"Market Imperfections, Technological Change and the Production Function". May 14-15, 1970.

"Monopoly and Central Planning in the Soviet Union". March 18 - 20, 1970.

"A Contribution to the New Theory of Demand", and "Incomes Policy: A reappraisal". November 26 – 30, 1969.

"Optimal Growth in multi-Sector Economics". February 12 - 13, 1970.

"Developments in the Labour Scene in Sweden". March 17, 1970.

"Job Search, the Duration of Unemployment and the Phillips Curve". March 24-25, 1970.

Equations for "Further Evidence on the Estimation of Dynamic Economic Relations from a Time Series of Cross-Sections". December 16 - 19, 1969.

"Money in a Simple Growth Model". February 15-17, 1970.

"Generalized Inverses". April 9, 1970.

"Indicators of Monetary Policy". December 9-11, 1969.

#### Department of Geography

DR. B. BUNTING,
Department of Geography,
McMaster University,
Hamilton, Ontario

DR. E. CASSETTI, Ohio State University, Columbus, Ohio.

DR. M.F. DACEY, Northwestern University, Evanston, Illinois

PROFESSOR R. DORNEY,
Department of Geography and Planning,
Waterloo Lutheran University,
Waterloo, Ontario

MR. WILSON GARCES,
Chief of the Physical Planning
Section Centre for Housing,
Building and Planning,
United Nation, New York

DR. PETER GOHEEN, University of Chicago, Chicago, Illinois

DR. K. HEWITT, University of Toronto, Toronto, Ontario

DR. G. IRONSIDE, York University, Toronto, Ontario

PROFESSOR G. MANLEY,
Professor of Environmental Science,
University of Lancaster,
England

DR. B. MASSAM, McGill University, Montreal, P.Q.

DR. BRIAN MCCANN, McMaster University, Hamilton, Ontario

DR. S. MCLELLAN, University of Waterloo, Waterloo, Ontario

DR. J. NYSTUEN, University of Michigan, Ann Arbor, Michigan

DR. D.F. PUTNAM, University of Toronto, Toronto, Ontario

DR. G. RUSHTON, University of Iowa, Iowa City, Iowa

DR. A. SEGAL, Editor, Africa Report, New York, New York "Soil Analysis in Geomorphology". March 10, 1970.

"The Geographical Dimensions of the Malthusian Trap". February 12, 1970.

"Integral Geometry and Measures of Shape". April 2, 1970.

"The Ecological Effect of Development". January 19, 1970.

"The Work of the United Nations in the Field of Housing and Urban and Regional Planning in Latin America". (Jointly with Political Science and Sociology). December 1, 1969.

"19th Century Ecology of Toronto". November 17, 1969.

"The Mass Movement in High Altitude Environments". March 31, 1970.

"The Relationship between Agricultural and Recreational Geography". February 10, 1970.

"Modern Trends in Climatology", and "Geography in the United Kingdom". February 4-5, 1970.

"Some Approaches to the Analysis of Territorial Patterns". January 6, 1970.

"The Shoreline Depositional Processes in Prince Edward County, Ontario, and Devon Island, Northwest Territories". December 2, 1969.

"Geomorphic Significance of Sand and Gravel Deposits in Waterloo County". November 11, 1969.

"The Concept of State in Quantitative Geography". November 3, 1969.

"Field Problems in the Preparation of the Physiographic Mapping of Southern Ontario". February 17, 1970.

"The Role of Quantitative Analysis in the Development of Location Theory". March 19, 1970.

"Economic Communities in Underdeveloped Countries". January 6, 1970.

DR. J. SIMMONS, University of Toronto, Toronto, Ontario

DR. LUIS VERA, Special Advisor, World Bank, Washington, D.C. "Modelling Flow Matrices in Urban Areas". February 5, 1970.

"A Strategy for Development Planning in the Northeast Region of Brazil". February 9, 1970.

#### **Department of History**

MR. IGOR AGU, Soviet Journalist, St. Petersburg, Russia

"Soviet Press". April, 1969.

PROFESSOR WILLIAM S. ALLEN, Wayne State University,

Detroit, Michigan

MR JUDD BUCHANAN

MR. JUDD BUCHANAN, M.P. London West, London, Ontario "The Workings of the Defence Committee and Peace Keeping in Canada". December, 1969.

"Recent Interpretation of Nazi Germany". March 6, 1970.

MR. JAMES N. GOODSELL, Christian Science Monitor, Boston, Mass. "Latin America". October 15, 1969.

PROFESSOR KAYE LAMB,
Dominion Archivist,
Ottawa Ontario

Ottawa, Ontario.

COLONEL D.J. LOOMIS, Commander, U.N. Peace Force, Cyprus

PROFESSOR RAY MACLEAN,
History Department,

Queen's University, Kingston, Ontario

PROFESSOR CAROLINE ROBBINS,

Bryn Mawr College, Bryn Mawr, Penn. "A Conceptual Framework in Canadian Defence". February 10, 1970.

"Public Archives of Canada". November 4 – 5, 1969.

"Joseph Howe – Man of Vision". March 3, 1970.

"Faith and Reason — the Pious Free Thinkers at the Turn of the 18th Century". April 3, 1970.

#### Department of Journalism

Thirty-eight professional journalists lectured and conducted workshops or seminars in the Department of Journalism including: —

MR. KEITH BAIRD, Executive Assistant to the Publisher, The Kitchener-Waterloo Record, Kitchener, Ontario "Publishing".

MR. HARRY J. BOYLE,

"Broadcasting in Canada".

Vice-Chairman,

Canadian Radio and Television Commission,

Ottawa, Ontario

MR. LOUIS COOK, Editorial Director, The Detroit Free Press, Detroit, Michigan. "Editorial Decisions".

MR. RAE CORELI,

Legal Writer, The Toronto Star,

Toronto, Ontario

"Feature Writing".

MR. CHARLES EDWARDS, Manager, Broadcast News, Toronto, Ontario Mr. W.G. ROBINSON, Parliamentary Correspondent, The London Free Press,

"Journalism".

"Public Affairs Report".

#### Department of Physical and Health Education

PROFESSOR D.C. MILNE, Michigan State University, East Lansing, Michigan DR. URIEL SIMRI,

"Growth and Development Research in the Battlecreek School District". April 23, 1970.

The Wingate Institute, Israel

London, Ontario

"The Magical Function of Small Ball Games". October 6, 1969.

#### **Department of Political Science**

DR. C.F. DENTON. Department of Political Science, Wayne State University, Detroit, Michigan

"Latin American Middle Class: Impetus or Obstacle to Political Development". October 16, 1969.

DR. F.C. ENGELMANN, Department of Political Science, University of Alberta, Edmonton, Alberta

"The End of the German Coalition". October 27, 1969.

MR. W. GARCES, Chief, Division of Physical Planning, Center for Housing, Building and Planning,

"The Work of the U.N. in the Field of Housing and Urban and Regional Planning in Latin America". (Jointly with Geography and Sociology). December 1, 1969.

DR. B.M. GROSS, Department of Political Science, Wayne State University, Detroit, Michigan

United Nations, New York

"The Changing Roles of the Public Administrator", and "Social Goals and Indicators". November 19, 1969.

PROFESSOR R. JORDAN, Department of Political Science, George Washington University, Washington, D.C.

"The Role of International Organizations in Developing Nations". February 19, 1970.

DR. PEYTON V. LYON, Department of Political Science, Carleton University, Ottawa, Ontario

"Europe, Canada's Last Chance". November 24, 1969.

PROFESSOR P.G. MARDEN, Department of Sociology, Cornell University, Ithaca, New York

"A Demographic Profile of Latin America". January 9, 1970.

MR. M. MATTHEW, Metropolitan Planning Commission, Toronto, Ontario

"Metropolitan Toronto". March 18, 1970.

PROFESSOR C. PENTLAND, Department of Political Science, Queen's University, Kingston, Ontario

"Approaches to Integration Theory in International Relations". April 3, 1970.

MR. T. PLUNKETT, Municipal Consultant, Montreal, P.Q. "Education for Urban Management". December 2, 1969.

PROFESSOR MARTIN ROBIN, Department of Political Science, Simon Fraser University, Burnaby, British Columbia "British Columbia: The Company Province". January 5, 1970.

MR. AARON SEGAL, Chief Editor of Africa Report, New York, New York

(sponsored jointly with Sociology and Geography Departments). February 4, 1970.

MR. M.L. SWART,
Executive Director,
Association of Ontario Mayors
and Reeves,
Toronto, Ontario

"Changing Role of the Municipalities". October 16, 1969.

DR. L. VERA, Consultant to World Bank, Washington, D.C. "A Strategy for Development Planning in the N.E. Region of Brazil". February 3, 1970.

## Department of Psychology

PROFESSOR D. BERLYNE, Department of Psychology, University of Toronto, Toronto, Ontario "Aesthetic Behavior". October 15, 1969.

DR. ANDREW MCGHIE, Department of Psychology, Queen's University, Kingston, Ontario "Input Dysfunction in Schizophrenia". April 9, 1970.

PROFESSOR MILTON ROKEACH, Department of Psychology, Michigan State University, East Lansing, Michigan "Current Research on the Effects of Values on Attitude and Behavior Change". December 11, 1970.

DR. MILTON SUBOSKI,
Department of Psychology,
Queen's University,
Kingston, Ontario

"Incubation, Memory Consolidation and Electroconvulsive Shock". January 22, 1970.

"Function and Causation of Signalling Among Animals", and

DR. N. TINBERGEN,
Department of Zoology,
Oxford University, England

"The Biology of Aggression". December 15, 1969.

PROFESSOR B.J. UNDERWOOD, Department of Psychology, Northwestern University, Evanston, Illinois "Recognition Memory". February 12, 1970.

## Department of Sociology

DR. W.D. BORRIE, Australian National University, Canberra, Australia "Australian Population Growth". October 29, 1969.

MR. LLOYD CAIBAIOSAI, N'Amerind Center, London, Ontario "Problems of Canadian Indian Identity". September 26, 1969.

MR. NORMAN DAVIS, Dominion Bureau of Statistics, Ottawa, Ontario "Applications of Multiple Regressions". November 6, 1969.

MR. W. GARCES,
Chief, Division of Physical Planning,
Center for Housing, Building and
Planning,
United Nations, New York
DR BRADLEY GREENBERG

DR. BRADLEY GREENBERG, Michigan State University, East Lansing, Michigan

DR. JOHN PORTER, Carleton University, Ottawa, Ontario "The Work of the U.N. in the Field of Housing and Urban and Regional Planning in Latin America". (Jointly with Geography and Political Science). December 1, 1969.

"Stratification Patterns and Mass Media Function". November 20, 1969.

"Canadian Culture and Nationalism". December 2, 1969.

#### **FACULTY OF MUSIC**

T. TSUTSUMI

Visting Professor of 'Cello and performing artist in residence since January 1967.

#### **FACULTY OF MEDICINE**

#### Department of Bacteriology and Immunology

DR. DAVID E. BRADLEY, University of Edinburgh, Scotland

DR. R.J. GIBBONS, Forsyth Dental Center, Boston, Mass.

DR. LAWRENCE GOODFRIEND,
Medical Research Assoc. of M.R.C.,
Division of Immunochemistry & Allergy,
McGill University Clinic,
Royal Victoria Hospital,
Montreal, P.Q.

DR. I.B. HEATH, Imperial College of Science, London, England

DR. W.G. MURRELL,
Division of Food Preservation,
Commonwealth Scientific and
Industrial Research Organization,
Ryde, Australia

PROFESSOR S. RAZIN,
Department of Clinical Microbiology,
The Hebrew University,
Israel

DR. M.T. SILVA, University of Porto, Portugal

DR. S.K. SINGHAL, Karolinska Institute, Stockholm, Sweden

DR. S.S. SOCRANSKY, Forsyth Dental Center, Boston, Mass. "Ultrastructural studies on bacteriophage infected cells and bacteriocins". April 6, 1970.

"Bacterial adhesion in dental plaque". February 3, 1970.

"Chemical and biological properties of human reaginic antibodies — recent developments".

January 28, 1970.

"Ultrastructural aspects of nuclear division and the formation of zoospores in the water mould *Saprolegnia*". March 3, 1970.

"Structure and function of the cortex of bacterial spores". May 11, 1970.

"The mycoplasma membrane". November 4, 1969.

"The ultrastructure of bacterial membranes after chemical fixation". November 11, 1969.

"Antigen reactive cells of the bone marrow". October 27, 1969.

"The relationship of bacteria to the etiology of Periodontal Disease". February 2, 1970.

## **Department of Biophysics**

PROFESSOR LEOPOLD DINTENFASS, University of Sydney, Australia

PROFESSOR JOSEPH HINKE, Department of Anatomy, University of British Columbia, Vancouver, B.C.

PROFESSOR A.R. MARTIN,
Department of Physiology,
Yale University School of Medicine,
New Haven, Connecticut

DR. PHILIP SEEMAN,
Department of Pharmacology,
University of Toronto,
Toronto, Ontario

DR. ROBERT SCHROTER, Physiological Flow Studies Unit, Imperial College, London, England

DR. D.F. PARSONS
Department of Biophysics,
Roswell Park, Buffalo, New York

DR. CHRISTIAN CRONE
Department of Medical Physiology,
University of Copenhagen

"Blood Rheology and Internal Viscosity of the Red Cell". July 1, 1969.

"Solvent Water and Osmotic Water in Muscle Fibres" and "Understanding NA<sup>+</sup> from Human Hypertension to the Barnacle". March 9-13, 1970.

"Properties of Nerve in the Spinal Cord of the Lamprey". March 18, 1970 and "Estimate of Probability of Transmitter Release at the Neuromuscular Junction". March 19, 1970.

"Membrane Calcium and Drugs". March 25, 1970.

"Prediction of Pressure Drop and the Distribution of Resistance During Inspiration Within the Bronchial Airways". April 6, 1970.

"Electron Microscopy of Biology Structures in the Natural State". April 7, 1970.

"Blood-Tissue Exchange; Experiments and Models". May 5, 1970.

#### Department of Community Medicine

DR. B.H.G. CURRY, Medical Director, Workman's Compensation Board

DR. E. MASTROMATTEO,
Director of Environmental Health
Services Branch of the Department
of Health

DR. P. RUDERMAN,
Professor of Health Administration,
School of Hygiene,
University of Toronto

DR. I.B. PLESS, Department of Pediatrics, University of Rochester "Workman's Compensation". November 26, 1969.

"Occupational Environment and Illness". November 12 and 19, 1969.

"There is a Uniquely Canadian Economics of Health". April 28, 1970.

"Chronic Illness in Childhood". April 16, 1970.

#### Department of Medicine

DR. D.G. CAMERON, Professor of Medicine, McGill University

DR. MARCEL LEGRAIN, Centre Medico-Chirurgical Hôpital Foch, Paris, France "The Role of the Gastrointestinal Tract in Anaemia", September 11, 1969. F.J.H. Campbell Lecturer.

"Chronic Haemodialysis and Homotransplantation, present and future" "Renal control of acid base equilibrium at terminal phase of chronic renal insufficiency", March 2-4, 1970. The McLaughlin Edward Gallie Visiting Professor of the Royal College of Physicians and Surgeons of Canada.

PROFESSOR E. MORAN CAMPBELL, Professor of Medicine, McMaster University

DR. A.E. GOOD, Associate Professor of Medicine, University of Michigan, Ann Arbor, Michigan

DR. P.C. FLEMING
Assistant Professor of
Bacteriology & Microbiology,
University of Toronto

DR. D.E. BERSAGEL, Professor of Medicine, University of Toronto

DR. L.G. ISRAELS, Professor of Medicine, University of Manitoba

DR. A. RAPOPORT, Associate Professor of Medicine, University of Toronto

DR. D.W. KILLINGER, Assistant Professor of Medicine, University of Toronto

PROFESSOR BASIL MORSON, St. Mark's Hospital, London, England "Chronic Obstructive Pulmonary Disease and its Treatment" November 1, 1969.

"Examination of Joint Effusions" "Ankylosing Spondylitis". November 28, 1969.

"Meningitis and Its Treatment" "Super Infection", December 9, 1969.

"Multiple Myeloma", January 30, 1970.

"Disseminated Intravascular Coagulation" "Congenital Hyperbilirubinemia", February 26, 1970.

"Assessment of Renal Function" "Reno-Vascular Hypertension", April 24, 1970.

"Testosterone and Its Metabolism" May 22, 1970.

"Histopathology of Intestinal Ischaemia and the histology of intestinal polyposis", May 28, 1970.

#### **Department of Paediatrics**

DR. F.A. HOMMES,
Head, Department of Paediatrics
Laboratory,
State University,
Groningen, The Netherlands

DR. B.H. LANDING,
Department of Pathology,
University of Southern California

DR. PAUL TAYLOR,
Department of Paediatrics and
Department of Obstetrics and
Gynaecology,
University of Pittsburgh and
Magee Womens Hospital

"Some Biochemical Studies in Hyperglycenaemia" and "Control of Energy Metabolism During Development". May 11 -- 15, 1970.

"Abnormal Susceptibility to Infections". February 18, 1970.

"Asphyxia Neonatorum" and "Prevention of Hyaline Membrane Disease". December 10, 1969.

#### **Department of Pathological Chemistry**

DR. F.A. HOMMES,
Head of the Department of Paediatrics
Laboratory,
School of Medicine,
State University at Groningen,
The Netherlands

"Some Biochemical studies in hyperglycinaemia". May 13, 1970.

"Control of Energy metabolism during development". May 14, 1970.

# **Department of Pathology**

MR. M.G. DAVEY,
Director,
Blood Transfusion Service
of Western Australia,
Perth, Australia.

"Immunology of Platelets" March 24, 1970.

DR. BENJAMIN H. LANDING, Professor of Pathology and Pediatrics, University of Southern California, Los Angeles, California "Genetic Factors in Determination of Tumors". February 17, 1970

DR. ROBERT J. LUKES, University of Southern California, Los Angeles, California "Lymphoma-Leukemias — Problems in Diagnosis". January 20, 1970.

SIR GEORGE PICKERING, Pembroke College, Oxford, England

"Hypertension and arterial disease". September 8-9, 1969.

DR. H. IRA PILGRAM,
Associate Research Professor,
The Germfree Laboratory,
Department of Surgery,
University of Utah College of Medicine,
Salt Lake City, Utah

"Selective Metastasis in Reticular Tumors". June 2, 1970.

DR. JOHN POOLE,
Department of Pathology,
Sir William Dunn School of Pathology,
Oxford, England

"The Behavior of Leucocytes in Inflammation and Thrombosis". October 28, 1969.

DR. P. SCHIFF, Chief of Research, Commonwealth Serum Laboratories, Melbourne, Australia

"Immunology of Rh Disease".

#### Department of Pharmacology

PROFESSOR G.V.R. BORN,
Department of Pharmacology,
Royal College of Surgeons of England,
Lincoln's Inn Fields,
London, England

"Pharmacological Research on Blood Cell Surfaces", "Physiological and Pharmacological Researches on Thrombosis". November 1, 1969.

# Department of Physical Medicine and Rehabilitation

FREDERIC J. KOTTKE,
Professor and Head,
Department of Physical Medicine
and Rehabilitation
University of Minnesota Medical School
Minneapolis, Minnesota

"Reflexes Contributing to Spasticity in Cerebral Palsy",
Neurology Rounds: "Peripheral Chemical Control of
Spastic Muscles",
Rheumatology Rounds: "Total Hip Prosthetic Replacement",
April 27, 1970 to April 28, 1970.

#### Department of Physiology

DR. J.S. BAUMBER, Department of Physiology, The University of Missouri "The Renin-Angiotensin-Aldosterone System in Chronic Experimental Left Heart Failure".

January 19 and 20, 1970.

PROFESSOR L. BECK,
Department of Physiology,
The University of New Mexico

"The Histaminergic Vasodilator System". June 3 – 5, 1970.

DR. A.M. BROWN,
Departments of Physiology
and Medicine,
University of Utah

"Functional Significance of Ion Activities in Neurones". April 9, 1970.

DR. G. DAWES, Nuffield Institute for Medical Research, Oxford University, England

"Birth Adaptation". April 24, 1970.

DR. C. EDWARDS, State University of New York, Albany, New York "Studies on the Chemical Properties of the Acetylcholine Receptor Site of the Neuromuscular Junction of the Frog". April 2, 1970.

DR. J.J. FABER, Established Investigator, American Heart Association, Associate Professor of Physiology, University of Oregon Medical School "Placental Gas Exchange and Blood Flow". June 5, 1970.

PROFESSOR G.R.HERVEY, Department of Physiology, The School of Medicine, The University of Leeds, England March 13 and 14, 1970.

DR. J.A. HINKE, Department of Anatomy, The University of British Columbia "Solvent Water and Osmotic Water in Muscle Fibres".
"Understanding Na<sup>+</sup> From Human Hypertension to the Barnacle". March 9 - 13, 1970.

DR. C. HOCKMAN,
Department of Pharmacology,
The University of Toronto

"Limbic System: Modulator of Autonomic Reflex". January 28, 1970.

DR. W.M. KOZAK, State University of New York at Buffalo "Transmission of Information in the Subcortical Visual Centres of the Cat". March 13, 1970.

DR. K. LIVINGSTON,
Department of Pharmacology,
The University of Toronto

"Clinical Implications of Modulation of Autonomic Reflexes by the Limbic System". January 28, 1970.

DR. A.R. MARTIN,
Professor of Physiology,
Yale University School of Medicine,
New Haven, Connecticut

"Properties of Nerve in the Spinal Cord of the Lamprey". "Estimated of Probability of Transmitter Release at the Neuromuscular Junction". March 18 and 19, 1970.

DR. S. MILKOVIC, Professor of Pharmacology and Head, Laboratory for Experimental Medicine, The University of Zagreb, Yugoslavia "Perinatal Endocrinology: Pituitary — Adrenal Glands". November 25, 1969.

DR. J.T. MURPHY, Laboratory of Neurobiology, State University of New York at Buffalo "Information Processing in Cerebellar Purkinje Cells". December 15, 1969.

DR. G.D. NISWENDER,
Assistant Professor of Physiology,
The Department of Pathology,
The University of Michigan,
Ann Arbor, Michigan

"Physiological Studies With Radio-immunoassays for Luteinizing Hormone". January 12, 1970.

DR. E.K. O'HEA,
Department of Animal Science,
The University of Illinois,
College of Agriculture,
Urbana, Illinois

DR. H.R. RAUD, Division of Endocrinology, Harbor General Hospital, California

DR. A.B. STEFFENS, Zoological Laboratory, State University of Groningen, Haren, The Netherlands

DR. D.J. STEWART,
Department of Biological Sciences,
University of California,
Santa Barbara, California

DR. A.T. STOREY, Dental School, The University of Toronto

DR. J.R. TROTT,
Faculty of Dentistry,
Department of Oral Pathology,
The University of Manitoba,
Winnipeg, Manitoba

DR. W.K. WHITTEN,
Jackson Laboratories,
Bar Harbor, Maine

DR. J.P. WIEBE, Department of Zoology, The University of Leeds, England

DR. W.H. ZIEGLER, University Medical Clinic, Montreal General Hospital, Quebec "Lipid Synthesis and Regulation". December 10 and 29, 1969.

"Recent Investigations of the Physiology of Prolactin". May 8, 1970.

September 25, 1969.

"Some Aspects of the Physiology of the Avian Salt Gland". August 26 and 27, 1969.

"Peripheral Inputs Initiating Swallowing". January 27, 1970.

"The Cellular Dynamics of the Cervical Lymph Nodes Following Antigen Injections in Gingiva". March 18-23, 1970.

"Mammalian Sex Pheromones". March 3, 1970.

December 18, 1969.

"Compartmental Analysis and Transcapillary Exchange in the Working Dog Heart". November 14, 1969.

# **Department of Surgery**

DR. E.W. CARPENTER, Department of Surgery, University of Michigan, Ann Arbor, Michigan

MR. A. DWYER, Sydney, Australia

DR. W. FIELDING,
Chief of the Department of Orthopaedic
Surgery,

St. Luke's Hospital, New York, New York

PROFESSOR H. HASSAB, Professor of Surgery, University of Alexandria, U.A.R. April 6, 1970.

World authority on instrumentation for scoliosis. October 15, 1969.

Outstanding authority on cervical pathology and its radiological diagnosis. February 26, 1970.

"The Surgery of Portal Hypertension" September 7, 1969.

DR. K.J. MACKINNON, Urologist-in-Chief, Royal Victoria Hospital, Montreal

DR. F. MIDGLEY, Medical School, University of Michigan, Ann Arbor, Michigan

PROFESSOR G.SCHIMERT, Associate Professor of Surgery, State University of New York at Buffalo "Urinary Tract Infections" April 22, 1970.

(Frederick A. Coller Society Clinical Tour Recipient) February 2, 1970.

"Coronary Artery Surgery" June, 1970.

"Gingival Grafts", April 17, 1970.

#### **FACULTY OF DENTISTRY**

#### **Department of Oral Medicine**

DR. G.H. CRUSSOL, University of Paris, France

PROFESSOR J.R. TROTT, Department of Oral Pathology, The University of Manitoba, Winnipeg, Manitoba

#### **Department of Oral Surgery**

DR. D.T. BENNETT Consultant Orthodontist, Newcastle-upon-Tyne Dental Hospital, England

DR. S. KENNETT
Department of Oral Surgery
The University of Manitoba
Winnipeg, Manitoba

March 23, 1970.

Following Antigen Injections in Gingiva", March 19 and

"The Cellular Dynamics of the Cervical Lymph Nodes

"Some Contemporary Approaches to Oral Disease", and

"Orthodontics and Oral Surgery", September 22, 1969.

"Medical Conditions Predisposing to Collapse", April 2, 1970.

#### Department of Paediatric Dentistry

DR. D.T. BENNETT,
Consultant Orthodontist,
Newcastle-upon-Tyne Dental Hospital,
England

DR. E.G. DERRETT,
Acting Chairman,
Department of Pedodontics,
The University of Manitoba,
Winnipeg, Manitoba

DR. A.W. EASTWOOD, Faculty of Dentistry, Dalhousie University, Halifax, Nova Scotia "Traumatized Incisors", September 19, 1969.

"Group Practice", February 10, 1970.

"Diagnostic Philosophy", December 2 - 4, 1969.

DR. A.W. EASTWOOD, Faculty of Dentistry, Dalhousie University, Halifax, Nova Scotia

DR. KALEVI KOSKI,
Professor and Chairman,
Department of Paediatric Dentistry,
Institute of Dentistry,
Turku University,
Turku, Finland

DR. J.A.B. McLEISH,
Executive Vice-Chairman,
Professional Educational Project
Ontario Institute for Studies
in Education, 252 Bloor Street West,
Toronto, Ontario

DR. FRANZ VANDER LINDEN, Chairman, Department of Orthodontics, University of Nijmagen, The Netherlands "External Examiner", May 8, 1970.

"Transplantation of Cartilage in Rats", January 13, 1970.

"Curriculum Consultant", January 15 - 16, 1970; April 6, 7, 10, 11, 20 and 28, 1970; June 2 - 3, 1970.

"Interrelated Factors in the Morphogenisis of Teeth, the Development of the Dentition and Craniofacial Growth", February 27, 1970.

#### **Department of Restorative Dentistry**

DR. ISRAEL KLEINBERG, Ph.D.,
Professor and Chairman,
Department of Oral Biology,
Faculty of Dentistry,
University of Manitoba,
Winnipeg, Manitoba

DR. WILLIAM MILLER, Ph.D., Associate Professor, Department of Oral Biology, State University of New York at Buffalo

LIEUT-COLONEL PAUL SILLS, D.D.S., Canadian Forces Dental Services School Canadian Forces Base, Borden, Ontario "Biochemistry of Dental Caries", Undergraduate Interdisciplinary Teaching Series, November 13, 1969.

"Histopathology of Dental Caries", Undergraduate Interdisciplinary Teaching Series, November 20, 1969.

"Removable Prosthetics", April 30 - May 1, 1970.

# Department of Social Dentistry

LIEUT-COLONEL A.G. ANDREWS, D.D.S., Canadian Forces Dental Services School, Canadian Forces Base Borden, Ontario "Resuscitation Procedures in Mass Casualty Care" and "Dental Clinic Emergency", January 10 - 12, 1970.

#### FACULTY OF ENGINEERING SCIENCE

PROFESSOR E. BALINT
Visiting Associate Professor
Associate Professor of Building
University of New South Wales, Australia
Civil Engineering

DR. D.E. ELRICK
Professor of Soil Science
Ontario Agricultural College
University of Guelph
Environmental Engineering

Lectured Fourth Year Students on "Design". Did preliminary research on "Damping Properties of Prestressed Concrete". September to December 1969.

"Soil Pollution". December 10 - 12, 1969

DR. R. LARSEN

Assistant Chief, Field Studies Branch
U.S. Public Health Service Division of
Air Pollution, R.A. Taft Sanitary
Engineering Centre

"Environmental Engineering". February 18, 1970.

Cincinnati, Ohio

DR. G.D. McPHERSON

Supervisor

Heat Transfer Section

Chalk River Nuclear Laboratory

Atomic Energy of Canada Ltd.
PROFESSOR A.D. MOORE

Professor Emeritus

University of Michigan, Ann Arbor, Michigan

Electrical Engineering

DR. M. ROBINSON

Health Protection Engineering Division

U.S. Atomic Energy Commission

New York

**Environmental Engineering** 

PROFESSOR L.T. RUSSELL

Assistant Professor

Nova Scotia Technical College

Mechanical Engineering

DR. A. VERRUIJT

Visiting Professor in Hydrology

Lecturer

Delft University, The Netherlands

Civil Engineering

DR. G.B. WARBURTON

Professor of Applied Mechanics University of Nottingham, England

Mechanical Engineering

"Boiling Heat Transfer, Two Phase Flow and Its Application

to Nuclear Reactors". April 1970.

"Electrostatic Precipitation". December 1969.

"Electrostatic Precipitation". March 2 and 3, 1970.

"Stress and Displacement Waves in Solid Bars". April 1970.

"Groundwater Hydrology".

Presented seminars at universities in Western Canada as well

as Ontario. September 1969 to May 1970.

"Dynamics of Plates, Shells and Structures". June 5, 1970.

#### SCHOOL OF BUSINESS ADMINISTRATION

MR. I.H. ASPER,

Asper and Company,

Winnipeg, Manitoba

PROFESSOR JOHN BOSSONS,

University of Toronto, Toronto, Ontario

PROFESSOR JAMES C. EMERY,

Wharton School of Finance and

Commerce,

Philadelphia, Penn.

PROFESSOR PAUL E. GREEN,

Wharton School of Finance and

Commerce,

Philadelphia, Penn.

DR. SHERMAN GRINNELL,

Case Western Reserve University

Cleveland, Ohio

"The White Paper: A Critical Review"

"The New Canadian Tax System: An Evaluation", December 2 - 4, 1969.

"White Paper Tax Reform Proposals", March 18, 1970.

"Systems Concepts Applied to Organizations"

"What is a Management Information System?", December 4 - 5, 1969.

"Marketing Measurement and Data Analysis: Some Recent

Developments", February 17 - 19, 1970.

"Organizational Design for Interdisciplinary Collaboration"

"Collaboration Among Organizations - An Integrative Process

for Urban Planning"

"Experiential Learning Methods, Interpersonal Exercises, Non-

Verbal Exercises", February 4 - 5, 1970.

PROFESSOR JOHN A. HOWARD, Columbia University, New York, N.Y.

PROFESSOR WILLIAM LAZER, Michigan State University, East Lansing, Michigan

PROFESSOR GEORGE C. LODGE, Harvard Business School, Boston, Mass.

DR. MARSHALL McLUHAN, University of Toronto, Toronto, Ontario

PROFESSOR JOSEPH W. NEWMAN, University of Michigan, Ann Arbor, Michigan

PROFESSOR JOHN PORTER,
Department of Sociology and
Anthropology,
Carleton University,
Ottawa, Ontario

"Some New Directions in Economic and Psychological Research"
"Theory and Measurement of Innovative Behavior", December
8 - 11, 1969.

Ford Visiting Lecturer. No Public Lectures. October 20 - 24, 2969.

"Engines of Change", November 11, 1969.

"The Future of Management"
"The Future of Future" March 19 - 20, 1970.

"Patterns of Purchase Decision Behavior — What Are They for Automobiles and Major Household Appliances" "Patterns of Purchase Decision Behavior — Why the Differences" October 20 - 24, 1969.

"Elitism to Egalitarianism in Higher Education in Canada" "Some Aspects of Social Change in Canada" "The Search for Highly Qualified Manpower". December 1 - 3, 1969.

#### ALTHOUSE COLLEGE OF EDUCATION

DR. C.H. AHARAN,
Director,
Addiction Research Foundation,
London, Ontario

DR. CARL BEREITER,
Department of Applied Psychology,
Ontario Institute for Studies in Education,
Toronto, Ontario

DR. W. BERINGER, York University, Toronto, Ontario

DR. J.W. BERRY,
Department of Psychology,
Queen's University,
Kingston, Ontario

MR. GLEN BONHAM, Executive Assistant for Computer Science, Deputy Minister of Education, Ottawa, Ontario

DR. C. CHERRYHOLMES, Political Science Department, Michigan State University, East Lansing, Michigan

MR. W. CURRIE,
Assistant Superintendent,
Department of Supervision,
Department of Education,
Toronto, Ontario

DR. JOHN DUBOIS,
Director,
Madame Vanier Children's Services,
London, Ontario

"Drug Addiction". November 18, 1969.

"Restoring Dignity to Learning." February 24, 1970.

"New Discoveries and Ideas in Greek and Roman History". July 28 — August 1, 1969.

"Ecological and Cultural Factors In Perception and Personality". April 14, 1970.

"Computer Science and the Mathematics Teacher". January 27, 1970.

"Simulations: Theory and Design". July 14 - 18, 1969.

"The Indians' View of the World". January 27, 1970.

"Diagnosis and Treatment of the Emotionally Handicapped Child". March 11, 1970.

DR. EDGAR Z. FRIENDENBERG, Professor of Social Foundations and

Sociology,

State University of New York at Buffalo

DR. B. GOLDBERG,

Director,

Children's Psychiatric Research Institute,

London, Ontario

"Special Services for the Emotionally Handicapped".

February 25, 1970.

DR. CARL GROSS,

Professor and Chairman,

Department of Secondary Education and

Curriculum,

Michigan State University,

East Lansing, Michigan

DR. J. HAVELKA,

King's College,

University of Western Ontario,

London, Ontario

DR. JOSEPH HILL.

Director of Education,

Six Nations Reserve.

Brantford, Ontario

MR. W. HRUDEN,

Hruden Research Laboratory,

Windsor, Ontario

DR. PHILIP JACKSON,

Professor of Education and Human

Development,

University of Chicago,

Chicago, Illinois

MR. MORRIS I. KLIGMAN, C.S.R.,

Hunter College,

New York, New York

MR. HARVEY LONGBOAT,

School Counselor,

Six Nations Reserve,

Oshweken, Ontario

DR. RAYMOND A. MacLEAN,

Visiting Professor,

Department of History,

Queen's University,

Kingston, Ontario

MR. B. ROBINSON,

Co-ordinator, Television Services,

London Board of Education,

London, Ontario

MR. C.H. ROBERT,

Instructional Media Centre,

University of Western Ontario,

London, Ontario

DR. RICHARD STENNETT,

Director of Research,

Department of Psychological Services,

London Board of Education,

London, Ontario

"Sisyphus' Acid Rock". April 15, 1970.

"Problems in American Education Today." November 6, 1969.

"Mental Health and the Teacher-Counsellor."

March 9, 1970.

"Indian Education in the Six Nations".

February 24, 1970.

"Safety in the Chemistry Laboratory."

January, 1970.

"The Demands of Schooling". March 3, 1970.

"How to Write 240 WPM in Pitman Shorthand".

July 2 - 22, 1969.

"The Indian Pupil at School". February 17, 1970.

"Joseph Howe — Man of Vision". Jointly sponsored by Dept. of History of Education, Althouse College, and Dept. of

History, Talbot College. March 3, 1970.

"Television Programming for History Teachers". July

7 - 11, 1969.

Gave a talk illustrated by a film he had made on the London

French School.

"Research in the London Board of Education". March 12,

1970.

DR. ALAN SPIRES, School Psychologist, London Board of Education, London, Ontario

MR. RALPH STAAL, Professor of Mathematics, University of Waterloo, Waterloo, Ontario

DR. J.H. TRUEMAN, McMaster University, Hamilton, Ontario "The London Psychological Service Programme". January 14, 1970.

"School Mathematics in the Seventies." March 18, 1970.

"Medieval Technology". March 17, 1970.

#### KING'S COLLEGE

MR. JUSTICE W.A. DONOHUE, Supreme Court of Ontario

PROFESSOR JOHN FARINA, University of Toronto

PROFESSOR MYER KATZ, McGill University

PROFESSOR JOHN MacDONALD, University of Toronto

MR. DAVID SPURGEON, Toronto Globe and Mail

DR. J.H. WALTERS, St. Joseph's Hospital London, Ontario

N.

"Free Press vs. Fair Trial." March 3, 1970.

"Leisure." April 7, 1970.

"Social Work Education." April 2, 1970.

"Social Work Practice." January 9, 1970.

"Science and Conscience." March 24, 1970.

"Abortion." February 10, 1970.

# APPENDIX F THE DEANS' HONORS LIST, SPRING 1970

# THE DEANS' HONORS LIST, SPRING 1970

The following full-time students obtained first class honors standing this year on their work toward a first degree in each Faculty.

# THE FACULTIES OF ARTS, MUSIC, SCIENCE AND SOCIAL SCIENCE

#### **Brescia College**

#### Graduates

Antonucci, Kathryn Ann, London Cook, Suzanne Arlene, Islington Denys, Mary Rose, Fletcher Genetti, Carol Ann, Sault Ste Marie Jarmain, Janice Marie, Mount Brydges Reynolds, Brenda Lucretia, Barrie Tenhaaf, Catherine Marie, Oshawa Vergunst, Ann Maria Petronella, Sarnia Zylstra, Frederikje, Corunna

### Undergraduates

Becke, Catherine, Amherst, N.S. Chung, Mabel Siu-Ying, Hong Kong Denys, Theresa Annie Laurette, Fletcher Papaiz, Enrichetta Enrica, Timmins Ritchie, Margo (Sr. Patrice), London Scholz, Aleida Maria, Port Dover Shami, Jeanne Mary, Sault Ste Marie Smith, Barbara Jean, Chatham Taylor, Mary Anne, Owen Sound Tobin, Moira Anne, Komoka Wade, Shirley Anne, Neenah, U.S.A.

# **Huron College**

# Graduates

Buckrell, Margaret Ann, St. Catharines Hamilton, David Reginald Bryce, Scarborough Langford, Patricia Anne, Powassan

Pidgeon, Gail Ann, Burlington Powers, Maureen Linda, Iroquois Falls

# Undergraduate

Belcher, Wendy Anne, Weston
Boyer, Carol Jean, London
Currie, Barbara Helen, Ingersoll
Dench, Hugh Brian Douglas, Sudbury
Frank, Christine Ellen, Lambeth
Hallam, Margaret Anne Selkirk, Windsor
Leader, Louvette Linda, Deep River
Leitch, Ruth Anne, Dutton

Livingstone, Ruth Marie, West Lorne Lownds, John Richard, London McFadden, Elspeth Lenore, Kitchener Potts, Beverly Joan, London Rothel, John, Downsview Scott, Joanna, London Thomas, Nancy Jane, London

#### King's College

#### Graduates

Burton, Patricia Anne, London Chmiel, Joseph Jacob, Brantford Dillon, John Thomas, Sarnia Giannandrea, Vincenzo, Sarnia Heffron, Robert James, Sarnia McLaughlin, Stephen James, London Théoret, David John, Sturgeon Falls Turley, Bradford Thomas, Altamonte Springs Werstine, Edward Paul, Galt Whelan, Daniel Raymond, London Willson, Jim Norris, London

# Undergraduates

Aziz, Carole Jane, London Bognar, Carl Joseph Thomas, Hamilton Boutette, David Louis, Tecumseh McIsaac, Michael Albert, Orillia Roth, James Alan Peter, Stratford Scarfone, Judith Anne Frances, Sault Ste Marie Stinchcombe, John George, Windsor Van der Zalm, Ann Jacqueline, Stoney Creek Velden, Cornelia Doris, London

# THE FACULTY OF ARTS

#### Graduates

Babcock, Daryl Burton, London Bahnmiller, David Lyle, Stratford Barabe, James Paul, Albuquerque, U.S.A. Bevan, Nancy Marie, Oshawa Boddington, George Beck, Toronto Brezicki, Colin Gordon Andrew, Toronto Chute, Patricia Anne, Simcoe Cowan, Mary Kayleen, Chatham Farrell, Beverley Noreen, London Grant, Lynda Gail, London Hessenaur, Brenda Faith, Preston Kelly, Barbara Jean, Tillsonburg Kney, Franz Xaver, London Lalonde, Claudette Lucie, Stoney Point Lisowski, Janusz Ryszard, Smithville McKinley, Mary Elizabeth, London

May, Marcella Jane, Wingham
Millen, Donna Beth, Windsor
Oates, Mary Jane Elizabeth, Hamilton
Parmentier, Michel Alfred, London
Peters, Alexander Lionel, London
Plowright, Jane Louise, Toronto
Sadler, Martha Helen, Essex
Schaefer, Nancy Elizabeth, St. Marys
Sutherland, John Andrew, Port Stanley
Treloar, Nancy Karen, Trenton
Walker, Kent Woodward, Stratford
Waugh, Thomas Henry Roppel, Hamilton
White, Catherine Joan, London
Whitford, Sharyn Marie, London
Young, Mary Louise, London

#### **Undergraduates**

Adams, Heather Jean, Welland Arnold, Robert James William, London Barnes, Mary Elisabeth Anne, Oakville Beekman, Marlousje, London Beninger, Richard James, St. Catharines Borbely, Angelina Ann-Marie, Port Colborne Bowlby, Teresa Lynn, Tillsonburg Bruckschwaiger, Renate Ursula, London Carmichael, Lesley Margaret, Willowdale Chapman, Wendy Elizabeth, London Daniels, Anne Frances Mary, London Davey, Deborah Ann, Islington DeJong, Harmen Albert, London Devlin, Jane Harriet, Toronto Dickson, Linda Joyce, London Durrant, John Stuart, London Feldmar, Katharine Lesley, London Ferguson, Diana Lynn, London Fickes, Barbara Joyce, Burlington Filman, Margaret Elizabeth, Windsor Galinaitis, John Algimantas, Toronto Gee, Linda Hazel Doreen, London Geist, Birgit Sonja Katharina, London Haldane, Alexandra Lynda, London Halikias, Carol Ann, Toronto Hardman, Joye Amelia, Wiarton Hendrick, Gwenneth Anne, Kippen Hewitt, David John, Hagersville Hottot, Peggy Ann Jane, Niagara Falls Hyckie, David George, Thompson, Manitoba

Ingle, Michael Douglas, Sarnia Jeffery, James William, Exeter Johnson, Marion Rose, London Keillor, Jacqueline Gladys, London Kennedy, Arlene Marie, London Kingham, Heather Ann, London Lamothe, Lucille Georgina, London Leathers, Frances May, Birmingham, U.S.A. Lewis, Linda Jean, London McGuire, Patrick Lambert, Chatham McKay, Mary Raye, Owen Sound McKeen, Eleanor Anne, London MacKenzie, David Ian, Sarnia MacLennan, Elizabeth, Cornwall McSpadden, Karen Marie, Otterville Maki, Carol Alexis, Sudbury Mansell, Gregory John, London Marson, Darlene Crystal, Sault Ste Marie Menschel, Eva-Maria, Queensville Miller, Wayne Arthur, Essex Mitchell, Margaret Marie, Eden Mitoraj, Wanda Kathleen, Ilderton Moffatt, Dorothy Patricia, Lambeth Moore, Kathleen Roberta, London Moore, Robert Allan, London Naylor, Marguerite Anne, London Neal, Janice Lynne, London Ohland, Linda Karen, Simcoe Parker, Norman Geoffrey, London Robinson, Marnie Lou, London

Roffey, Margaret Joan, Sarnia
Schaeubinger, Dorothee, London
Schneider, Karin, Woodstock
Scrimshaw, Sandelle Dawn, London
Sherk, Marta Pauline, Port Colborne
Smith, Katharine Blakely, Willowdale
Spenler, Demaris Darlene, Wallaceburg
Stones, Bonnie Colleen Betty, St. Catharines
Sykes, Robert Arthur Roderick, Sarnia

Szajda, Mary Helen Teresa, Orillia Tanaka, Richard Eizo, Port Credit Taylor, Catherine Alison, London Traher, Olga, London Walker, Glenn Colin, Alvinston Wierich, Heinz Dieter, London Wilson, Marlys Lee, Kenora Zakich, Sussanna, Woodstock Zimmerman, Nancy Diane, Welland

#### THE FACULTY OF MUSIC

#### Graduates

Cairns, Janet Ann, London Fisher, Sarah Ann, Sault Ste Marie Henry, Margaret Elaine, London Karges, Sylvia Anne, Denfield Roberts, Brian Alan, St. Thomas Stewart, Nancy Irene, London Taylor, Jane Frances, London

#### **Undergraduates**

Adair, Elaine Jane, Windsor Davidson, Panela Dawn, Merlin Gilbert, Linda Diane, London Glofcheskie, John Michael Gerard, Barry's Bay Kwasnica, Daniel George, Delhi Lindsey, Nancy Ellen, Mono Road Olson, Yvonne Evelyn Ida, Port Arthur

Jordan, Lesley Ann, London

#### THE FACULTY OF SCIENCE

#### Graduates

Allen, Marilyn Eugenia London Bain, Robert George, Petrolia Barr, Robert Francis, Dorchester Blanchette, Richard Anthony, Flint Hall, Barbadoes Box, Stephen John Charles, London Bradfield, Gary Edward, London Broughton, William Frederick, London Chapman, Judith Anne, London Clements, Nigel David, London Cole, Bonnie Ann, St. Thomas Coulthart, Kenneth Charles, Sarnia Crawford, John Walter, Maple Leaf Cumming, Alice Mildred, Port Elgin Cunningham, Roger Brian, St. Williams Driedger, Harry John, Wheatley Duncan, Judith Evelyn, Weston Egleston, Lois Katherine, London Fisher, Elizabeth Anne, Scarborough Forbes, Louise Marie, London French, Laura Esther, Lucan Gilman, Andrew Philip, Fergus Gorman, Lillian Dale, Tillsonburg Grace, Archie Norman, London Guindon, Bert, Cornwall Hancock, Margaret Anne, Fort William Harris, Glenn, Toronto Houston, Robert Frederick, Thamesville Hunt, Elizabeth Jane, St. Catharines

Johnston, Leonard Stephen, London

King, Janice Elizabeth, London Langtry, Edward Kingsley, London Latham, Brian Gilbert, Sault Ste Marie Lawes, Murray Charles, Alvinston Leyton, Robert Edward Geoffery, London Li, Fook Wing, Kowloon, Hong Kong McCarter, Robert Malcolm, London McIntyre, Dan Charles, Highgate McKeough, Michael Joseph, Toronto Macrow, Donna Marie, London Martin, Malcolm David, London Matheson, Douglas Alfred, London Matthews, David Edward, London Miller, John Charles, London Mizon, Robert Elmore, London O'Halloran, Kenneth Robert, Kirkland Lake Paxton, Donna Darlene, London Rosehart, Benedict Raymond, Tillsonburg Rueckwald, Joanne Susan, London Semotok, John David Herman, Sioux Lookout Sherwin, Richard Dawson, London Smith, Karen Jean, Woodstock Sterner, Brent Hinton, London Temmer, Elisabeth, Langton Thornhill, William Charles, London Traquair, James Alvin, Kippen Vilos, George Angelos, London Ward, Kenneth McLean, Belleville

Watt, Sheila Evelyn, Schumacher Watters, Carolyn Rose, Goderich Watters, Conrad William, Goderich Weber, Hans Jurgen Emil, Pickering Willems, Linda Marie, Waterford Woodward, Gary Wayne, Willowdale Yardley, Trevor Wayne, Port Credit Yeager, Karl Lewis, London Young, James Kenneth, North Bay

## Undergraduate

Adams, Howard Franklyn, Scarborough Andrews, Anthony James, Beardmore Armstrong, Shelley Barbara, Ottawa Arnold, Robert Douglas, London Bagnall, Stephen James, London Gailey, Carol Anne, London Bain, Sheila Elizabeth, London Ballantyne, Patricia Kathleen, Kapuskasing Bates, Gordon Steven, London Beaman, Robert John, Tillsonburg Beattie, Robert Alan, London Berney, Wayne, London Borwein, Jonathan Michael, London Brown, Peter Maurice, Wallaceburg Brunton, William Harold, Grimsby Cairncross, John Gregory, London Campling, Barbara Grace, Kingston Ciavarella, Anthony Peter, Hamilton Chow, Wing Tim, Hong Kong Chung, Hon Kit, Wanchai, Hong Kong Chung, Kin Pong, Kowloon, Hong King Clark, Kenneth Dale, Dresden Clement, Mary Patricia, Wallaceburg Clements, Ernest Ross, Port Arthur Cooper, John Andrew William, Tillsonburg Crews, Elizabeth Wendy Warren, Trenton Dalrymple, Robert Walker, Smithville Deimling, John Peter Paul, Tecumseh Demers, Carmen Suzanne Lea, Garson Digges, Deborah Dean, London Drobac, Milutin, Windsor Enns, Henry Harold, London Facey, Paul Douglas, London Farrell, Leslie Ruth, Windsor Fawcett, Ruth Anne, Brantford Ferris, Barry Charles, London Fischer, John David, London Forster, Stephen Richard, St. Thomas Goad, Ralph Frederick, Deep River Goddard, John David, Hensall Greenwood, Margaret Joan, London Growse, Michael Joseph, London Gulshani, Parweez Abulkassim, Manama, Behrain Hampton, William Erle, London Hartman, William Harry, London Harvey, John Tyson, Dundas Heagy, Elizabeth Christine, London Hendrie, Peter Miller, Burlington Ho, Wing Ling Lucille, Hong Kong Hudak, David Ronald, Sarnia Humeniuk, Mary Louise, London Innanen, Joyce Dianne, Tillsonburg

Kerhoulas, Gary, London Kogerma, Kristjan IIo, Berea, U.S.A. Koppert, George John, Leamington Kristensen, John, London Kryn, Edward, Woodstock Lam, Man Lung, Wanchai, Hong Kong Law, Kwok Cheung, Man Wai St., Hong Kong Lawson, Janet Grace, London Leung, Christopher Ping-Hung, Hong Kong Leung, Daniel Ping Man, Hong Kong Leung, Hai Yeung, Hong Kong Leung, Kam Fai Timothy, Hong Kong Li, Shiu Kang, Hong Kong Lim, Bing, Kota Kinabalu, Malaysia Lloyd, David Jeremy, London Long, Barry Herbert, London Lovatt, Frances Elizabeth, Woodstock Macaulay, Peter Michael, London Macdonald, Margaret Ann, Toronto McKeon, Dennis Gerard Creasor, London Martin, Jim Scott Bradley, London Mason, Jane Christine, Oshawa Melis, Lawrence Andre Joseph, Elliot Lake Michiels, Paul Joseph, Lambeth Mollin, Richard Anthony, Kingston Morrow, Ronald Bruce, Burlington Naylor, Nancy Lynne, Sault Ste Marie Nelson, Louise Mary, Vancouver Newbegin, Barbara Joan, London Nolewajka, Andre Joseph, Brantford Oldfield, Margaret Anne, Brussels Pelz, David Michael, Islington Perkin, Gary William, Oshawa Petersen, Nils Overgaard, London Prentice, Lee Thomas, Willowdale Remington, David Brian, Kincardine Richardson, Bryan Stanly, Wallaceburg Rodgers, David Vernon, Charlton Rose, Keith Frederick, London Rowe, Charles David, Toronto Rumas, Stephen Matthew, London Ryder, Nancy Helen, Delhi Scott, Susan Margaret, London Scott, Vivien Edith Nelson, London Shelley, Dianne Lynn, Mitchell Sherwin, Linda Jane, London Shuster, Igor Jerry, Sarnia Sin, Chung Pak, Hong Kong Skill, Arthur John Edgar, Keene Spurgeon, James Kenneth, Chatham Twp. Stephenson, Grant Russell, London Tam, Hon-Yin Albert, Toronto

Taylor, Brian Malcolm, Putnam
Thomas, Inez Penelope, Niagara Falls
Thompson, Cristine Madeleine, Toronto
Thornton, William Ward, London
Todgham, James Herbert, Chatham
Treleaven, Karen Elizabeth, London
Tsui, Miuhan Anna, Hong Kong
Vance, Alan Ross, Sudbury
Vernon, James Douglas, Clarkson
Wahby, Allen James, Windsor
Wai, Chi-Tak, Hong Kong

Walker, James Douglas, Hamilton Watson, Richard Keith, Hamilton Watt, Mary Deborah, Schumacher Whish, Margaret Anne, Agincourt Winokur, Paul Michael, Windsor Wong, Dean Foster, Fort Erie Wong, Kue-Ching Thomas, Toronto Woodham, Robert James, Ottawa Wright, Frederick Forbes, Ajax Wright, Lois Ellen, London Zvagulis, Maruta, London

Hazell, Terrylea Anne, Orangeville

#### THE FACULTY OF SOCIAL SCIENCE

#### Graduates

Antill, Mary Elizabeth, London Banting, Bruce William, St. Catharines Barnes, Cherry Lee, Gravenhurst Bauer, Nancy Lou, Chatham, N.B. Baxter Donna Louise, Lambeth Beattie, Wanda Evelyn Severs, Lambeth Belcher, John William, London Bennett, Frederick Charles, London Bezan, Dorothy Joan, Kapuskasing Blackwell, Margaret Grace, London Bolotenko, George, Oshawa Bouris, George William, London Bowers, Dale Anne, London Bowman, Judith Anne, London Brock, Margaret Edna, London Brown, Helen Violet, Parkhill Calvert, John Robert William, London Cameron, Nancy Ellen, Thamesville Cascaden, Ronald Charles, Oil City Chubb, Sandra Dianne, Toronto Cumberland, Penny Cathryn, London Cummings, Francis Harry, Clinton Dadson, Margery Louise, Don Mills Dapueto, Irene Helen, London Davidson, Ross Thomas, Wiarton Day, Maureen Lynn, Willowdale Deane, Peter Andrew, Weston Douglas, Linda Sue, Don Mills Edwards, Jack Alexander, London Ferris, Jacqueline Lucille, London French, Colleen Dorothy, Ottawa Galloway, Wilda Marie, Wiarton Goff, Sharon Ann Juanita, Capreol Graham, John Freele, Grand Bend Grosman, Pamela Ruth, Toronto Hay, Marsha Leigh, London

Henshall, James Albert, London Hillman, Beverley Diane, London Honcharuk, Kathryn Jean, Brantford Horne, Elizabeth Frances, Rexdale Hutchinson, Gail Elizabeth, Amherstburg Hux, Allan Douglas, Rodney Jaskot, Stanley Peter, Burlington Johnston, Lila Margaret, Bothwell Jouppi, Rodney Henry, Sudbury Kerr, Frances Irene, Islington Kingwell, Gerald Arthur, Winnipeg Kolenc, Lorna Anne Catherine, Brampton Lachine, Patricia Ellen, London Leavy, Marianne, Kirkland Lake Lumley, Mary Elizabeth, Hamilton McAlpine, Deborah Eleanor, London Mackenzie, Hugh Grant, London Mills, William Albert, London Obright, Douglas Charles, Owen Sound Pearce, Susan Elizabeth, Toronto Pratt, Alan Wayne, Toronto Pullen, Roderick John Leslie, London Rabinovitch, Jannit Sue, London Rowbotham, Beverley Anne, London Salmoni, Alan Walter, Kingsville Scholz, John Frederick, Chatham Sleightholm, Ronald Stuart, London Smith, Gregory John Huesson, London Snyder, Ross Brian, London Stafford, Nancy Josephine, Weston Strachan, Claudia Joy, Scarborough Turner, Valerie Rae, London Von Sengbusch, Peter, London Warkman, Ronald Henry, Islington Wood, Susan Margaret, Oakville

#### Undergraduates

Allen, Michael Andrew, Inglewood Allen, William Charles, London Ankenman, Kathleen Ruth, St. Thomas Antenbring, Lois Maureen, Sarnia Armour, Mary Lou, Willowdale Babbage, Leslie John, Sarnia Bakker, Sjoerd, Woodstock Banks, Frances Mary, Peterborough Barham, Alan Charles, London Barnes, Angela Mary, Dundas Barnes, Joy Elizabeth, Welland Beatty, Pamela Jane, Lefroy Bice, Megan Elisabeth, London Bigham, Gerald Louis, Woodstock Blair, Douglas Wayne, London Blair, Janice Margaret, Clarkson Boles, Allan Clifford, St. Catharines Bourdon, Grant Edward, London Bowslaugh, Sally Elizabeth, London Braund, David Bruce, London Broemling, Rosemary Josephine, London Bunt, Wendy Elizabeth, Windsor Chung, Maureen Man-Ling, Fort William Colthart, Margaret Jean, Rochester, U.S.A. Cooper, Nancy Elizabeth, Schomberg Crozier, Douglas Colin, Ancaster Cusack, Susan Elizabeth, London Decker, Barbara Lynne, Clarkson Deszca, Fredrick Eugene, Burlington Doig, Patricia Ann, London Dowden, Elizabeth Ellen, London Dryden, Beverley Lynn, London Dust, Gerald Arthur, London Faris, John MacGregor, Hamilton Fenske, Helen Lenore, Woodstock Fonberg, Eric Michael, Don Mills Fraser, John Arthur, Sarnia Gedye, Carol Anne, St. Catharines Gerbis, Jessie Marlene, London Glassford, Larry Arthur, Thamesville Goldenberg, Mark Christopher, London Golec, Judith Ann, Sault Ste Marie Gompf, Laura Jacqueline, Arthur Graham, Jane Elizabeth, Sarnia Grand, Margaret Dawn, Chatham Green, Lyndsay Ann, London Griesbauer, Peter Rudolf, London Hamilton, Sheri Caroline, Toronto Harley, Nancy Josephine, Islington Hollingsworth, Gayle Louise, London Hilts, Stewart Garvie, Woodstock Howard, David Earle, Fort Erie Howe, Audrey Evelyn, Paisley Jackson, David John, Burlington Kacaba, Michael Fred, London Kelly, Barbara Lynn, Espanola Kemp, Gerald Geary, Toronto King, June Catherine Mary, Woodham Klassen, Mary Susan, London Kogerma, Viktor, Berea, U.S.A. Kunzler, Ann Magdalene, Rodney Lahey, Dale Edward, Merlin Lam, Wai Kwong Rita, Kitchener Landers, Stephen, Stratford Leschied, Donald Wayne, Windsor Little, Kenneth Bradley, Ottawa Luther, Donald Shane, Hensall McCalla, Robert Jay, Brockville

Macdonald, Victoria Lynne, Sudbury Mackenzie, Jane Lesley, London Mark, Yuen-Ning Lillian, Toronto Mather, Neil Wilson, Mount Forest Meehan, Shelagh Maureen, Weston Morrow, Leslie Donald, London Moses, Robert Victor, London Mulholland, Brenda Joy, Paris Nethery, Mary Cameron, Sarnia Nichols, Constance Louise, London Nickason, Patricia Jacqueline, London Oliver, James William, Milton Page, Charles Alexander, Toronto Page, David Eric, Northridge, California Pellow, Christine Marjory Emma, London Peterson, Daniel S.A., Blind River Petrie, Ronald Alan, London Purkiss, John S., Fulking Henfield, England Rajsic, Roy, Strathroy Reed, Gloria Marilyn, Wingham Rice, Janet Elizabeth, Welland Roberts, Steven John, Sudbury Rosenberg, Marc, Don Mills Rosenberg, Tevya Gita, Don Mills Russell, Ian Charles William, Elliot Lake Saunders, John, London Scott, Sheila Marjorie, Willowdale Schiedel, Martha Elaine, London Shaw, Robert Alexander, London Sheppard, Thelma Marie, Simcoe Starzynski, John Gregory, Oshawa Steinberg, Ralph Brian, Dundas Sterk, Briony Forbes, London Stiles, James Alexander D., London Stoddart, Gregory Lloyd, St. Catharines Storey, Robert Henry, Hamilton Thompson, Thomas Melvin, Parkhill Toby, Hans, Whitefish Turner, James Ernest Armstrong, London Ufford, Paul William Mark, Windsor Van Daele, Christa Johanna Leonard, London Van Hooren, Lorraine Dolores, Otterville Velanoff, Karen Lynn, Geraldton Vincze, Linda Jane, Ottawa Walinga, Johanna Cornelia, London Warwick, Victoria Yvonne, London Waterhouse, David Elliott, Niagara Falls Weatherston, Evelyn Janetta, Waterdown West, Linda Elnora, Toronto Whibbs, Mary Nora, London Whitmore, Dianne Elizabeth, London Wiens, Jill Dorothy Lucille, Burlington Wilding, Sherry Andrea, Toronto Williams, Kevin, Brantford Wittenberg, Nicholas Steven, Toronto Woods, Judith Margaret, Brantford Woods, Marilynn Edleen, Brantford Wright, Gail Jocelyn, Port Credit

#### THE FACULTY OF NURSING

#### Graduates

Bowman, Phyllis Margaret, Guelph Donaldson, Linda Marlene, Don Mills Fry, Jean Eleanor, Windsor Mitchell, Constance Irene, London

#### Undergraduates

Boettger, Susan Ellen, Waterloo Crinklaw, Donna Marie, London Dovgalev, Nellie Vera, Whitby Elgie, Margaret Elizabeth, Dresden George, Karen Elizabeth, London Greer, Gertrude Beth, Orillia Hare, Charlene Elisabeth, London McIntosh, Barbara Ann, London Mahood, Joan Elaine, Kincardine Raney, Bonnie Elizabeth, Sudbury Shapton, Carol Lynn, Exeter Simpson, Mary Lynn, Dresden Thurston, Betty-Jean, Hespeler Wilson, Brenda Christine, Ingersoll

#### THE SCHOOL OF BUSINESS ADMINISTRATION

#### Graduates

Boucher, Raymond, Mount-Royal Quebec Cooper, Jack Charles, London Craig, John Alexander, Markham Culverson, Garry Wayne, Scarborough Domelle, Brian George, Don Mills Gettas, George Peter, London Killing, John Peter, London Nash, Gordon Douglas, St. Bruno, Quebec

#### Undergraduates

Babcock, Brian Ross, Beamsville
Ball, Donald Elliott, Islington
Brown, Kenneth Leslie Stewart Toronto
De Wolf, William, London
Lemon, Richard Henry, London
Magrath, Allan James, Whitby

Marshall, Elvey Bernard, Newark, U.S.A. Moskalyk, Barbara Helen, Sudbury Neil, David Edwin, London Pilon, Jean-Pierre, Ste-Adele En Haut Ripley, Douglas Stewart, Don Mills Roggeman, Nicolas Leon, London

# THE FACULTY OF DENTISTRY

#### Graduates

Kenny, David Joseph, London

MacLoghlin, Marilyn Jean, London

#### Undergraduates

Cooper, Gary Clive, Stoney Creek Mochizuki, Keith Gregory, Hamilton Phibbs, Garth David, Leamington

#### THE FACULTY OF ENGINEERING SCIENCE

#### Graduates

Campbell, Dugald Kenneth, Dresden Cohen, Nathan Phillip, London Decyk, Peter, Bradford Hare, Marjorie Eleanor, Manotick Jones, Philip William, Brantford Morphet, Keith Allen, London Tang, Kok Pan, London

#### Undergraduates

Allingham, John Bruce, London Bayko, John Walter, Toronto Bohdanowicz, Alex Peter, London Bol, Matthew Albert, Essex Burling, William Ward, Huron Park Chan, Tit Fu, Hong Kong Chao, Robert Louis, Waterloo Hill, Hong Kong Choong, Tsi-Pin, Singapore Clark, Graham John, Etobicoke Dann, Thomas Fred, Woodstock Haufek, George Francis, Hamilton
Henderson, Robert John, London
Ho, Chung-Kwong Anthony, Hong Kong
Holmes, Craig Douglas, London
Inman, Peter William, London
Killing, Steven, London
Koba, Harry, London
Labelle, Keith Stanley, London
Leung, Stephen King-Yu, Rexdale
Li, Hoi Chi Siegfried, Hong Kong
Ling, Sumner Chi-Ming, Woodstock

Love, Robert Lloyd, Parkhill
McGarry, Thomas George, London
Millar, Gregory Leonard, Lambeth
Mo, Lup-Ho, Hong Kong
Nightingale, Frank Michael, Waterford
Rutledge, James Allen, London
Sandford, Paul Gregory, London
Tam, Chun Pong Peter, Toronto
Wong, Wai Kit, Hong Kong
Yip, Henry Ching-Lin, Hong Kong

#### THE FACULTY OF LAW

#### Graduates

Atkinson, Peter Young, Elora Downs, Maurice Paul, London Paterson, John Craig, Welland

Sabine, John William, London Vivian, Peter Edward, Toronto White, Robert Grant, London

#### Undergraduates

Birnbaum, Arthur, London
Campbell, John Cullen, London
Chapman, Philip Brian, London
Collier, Terence James, Willowdale
Cruickshank, David Alexander, Galt
Dattels, Stephen Roland, Caledon
Eberts, Mary Anne, London
Fink, Harold, London
Hainsworth, Terry Wayne, Kitchener
Hall, Robert Owen, Huntsville
Hayman, Ralph William, Hamilton
Hodgson, James Scott, Waterloo

Lougheed, Alice-Anne Edith, Toronto
McLaren, Richard Henry, Clarkson
McLeod, James Gary, London
McNamara, Daniel Jerome, London
O'Donnell, James Robert, Simcoe
Pringle, Lawrence Dale, Mooretown
Reid, John Guy, London
Ross, Daniel Robert, London
Sloan, Jacob Bernard David, London
Wheable, Alan Ernest, Rosemere, Quebec
Wilson, Joseph Bruce, Barrie
Woodruff, Kent Gary, London

#### THE FACULTY OF MEDICINE

#### Graduates

Clark, William Foster, London Gannon, Michael John, Windsor Ghent, Cameron Neil, London Kushner, Arthur Michael, Toronto McCuaig, Dorothy Jeanne, London Musgrove, George Roy, Toronto Nichol, Peter Michael, London Pearl, Stephen Richard, Toronto Porter, George Robert Stanford, Windsor Ralph, Edward Danby, London Wall, William John Patrick, London

#### **Undergraduates**

Bains, Margaret Amare, Port Alberni, B.C. Bruce, Carol Elizabeth, London Del Maestro, Rolando Fausto, Petrolia Fisher, David Timothy, London Harper, Kathleen Mary, London Hartwick, Karl Robert, Fisherville Kassel, Edward Earl, London Kelton, John Greenhow, Windsor Lauge, Sarma, Islington Lee, Eng Hin, Penang, Malaysia Marchuk, Jon Blair, London Mitchell, Bryan Fraser, London

Mitchell, Margaret Susan, London
Moore, James William, Windsor
Paul, Margaret Ellen, Fergus
Peck, Brenda Sue, River Canard
Pullen, Brock Leslie, Toronto
Rathbun, Flora Jamieson, London
Schmidt, Karen Jane, Waterloo
Slipacoff, Daniel, Sarnia
Taylor, John Charles, Sarnia
Van Rosendaal, Guido Maria Alphonse, London
Warren, Kenneth George, London
Webster, Randall James, Burlington

APPENDIX G
HONORS

#### **HONORS**

#### 1969

#### July

Dr. R.G.E. Murray appointed Editor of "Bacteriological Review". (American Society of Bacteriologists).

Professor James M. Havens, Department of Geography, receives a Doctor of Philosophy degree from the University of London.

Professor B.B. Kymlicka, Department of Political Science, named Secretary and Research Officer of the Provincial Commission on Post Secondary Education.

#### September

Dean R.M. Dillon, Faculty of Engineering Science, named United Appeal Chairman.

#### October

Dr. Aleksis Dreimanis, Department of Geology, receives Honorary Doctor of Science Degree from the University of Waterloo.

Professor L.F.S. Ritcey, Department of Mathematics, receives Honorary Doctor of Laws degree from the University of Winnipeg.

#### November

Dr. A.G. Davenport, Faculty of Engineering Science, appointed Chairman of the American Society of Civil Engineers Task Committee on Wind Forces.

Mrs. Doreen Sanders elected to the Executive of the Board of Directors of Business Press Editors' Association of Canada.

Mr. Colin Brezicki, a student in the Department of English, named Rhodes Scholar for 1969-70.

Dr. S.H. Irvine elected a Fellow of the Engineering Society of Great Britain.

Mr. A.E.D. MacKenzie, Assistant Dean of Men, elected to the London Board of Education.

Professor B. Hicks, School of Business Administration, elected to the London Board of Education.

Mr. P. Somerville of Instructional Media elected to the London Board of Education.

Mr. O. Zamprogna, an engineer in the Department of Buildings and Grounds, elected Alderman.

Vice-President R.J. Rossiter appointed a member of the Government's Committee on University Affairs.

#### 1970

#### **January**

Dr. C.F. Cappa appointed Editor of "Journal of Ontario Dental Association".

Mr. Christopher John Carr and Mr. Nathan Phillip Cohen, two Western Engineering Science students, named Athlone Fellows.

# **February**

Woodrow Wilson Foundation names two Designates: Mr. Michael A. Parmentier, Department of French; Mr. Ross B. Snyder, Department of History, and three Honorable Mentions: Mr. Daryl B. Babcock, Department of English; Mr. Hugh G. Mackenzie, Department of Economics; Mr. Brian S. McCall, Department of History.

Dr. W.H. Wehlau, Head of Department of Astronomy, appointed Chairman of the National Research Council Grants Selection Committee for Space and Astronomy.

Professor L.S. Lauchland, Faculty of Engineering Science, elected President, Ontario Association of Engineers.

Miss Margaret Mattson, M.A. graduate student in History, named one of five Ontario winners of Queen Elizabeth II Scholarships.

Professor Paul B. Park, Althouse College of Education, awarded \$237,000 by The Ford Foundation, bringing international recognition to his unique research methods in his "Early School Environment Study".

Dr. D. Bocking, Dean of Faculty of Medicine, appointed Chairman of The Board of Fanshawe College.

Dr. J.A.F. Stevenson elected to second term as President of the London Public Library Board.

#### May

Dr. John G. Rowe receives Honorary Doctor of Divinity degree from Huron College.

D. Carlton Williams receives Honorary Doctor of Laws degree from the University of Manitoba.

Dr. E.G. Pleva, Department of Geography, receives London Chamber of Commerce annual award for distinguished community service.

Dr. Murray L. Barr, Department of Anatomy, appointed an Honorary Member of the Ontario Medical Association.

Mr. Tom Hoskin, Dean of Men, appointed President of the Ontario Division, Canadian Mental Health Association.

#### June

Dr. Arthur Porter elected Fellow of the Royal Society of Canada.

Dr. J.J. Talman awarded the Order of the British Empire.

Miss Thelma Potter, Faculty of Nursing, elected Chairman of the London Council for Adult Education.

APPENDIX H
REGISTRATION

# **REGISTRATION – 1969-70**

	Full-Time		Part-Time		Т	Total	
	Men	Women	Men	Women	Men	Women	Total
Faculty of Arts:							
General	266	726	2	29	268	755	1,023
Honors	107	209	1	4	108	213	321
Total							1,344
Faculty of Social Science:							
General	1,784	1,028	26	24	1,810	1,052	2,862
Honors	428	220	-	_	428	220	648
Total							3,510
Faculty of Science:							
General	970	333	23	16	993	349	1,342
Honors	439	137	2	1	441	138	579
Total							1,921
Faculty of Music:							
General	5	13	_	1	5	14	19
Honors	114	112	1	4	115	116	231
Total							250
Other Faculties:							
School of Business Administration	165	5	_	_	165	5	170
Faculty of Dentistry Faculty of Engineering Science	84 439	4	_ 5	_	84 444	4	88 447
Faculty of Law	297	15	_	=	297	15	312
Faculty of Medicine	273	82	_	_	273	82	355
Faculty of Nursing	1	177	_	4	1	181	182
Total							1,554
Affiliated Colleges:							
Huron College	300	210	3	2	303	212	515
Brescia College	3	304	_	9	3	313	316
King's College	345	103	11	20	356	123	479
Total							1,310
Unclassified	20	8	36	41	56	49	105
Total Intramural Undergraduate	6,040	3,689	110	155	6,150	3,844	9,994
Faculty of Graduate Studies:	· Carrie						
Humanities	117	55	12	18	129	73	202
Social Sciences	256	53	8	8	264	61	325
Natural Sciences	276	39	13	3	289	42	331
Business Administration	378	1	-	_	378	1	379
Engineering Science	75 83	3 99	14	_ 24	89	3	92
Library & Information Science  Medicine	92	38	6 1	_	89 93	123 38	212 131
Nursing	_	14	_ '	5	_	19	19
Music	3			1	3	1	4
Total Intramural Graduates	1,280	302	54	59	1,334	361	1,695
Althouse College:							
Regular Session	303	349	3	3	306	352	658
Total Intramural	7,623	4,340	167	217	7,790	4,557	12,347
Extramural & Summer Session:							
Correspondence			65	88	65	88	153
Extension			1,123	1,206	1,123	1,206	2,329
Summer Session			1,595	1,224	1,595	1,224	2,819
Althouse (Summer)			1,052	492	1,052	492	1,544

# **APPENDIX I**

# FULL-TIME ENROLMENT IN UNIVERSITIES AND COLLEGES OF CANADA

FULL-TIME UNIVERSITY-GRADE ENROLMENT AT CANADIAN UNIVERSITIES

AND COLLEGES, 1968-69 AND 1969-70

\* as shown in D.B.S. Report

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