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UNIVERSITY LIBRARY SYSTEM

Report of the University Chief Librarian

PROFESSOR R. E. LEE

1972-73 was a year of significant achievement for the University Library System:

Marked progress was made in the development of relevant and quality collections to support the teaching and research programs of the University;

Economical and expeditious processing of materials;

Improved means for introducing users to collections and providing qualified staff to assist users in making optimum use of the collections; and

Administrative services and programs designed to improve the effectiveness of the Library System.

These achievements came about as the result of the planning done the previous year and the excellent teamwork, determination, attitude, and hard work of the total library staff.

The purpose of this report is to describe the most important achievements and to present the most significant statistical data of the past year concerning the eight Libraries which comprise the University Library System.

COLLECTIONS DEVELOPMENT

The Collections Development staff contributed substantially to one of our primary goals: to develop a systematic program of collection building. Some of the major accomplishments during the past year were:

Subject Coverage. With the assignment of Collections Librarians to cover Geography, Psychology, Sociology, and Russian Studies, collections development coverage was achieved for all academic units of the constituent University.

Major Acquisitions and Gifts. In April 1973, the Library System purchased the complete backfile of The Montreal Star 1864-1967 on microfilm.

The late Professor F. H. Hitchins, who was a member of the UWO Department of History from 1960 to 1970, donated his collection on Aviation and Air Power to The University of Western Ontario. The collection consists of approximately 1,500 books, pamphlets, and other materials which are considered to be "the finest private collection on Air Power in Canada and probably one of the best in North America."

During the spring of 1973, the UWO Foundation, Inc. of New York donated the sum of \$5,000 to the University for the purchase of additional nineteenth century American periodicals on microform.

A fine collection of Walsh Family and associated papers was donated to the Libraries by Norfolk County officials in Simcoe. Much of this material is for the period 1794-1840 and has been organized for use.

Mrs. Ellen Herkes of Dorchester presented nine volumes of Irish eighteenth century historical works preserved by her family, and 18 other volumes, in addition to a small but impressive collection of family papers dating back to 1720.

A rare Canadian literature item, located in a Hamilton bookshop, was purchased by the Library. This is the sixth known copy of Morley Callaghan's No Man's Meat (Paris, 1931). The first biography of Callaghan was written by Professor A. B. Conron of the UWO Department of English.

Special Collections Division, University of British Columbia Library, donated a copy of Moses Browne's Angling Sports (London, 1773), a useful complement to our collection of fishing books given to us several years ago by Gregory Clarke.

Professor Edward G. Pleva presented his non-current papers for the years 1945 to 1972. This is the first acquisition of personal and professional archives that we have received from an active member of the University teaching faculty. Miss Olla Reith of St. Thomas gave us her papers as a member of the Hall-Dennis Committee on Education in Ontario, a valuable resource in its field. Professor Alan K. McDougall presented a collection of law enforcement diaries of local interest.

On-Approval Plans for German, Russian and French Language Imprints. An on-approval plan beginning with 1973 imprints was established with the firm of Otto Harrassowitz for the input of current foreign language titles required by the Library System from the German cultural area (West Germany, East Germany, Austria, and German-speaking Switzerland). Similarly, semi-automatic arrangements were completed for the procurement of required materials from the Soviet Union and Slavic Eastern Europe published in the Russian language (Kubon and Sanger), and from France and Switzerland published in the French language (Blancheteau).

Retrospective English Language Imprints. Special arrangements were made with Richard Abel and Company for the systematic selection and ordering of approximately 4,400 English language imprints, published in 1970 and 1971, required by the Library System.

Appraisal of Collections. Collections staff met with and assisted academic appraisers in the following subject areas: History, Political Science, Fine Arts, Philosophy, German, Sociology.

A detailed questionnaire on the Library System's Canadiana holdings was completed for the Commission on Canadian Studies established by the Association of Universities and Colleges of Canada (AUCC). A special report on the Library's Regional History Collection was also prepared and forwarded to the Commission.

Numerous appraisals of the Library's holdings were undertaken and completed during the year by the Collections staff who utilized a variety of appropriate subject bibliographies.

Bibliographies. During 1972-1973, two special bibliographic projects were completed:

Bibliography of German Language Periodicals and Non-Magazine Serials (Humanities and Social Sciences) held in the UWO Library System, October 1972.

Compilation of Bibliography of Bibliographies: A Guide to Slavic Bibliography and Reference Materials in The D. B. Weldon Library of The University of Western Ontario, June 1973.

Growth of Collections. The collection as of June 30, 1973 totalled 2,233,849 items organized and available for use. This total is composed of 1,034,425 volumes of monographs and bound periodicals, 8,673 current periodical titles, 217,325 documents, 2,812 theses titles and a further 970,614 items including microforms, tapes, recordings, and other special material.

Selective Acquisitions. Due to the budget cutbacks necessitated by the "freeze, cut and squeeze" on University operating revenues for 1972-73, combined with the rising costs for books and periodicals, several steps were taken to adjust to the financial situation. For example, a list of duplicate periodical subscriptions was prepared and carefully reviewed. Subsequently, several hundred duplicate subscriptions were cancelled.

While we realize that almost any book or other publication may be of potential value and should be preserved somewhere, we believe that the UWO Library System must be even more selective in acquiring materials in the future than it has been in the past, and must try to avoid, except in special circumstances, acquiring little-used material that is readily available elsewhere. It is better to acquire one important book than two mediocre ones, even if the important one costs as much as the other two together. Quality and research value are the criteria.

In the continuing program of systematic collection building, Collections Librarians, who combine an academic background with library experience, work in close conjunction with the faculty in order to develop a quality collection of teaching and research materials for the University.

During the coming year, it is hoped that cooperation with other academic libraries in Ontario will increase, with emphasis on the rational delimitation of collection policies and the creation of more efficient approaches for preventing unnecessary duplication of less-frequently used library materials.

PROCESSING

The Processing staff had a very busy and productive year. The diligence of the staff is evidenced by the work-load statistics presented in the statistics section of this report. In addition to the processing of materials, the staff devoted a great deal of time to monitoring existing systems, refining existing and/or developing new systems, writing unit procedural manuals, cleaning up snags and phasing out old systems, conducting standards studies, introducing national and/or international bibliographic and cataloguing standards, and developing the Processing Division aspect of the Library System's Information Network.

The major accomplishments of the Processing staff were:

Batching System. This system was set up in all Units to control processing throughout and to develop an even and smoother interface and flow of work in all Units, and to ensure prompt processing of current materials.

New Order Record. The old "on order" file was eliminated, and the "on order" information removed from the public catalogue. The Computer Output Microfilm (COM) listing of orders were produced with printout capabilities. The order record was cleaned up through cancellations and checking to provide an accurate, relevant, current report.

Centralization of Library Processing Operations. The Periodicals Unit was transferred in January 1973 from Public Services to Processing. Periodicals user service, still the responsibility of the Head of Periodicals, remains as a Public Services function. A new Periodicals master file using the Kard-veyer system was set up and was made fully operational. The Health Sciences periodicals records are in process of being incorporated into the Periodicals master file. A new public holdings record for periodicals is being established (Periodical Tree) and records are being transferred. A desiderata file for missing or lacking issues of periodicals was established and a regular, active system developed for acquiring such issues.

Materials to be bound are now prepared for binding in one area throughout the Library System.

The Health Sciences, Law and Music Library processing operations were interfaced with the Main Library operation.

Government Publications coding and processing of materials were transferred to the Processing Division in mid-May.

Production of order forms were consolidated in one Unit: the MT/ST section of Order/Receiving.

Communications. Emphasis was given to improving communications within the Processing Division and between Processing and the other Divisions. This was accomplished through the following activities: a paper, Processing Division Information System/Network, was issued; an Advisory Group, composed of representatives from Public Services and Divisional/Professional Libraries, was formed to discuss proposals and problems related to processing operations; Inter-Divisional Ad Hoc meetings to discuss procedures and methods relating to processing; and a Glossary of Library Terminology and Abbreviations used in Processing was compiled for the use of the Library staff.

Transfer Projects. Materials were transferred into and out of the Spencer Room collection to keep it manageable and relevant. Indexes and Abstracts were transferred to the Periodicals Reference collection. Duplicate copies of modern language books were transferred. The circulating theses collection was transferred to the respective Libraries.

Special Projects. Catalogue cards were prepared for the Milton/Miltoniana collection. Spine labels were added to the national and "in-print" bibliographies in the Reference collection. Two manual checks of the on-order file was undertaken to determine the accuracy of the book commitment figure as reported in the computer listings.

Catalogue Assistance Service. This service was organized by the Cataloguing Unit, in cooperation with the Reference Department, whereby cataloguers are on duty 40 hours a week to provide users with information and assistance in the use of the public catalogue.

Unit Manuals. The development and revision of unit manuals is a continuing activity. All members of each Unit participated in planning and preparing a manual of procedures.

Monitoring Procedures. All Units have established systems for monitoring their work.

Processing Output. Effectiveness of the Processing staff is evidenced by the processing of 77,191 titles totalling 146,640 volumes (pieces) for the year 1 July 1972 - 30 June 1973.

SERVICE TO USERS

In April 1973, a Library Use Questionnaire was distributed at random to 3,000 users of the eight Libraries. The results of the questionnaire revealed use patterns and provided a strong indication that the Libraries were meeting the needs of their users to a degree never before achieved, or publicly acknowledged.

Generally my success in finding the information and library materials I need is:

Excellent (find everything)	11.9%
Good (find most things)	56.3%
Fair (find some things)	22.6%
Poor (find few things)	5.5%
Very poor (find nothing)	.9%
Not applicable	2.8%

Generally the service I receive from the Library staff is:

Excellent	39.2%
Good	46.5%
Fair	7.4%
Poor	1.3%
Not applicable	5.6%

The encouragement that these findings have given the staff promises that even better service will be provided, since there is an opportunity to build on the solid foundation of accomplishment of the last twelve months.

Use of the Libraries. The circulation of materials in the eight Libraries for 1972-73 was 614,014. This figure represents a 12% increase in circulation over the number of transactions recorded in 1972-73 (545,832).

The total number of interlibrary loan transactions was 11,533. 6,916 was outgoing and 4,617 was incoming.

The head count for The D. B. Weldon Library for the twelve month period was 1,085,262. The heaviest week was 9 - 15 April 1973 when the head count was 50,104.

The turnstile count in the Natural Sciences Library for the period 11 January to 30 June showed 160,624 users.

As part of a general survey of use for a one month period (between 19 November and 16 December 1972), it was found that 235,295 visits were made to the eight Libraries.

A conservative estimate of the number of visits to the Libraries during 1972-73 would be 2,500,000.

Some of the major achievements of the Public Services staff during the past year were:

Library Orientation. Closer rapport with students and faculty was established by informal and formal tours of the Libraries; by classroom visits to explain library services and to answer questions; by relating the Libraries' collections directly to user requirements by subject-oriented tours.

Uniform Circulation Routines and Procedures. Continuing study of circulation routines and procedures brought about a consistency of approach in the eight Libraries which reduced tension and frustration among users.

Automated Circulation Control. The success of the automated circulation control installations in the Spencer Room of The D. B. Weldon Library and in the Natural Sciences Library in speeding up the checking out of materials, and in providing basic data for the evaluation of the use of the collections, has brought much favourable comment.

Improved Reference and Circulation Services. The staffing of circulation desks and reference desks throughout the Library System with permanent full-time staff in the evenings and on weekends provided a higher level of service and a much better use of the collections by many users.

Equalization of Service and Staffing. The rationalization of staffing the public services in the eight Libraries has resulted in more meaningful staff functions which involve more of the staff in direct public contact with users.

Specialized Assistance. The setting up, and expansion, of specialized assistance services for collections such as Government Publications and Periodicals in The D. B. Weldon Library, the Business Information Centre, the Audio-Visual Centre of the College of Education Library, opened up new avenues for research among several user groups.

These accomplishments reflect some of the ways in which Public Services has channeled its efforts towards introducing users to the collections and providing qualified staff to assist users in making the optimum use of the collections. In each of these areas there is room for improvement, and planning the development of services is continuous.

Planning for the Improvement of Services. The Public Services Operations Group (the ten librarians responsible and accountable for the provision of service to the public) took several major steps in their collective effort to improve the level of service given in the eight Libraries by -

Updating, revising, and collating eight lending codes into a
Lending Code for the University Library System.

Preparing working papers and a first draft of Standards for Public Services for this System.

Developing definitions of the functions carried out in Public Services; applying these definitions to a series of tables for the collecting of use and service statistics; preparing the approach for a study of these statistics in 1973-74 to establish the variations in the cost of operating the eight Libraries.

Holding meetings of function-oriented groups - Reference Librarians, Interlibrary Loan Assistants, Unit and Department Supervisors - to identify common problems, supply solutions, and achieve consistency in routines and procedures throughout the System.

Preparing policy statements on such topics as "Privacy of Library Records", "The Handling of Complaints", and "Privileges for Guest Borrowers" for the approval of the Office of the Chief Librarian.

Communicating, as a group and individually, with the Processing Division their needs and requirements in order to maintain the even flow of materials into the various collections.

Service to the user is our major goal. The informal contacts with users, in the hundreds per week range, and the satisfaction users of the Libraries receive, is still the principal measure of the quality of service.

ADMINISTRATIVE SERVICES

Five major projects were undertaken during 1972-73 in order to increase the efficiency and effectiveness of the Library System.

Goals for 1973-74. In a continuing effort to specify what is to be achieved within the Library System, a statement of Goals for 1973-74 was developed by the various standing policy and advisory groups within the Library System. The purpose of the statement was to indicate the future direction of the Library System and the role of each Division, Department and Unit in the accomplishment of the goals.

Work Planning and Review Program. The purposes of this program were: to review individual staff accomplishments during the past year and to provide a basis for performance appraisal; to clarify and update job functions and responsibilities; and to set individual goals for 1973-74.

Review of the Classification Program for Professional Librarians. The review of the program was completed and individuals whose positions were reclassified and upgraded were notified.

Management Information System. Representatives from the UWO Libraries and the Department of Information Analysis and Systems (DIAS) met on 28 March 1973 to consider and approve a proposal for a Budget Modelling System. This Budget Model, when completed, will provide detailed management information - statistics on units of work, items processed, unit costs - and will thereby be a key tool in effective planning.

Following the preliminary work, the Systems Librarian has worked closely with the Library Accountant and Mr. Vanexan from the Department of Information Analysis and Systems, in the detailed elaboration of system requirements, and in the initial collection of data. It is expected that the first results of the system will be available for review in early autumn 1973.

An Overview of the Role and Function of the Library System. This publication was prepared for the purpose of providing staff and university personnel with an understanding of the role and function of the Library System, and will serve as a basis for a staff orientation program.

Systems Unit. The role of the Library Systems Unit is to provide assistance to all Library Units in matters of work procedures. The Unit researches problem areas, proposes solutions, and helps to implement new work procedures. It also oversees, on a continuing basis, those systems which are computer-based.

In May 1973, the Unit was reorganized so that it could more efficiently carry out its role. The Key punch Section (3 positions) was disbanded. Key punching is now done by the DIAS Key punch Unit, a centralized unit for the entire University. A "Systems Assistant" position was created, and a "Project Supervisor" was put in charge of the daily supervision of each computer-based system - i.e. the Ordering System; the Circulation Control System; the Government Publications System; and the Periodicals Listing System.

In addition to these changes in organization, much progress was made during the year in developing an efficient working liaison with the University's Department of Information Analysis Systems, the department which handles all of the machine requirements for our computer-based systems. At the beginning of the year, separate and intermittent meetings were being held with DIAS representatives to resolve problems in each of the project areas. These scattered meetings were gradually coalesced into a regular pattern, and on 14 June 1973 the first meeting of the DIAS Projects Group was held. This committee meets weekly and includes representatives from DIAS, all of the Library Units with the computer-based systems, and the Library System's Unit. It resolves problems, sets priorities, and ensures communications among the Systems, as well as between the Library and DIAS.

A major and successful effort was made to implement a full range of computer-based services in the new Ordering System. The System was introduced in February 1972, after over a year of design effort. In July 1972, only the bare structure of the computer system was functional - i.e. maintenance of the file, and a number of subsidiary listings. Since then a number of components have been developed.

The first commitment accounting listings became available in October 1972; after much checking (including two manual audits of the file) and many alterations to the programs, the first truly reliable listings were produced in April 1973. The first notices for claiming and cancellation of outstanding orders were produced in January 1973. By the end of June 1973, all orders which had been outstanding for more than a year had been claimed or cancelled. The first Computer Output Microfilm (COM) lists of the order file were produced in January 1973. These listings which are now produced monthly, provide access to the full, updated file of order records at five different points throughout The D. B. Weldon Library. The first detailed statistical analyses of a full year's ordering activity were printed out.

In June 1971, the Libraries at the Universities of Guelph and Western Ontario began joint development of a Union Catalogue for Government Publications holdings, utilizing a computer-based system developed at Guelph.

Until January 1973, the machine-readable holdings file was maintained and updated at Guelph, and all listings were produced there. In January, the Western file of holdings and the programs for the manipulation of that file, were delivered to the UWO Libraries and listings are now being produced here.

It should be noted in passing that the original Guelph-Western agreement has been expanded to include the Libraries at four other Ontario Universities, and a Union Catalogue of Government Publications holdings for the six Libraries has been produced.

Since 1968, the UWO Libraries have made use of a computer-maintained listing of Periodicals Currently Received. In 1971, the system was redesigned to increase its effectiveness.

Since July 1972, a substantial amount of information has been added to the listings including much retrospective information on titles no longer currently received. Although the file is by no means complete, the listings of Periodical holdings, which was produced and distributed in June 1973, was a substantial improvement over any previously available listing.

In February 1973, our file of Periodical holdings was merged (at York University) with the machine-readable records of five other Ontario University Libraries, in a cooperative project to determine the feasibility and practicality of a computer-produced union lists of Periodical holdings.

An automated Circulation Control System has been in operation in the Natural Sciences Library since 1969, and in the Spencer Room (Heavy Demand Collection) of The D. B. Weldon Library since its opening in the summer of 1972. In June 1973, the automated system was introduced at the main Circulation desk (general collection) of The D. B. Weldon Library.

Also in June 1973, and for the first time, extensive statistical analyses of circulation transactions became available.

Cooperative Projects with other Libraries. During the past year, the Library Systems Unit has been involved in the following cooperative projects with other Libraries:

With the University of Guelph --

joint experimentation into the use of MARC II (machine-readable cataloguing) tapes.

With the participating Libraries in the Ontario University Libraries Cooperative System --

development of a monograph demonstration project - i.e., a union file of holdings, and a cooperative approach to cataloguing,

development of a union file of government publications holdings, and a cooperative system for maintaining and listing the file,

development of a similar union file and system for periodicals, maps, and subject headings used in cataloguing.

Library Personnel Office. This office provides staff services to support the effective operation of the Library System. The major accomplishments of the past year were: assisting in the development of library personnel policies in accord with University regulations; keeping the support staff job evaluation program up-to-date and recommending the reclassification of positions as required; recruiting and screening of applicants and referral of quality candidates for support staff positions; providing information to the library staff on the services of the Library and University Personnel Offices; and participating in the planning for a staff orientation program.

LIBRARY FACILITIES

The addition to the Natural Sciences Library was completed in January. This addition doubled the seating capacity and increased the collections capacity by fifty percent.

FUTURE DIRECTIONS

The major goals for 1973-74 are:

1. To develop the means to ensure a fair and reasonable basis for rationalizing the provision of library materials and services to the various Faculties and Schools within the University

Rationalize the development of library collections
 Equalize service to users
 Develop a management information system

2. To improve service to users by

Strengthening collections
 Providing access to available materials as soon as possible
 Improving access to collections
 Increasing the effectiveness of signage programs
 Determining ways in which the Libraries can be more responsive to the University community
 Preparing for the occupancy of the Special Collections Room
 Developing a plan for total automated circulation control

3. To increase the efficiency of library operations and to make more effective and economical use of resources

Centralize processing activities
 Achieve consistency in the application of policies, procedures and routines
 Weed and transfer collections
 Increase operational efficiency

4. To improve staff development and communications

Review job functions and responsibilities and set goals
 Improve communications

5. To provide staff training

A PARTING WORD

All members of the library staff can be justly proud of their individual contribution to the accomplishments of the past year. Despite two budget cuts and staff reductions during 1972-73, much was achieved. The library staff is our most important resource in the provision of service to the University community.

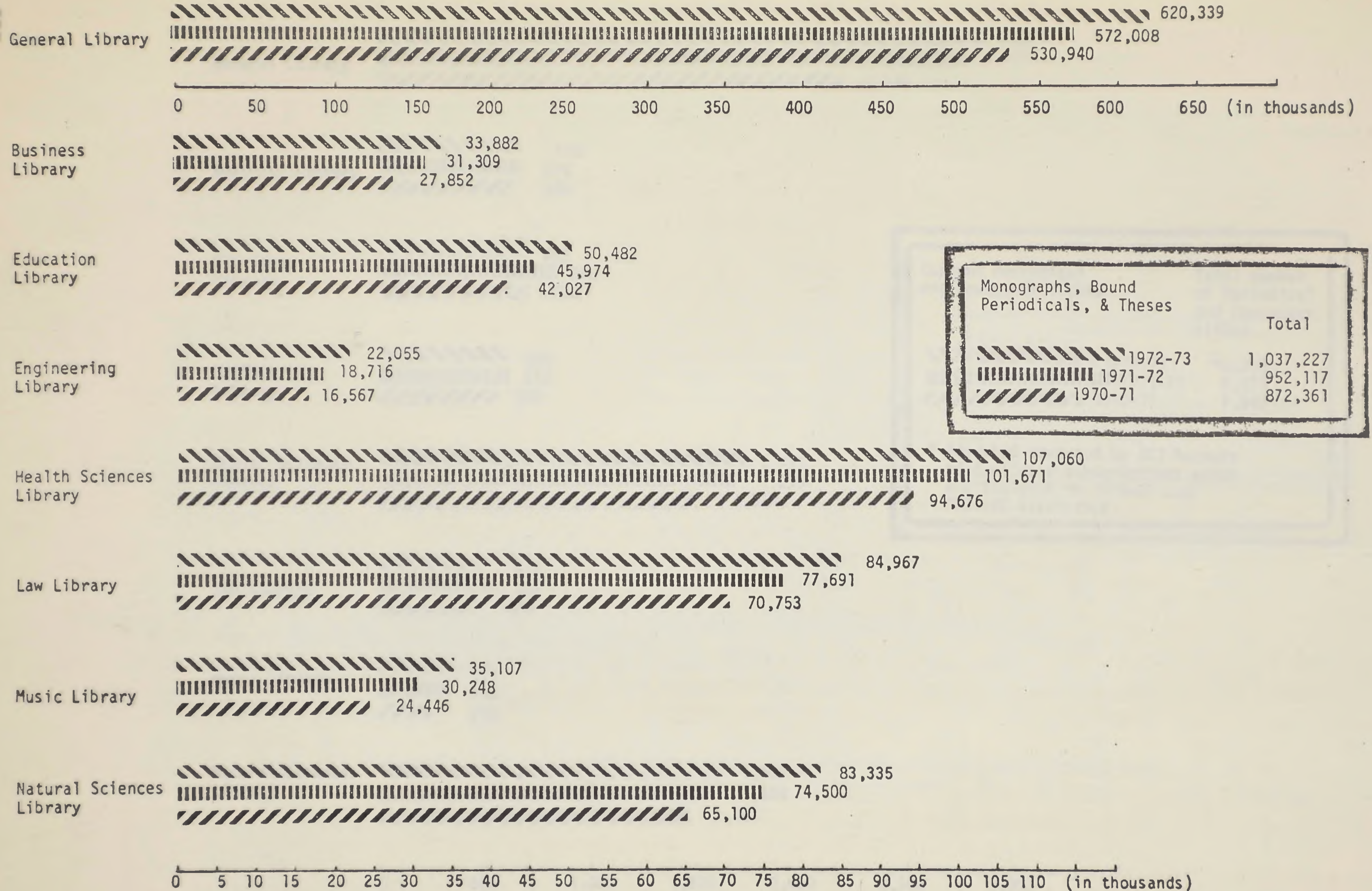
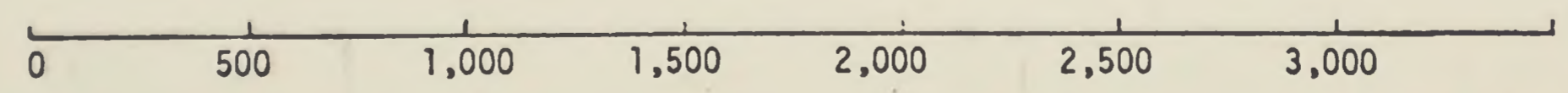
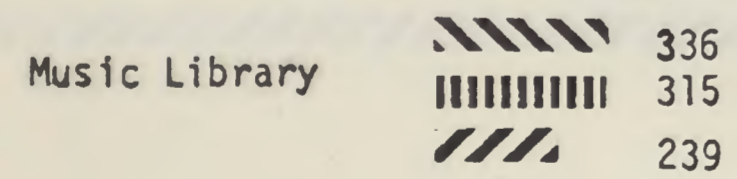


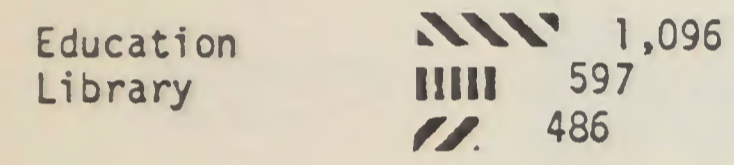
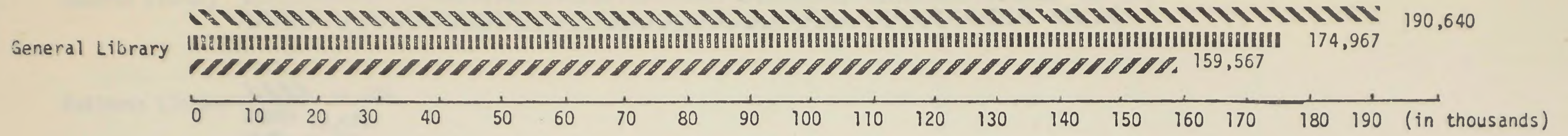
Figure 1. Monographs, Bound Periodicals and Theses



Current Periodical and Newspaper titles	Total number of Periodical and Newspaper titles
1972-73	*8,762
1971-72	9,033
1970-71	7,840

* Adjusted downward by 303 because of duplicate subscriptions which are included in 1970-71 and 1971-72 statistics.

Figure 2. Periodicals



Government Publications	Total
1972-73	217,291
1971-72	194,546
1970-71	175,804

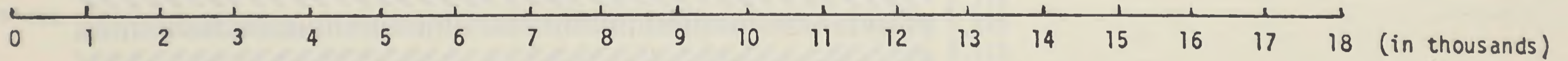


Figure 3. Government Publications

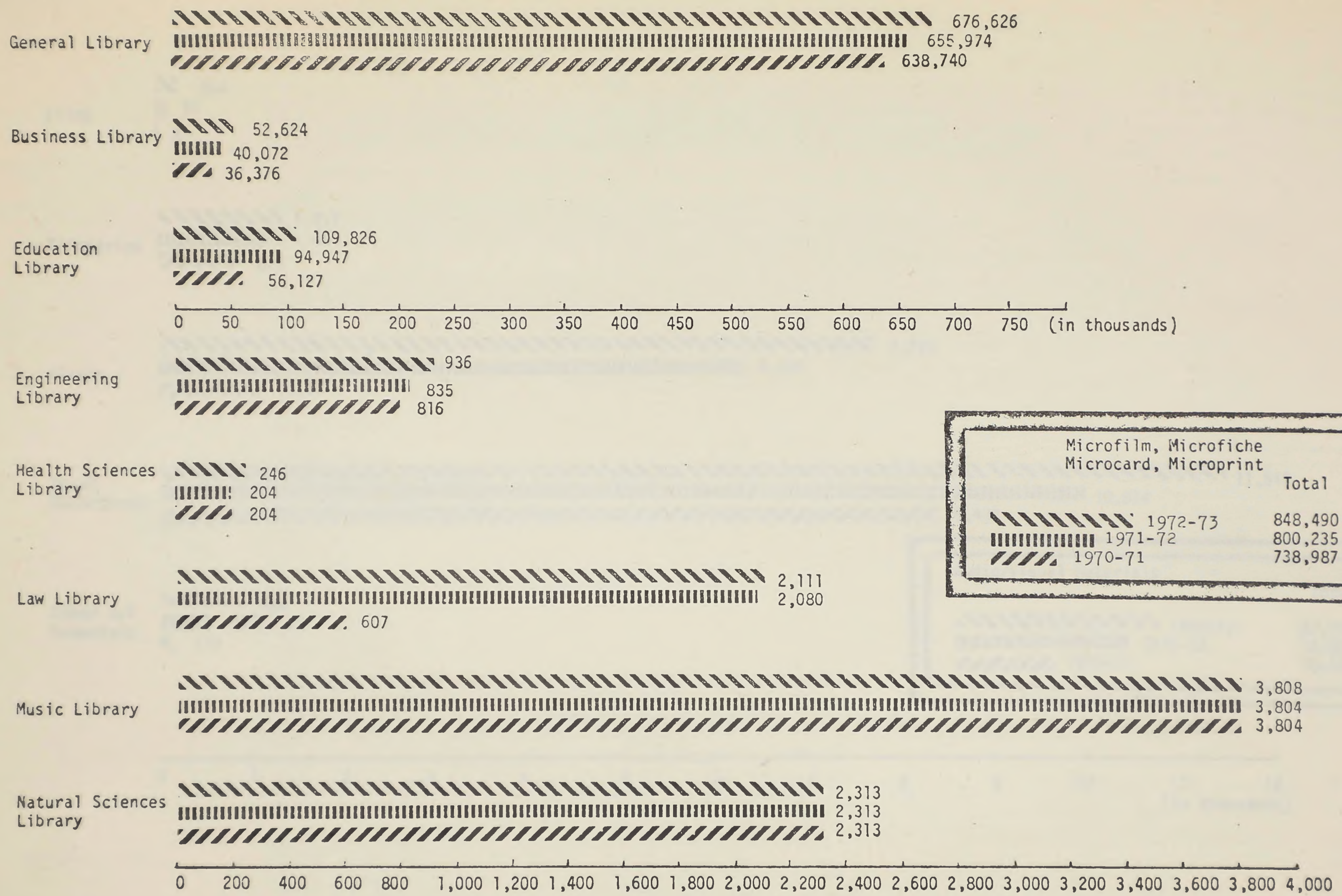
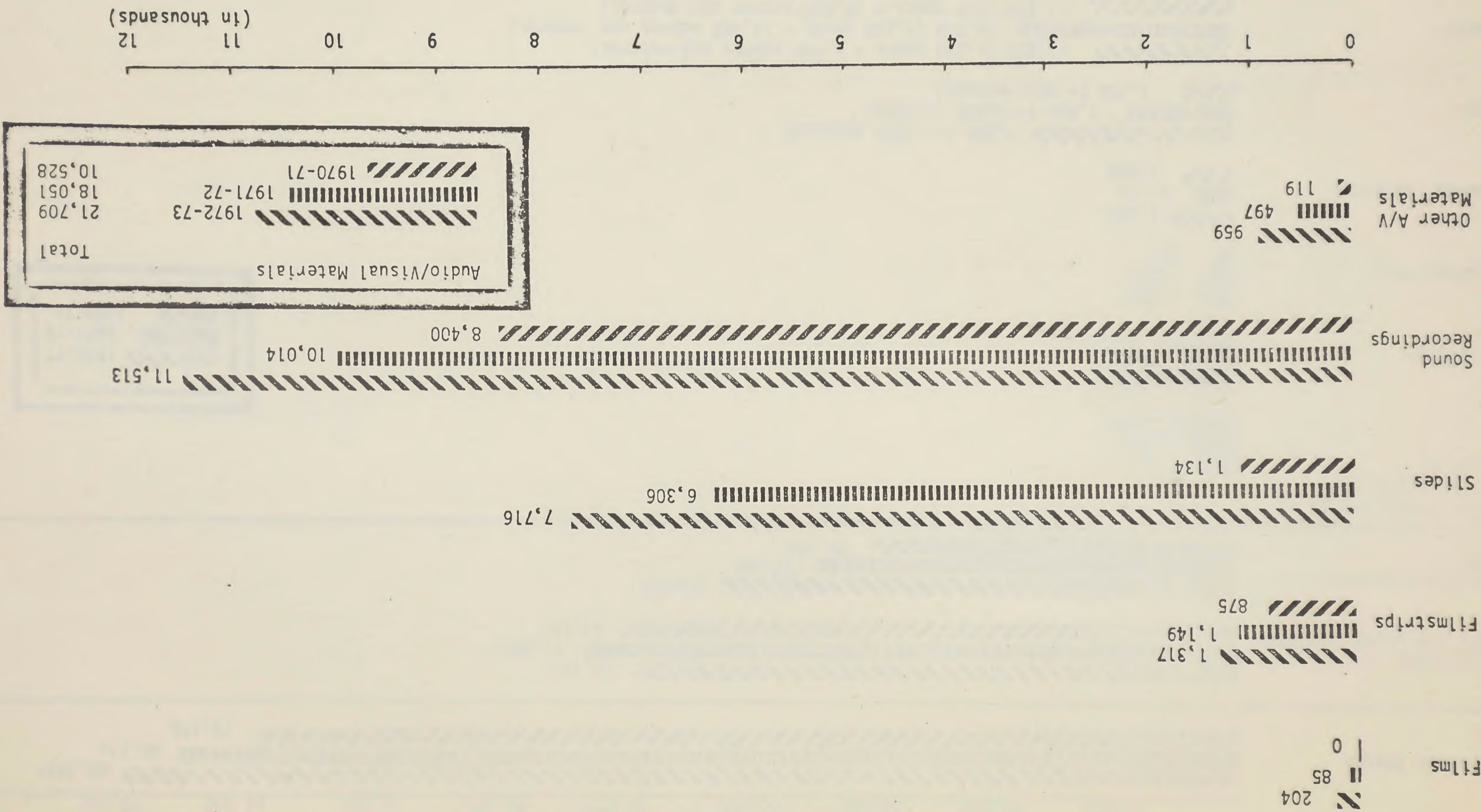


Figure 4. Microforms

Figure 5. Audio-Visual Materials



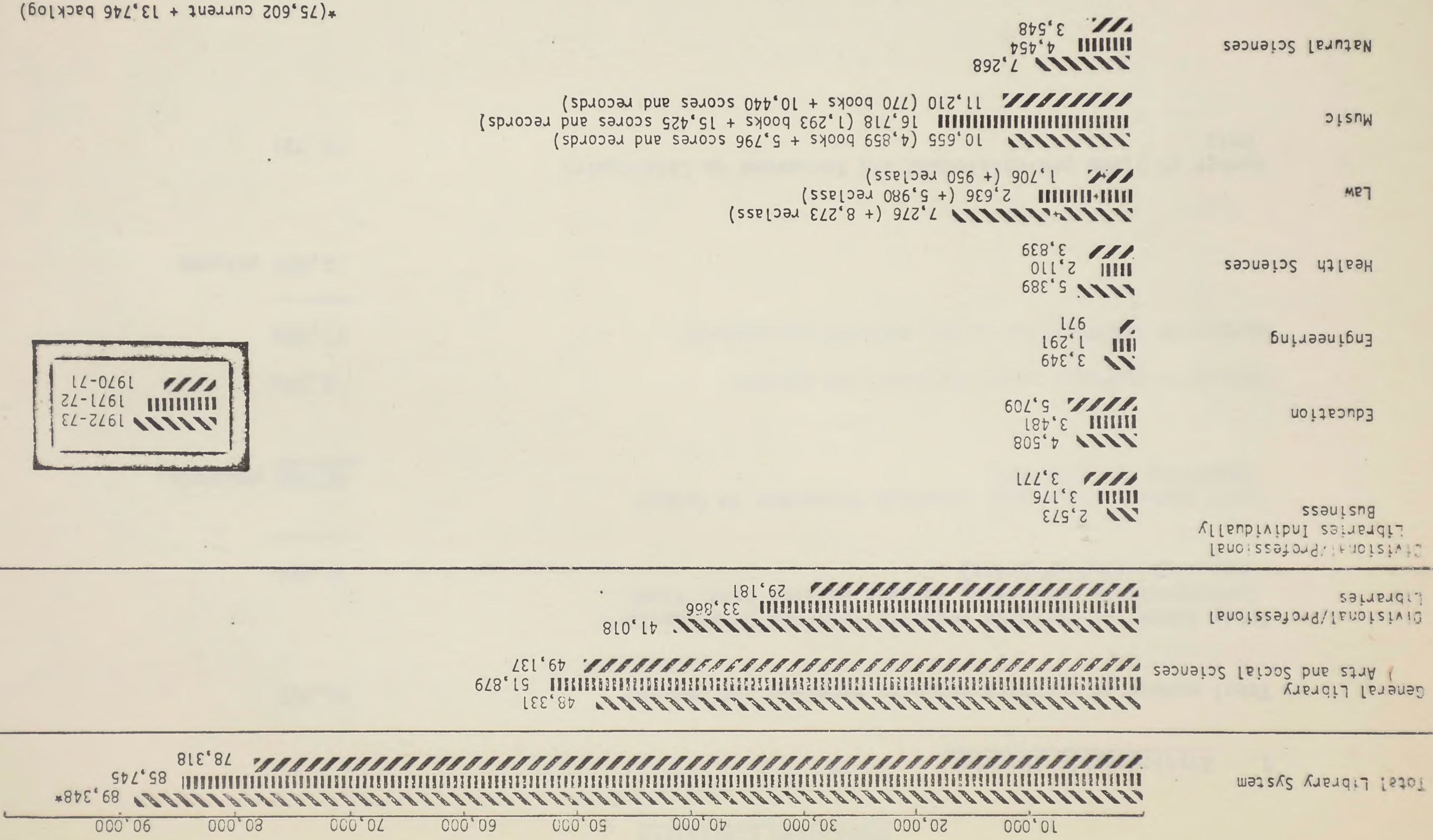
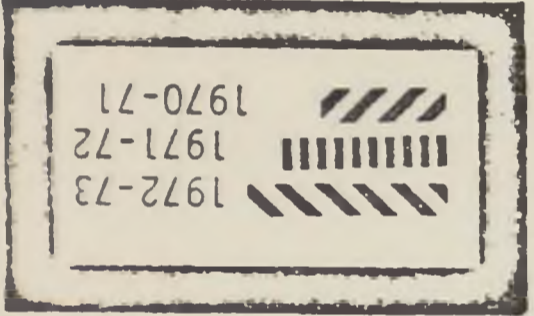


Figure 6. Number of items added to the Catalogued Collections (excluding micro materials and government publications)

*(75,602 current + 13,746 backlog)



PROCESSING STATISTICS1. Bibliographic Checking

Total number of purchase requests received and checked	45,260
Total number of purchase requests returned to requester (unintentional duplicate, variant edition held, items unavailable/out-of-print)	- 12,494
	<hr/>
Total number of purchase requests forwarded to Order/ Receiving for ordering	<u>32,766</u> requests
Number of approval books received and checked	8,378
Number of notification slips received and checked	11,229
	<hr/>
	19,607 volumes
Number of items pre-catalogued and forwarded to Cataloguing Unit	15,031

Figure 7. Processing Statistics

PROCESSING STATISTICS

2. Order/Receiving

Total number of orders placed	50,627
Total number of orders received	40,953
Total number of outstanding orders eliminated from the on-order file via the cancellation/clean-up project	18,524
Status of the automated on-order file	
31 May 1973	
Number of orders outstanding	15,017

Figure 8. Processing Statistics

PROCESSING STATISTICS3. CataloguingNew Books Added

	<u>Titles</u>	<u>Volumes</u>
Main	36,942	48,876
Health Sciences	2,710	3,057
Law	3,560	4,272
Totals	43,212	56,205

Duplicates and Continuations Added

Main	6,239	9,664
Health Sciences	530	567
Law	2,464	2,957
Totals	9,233	13,188

New Periodicals Added

Main	435	2,120
Health Sciences	282	1,818
Law	15	57
Totals	732	3,995

New Non-book Materials

	Main	H.Sci.	Law	Music	Periods.	Titles	Pieces	Total	
								Titles	Pieces
Microcards	X					14	9,101	14	9,101
Microfiche	X					16	449	16	449
Microfilm	X				X	70	2022/789	70	2,811
LCBO (Music)				X		297	3,566	297	3,566
Phono-records				X		3,120	780	3,120	780
Slides						0	0	0	0
Tapes				X		279	279	279	279
Other									
A-V materials		X				11	142	11	142
Totals								3,807	17,128

PROCESSING STATISTICS4. Materials reclassified/re-catalogued

	<u>Titles</u>	<u>Volumes</u>
Main	2,550	3,639
Health Sciences	361	435
Law	6,894	8,273
Music	0	0
Totals	<u>9,805</u>	<u>12,347</u>

Materials Transferred

Main	1,058	1,563
Health Sciences	0	0
Law	0	0
Music	0	0
Transfer Unit	9,344	19,034
Totals	<u>10,402</u>	<u>20,597</u>

Original Cataloguing

Main	6,589	21,972
Health Sciences	1,712	2,054
Law	5,062	6,074
Music	3,696	4,625
Total	<u>17,059</u>	<u>34,725</u>

Periodical volumes added by binding

Main	13,024
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Figure 10. Processing Statistics

PROCESSING STATISTICSCatalogued materials withdrawn

	<u>Titles</u>	<u>Volumes</u>
Main	0	172
Health Sciences	39	273
Law	(not repton.)	(not repton.)
Music	(not repton.)	(not repton.)
	<hr/>	<hr/>
Totals	39	445

5. Periodicals

Number of periodical subscriptions as of
30 June 1973

9,347

Number of books and periodical volumes bound
1 July 1972 - 30 June 1973

12,629

6. Government Publications

Number of items added

10,156

Work load statistics

Number of titles/volumes (pieces) processed

TitlesVolumes (pieces)

77,191

146,640

(31% of the new titles catalogued were catalogued without LC copy.)

Figure 11. Processing Statistics

PROCESSING STATISTICS

Growth of the Collection

New Books (volumes)	56,205	
Duplicates and continuations (volumes)	13,188	
New Periodicals (volumes)	3,995	
Bound Periodicals (volumes)	13,024	
Documents	10,156	
	<u>96,568</u>	

Non-Book Materials

Microcards (pieces)	9,101	
Microfiche (pieces)	449	
Microfilm (reels)	2,811	
	<u>12,361</u>	
LCBO (Music)		3,566
Phono-records		780
Tapes		279
A-V materials		142

Total 113,696

Book and periodical volumes withdrawn - 445

Total new 113,251


Figure 12. Processing Statistics


Circulation Statistics - The University of Western Ontario
Library System

	1970-71	1971-72	1972-73
General Library (Arts, Social Science, and Physical Education)	274,388	295,274	343,832
Business Library	27,139	16,696	16,988
Education Library	50,086	51,309	46,417
Engineering Library	10,500	10,047	11,327
Health Sciences Library	40,049	46,776	57,317
Law Library	16,491	25,915	32,189
Music Library	48,228	61,260	73,350
Natural Sciences Library	33,130	38,555	32,594
Total - Divisional/Professional Libraries	225,623	250,558	270,182
TOTAL - LIBRARY SYSTEM	500,011	545,832	614,014
Percentage increase over previous year	11%	9.16%	12.49%

Interlibrary Loan Transactions - The University of Western Ontario
Library System

1968/69 - 1972/73

 Health Sciences Library

 Other Libraries

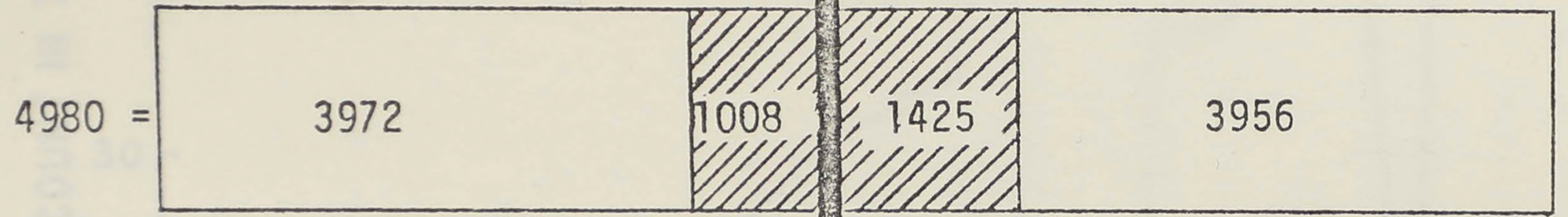
BORROWED

LOANED

Total Transactions

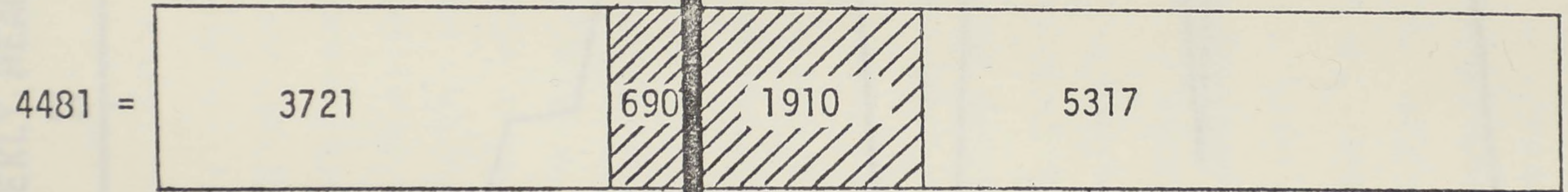


1968/69



10,361

1969/70



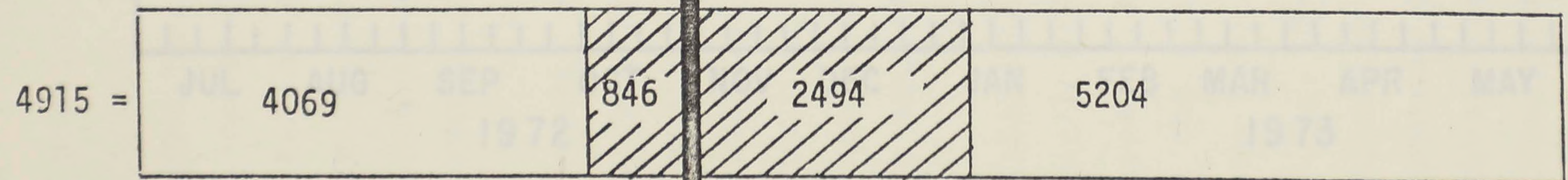
11,708

1970/71



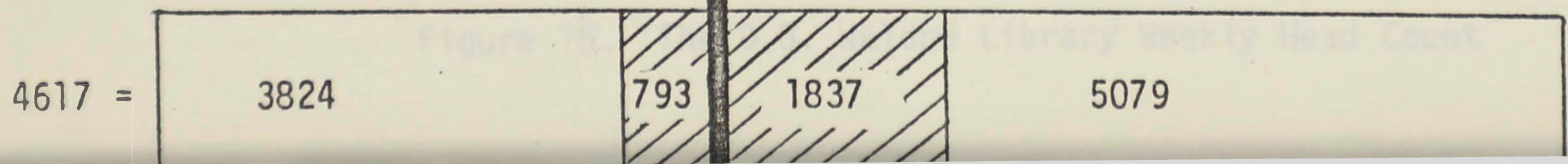
12,919

1971/72



12,013

1972/73



11,533

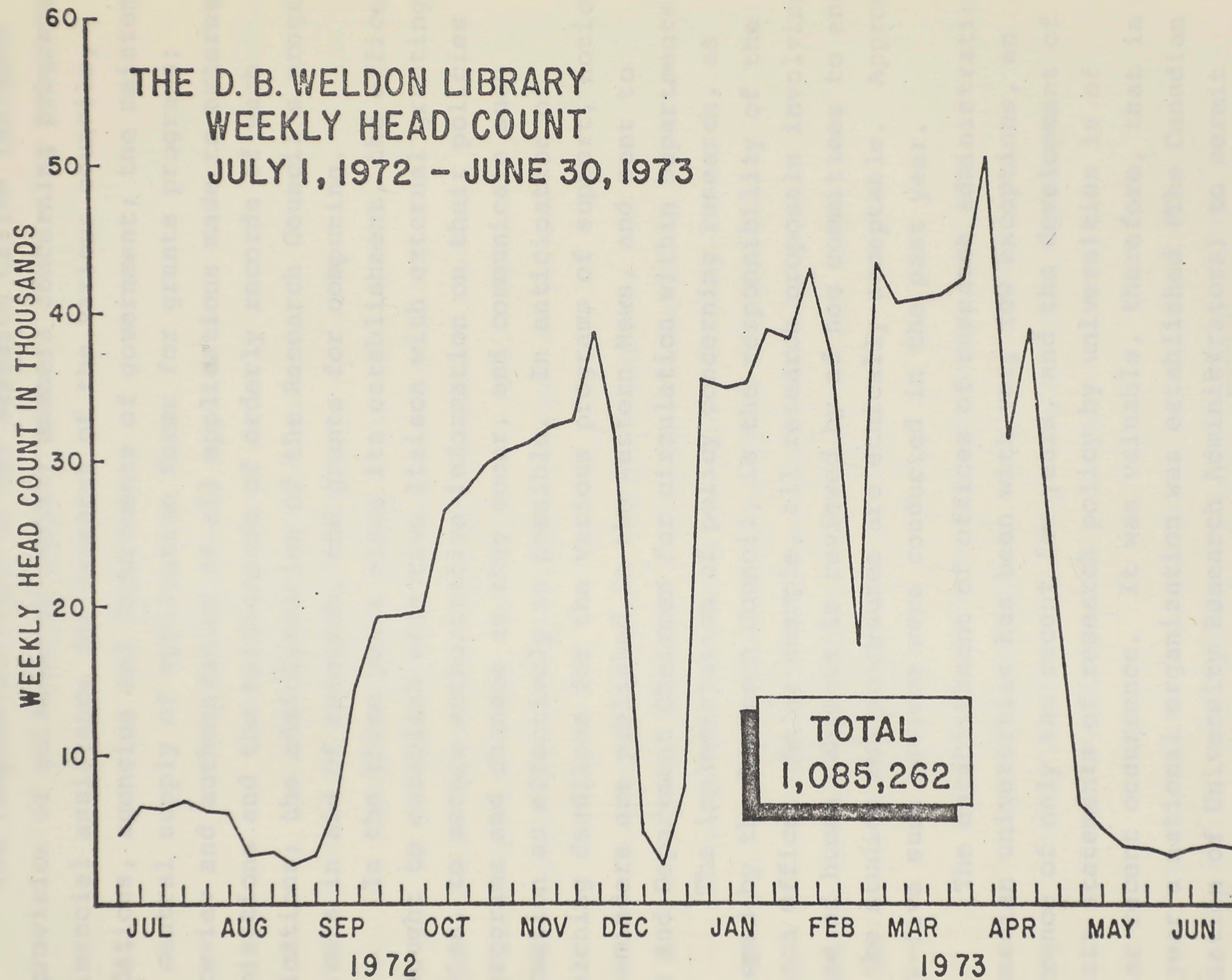


Figure 15. The D.B. Weldon Library Weekly Head Count

UNIVERSITY RESEARCH COUNCIL

Report of the University Research Officer

H. W. BALDWIN

The responsibilities of the Research Office includes the provision of guidance to faculty members concerning programs of financial assistance for research of the various councils, foundations, agencies and departments of government; the maintenance of a central supply of application forms for grants programs; the review and authorization of all applications made to external organizations and the maintenance of orderly records of such applications; the administration of the Research Council's programs of grants in aid of research, and grants for computing.

In the three years since its establishment, the office has sought to establish effective liaison with external granting agencies, to secure authoritative information on their policies and programs and changes as they occur, and communicate such information as effectively as possible. In anticipation of approaching deadlines for the various programs of support, notices and reminders are published in the Western News, and sent to Deans and Department Chairmen for circulation within Departments.

The implementation of policy concerning research, as developed by the Research Council, is the responsibility of the Research Office. As an example, all research proposals involving the use of human subjects is reviewed by ad hoc committees to ensure that the studies and procedures are ethically acceptable. Approximately twenty-five such reviews were conducted in the past year.

The establishment of offices of research administration in Canadian universities has been with very few exceptions, an occurrence of only the recent few years, and the development of explicit statements of research policy by universities is of similar recent occurrence. It was valuable, therefore, that in the past year a national organization was established (The Canadian Association of University Research Administrators) to permit discussion of common interests and a sharing of ideas and practices.

THE SUMMER SCHOOL AND EXTENSION DEPARTMENT

Report of the Director

MISS ANGELA M. ARMITT

The year 1972-73 saw a steady growth of the Department, with an increase in the Summer School registration, a levelling off of Extension and winter non-credit courses and increased activity in the area of Continuing Education Workshops offered during the summer in Music, Earth Science, Nursing and Education. Planning was begun on a number of new projects. An intersession was introduced in May and June of 1973, on campus. Summer Schools off campus were planned for Brantford, Chatham and Sarnia, as well as Owen Sound, with additional counselling activities in these centres to make students aware of these new programs.

Faculties and Departments were most cooperative in supporting the activities of the Department both on and off campus. The success of the outside centres was enhanced by the support of Boards of Education, Public Libraries, and in some cases, County and City Councils, whose members took an interest in the activities of the Western Extension Department in their area. Two Councils gave financial support to the School Library in Owen Sound.

The Director of the Department continued to visit communities served by the University, speaking to many Community organizations. In addition she spoke to a number of educational groups in the Toronto area and a World Conference in Portland, Oregon.

The report that follows considers the degree credit and non-credit programs of this Department with the exception of Trois-Pistoles, which is covered in a separate report.

1972 SUMMER SCHOOLS

There was an overall increase in Summer School registrations. One hundred and sixty-four courses were offered with 4105 students registering for 6112 courses. After withdrawals the final count was 5393 course registrations.

At the Evening Summer School, from May 10th to August 17th, 1543 students registered for 1862 courses. Thirty-seven classes were offered.

At Day Summer School, July 4th to August 17th, 2752 students registered for 3861 courses in a total of 109 courses.

Owen Sound Summer School also continued its steady growth with 258 people registered for 389 courses (18 classes).

EXTENSION CLASSES

Evening and Saturday classes were offered in London and at nine outside centres.

The number of classes and course registrations for all extension centres are listed below:

<u>Location</u>	<u>Classes</u>	<u>Registration</u>	<u>Average per Class</u>
Western Campus	67	2,382	35
Brantford	10	215	21
Chatham	9	104	11
Clinton	4	100	25
Owen Sound	9	300	33
St. Thomas	5	113	22
Sarnia	13	476	36
Stratford	3	74	24
Tillsonburg	2	74	37
Woodstock	4	156	39
TOTAL	126	3,994	32

In the final reports for the 126 classes there were, after withdrawals, etc. 3455 course registrations.

CORRESPONDENCE COURSES

Twenty-three courses in nine subject areas were offered by Correspondence in 1972-73. After recording cancellations the final report listed 109 students taking 126 courses.

CONTINUING EDUCATION

1972-1973 was an active year for the Department in the field of Continuing Education (Non-Credit) Programs. The Department continued to cooperate with other segments of the University in offering courses and workshops for the benefit of the community.

The Department was requested to provide full support for all the Short Courses for Teachers which were being offered by Althouse College of Education in the summer of 1972. Over 150 teachers attended these one week courses. In cooperation with the Faculty of Music and the Western Ontario Conservatory of Music a three-day Piano Teachers' Workshop was organized. This workshop drew over one hundred participants from all sections of Ontario.

In conjunction with the Department of Geology the Department has been offering Earth Science Curriculum Project Workshops since 1970 with instructors from the United States as the main resource people. The 1972 course was reorganized to put greater stress on Canadian aspects of earth sciences with greater input from Department of Geology faculty members assisted by two London school teachers. The 1972 Canadian Earth Science Curriculum Workshop was funded by the Canadian Geological Foundation and the Geological Survey of Canada. In September 1972 Shell Canada agreed to provide grants in 1973, 1974, and 1975 to cover course, travel and living expenses for 20 teachers from across Canada to attend the workshop.

Another Geology Department course was entitled Computer Applications in Geology and was offered subsequent to the 24th International Geological Congress in Montreal. Participants came from Europe, Africa, Australia, Mexico, Jamaica and Trinidad as well as the United States and Canada to attend this one week workshop.

Three Geography Workshops were organized for local teachers with the following titles - Concepts and Models, Computer Methods, and Physical Geography of the London Area.

In the field of Nursing, Workshops have been offered annually since 1969 on Test Construction for Teachers in Nursing Education. In May, 1973, a Workshop on Evaluation of Student Nurse Clinical Performance was introduced and was oversubscribed.

The Department continued to cooperate with outside associations and agencies to provide opportunities for their members to further their professional development by taking courses at the University. Association members were frequently counselled to seek admission to the University to take university credit courses such as Business 20 and Economics 20 which would meet institute requirements. In cases where suitable credit courses were not available the Department organized special non-degree credit courses to meet the needs of the professional organizations.

NON-CREDIT REGISTRATIONS JULY 1, 1972 - JUNE 30, 1973

Auditing Credit Courses

Summer 1972	48
Extension 1972-73	86
Day 1972-73	7
	<u>141</u>

Fine Arts Courses

Introduction to Figure Sculpture (fall)	15
Introduction to Figure Sculpture (winter)	14
Introduction to Figure Sculpture (spring)	9
Life Drawing (fall)	32
Life Drawing (winter)	19
	<u>89</u>

Language Courses

Intensive English Language (Aug. 8 to Sept. 2)	14
English as a Working Language (fall)	66
English as a Working Language (winter)	31
English as a Working Language (spring)	9
French Conversation (fall)	47
French Conversation (winter)	34
Introduction to Mexico - (Culture and Language)	14
	<u>215</u>

General Interest

Blazonry - The Herald's Art	7
Consumer Protection Law	7
Contemporary World Affairs	31
Genetics - Man and Society	18
Heroes and Hero Worship	7
Morality and Contemporary Films	15
Opera Workshop	11
Women in History and Literature	9
	<u>105</u>

Professional Upgrading Courses

Appraisal I	47
Appraisal II	32
Business Law	12
Communications (Interpersonal Communication)	32
Computer Science Refresher	9
Computer Science Seminar	7
Current Audio-visual Techniques and Equipment	5
Current Topics in Pharmacology (fall)	23
Current Topics in Pharmacology (winter)	26
Financial Accounting	16
Geography - Workshop in Concepts and Models	36
Geography - Workshop in Computer Methods	14
Geography - Physical Geography of London Area	20
Introductory Accounting	59
Introductory Business Organization London	27
Introductory Business Organization Chatham	10
Introductory Economics London	16
Introductory Economics Chatham	6
Marketing Management	15
Personal and Professional Growth in Nursing Practice	8
Registered Industrial Accountants	
Principles of Accounting	30
Business Mathematics	13
Economics	25
Report Writing	20
Data Processing	12
Accounting Theory and Problems	15
Commercial Law	8
Accounting III	24
Organizational Behavior	14
Industrial Organization and Management	23
Cost Accounting and Systems	13
Auditing	17
Cost and Management Accounting	15
Taxation	11
The Use of the Nursing Process	14
Welfare Officers' Training Course	
Understanding Society	44
Personality Assessment and Evaluation	34
	<u>752</u>

Summer Courses and Workshops 1972-73

July 4-7, 1972	Current Audio Visual Techniques (A.C.E.)	10
July 4-7	Rhetoric and Creative Writing (A.C.E.)	8
July 17-21	Teaching the New Course in World Religions (A.C.E.)	32
July 17-21	History and Geography at the Intermediate Level(")	16
August 7-11	Elementary Social Studies (3-6) (A.C.E.)	12
August 14-18	Man in Society (A.C.E.)	29
July 4-8, 1972	Suzuki String Workshop	26
July 12-14	Piano Teachers' Workshop	103
July 4-28	Earth Science Curriculum Workshop	18
September 1-5	Computer Applications in Geology	22
May 13-16	Workshop on Evaluation of Student Nurse Clinical Performance	30
June 10-13	Workshop on Test Construction for Teachers in Nursing Education	25
June 18-22	Western Modern Sports Clinic	55
June 11-14	Designing and Writing a History and Social Science Curriculum	19
June 18-22	Informatics	29
		<hr/> 434

TOTAL: 1,736

TROIS-PISTOLES SUMMER SCHOOL

The 1972 session of the Trois-Pistoles Summer School was held from July 4 to August 16. The student enrolment was 227, an increase of 24 over the 1971 summer session. There were 195 students studying French, 32 enrolled in English courses and 5 in Painting.

Although mainly composed of students from Ontario, all Canadian provinces were represented except Prince Edward Island. There were six students registered from the United States.

The University of Western Ontario was granted a number of bursaries from the Summer Language Bursary Program for Canadian or landed immigrant students wishing to learn French or English as a second language at the Trois-Pistoles Summer School. One hundred and fifty-one students (147 English speaking and 4 French speaking) came to the School under this special program.

In addition to the Trois-Pistoles Summer School staff, there were sixteen instructors in French, three in English and one in Painting. There were three workshop "animateurs", one for the student newspaper, one for the folk dancing and the third for theatre.

The highlight of the 1972 session was the celebration of the Trois-Pistoles Summer School's 40th anniversary. To start off the celebrations, a street parade was organized by the students, professors and townspeople followed by a costume ball. The second big event was the banquet which was attended by 400 people. Amongst the distinguished guests were the President of The University of Western Ontario, Dr. D.C. Williams, Mr. W.C.P. Baldwin from the Board of Governors,

Miss Angela M. Armitt, Director of the Summer School and Extension Department and Dr. C. Venesoen, Chairman, Department of French. Mr. John Fisher known as "Mister Canada" was also present, along with past directors, Mr. T.J. Casaubon and Mr. F.K. Harper. The mayor of Trois-Pistoles, the members of La Corporation des Cours d'été de Trois-Pistoles and several other notables were also present. The third and last event was a concert given by the students. Two plays were included, one in French performed by English speaking students and the other in English by French speaking students. The three day festivities were a huge success.

An elaborate program of cultural activities complemented the academic program. The purpose of these activities was to give the students greater opportunities to use the second language while making them better aware of the Quebec culture and civilization. A special schedule of the events was published and all the citizens of Trois-Pistoles were invited to attend. Trois-Pistoles Summer School Art students gave an exhibition of their work. Several paintings were purchased by the visitors.

Three excursions were organized for the students, one to Quebec City, one to the Baie-St-Paul annual folk festival and the last to the Gaspé Peninsula.

OFFICE OF INTERNATIONAL EDUCATION
REPORT OF THE EXECUTIVE SECRETARY

Dr. D. G. Simpson

The different activities of the Office are directed to achieving the following objectives:

1. To encourage meaningful contact, in all areas of university activity, with the experience and perspectives emanating from other cultures, especially non-Western cultures, in order to enrich the intellectual and social life of the university and community.
2. To facilitate the process by which the resources of the university in terms of expertise and equipment are made available to educators from other countries or cultures, according to their needs and to the capacity of this university to respond to them.

In fulfilment of these objectives the Office has developed since 1969 a Cross Cultural Learner Centre to carry out activities in the community, to support and participate in curricula and research programs with overseas educational institutions, and to develop some intercultural contacts within Canada.

In addition seven area study committees have been established within the Centre which carry out documentation and research relating to their history and culture. The work of the individual committees is described in more detail later in this report.

OFFICE

A major role of the Office consists in making contacts with universities in the Third World, either through travel of Office staff or through the invitation of visitors to U.W.O. Once the initial contacts are made the Office plays a supportive role to the departments directly involved; to advise on funding and contract arrangements and to seek out frank opinions from all parties as a prelude to resolving conflicts of interests and misunderstandings. Among the more visible manifestations of the Office's aim to coordinate and stimulate the international dimensions of the University are the following major programs which have linked U.W.O. to universities in the West Indies, Ghana, India, and Guyana in the disciplines of Business Administration, Economics, Medicine, and Education. Several new links are currently being explored.

In addition, the Office at the request of the President or various departments and students prepares background reports on a variety of international or intercultural

programs. In order to perform these functions the Office maintains continuing contact with over forty-five foundations and associations with responsibilities in the international or intercultural area.

THE CROSS CULTURAL LEARNER CENTRE

The Centre under the leadership of Ken Amoroso and Bev Burke attempts to create an environment responsive to the personal needs of the learner by utilizing a wide range of audio-visual techniques including printed material, video tapes, slide sound packs, sound tapes, films and artifacts. The value of human resources and inter-personal communication is recognized as a significant part of the learning experience. Whenever economically feasible, the use of a computerized retrieval system allows for quick and ready access to resource material.

The Centre staff conducted CUSO Orientations for East and West Africa involving approximately 180 volunteers. In addition, orientation and workshop programs were held for CIDA personnel, United Church Missionaries, Y.M.C.A. and several other groups. For the second year a two week experiment was conducted by Charlie Brown University involving University students, Centre staff and children from a London elementary school.

Mr. Dan Curtis, Assistant to the Executive Secretary, continued to work with community groups on educational programs about Third World development issues. The following activities were launched, many with the assistance and active support of the London Association for International Development: a community newsletter on International Development, a unique program on the Third World which involved hundreds of Londoners in a series of home study groups involving the use of cable T.V., role play, simulation games and study materials and produced three T.V. programs on Third World issues in cooperation with students and staff of the Communication Art Division of Fanshawe College shown on cablecast. During the summer of 1972, a number of high school and university students with the assistance of the Office and the London Association for International Development ran a Third World Centre in the premises of Smales Pace Coffee House. During the last federal election, the Office assisted L.A.I.D. in raising issues with the candidates related to the Third World.

AREA STUDY GROUPS

Most of the area study groups were involved in CUSO orientations as well as continuing to expand their own activities.

The Native Resource Centre, under its chairman, Bryan Loucks, has been involved in a number of projects related to education. They have produced a newsletter, collected resources, run an Earth Camp, continued their work with the Saunders Secondary School Native Cultural Studies program, and held several meetings with elementary teachers in the area. In addition, several storybooks aimed at primary school children and devoted to Native culture have been completed. Plans were started with Dr. John Hart on a computer assisted instruction program.

The focus for the Canadian Black Studies group was a teacher's kit on Blacks in Canada. Under the chairmanship of Mrs. Marjorie Okraku a survey has been conducted examining the position of the Black student in the educational system in southwestern Ontario. Fall programs included a television series on cablecast under the direction of Ms. Pat Jasion.

Enid Lee, Chairman of the Caribbean Centre, and her staff were heavily involved in the preparation of slide-tape shows and other audio-visual material for CUSO Orientations. A Caribbean kit is now being prepared for use in the school system. The Caribbean Committee also responded to a request from the Miles for Millions project in Toronto for materials which teachers might use when presenting another culture through music and literature.

The Asian Studies Section visited and attended classes of high school teachers engaged in developing and teaching courses on world religions and comparative studies. Contacts were made with various Asian groups in London and a thirty-minute videotape of Indian music was produced and shown on cablecast T.V. A major project this year, under the Chairmanship of Dr. Radcliffe and Mrs. Tobias has been the preparation for the Canadian Crossroads International Organization Orientation. Approximately ten Crossroaders will be sent to the Philippines, and India. Significant work has been initiated in the purchase and development of general reference books, literature and audio-visual materials on India and the Philippines.

The Latin American section under the Chairmanship of Miss Nellie Escobar has been collecting material related to human geography, folklore and language, as well as a large amount of material about economics, development and political situations in Latin America has been obtained. Slide tape shows about Brazil, Colombia and Peru have been made. This committee is now preparing for the CUSO Orientation for Latin America.

The African Steering Committee has prepared several T.V. programs as well as developing a catalogue on African materials for secondary school teachers.

The Canadian Mainstream Committee is a new group formed in affiliation with the Cross Cultural Learner Centre. Mrs. Lynn Clark reports that the long range goal of the Committee is to provide a resource centre for the dissemination of information on the mainstream or dominant culture in Canada. The approach will involve the collection and preparation of multi-media materials that document the mainstream values and that plan these in perspective through implicit comparison with the cultural patterns of the representatives at the Cross Cultural Learner Centre.

The Office, Centre and Area Groups have received valuable assistance from many university, community and government groups and individuals. The excellent cooperation and assistance of Mr. Neil Campbell and his staff at Westminster College is warmly appreciated by all concerned.

The Cross Cultural Centre had a 56% increase in usage in 1973 over 1972 serving a total of 3,000 people.

Among the heavy users were London Secondary Schools, U.W.O. students and faculty, London Elementary School students and teachers and out-of-town Secondary School students. In addition to making extensive use of the facilities within the centre, many of these groups borrowed or duplicated centre material for additional work in other locations. Much time was spent by resource people visiting classrooms and consulting with individual teachers.

Many community groups used the centre as a focal point of their 1973 programmes. Among these were the London Association for International Development, United Church Women and the Ugandan Asian Committee. Third World Study Groups met twice weekly at the Centre and used the resources and staff in planning and implementing their programme.

Out-of-town groups included students and faculty of the University of Toronto Library School, Michigan State University and OISE. Some of these people stayed several days using the resources and obtaining help in planning programmes for their home areas.

Borrowing of Centre materials, eg. books, video tapes, slide/tape shows, became so heavy that a nominal charge had to be imposed to help cover the cost of wear and repair.

Residential Summer Courses were held for the orientation of CUSO and Cross-roads volunteers. These were individualized programmes which used the centre materials and resource people.

While this is just a brief sketch of the types of use being made of the centre it is evident that awareness of the facility is growing and increasing demands will be made on the resources. There is already a heavy schedule planned for 1974.

COUNCIL OF UNIVERSITY THEATRES AND ART

Report of the Chairman

DR. P. D. FLECK

The Council for University Theatres and Art established by Senate in 1970 has, during the 1972-73 academic year, overcome its initial "growing pains" and proceeded more effectively to fulfill its obligation to The University: to administer and assist academic, non-academic, musical, theatrical, fine art and other cultural events for presentation at The University; to solicit appropriate funds for the presentation, promotion and subsidization of these activities; to manage facilities for these activities; to establish a balance in the cultural program presented on campus; to coordinate, advertise and promote activities for the benefit of The University and London communities.

The Council for University Theatres and Art is a policy committee comprised of members from Senate, Faculty, student body, the Alumni Association, and the London community. There is a working sub-committee for Art and one for Theatres, and it is the responsibility of each sub-committee to implement the policies and to administer the budgets approved by Council according to the needs in its particular area.

Many organizations both from The University and the London community have contributed to the tremendous variety in the visual and performing arts events in The University theatres and art gallery. These groups in general operate within their individual identities but under the umbrella of CUTA. A total of 295 events in the performing and visual arts were presented in 1972-73 with an overall attendance of 180,542.

Though the publications of the CUTA Office, The University and London communities are better informed of the many events in the arts available in The University facilities. The University of Western Ontario through CUTA and through its sub-committees is represented in arts organizations at the Federal, Provincial and Municipal levels, and there is increasing communication and co-operation with community arts organizations.

For many years, audiences have enjoyed the productions of professional and amateur theatre presented by the Departments of English, French, and German. Continuing this tradition, these academic departments in 1972-73 brought to Western such productions as The Changeling, Quichotte, Le Barbier de Seville. The Faculty of Music, with its many fine individual faculty performers, offers an endless variety of solo, chamber, and large ensemble recitals and concerts. The Recital Hall in the new Faculty of Music Building is one of the busiest facilities on the campus. In 1972-73, the Faculty of Music increased its programming to include a Guest Artist Series of four concerts.

The long established and highly competent student theatre organizations--Players' Guild, Purple Patches and the Gilbert and Sullivan Society-- continue to present drama and musical theatre that provide professional direction and training for the participants and excellent theatre fare for the audiences. These student theatre groups are supported by the University Students' Council with subsidization from CUTA.

The Great Artists' Series sponsored by the Alumni Association has continued to expand its concert series in both quality and quantity to make the series second to none in Canada. The list of international solo artists, symphony orchestras, dance troupes and jazz groups performing in Alumni Hall reads like a "Who's Who" of the musical world.

The Alumni Association, as part of its Festival of the Arts 1972-73, presented a unique film festival of Canadian films in addition to sponsoring art exhibits in the McIntosh Gallery by distinguished Canadian and International artists.

The McIntosh Gallery film and exhibition program in 1972-73 was perhaps the most ambitious and successful in the history of the Gallery. The appointment in July 1972 of Claude Breeze as the new Resident Artist and a grant from the National Museums Board for a Gallery catalogue for 1973-74 will add even further dimensions to the Gallery's activities.

In the summer of 1972, Talbot Theatre Centre presented a season of three plays over a six-week period; the plays were performed by a company of student actors and technicians and professional directors. Pursuing its function of "an experiment in theatre", Talbot Theatre Centre carried over its operation into the 1972-73 academic year by importing theatre productions in dance and mime.

Community organizations such as the London Symphony, Jeunesses Musicales, the music departments of the London and Middlesex Public and

Separate School Boards are increasingly utilizing The University theatre and concert facilities, thus adding further variety and quality to the cultural life of the total community.

The establishment of a Central Campus Box Office, managed and financed jointly by CUTA and the University Students' Council, has provided a long needed service to The University community.

CUTA OCCUPANCY RATE SUMMARY 1972-73

297

	Dramatic Productions	Recitals & Concerts	Conferences Lecture Series	Films	Meetings Student Clubs	Off- Campus Users	Sepecial Events	Art Gallery Attendance
Alumni Hall		49,937				8,400	24,020	
Althouse Theatre	1,000	4,481	2,000					
Talbot Theatre	12,000 3,234 (TTC)	1,433	200					
Middlesex Theatre				29,000	8,950			
London Teachers' College	1,842	2,000						
Recital Hall		15,335	3,375					
McIntosh Gallery								13,315
TOTAL	18,080	73,202	5,575	29,000	8,950	8,400	24,020	13,315

GRAND TOTAL - 180,542

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USE OF

(Figures or

10-72

Chart No.	Direct Charges Contract Service	Contract Expense	Self-Cost Items	MONTHLY TOTAL
		1,200		1,200
		1,700		
	2,000	4,200		6,200
	1,200	4,000		5,200

C U T A F A C I L I T I E S

June - May

1972-73

do not include rehearsals
academic use)

		800		800
		800		800
	2,000	5,200		7,200
	1,200	4,000		5,200
		4,100		4,100
		4,000		4,000

ALUMNI HALL 1972 - 73

299

	University Students Council	Purple Spur Concerts	Sunday Nine O'Clock Concerts	Great Artists' Concerts Series	Special Events	Off-Campus Users	MONTHLY TOTAL
June					1,350		1,350
August					1,700		
September		4,430		2,300	2,500		9,230
October		2,600	5,400	1,300	4,900		14,200
November		1,200	1,100	3,300		2,100	7,700
December				1,900		6,300	8,200
January		4,400	1,500	7,440	340		13,680
February		2,317		5,250	500		8,067
March	2,330	400	1,200	2,400	2,300		8,630
April				1,500	4,950		6,450
May					3,150		
TOTAL	2,330	15,347	9,200	25,390	21,690	8,400	

ALTHOUSE THEATRE 1972 - 73

	Dramatic Productions	Recitals & Concerts	Conferences & Club Meetings Lecture Series	MONTHLY TOTAL
October		475	900	1,375
November	1,000			1,000
December		1,578	100	1,678
February		550		550
March			600	600
April		664		664
May		1,214	400	1,614
TOTAL	1,000	4,481	2,000	

Seating capacity 404
(370)

TALBOT THEATRE 1972-73

301

Dramatic
Productions

Recitals and
Concerts

Conferences,
Clubs and Lecture
Series (non-academic)

Talbot
Theatre
Centre

MONTHLY
TOTAL

June			200		200
July				2,476	2,476
October	219	320		758	1,297
November	3,754	300			4,054
December	504	370			874
January	2,239	150			2,389
February	4,288				4,288
March	804				804
April		293			293
May	196				196
TOTAL	12,004	1,433	200	3,234	

MIDDLESEX COLLEGE THEATRE 1972-73

302

	Films	Student Club Meetings & General	MONTHLY TOTAL
June	850	100	950
July	2,500		2,500
August	550		550
September	1,700	700	2,400
October	2,300	1,500	3,800
November	4,100	1,300	5,400
December	950	1,650	2,600
January	3,550	1,200	4,750
February	6,650	1,300	7,950
March	4,150	1,200	5,350
April	1,600		1,600
May	1,000		1,000

Seating Capacity 604

LONDON TEACHERS' COLLEGE 1972-73

Drama

Concert

MONTHLY TOTAL

November	1842	450	2292
December		500	500
February		550	550
March		500	500
TOTAL	1842	2000	

RECITAL HALL NEW FACULTY OF MUSIC BUILDING 1972-73

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	Student Recitals	Graduate Student Recitals	Faculty Artist Series	Guest Artist Series Off-campus users	Workshops & Conferences	MONTHLY TOTAL
June			195		100	295
July			125		725	850
September		125				125
October		140	1,100	535	500	2,275
November	500		690	250	450	1,890
December	375		300			675
January	750		690	99		1,539
February	750	390	690	250	400	2,480
March	2,000	1,170	880	200	1,200	5,450
April	1,000	975	585	150		2,710
May	125		195			320
TOTAL	5,500	2,800	5,351	1,484	3,375	

McINTOSH GALLERY 1972 - 73

	Attendance Figures	Films
June	1,440	
July	402	
August	511	
September	1,147	
November	831	1,500
December	2,040	
January	648	1,000
February	1,663	
March	1,583	
April	250	
May	300	
Total	10,815	2,500

CUTA OCCUPANCY RATE SUMMARY 1972-73

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	Dramatic Productions	Recitals & Concerts	Conferences Lecture Series	Films	Meetings Student Clubs	Off- Campus Users	Sepecial Events	Art Gallery Attendance
Alumni Hall		49,937				8,400	24,020	
Althouse Theatre	1,000	4,481	2,000					
Talbot Theatre	12,000 3,234 (TTC)	1,433	200					
Middlesex Theatre				29,000	8,950			
London Teachers' College	1,842	2,000						
Recital Hall		15,335	3,375					
McIntosh Gallery								13,315
TOTAL	18,080	73,202	5,575	29,000	8,950	8,400	24,020	13,315

GRAND TOTAL - 180,542

The Computing Centre

Report of the Director

Mr. G. T. Lake

The past year has been one of stability, consolidation and steady growth. The interim CDC6400 batch processor, installed in January 1972 was replaced by the Cyber 73 configuration in late August 1972. Both systems performed well during the year and the additional processing power provided by the Cyber system released resources on the PDP10 system to meet a substantial increase in demand for time sharing.

The table below shows annual volumes of jobs processed on the various systems installed in the Centre, since 1965/66. The figures are all for the May 1 - April 30 period annually. The impact of the Cyber 73 can be seen in the sharply reduced job volumes processed on the PDP10 batch system and on Off Campus facilities in the past year. Also notable is the 37% increase in the number of time sharing jobs processed over the previous year.

In addition to the regular activities associated with processing user jobs, many improvements in procedures were implemented during the year. Significant effort was expended on systems to account and report on user activity. Each user now receives a weekly report showing his activity during the week in terms of jobs run, resources used and costs incurred. Similarly each dean and, where appropriate, each department chairman receives a weekly report summarizing the activities and expenditures in the department during the previous week.

In cooperation with the Personnel Department a new system for job classifications for computer operations and professional staff was instituted, setting out salary scales and job requirements. Internal reporting procedures were improved with the objective of providing accurate information on the factors affecting the costs of providing the various computer services offered by the Centre. All of these improvements will permit better planning and control of expenditures for computing.

TABLE: User Jobs Processed Annually 1965-1973

Year*	Batch Jobs				Sub Total	Time Sharing	Total
	IBM 7040	Cyber 73	PDP10	Off Campus		PDP10	
1965/66	20744	-	-	-	20744	-	20744
1966/67	40577	-	-	-	40577	-	40577
1967/68	62016	-	-	-	62016	-	62016
1968/69	77988	-	-	-	77988	-	77988
1969/70	66939	-	32914	288	100141	29925	130066
1970/71	40070	-	36664	8229	84963	33045	118008
1971/72	16929	35529	44666	5681	102805	54844	157649
1972/73	-	118684	9701	811	129196	75191	204387

* for the period May 1 - April 30 annually.

LABORATORY ANIMAL SERVICESUNIVERSITY COUNCIL ON ANIMAL CARE

Report of the Director

DR. D. H. PERCYBackground History

In accordance with the regulations outlined in The Animals for Research Act which requires that universities utilizing animals retain the services of a veterinarian, the position of Director of Laboratory Animal Services was created at this University on July 1, 1971.

The chief functions of this position are:

(1) To coordinate and advise on the standards of animal care on campus and to serve as a liaison between users of laboratory animals and representatives of The Animals for Research Act.

(2) To monitor disease problems as they arise in the animal colonies, and to prescribe appropriate prophylactic and therapeutic measures to insure that animals are of suitable quality for teaching and research.

(3) To advise on future requirements for animal facilities and participate in their planning and development so as to foster the orderly growth of such facilities and keep apace of the requirements of the University.

(4) To consult with and advise investigators concerning their requirements for animal care and specialized surgery and procedures such as anesthesia and blood collection.

(Period: July 1, 1972 - June 30, 1973)

Diagnostic Laboratory

The diagnostic laboratory was established in July, 1971. Located in the Medical Sciences Building, it was designed to monitor disease problems in laboratory animals to prescribe appropriate therapeutic and control measures. The laboratory has personnel who do procedures such as histology, haematology, parasitology and bacteriology. During the period from June 1, 1972 to May 31, 1973 the following submissions were processed by this laboratory:

(1) Animals submitted for diagnostic pathology:

<u>Species</u>	<u>Number</u>
Monkey	15
Dog	35
Cat	22
Guinea Pig	35
Rabbit	68
Rat	86
Mouse	62
Hamster	2
Avian	1
Frog	6
Total	<u>332</u>

(2) Specimens submitted for parasitology: 82

(An additional 25 parasitology specimens were examined from animals submitted for post mortem).

(3) Specimens submitted for bacteriology: 48

(An additional 230 samples were processed from animals submitted for post mortem).

(4) Specimens for haematology: 24Tuberculosis Control Program

Non human primates are quarantined and tested for tuberculosis, Salmonellosis and Shigellosis upon arrival at The University. In addition, those monkeys housed for long periods of time at the Health Sciences Centre or Social Sciences Building are TB tested (Koch's old tuberculin: intrapalpebral route) on an annual basis. Approximately 50 animals were tested one or more times during the past year. All personnel involved in these programs have been advised to have an examination at the provincial chest clinic. All those examined to date have been negative for tuberculosis.

Personnel

(1) One technician (Miss K. Keene), a graduate of the Animal Health Technology Course, Centralia College of Agricultural Technology, does the routine

diagnostic bacteriology, parasitology and haematology. To date she has also been able to perform the secretarial duties associated with this office, thus performing a dual function.

(2) Mrs. Hilary Burdett is a trained histology technician whose salary is paid through a granting agency. In addition to preparing the histology slides for the director's research project, during the past year she has also prepared the routine tissue sections for the diagnostic laboratory.

Education

Non Credit Course in Laboratory Animal Medicine

During October and November, 1972, a series of 8 lectures was offered to technicians, graduate students and faculty members interested in various aspects of laboratory animal medicine. These lectures included topics such as anesthesia, bleeding techniques, diseases, husbandry, gnotobiotic animals, primates, behavioral studies and humane aspects of animal experimentation. In addition to members from the Health Sciences Centre and Departments of Psychology and Zoology, U.W.O., representatives also attended from Victoria Hospital, St. Joseph's Hospital and London Psychiatric Hospital. We plan to offer a similar program at this university in 1974.

Administrative Functions

(1) Animal Protocols

In cooperation with the chairmen of the Animal User's Committee, the director's office is responsible for the distribution, collection and approval of experimental animal protocols as required by The Animals for Research Act. Periodic inspections are made by representatives for this Act to insure that the regulations are being followed. Failure to comply with these regulations can mean revocation of registration and termination of animal usage at this University.

(2) London Humane Society

An agreement between the London Humane Society and this University was finalized in January, 1972. We were again able to obtain animals from this organization for acute, non survival teaching laboratories at U.W.O. A liaison committee has been established between the two groups.

(3) Additional Space Allocation for Laboratory Animals

In cooperation with SUTSA and the Department of Zoology, additional space for laboratory animal housing was obtained to alleviate crowding problems experienced in the Department of Zoology and The Health Sciences Centre. The ground floor, Collip Building has been assigned to the Zoology Department (2398 ASF) and four rooms have been obtained in The Staging Building for the overflow of animals from The Health Sciences Centre (1478 ASF).

(4) University Hospital Animal Care Committee

With the opening of The University Hospital, a local animal care committee has been established comprised of the Director of Laboratory Animal Services and representatives from the Hospital. Dr. J.L. Whitby, Dept. of Microbiology is chairman of the committee. In general, animals are housed in the animal holding rooms on a short term basis only. Domestic animals and non human primates are excluded from the animal holding areas at the University Hospital. Because of the proximity of the Hospital to the Health Sciences Animal Quarters, the two areas are registered as one under the provisions of The Animals for Research Act.

Other Activities(a) Scientific Presentations(1) Canadian Association for Laboratory Animal Science - Annual Meeting

Aug. 24, 1972 - "Sialodacryoadenitis in the Rat"

Aug. 25, 1972 - "Tyzzer's Disease in the Rat"

(2) Scientific Sessions: American College of Veterinary Pathologists

Nov. 13, 1972 - "Lesions due to IUDR in the newborn mouse"

Nov. 15, 1972 - "Histopathology of Experimental Infections with Rabies Related Viruses"

(3) Research Section: Ontario Veterinary Association Annual Meeting:

Jan. 30, 1973 - "Canine herpesvirus Infection: A Spectrum of Disease"

(4) Seminars: Ontario Veterinary College, University of Guelph

June 1, 1973 - "Diagnostic Pathology and Laboratory Animal Medicine"

- "Pathogenesis of Viral Encephalitis"

(b) Departmental Duties

As a member of the Department of Bacteriology and Immunology during the past year the director gave 5 lectures and one departmental seminar and assisted in the dental student microbiology laboratories.

A research project now in progress (Percy, D.H. "A Study of Developmental Defects Due to IUDR and Cytosine Arabinoside in Newborn Rats and Mice") is presently funded by the Medical Research Council.

The University Council on Animal Care

The Council consists of representatives from the local animal care committees at the University and the local hospitals. In addition, there are representatives on council from appropriate administrative offices at the University and Senate appointees. The Council met on two occasions during the past year. Some of the topics discussed at these meetings were: Experimental protocol forms, emergency holding space for laboratory animals on campus, the University Hospital animal care policies, cost recovery financing of animal care services and financial arrangements with regard to animal care at this University.

Financial Policies

During the past year, considerable discussion has ensued regarding the financial arrangements in effect and the future of the University Council on Animal Care and the animal programs in general on campus. It has become obvious that units such as the University Council on Animal Care must justify their need for continued financial support in view of the present budgetary crisis.

An appendix has therefore been included in this report dealing with:

(1) Study of possible economies in association with animal care programs at The University of Western Ontario.

(2) An outline of comparable programs at other universities in Ontario especially pertaining to the "recoverable" and "non recoverable" portions of the animal care budget.

Philosophy of The University Regarding the Relative Importance of Teaching and Research

The predicted drop in enrollment of undergraduate students and therefore the prospect of reduced financial aid has resulted in an increase in emphasis on the teaching function at the University. On the other hand, the role of researchers and research in general on this campus is being viewed with a most critical eye due to the apparent costs incurred to the University which are not recovered either directly or indirectly from the researcher. During a survey in January, 1973, we determined that there were 55 graduate students at The Health Sciences Centre which were involved in research projects utilizing laboratory animals. With the current and projected B.I.U. values for graduate students in Canada, this represents a figure of \$400,000 to \$500,000 which the University receives for these graduate students. This survey did not include graduate students in the Departments of Psychology and Zoology who utilize animals in their research projects. It is apparent, therefore, that aside from the direct charges to the researcher, that there are other ways in which research projects on campus do generate money for this University.

Appendix 1Study of Possible Economies in Association with the
Animal Care Programs at U.W.O.

The costs entailed in the operation of animal facilities centre on 3 areas:

- (1) Labor
- (2) Materials - (eg. food and bedding)
- (3) Equipment - (eg. cages and racks)

(1) Labor

Members of the animal care staff at the Health Sciences Centre, and Depts of Psychology and Zoology perform their duties only in their own areas. There has been a good relationship between all 3 groups but there is no interchange of personnel. Animal technicians in these facilities are considered to be full time employees in their respective areas and therefore a cooperative program would not result in a reduction in the total number of animal care technicians on the campus. In addition, there are certain phases which require specialized training and knowledge not held by most members of the animal care staff. Examples are the fish tanks in the Zoology Dept. under the direct care of Mr. Ken Carver, the primate rooms in the Dept. of Psychology and the specialized care required for canine surgery cases at the Health Sciences Centre.

(2) Feed and Bedding

The cost of feed for the 3 animal care operations at U.W.O. is approximately \$1,500.00 per month. Approximately 70% of this cost is for feed used at the Health Sciences Centre. Similarly, of the monthly bedding costs (approximately \$700.00) over 60% of this figure represents bedding purchased by the Health Sciences Animal Quarters.

Regarding the possibilities of purchasing larger quantities at a reduced price, there are problems which have been encountered with this proposal:

(1) Storage of large quantities of food and bedding in one or more locations on campus would entail finding a suitable storage depot and a means of transport to the other facilities as required. In addition, feed representatives (Hyde Park Feed Supply) have shown no interest in such a proposal because of

the diversity of the type of feed used in these facilities, the 3 locations and the difficulties in billing the different facilities. For example, the largest food expenditures are for mouse and rat feed, but it is estimated that approximately 85 to 90% of the total feed purchased on campus for these species is for the Animal Quarters at the Health Sciences Centre.

(3) Caging

Health Sciences Centre

Certain specialized types of caging (eg. metabolism cages) are stored in this area and may be available under certain circumstances.

Psychology

Approximately 24 new stainless steel cat cages and a number of new stainless steel rat cages are the property of this department and are stored in the Social Sciences Building. Conceivably, negotiations for the purchase of these cages by another facility (Health Sciences, Zoology) might occur at a future date.

Zoology

The majority of cages are in use in this department during the course of the year. In this department, as in other areas, some cages have been purchased by research grants and are therefore considered to be the property of the researcher involved.

Psychology Department

Meeting on Thursday, April 12, 1973.

Those present were:

R. Davis	Department of Psychology
J. Webster	Department of Psychology
W.R. Dickie	Financial Planning and Budgeting
D.H. Percy	Director of Laboratory Animal Services

Purpose of the meeting:

To determine what financial arrangements are in effect regarding charges for the daily care of animals in the Psychology department. Mr. Davis explained that the percentage of animals for research in the department compared to animals for teaching varied, depending on the time of year. He estimated that during the fall term, 60% of the total animal population in the department are research animals and 40% are for teaching. At the time of the meeting the ratio of research to teaching animals was estimated to be 80% research and 20% teaching.

The animal care staff consists of 2 members:

R. Davis	-	Supervisor	T. Maas	.-	Animal Technician
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The initial animal purchase and the cost of material (eg. food and bedding) incurred in the care of animals for teaching are charged to the departmental budget. The salaries of the animal care staff are also paid out of the budget of the Psychology department. Researchers are charged for their animals and pay for the daily care of their experimental animals on a materials basis. Thus, they are charged for the amount of feed and bedding used in the daily care of their animals, but not for the labor involved in the day to day care. A total of 8 faculty members are utilizing animals for research in this department.

Zoology Department

Meeting on Friday, March 16, 1973.

Those present were:

A.L. Gage	Department of Zoology
A. Sangster	Department of Zoology
W.R. Dickie	Financial Planning and Budget
D.H. Percy	Director of Laboratory Animal Services

Purpose of the meeting:

To determine what financial arrangements are currently in effect with regard to charging researchers for the housing and husbandry of experimental animals in the Department of Zoology.

Appendix 2

Animal Care Programs at Other Universities in Ontario

The University of Toronto

The Division of Laboratory Animal Sciences, Faculty of Medicine was established in 1967. The following personnel are supported by a "core-budget" and not recoverable through the charge system:

- (1) L.R. Christensen, Ph.D., Director
- (2) A.L. Fletch, D.V.M., M.Sc., Veterinary Pathologist
- (3) 1 Secretary
- (4) 1 Laboratory Technician
- (5) The chief supervisor of the animal technician

Dr. Christensen has an academic appointment in the Department of Medical Biophysics. He does not have a teaching function in the medical school, but is actively involved in the education of animal technicians. Dr. Fletch does not have a cross appointment at the University.

Queens University

The Animal Care Service was established at Queens in October, 1967. R.G. Greenwood, B.V.Sc., M.R.C.V.S. is the director of this unit which is responsible for all animals utilized at the university. The following personnel are supported by a non recoverable departmental budget:

- (1) Salary of the Director
- (2) Salary of the Chief Supervisor of the Animal Technicians
- (3) 1 Laboratory Technician
- (4) 1 Senior Clerk

\$3,500.00 are also in this non recoverable budget to purchase laboratory supplies. Dr. Greenwood has a cross appointment in the Department of Pathology. He does not have a teaching function in this department, but is engaged in the education of the laboratory animal technicians.

University of Ottawa

A full time veterinarian, H.C. Rowsell, D.V.M., PhD., was appointed in July, 1970. Dr. Rowsell is the chairman of the Animal Care Committee and also has an appointment in the Department of Pathology, University of Ottawa. He functions

as an active member of this department, with significant teaching responsibilities. A second veterinarian is also supported by the university. He serves as "Manager of the Animal Care Service". Salaries for all personnel are paid through departmental budgets and therefore not recoverable through the animal care service. It is therefore difficult to compare the programs at The University of Ottawa with the policies at other Universities in Ontario.

McMaster University

There have been negotiations for a Veterinary Director since the spring of 1972, but to date the position has not been filled. At the present time Dr. J.D. Schroder, Ontario Veterinary College, is officially regarded as the veterinary consultant for this university.

ACADEMIC COUNSELLING SERVICE

Report of the Director

DR. ERIC L. VOGAN

The Summer Academic Counselling Service operated for the seventh consecutive summer during the interval May 22 to July 13, 1973. The service commenced two weeks earlier than in 1972 and was shortened in duration from 12 weeks to 8 weeks.

Preparation for Summer Counselling began in December when all departments which teach beginning or freshman courses were requested to submit descriptive materials concerning their courses. These materials were collected into a Course Book, copies of which were distributed throughout the University (at College, Faculty and Department levels), to the guidance departments of all Ontario Secondary Schools, and to all participants in the Summer Counselling program. This book is the standard reference for academic counselling of all prospective freshman students.

Each student who indicated Western as a possible choice for University was extended an invitation to attend Academic Counselling and was provided with a blue appointment card on which he could indicate one of the following:

1. Appointment requested (3 alternative dates requested).
2. Counselling by mail requested.
3. Counselling requested before 21 May or after 13 July.
4. Counselling not desired.

Item 2 caused some problems since no reference was made to a minimum-distance limitation on this service in the initial correspondence with students. As a result, a personalized form letter, which

placed a 150 mile limit on the counselling-by-mail service, was mailed out to more than 2100 students who had requested the service but whose home addresses were within 150 miles of London. Many of these requests were from students who lived either in London or very close to London. No student who insisted on counselling by mail was refused the service.

The Summer Academic Counselling Service employed a secretary and a receptionist (both were students who started work about 1 May) and 19 members of faculty who were engaged as Counsellors. During the eight weeks of operation, 1613 prospective freshman were interviewed, which meant that the service operated to 87.5% of capacity. (In 1972, the service operated to 66.3% of capacity). A total of 273 students were counselled by mail (more than double the number in the previous year). The total number of first-year students (or prospective students) who availed themselves of the Summer Academic Counselling Service was, therefore, 1886.

Facilities for Academic Counselling were provided on the main floor of Somerville House (opposite the Snack Bar) and this was a decided improvement over the facilities employed in previous years. The same space has been requested for next year.

The nineteen Academic Counsellors and the Secretary and Receptionist provided excellent services to the University, and are to be commended.

Many of the young people who came for counselling had excellent Secondary School records and were a pleasure to talk to. A fair number of those interviewed or corresponded with did not

list Western as their first choice of a university but later changed their minds. Many students stated that they were impressed by the obvious concern and interest that Western showed for her students. One can only hope that they do not lose this impression during their first-year studies. It is my opinion, and the opinion of the majority of counsellors, that every student attending Western for the first time should be required to seek Academic Counselling, either by means of a personal interview (preferred) or by correspondence.

JOINT McINTOSH COMMITTEE

Report of the Secretary

W. S. Turner

During the academic year, 1972-73, the Joint McIntosh Committee, under the terms of the Will of the late Wilhelmina Morris McIntosh, approved of the following allocation of funds:

1.	<u>Prizes and Scholarships</u>	
	Geography	\$ 1,000.00
	Business Administration	675.00
	Public Speaking	<u>750.00</u>
		\$ 2,425.00
2.	<u>Promotion of Music</u>	750.00
3.	<u>Purchase of Pictures</u>	\$ 4,000.00

Report of the University Art Curator - Mr. Maurice Stubbs

The nineteen seventies will undoubtedly be acclaimed as the greatest expansionary era for cultural institutions in this country. Financial and technical assistance is being made available by all levels of government to every museum, art gallery and related institution in Canada on a scale never before attempted.

The McIntosh Gallery received a grant of \$13,000 from the National Museums of Canada (a Federal Government Corporation) for catalogue research (\$9,000.00) and the sponsorship of a gallery trainee

(\$4,000). Miss A. Haldane was appointed as a Research Curator and Mr. R. Arnold as a trainee both positions commencing May 1, 1973. In September, 1972, Mr. P. Kipps was appointed by CUTA as an Assistant Curator in the McIntosh Gallery.

The University has also approved the use of the former Graduate Studies Portable as a temporary space for the gallery staff and the Resident Artist.

During the year the Curator served on the Executive of the Ontario Association of Art Galleries, attended the annual meeting of the Canadian Museum Association in Ottawa, and was recently appointed Vice-President of the London Art Gallery Association. He is presently Chairman of the University Art Committee.

The McIntosh staff installed fourteen art exhibitions in the gallery and arranged others in Somerville House, Stevenson Hall, the University Club, the Fine Art Building, Alumni Hall, the Weldon Library and the Social Science Building. Paintings were lent to the National Gallery of Canada and the Art Gallery of Ontario.

Attendance in the gallery generally increased but was notably affected by the programme of eleven films on art called "Museum Without Walls". This program is significant in being the first joint-sponsorship by the London Art Gallery Association, Fanshawe College and the McIntosh Gallery.

In January the Curator attended a meeting called by the new federally-conceived Canadian Conservation Institute to consider this group's possible location in Ontario. The Institute is considering this University as a permanent site for its operations in the field of conservation of cultural artifacts.

There were a number of visits by school groups from southwestern

Ontario and talks were given by the Resident Artist, the Curator and the Assistant Curator on the exhibitions.

Mrs. Kay Woods, Curator of the McLaughlin Art Centre, Oshawa, opened the Painters Eleven Exhibition in October and gave talks to the Fine Art students and the public.

The reframing and renovation of works in the collection has continued and a new program of placing framed reproductions on campus was instituted. Thirty-six reproductions have been framed and installed in the Social Sciences Building, Stevenson Hall, the University Club and the Business School with an additional thirty-six being prepared. The Curator served on art juries in Windsor and London.

Plans for the Visual Art Centre were completed in October 1972 but tenders were withdrawn and funds were temporarily frozen as a result of a decline in student enrolment. It is hoped that the expansion to the art gallery will proceed in the near future to keep pace with the increasing interest in art of not only the members of the University Community but the public at large.

Report of the Resident Artist - Claude Breeze - 1972-73

Claude Breeze was appointed Resident Artist in July, 1972. The Resident Artist held an "open house" in his studio each Wednesday afternoon and on several special occasions during evenings and weekends when out-of-town visitors were on campus.

There were a number of group visits to his studio by students and other members of the community, notably from the Kitchener-Waterloo Art Gallery, the St. Thomas Art Gallery and London Art Museum Women's Committee.

Slide talks were given on campus at the McIntosh Gallery, the Fine Art Department and the Department of Psychology. A lecture was also presented at York University to the Fine Art Faculty and students.

The resident artist was represented in a number of national group exhibitions and also held a one-man exhibition of his work in the McIntosh Gallery, (April 1973) and in the Marlborough Godard Art Galleries in Toronto and Montreal.

He served as a member of the University Art Committee and the Joint McIntosh Committee.

McINTOSH GALLERY EXHIBITION SCHEDULE: July 1972 - June 1973.

Selections from the University Collection	June - August 1972
New Additions to the University Collection Henk Bervoets: 212 Dundas Street	Sept.6 - Oct.1 1972
Painters Eleven	Oct.4 - Oct.22 1972
artario	Oct.12 - Oct.17 1972
Ms.	Oct.25 - Nov.26 1972
Lichtenstein and Johns	Nov. 29 -Dec.17 1972
Arlene Lundgren Portraits Maycock Paintings	Jan.10 - Feb.4 1973
John Esler Prints Stephen Greene Paintings	Feb.7 - Feb.25 1973
U.W.O. Fine Art Student Exhibition	Feb.28 - April 1 1973
Claude Breeze	Apr.4 - Apr.29 1973
40th. Annual Exhibition: Canadian Society of Graphic Art	May 4 - June 3 1973
Appel's Appels	June 8 - July 9 1973

McINTOSH GALLERY FILM PROGRAMS 1972 - 1973.Museum Without Walls Film Series on Art:

- | | |
|---|-------------|
| Picasso: War, Peace and Love
Goya | Nov.1 1972 |
| Giotto and the Pre-Renaissance
Crete and Mycenae | Nov.8 1972 |
| The Art Conservator
Kinetic Art in Paris
The Impressionists | Nov.15 1972 |
| Le Corbusier
The Greek Temple | Nov.22 1972 |
| The Cubist Epoch
Germany - Dada | Nov.29 1972 |

Metropolitan Museums Seminars in Art:

- | | |
|--|-------------|
| What is a Painting?/ Realism | Jan.16 1973 |
| Expressionism and Abstraction | Jan.17 1973 |
| Composition: As Pattern, Structure
and Expression | Jan.18 1973 |
| Technique: From Fresco to Printmaking | Jan.23 1973 |
| The Artist as Social Critic
The Artist as Visionary | Jan.24 1973 |

ACQUISITIONS 1972 - 1973.Purchases:

551.	PRATT, Christopher	serigraph 3/36 25-5/8 X 20-5/8 in. (McIntosh Fund)	Victoria Regina
553.	Kingmeata	stonecut 16/50 18½ X 20¼ in. (Univ. Club Fund)	Sentinel Bird
554.	Alashua	stonecut 23/50 14 X 23-1/8 in. (Univ. Club Fund)	Snowy Owl
555.	Ikayukta	stonecut 33/50 16-1/8 X 19-7/8 in. (Univ. Club Fund)	Dual Mask
556.	Anna	stonecut 35/50 16¼ X 24¼ in. (Univ. Club Fund)	Basking Seals
557.	Kingmeata	Stonecut 35/50 10-1/8 X 18½ in. (Univ. Club Fund)	Twin Ducks
558.	COLLIER, Alan C.	oil 16 X 20 in. (Medical School)	Seven Sisters Mountains
560.	Pitseolak	stonecut 19/50 15 X 17-3/4 in. (Univ. Club Fund)	Tunik Home
561.	Anirnik	stonecut 19/50 16-3/4 X 23-5/8 in. (Univ. Club Fund)	Shamans Dance
562.	Eegeevadluk	stonecut 19/50 18½ X 22-5/16 in. (Univ. Club Fund)	Composition
563.	Keeleemeomee	stonecut 19/50 11½ X 21 in. (Univ. Club Fund)	Walrus Hunter
564.	BIKKERS, Rudolf	serigraphs 28 X 22 in. (McIntosh Fund)	5 serigraphs dedicated to Shostakovich's Piano Quintet in G Minor Opus 57

(cont'd)

565. TROTTIER, Gerald oil Portrait of Dr. O.H. Warwick
59-7/8 X 47½ in.
(University Fund)
566. BICE, Clare oil Portrait of Capt. J. Jeffery
44 X 34 in.
(University Fund)
567. ESLER, John K. collograph 6/50 Calgary Horse #2
15½ X 21 in.
(CUTA Fund)
568. ONLEY, Toni silkscreen 6/20 Retreat
11-3/8 X 15-1/8 in.
(McIntosh Fund)
569. BREEZE, Claude acrylic Canadian Atlas: Slough
65 X 53 in.
(McIntosh Fund)
570. BREEZE, Claude conte pencil Canadian Atlas: Slough
17 X 14 in.
(McIntosh Fund)
571. HERBERT, Barry silkscreen 4/4 "416"
20¼ X 28-3/4 in.
(CUTA Fund)
572. HERBERT, Barry silkscreen 4/5 "525"
19-7/16 X 28½ in.
(CUTA Fund)
573. DRUTZ, June silkscreen 10/20 Autumn Seeding
23-3/16 X 13-5/16 in.
(CUTA Fund)
574. SPIERS, Raymond aluminum Modular Sculpture No.1A
12 modules ea.
30 X 30 X 15 in.
(Alumni Fund and Weldon Fund)
595. DYER, Marylin lithograph A/P Month of Trees
26¼ X 19¼ in.
(Spencer Hall Fund)
594. BOYLE, John serigraph 66/80 Untitled
20 X 26-3/8 in.
(Univ. Club Fund)
596. ROSS, Christine etching 2/25 A Ballad of Trees
23-5/8 X 17½ in.
(McIntosh Fund)
597. MAYCOCK, Bryan lithograph Up and Over
19½ X 19 in.
(Univ. Club Fund)

(cont'd)

598. BIKKERS, Rudolf serigraph 61/65 Untitled
25-3/16 X 18-3/4 in.
(McIntosh Fund)
599. MANNING, Jo etching 11/50 Image Three
19-3/16 X 15½ in.
(McIntosh Fund)
600. TOLMIE, Ken lithograph 16/200 Animalia
12-9/16 X 21 in.
(Univ. Club)
601. RISSER, James intaglio/relief Waiting for Han-Shan
13¼ X 13½ in.
(McIntosh Fund)
602. NAWARA, Jim cliche verre Horseshoe Mound
14-1/16 X 18 in.
(Univ. Club Fund)

Gifts to the University:

545. Lucy stonecut 9/50 Gathering of Birds
13½ X 17 in.
**gift of Mr. C. Torno, Toronto
550. KARSH, Joseph photograph Portrait of Professor
23¼ X 19¼ in. Walter A. Thompson
**gift of the Business Conference Committee, U.W.O.
559. BROWN, Ann metal Head, Heart and Hand
42 X 42 X 3 in.
**gift of Dr. D. Wilcox

DEPARTMENT OF ALUMNI AFFAIRS

Report of the Director

NIGEL BELLCHAMBER

The 1972-73 year was one of change for the Department of Alumni Affairs.

The first half year saw Evan Browne as Acting Director, ably assisted by Doreen Burr, managing the responsibilities of the Department. Nigel Bellchamber was appointed Director as of January 1, 1973, becoming the first full-time director since the University assumed full budgetary responsibility for the Department.

Nearly 5,000 new Alumni were added to the files in 1972, and mailings were well over the quarter-million mark. The University's administrative computer facility now provides all mailing addresses by means of an improved machine-based Alumni Records System.

The year end also saw the retirement of Dr. James (Jimmy) Burns as part-time Associate Secretary of the Alumni Association. Dr. Burns joined the Department in 1965 to help out temporarily, and stayed eight years. Both the Department and the Alumni are truly grateful for Dr. Burn's help and support.

The Alumni Gazette, continuing under the editorship of Evan Browne, underwent another format change which will allow publication four times yearly, rather than three. The magazine was accorded distinction in that the article "Intermediate Technology for Developing Nations", published in the Fall 1972 issue, was reprinted for use by the International Development Research Centre of the Canadian Government.

The Alumni Association elected as its President, for 1973-74, Mr. Donald Coleman, to succeed Dr. Robert Collyer. Fred Brown of Strathroy and Gordon Whitehead of London are first and second vice-presidents, respectively.

During 1972-73, the Association continued its work in the areas of Native Peoples Studies and Cultural Development. The Festival of Arts which embraced music, performing arts, visual arts, and film attracted 114 patrons. The Royal

Winnipeg Ballet and Peter Nero were co-sponsored with the Great Artists Concert Series and a unique Festival of Non-existent Canadian Films, inspired by Dr. Jack Walters, was presented on campus in February.

Shortly before the end of the year, the 1973-74 Alumni Executive Council adopted plans to conduct an opinion survey of its membership, and also to investigate making the Council membership more representative of alumni on a geographic basis. Results in both areas are expected before the end of 1973-74.

These plans were the result of the Association's 6th annual Alumni Live-in held at the Saugeen-Maitland residence. Out-of-town delegates were in attendance from as far away as Thunder Bay.

Alumni Branches in Windsor (Essex County) and Elgin County both held highly successful events, with new interest in branches being stimulated through visits by Nigel Bellchamber and Gerry Roberts of the Registrar's Office, to centres in Northern Ontario. 1973-74 is expected to show greater branch activity as a result.

DEPARTMENT OF UNIVERSITY RELATIONS AND INFORMATION

Report of the Director

L. T. Moore

Significant changes took place in the Department of University Relations and Information during the past year. With the appointment on October 1 of L. T. Moore as Director, succeeding Mrs. Doreen Sanders who had been Acting Director since G. Campbell McDonald left to join the Premier's staff, the name of the department was changed from the Department of Information Services and University Publications to the Department of University Relations and Information.

One of the major undertakings of 1972-73 was the replacement of the U. W. O. News with a tabloid newspaper, Western News, which first appeared on November 16. This new publication, published weekly during the academic year and fortnightly during the summer, was broadened to provide more comprehensive coverage of university events, including reports on Senate, Board and U.S.C. meetings. With its larger format, Western News also carried feature stories, news about university affairs generally, and an expanded "Coming Events" section. Another innovation was the establishment of a "Dialogue" column and letters to the editor column to act as a forum for campus opinion. With the introduction of Western News, Western Times, edited by Dr. A. G. R. Sweeny of the Registrar's Office, ceased publication and the new tabloid began publishing Senate minutes in its Gazette section. Unlike its predecessor, which was primarily a faculty and staff publication, Western News

is intended for the entire university community. To facilitate distribution, some 30 pickup boxes were established around campus and at affiliated institutions. Circulation for Western News at year end was close to 10,000, as compared to slightly under 3,000 for the U. W. O. News. In addition to campus distribution, copies were also sent each week to leading industries and firms in the city, and a further 400 distributed to interested citizens through the London Public Library and Art Museum through the main library and its branch libraries.

Alan Johnston, an editorial writer with the Kingston Whig-Standard, was appointed Editor of Western News on November 6. Miss Susan Boyd, a 1972 diploma graduate from the U. W. O. journalism program, joined the department on October 24, assuming the dual role of Reporter for Western News and Information Officer. Towards the end of the year, the Western News staff was further strengthened with the appointment as Assistant to the Editor of Randy Denley, a 1973 honors journalism graduate of U. W. O.

While much of the time and energy of the DUR I staff was devoted to the development of Western News, the department continued to develop its external information program and during the course of the year issued a large number of press releases on major news events taking place at Western. The staff also handled numerous requests from news contacts for information about the university. As well, the Director provided assistance to senior administrative officers on the handling of public relations problems and the preparation of public

statements. The department also developed its photographic files and provided many departments with photographs for use in publications and displays.

Publications Coordinator John G. Campbell assisted faculties and departments in the production of a large number of publications, ranging from calendars and Convocation Programs to brochures and posters. Working with Dr. R. N. Shervill, Executive Assistant to the President, Mr. Campbell also helped with the production of the President's Reports. He also assisted the Faculty of Nursing with the production of a history of the School, "People and Ideas, Nursing at Western, 1920-1970", by Hendrik Overduin, which was issued in early spring.

As part of its community relations program, DUR I also mounted a university display at the Western Fair. This successful exhibit was organized by Dale Bronson, a student working part-time with the department.

Members of the department were active during the year in a number of organizations: Mr. Johnston in the London City Press Club and Corporate Communicators of Canada, and Mr. Moore in the Chamber of Commerce. Mr. Moore was also elected Ontario director of the Association of Canadian University Information Bureaux at the annual meeting in November.

The department wishes to acknowledge with gratitude the cooperation and assistance which it has received from all sectors of the university,

INDIAN ARCHITECTURE AND ARTS

REPORT OF THE HONORABLE MEMBER

1887-88

in particular from its information liaison contacts whose news items and leads contributed greatly to what success Western News enjoyed in its first year.

The Government has been a co-operation project in 1905, British and British a number of other in a part of a large recreational area, some miles north-west of London, on the banks of the Thames River and a few miles east. The land and the objects that were made available for large numbers. The interest of the University was in special students and students, and for the general population of this large city.

The University was then in possession of a large collection of printed articles which are necessary to the history of the area. Some of these articles and books were created, but through the process in a number of studies, including in the course of a number of years, including in Western Canada. Special attention has been given to the history of early architectural styles.

I have been my privilege to plan and execute the project. Most of the articles that formed the building were acquired by my father and myself as we worked the extensive base of the area for related material as well as the history. In these articles, the historical buildings were still on the site and not-located architectural measurements and other items had made by the original project were common in old houses and other parts. They were paid

INDIAN ARCHAEOLOGY AND PIONEER LIFEREPORT OF THE HONORARY CURATOR

DR. W. W. JURY

In 1958, the University of Western Ontario and the Upper Thames Valley Conservation Authority entered into a co-operative project to build, furnish and develop a pioneer village as a part of a large recreational area, seven miles north-east of London, on the banks of the Thames River and a man-made lake. One hundred and twenty-five acres were set aside for future expansion. The interest of the University was in visual education for schools, and for the general population of this fast-changing area.

The University was then in possession of a large collection of pioneer articles with no adequate space for display or storage. Since the first log cabin and barn were erected, the village has grown to a complex of nineteen buildings in the setting of a typical four-corners settlement of Western Ontario. Special attention has been given to demonstrate the trend of early structural styles.

It has been my privilege to plan and supervise the project. Most of the articles that furnish the buildings were acquired by my father and myself as we combed the concession lines of the area for Indian material as early as the 1920's. In those years, the original families were still on the land and out-moded agricultural implements and tools, often hand made by the original pioneer were common in old homes and farm yards. They were prized

by the owners who were grateful to find a permanent home for these family heirlooms where they would remain in the district and be cared for.

Some of the buildings were removed from the Authority property, some were moved from neighbouring communities, and some have been reconstructed. Early businesses and industries of the area are represented - the first Free Press printing establishment, Soper's gun shop, Rigney's harness shop, Thomas Alder's weaving shop, Saunders' carriage works, McClary's stoves, among others. Senator Little's family carriages number over thirty and London's first fire reel is in the reconstructed fire hall.

In the past summer [1973], some 30,000 persons visited the village, including 11,000 school children. New buildings are underway - a log school and the rebuilt brick Pond Mills School, the Jury home - and we look forward to larger attendance in 1974.

Many years ago, scale models of pioneer scenes were made by my father and myself to illustrate the surroundings and the manner in which the early tools and implements were used. The scenes, together with the model Indian village displayed in Middlesex College have always attracted considerable attention.

However, a new interest has been noted of late as students of fine arts, architecture, history and other fields from this University and from

other Universities come to examine, measure and photograph the various features in the displays. Requests are received by mail for relevant information and illustrations. Our research files and archaeological maps are examined in detail by students of wide-ranging interests. This is a result of the introduction of new studies into the Canadian past by various branches of the arts and sciences.

The gun collection is one of the assets of the University. Many visitors are attracted and some students are almost constantly viewing it. Persons with an appreciation for skilled workmanship and artistry are fascinated. This collection represents important phases in the development of the area, in procuring food, in the various wars, as protection in early years, and as sporting pieces. Several of them were owned by distinguished persons in the district.

Since the Department of Anthropology has been established, the Indian artifacts that are not on display, have been turned over to the Department for study purposes.

The Ray Lawson Indian village site, donated to the University by the Lawson family, has been fenced and plans are underway to develop it as a practical teaching site for field work for students of archaeology at the University. It is hoped that a suitable building may be erected for instructive displays. The National Museum of Canada has promised that if adequate housing is provided, the material excavated on the site by the Museum some years ago, will be returned on a permanent loan basis.

If the Lawson site project develops, it will not only be a decided advantage for archaeology students but will be an important contribution to the study of native life in this area, available to teachers, school classes and the general public.

Your curator continues to serve on the Upper Thames Valley Conservation Authority and the Archaeological and Historical Board of the Province of Ontario. A paper entitled "Copper Cache at Penetanguishene, Ontario" has been recently published in the Wisconsin Archaeologist, Milwaukee, Wisconsin.

DEPARTMENT OF INFORMATION ANALYSIS AND SYSTEMS

Report of the Director

MR. B. G. HARTWICK

The 1972-73 Academic Year continued the pattern established in the preceding year wherein the demands for services from all parts of the Campus exceeded available manpower.

1.) Systems Group:

- Redesigned and reprogrammed the Fees Receivable System.
- Implemented in one-third of the time required for any comparable North American system, a Student Scheduling System which successfully met its design criteria and objectives.
- Assisted the Library in implementing their Government Documents Project and in expanding the base of their automated circulation control system.
- Extracted the Cost Ledger from the Financial System in order to provide the Department of Physical Plant with greater control over their operations reporting and to decrease the machine resources required to process the Financial data base.
- Redesigned and reprogrammed the Salary Budget Model for the Department of Financial Planning and Budgeting and successfully linked the model to the live employee data base.

Systems Group: (continued)

-Continued the conversion of all existing COBOL programmes to the national standard - ANS COBOL.

2.) Operations Group

-Implemented VM370, a relatively new concept in Operating Systems, as one of the pioneer installations in North America.

-Created under VM370, simulated DOS Batch, DOS TP and OS machines to improve overall productivity and provide a test facility for an Operating System conversion.

-Introduced a "spooling" environment to alleviate printing bottleneck and increase throughput.

-Modified access methods to take advantage of 3330 disk drives and thereby release rented 2314 drives.

-Conducted several studies to improve the balancing of the system, review operating procedures and examine special facilities such as Data Base Management Systems.

3.) Analysis Group:

-Guided a study of printing and copying facilities on campus to a successful conclusion, resulting in significant decision making data for management and a saving potential, without a reduction in service, estimated to be in the order of \$250,000.

Analysis Group: (continued)

- Co-ordinated the formation of a consolidated keypunch group comprised of personnel from several administrative departments. Significant savings have resulted, while improved productivity measures and controls have increased throughput.
 - Conducted several studies of varying dimension to improve procedures and productivity in the clerical functions of Faculties and Administrative Departments.
 - Launched a successful forms design and control programme which is resulting in dollar savings as well as productivity increases for the University.
 - Conducted studies into student attrition, performance and intake.
 - Participated in the data analysis required for the planning models being developed within the Department.
 - Continued to improve the B.I.U. analysis techniques as well as interact extensively with M.C.U. with suggested improvements for their enrolment reporting procedures.
 - Produced Mini-Facts as a concise overview of public data pertaining to the Campus.
 - Increased the amount of interaction with Faculties in terms of general analytical services.
-

Analysis Group: (continued)

- Implemented two models to assist in long term planning as well as integrate fiscal and academic planning. The Cost Estimation Model and the Resource Requirements Prediction Model convert enrolment forecasts into resource requirement forecasts such as student loads, faculty, staff, dollars and space.
- Developed a Library planning model which will assist the Library to establish the unit costs of the various library functions and the relationship of these various functions to the Library's programmes.
- Implemented a Student Flow Model which forecasts enrolment, and B.I.U. revenue by programme and year and also permits simulation with various parameters such as admissions, attrition, government policies, etc.
- Introduced an Induced Course Load Matrix system which examines course registrations in order to illustrate historical relationships between degree programmes and teaching centres as well as forecasting the workload implications for the teaching centres.

In summary, the 1972-73 Academic Year was both busy and productive. The mechanical reliability of the 370/145 Computer was clearly established and those large systems which are

THE DEPARTMENT OF FINANCIAL PLANNING AND REPORTING

REPORT ON THE FINANCIAL

pending major re-development were successfully patched and coddled to serve still another year.

The problem of retaining qualified personnel remains with us due to the competitive pressures of an expanding industrial economy and a stabilizing educational environment. This situation and its implications for staffing are likely to pertain for the foreseeable future.

The 1972-73 budget was a constant state of change until the Restructuring Report was presented to Senate and the House of Commons in December 1971. In the spirit of flexibility within the availability of funds, and in order to realize "the extra 10%", there were many discussions with Deans and Secretary Unit Heads. Most of the major adjustments, over 400 hours reduction, were done in 14, but approximately 2000 hours of status were provided in January in return of all over the previous year.

It is evident that certain key areas the value of some positions are in major transition from the golden years of growth, to the uncertainties of continued "over" production and the slowing of enrollment. The Senate Budget and Finance Committee introduced "this year" measures tentatively for the 1973-74 budget year, and this was followed by a decision by the Ministry of Culture and Education, so that all major expenditures by this office v.s. during the previous year's enrollment to determine

THE DEPARTMENT OF FINANCIAL PLANNING AND BUDGETING

Report of the Director

MR. A.S. DOBBINS

1972-73 will be remembered as the year of the Budget "freeze, cut, squeeze, and voluntary restraint." Early indications of a dramatic drop in enrolment over the projections for September 1972, led to many sessions involving this Department, to determine what course of action should be followed. The resultant budget adjustments in several stages, and the operation of the Appointments Review Committee until the end of November 1972, placed an unusually heavy load on the Department at a time when data was also being assembled to assist the Senate Budget and Finance Committee in preparation for the 1973-74 Budget process.

The 1972-73 Budget was in a constant state of change until the Restructured Budget was presented to Senate and the Board of Governors in December 1972. In the spirit of flexibility within the availability of funds, and to assist in finding "that extra 1%", there were many discussions with Deans and Budgetary unit heads. Apart from the major adjustments, over 400 Budget Transfers, and, close to 14,000 Appointment Forms and Changes of Status were processed - an increase in volume of 25% over the previous year.

It is evident that Western has joined the ranks of those universities who are in rapid transition from the golden years of growth, to the uncertainties of continued "cost push" and the slowing of enrolments. The Senate Budget and Finance Committee introduced 'slip year' financing internally for the 1973-74 Budget Model, and this was followed by a decision by the Ministry of Colleges and Universities, to fund all Ontario universities by this method i.e. using the previous year's enrolment to determine

the current year's grant, providing more lead time for response to any decline in revenues due to shortfalls in enrolment. We have survived the first onslaught of declining revenues, mainly through the medium of across-the-board cuts. While on the surface, this would appear to be an equitable approach, it does not recognize that Faculties are being effected differentially by changes in student preference. Available resources must be distributed to the best advantage, consistent with the objectives of the institution. More sophisticated techniques are presently being studied, in a search to provide the Senate Committee on University Planning, the Senate Budget and Finance Committee, and the Office of the President with more data upon which to formulate improved methods of resource allocation, sensitive to enrolment changes in total and between Faculties. This, and the development of Multi year Financial Planning models are two basic objectives of the Department.

The Department continued to work closely with the Director and Managers of Ancillary enterprises such as Residences, the Bookstore, Food Services, the Animal Laboratory, Boundary Layer Wind Tunnel, Machine Shops, Technical Services, Printing Services, Student Health Services, and the University Community Centre. Considerable time was spent in financial analysis of the Residences and Food Services, when it became evident from projections that substantial deficits were possible in those areas, due mainly to rapid escalation of food costs without adequate revenue increases. Working with the Senate Sub-committee on Residence Operations, the Co-ordinator of Student Services, the Director of Housing, the Director of Food Services and the Director of Physical Plant, the Department developed proposed meal plans and appropriate Residence rates which were subsequently approved for 1973-74. Financial data collection and analyses were also provided to the consultants who were retained to assist in the identification of areas where Food Services costs could be reduced.

The Department continued to monitor the "cost centre" based, financial record system in Student Health Services, assisting in faster and greater recoveries of claims from the Ontario Health Insurance Plan and other sources. This new system appears to be working well, and providing the financial management information required by the Director.

In addition to the provision of support to the Senate Budget and Finance Committee, the Department provided financial data to the President's Advisory Committee on Salaries and to the meetings with the Salary Committee of the Faculty Association. Salary discussions were completed on 25th April 1973, with the signing of a Memorandum of Agreement, and the Department was then faced with the implementation of the salary adjustments to be effective 1st July 1973. These had to be on the data file no later than 15th June 1973 to allow the Payroll Department to conduct the necessary tests. This extremely tight schedule was accomplished through the dedication of the staff and systems support from D.I.A.S.

Through the U.C.C. Finance Committee and the Executive Director, assistance was provided in the preparation of budgets and monthly cash flow forecasts. This took considerable time as bank interest rates changed rapidly upwards creating a greater strain on the forecasted revenues for U.C.C.

With the Province's moratorium on Capital projects, and the transfer of the preparation of monthly Capital statements to the Office of the Comptroller, activity in this area lessened during the year. Capital cash flow forecasts are however still prepared in consultation with Physical Plant. A proposed Recreational and Athletics Building was reactivated by a student referendum to support the capital and operating costs of such a Building by a

\$7.00 activity fee, provided construction was started in 1973. The Department formed part of a Task Force set up to report on the probable financial operation of such a building. Members of the Task Force visited similar facilities in Canada, and the United States, and obtained financial data on others. The report of the Task Force is to be considered by SCUD, the Senate Budget and Finance Committee, and the Board of Governors, before any decision is made to proceed with the project.

During the year, a combined Documentation and Payroll section was established in the Personnel Department, through the transfer of the Payroll Department from the Office of the Comptroller and one clerk from the Department of Financial Planning and Budgeting. It is anticipated that this consolidation of the coding and payroll function will result in a more effective handling of data, with economies in staff.

The ability of the Department to cope with a most difficult year was due, in large measure to the performance of all members of the staff. Without their dedication and concern, it would not have been possible.

Personnel Department
Report of the Director
W. F. Trimble

For several years the internal growth of the Personnel Department has permitted the improvements to those personnel functions essential to the operation of the University, London's largest employer, and the continued development of new services for the benefit of both faculty and staff.

This year proved to be no exception.

On the first of January, the Payroll Section of the Office of the Comptroller transferred to the Personnel Department. This merger was undertaken with the expectation that increased efficiency and service to faculty and staff would ensue at less cost to the University.

As the year ended, two new sections emerged within the Department - Safety and Training. R. B. Totten was promoted to the position of Assistant Director - Safety, Training and Employment and, as part of his new function, became responsible for the development in these two areas.

Throughout the year various members of the Department met with a small group of administrative personnel selected from within the University community and from these meetings evolved a set of seventeen Personnel Policies. These policies have progressed through most of the steps of the approval process and should probably become official early in the new year.

Reports from each of the major sections of the Department follow.

Benefits

The development of a computerized Benefit Costing system was one of the highlights of the year for the Benefits Section of the Department.

The data generated by this system will permit more accurate reporting of the costs of each fringe benefit by individual, department, faculty or University as well as the flexibility to measure the economic impact of adjustments in premium, coverage or contribution levels.

A report on the group benefits programme was prepared by Wm. Mercer Limited, the University's benefits consultants. Observations in the report touched on financial competitiveness of the underwriter, adequacy of the benefit levels, possible impact on the plans by proposed government legislation and various contract interpretations. The report will be studied in the new year by a small committee of faculty and staff members.

Once again, the section was heavily involved in benefits, disability and retirement counselling both on an individual and group basis.

Compensation

Continuing operational problems again absorbed a considerable portion of the Compensation Section's activity throughout 1972-73, particularly during the first four months when a staff service was provided to the Appointments Review Committee.

The progress with the second phase of the Hay programme was such that its implementation was effected for about half of the positions concerned by the year end. It is anticipated that by October 1, 1973, all positions involved in the study will have been evaluated and salary adjustments made where warranted.

The development of new or improved forms and procedures also received attention in 1972-73. Although not yet in formal use, the new Position Description

Questionnaire, for example, had been tested on a variety of positions, and will hopefully be introduced in 1973-74.

The development of a new classification and salary plan for Key Punch Operators was completed and implemented in 1972-73. It is hoped that this plan will provide for greater salary equity within the University, as well as meet the demands of the external competitive market.

Employment

The activities of this unit are best assessed through statistical analysis. Of the 1731 employment interviews conducted, 659 applicants were referred for positions in the University and 318 were hired.

Once again this section, in conjunction with the Community College and the Secondary Schools, arranged for 62 commercial and secretarial students to be employed for one week work assignments at the University.

Of 204 termination interviews conducted, 54 involved the phasing out of positions within the University. The employment section, through its efforts within the University and with local employers, was successful in relocating most of the persons affected into suitable positions elsewhere.

Labour Relations

Three events were of particular note during 1972-73:-

July 6, 1972 - After four years, during which two, two-year contracts were negotiated, the Canadian Union of Operating Engineers was decertified. Of the ten persons in the unit, seven voted against continued representation by the Union.

August 22, 1972- The International Union, United Plant Guard Workers of America was not successful in its attempt to organize the

security guards on the campus. The results of the vote indicated that 12 of the 15 employees involved voted against the union.

Feb. 19, 1973 - In a vote conducted by the Ontario Labour Relations Board, the non-professional staff of the University Library System cast 138 ballots against the bid by the Canadian Union of Public Employees to represent them in their relations with the University, while only 96 were marked in favour.

Payroll

For the year 1972-73 the University paid \$47,082,590 in gross salaries to a total of 11,015 persons. Of the 86,401 transactions 38,697 were deposits while 47,704 cheques were issued. Over 10,000 T4's were issued in January.

As mentioned earlier, the Payroll Section merged with the Personnel Department on January 1, 1973. Not only have savings occurred in paper and filing costs, and in the requirement for physical space, but efficiency and service to the faculty and staff have increased.

Library Personnel Office

The Library Personnel Office provided personnel services to the library system "on the site" and assisted in developing library personnel policies in keeping with the University practice.

About fifty support positions were re-evaluated and half the positions examined remained in their current classification while about 30% were reclassified upwards.

The quality of applicants referred for support staff positions in the

Library increased considerably. Recruiting was aided by an aggressive campaign through local secondary school guidance directors to acquaint them with the job opportunities available in the University Library System.

An information programme began late in 1972 for all current support staff to better acquaint them with the University Personnel Policies and Benefits. Personnel staff met with all departments in the Library system and published information on benefits and appropriate legislation in the Library Information Sheet.

In the spring of 1973 an orientation programme was begun where new staff are given more detailed information on University policies and benefits.

Physical Plant Personnel Office

The Physical Plant Personnel Office has provided assistance to both supervisory and non-supervisory staff of the Department in the clarification and interpretation of working conditions and personnel policies.

Managerial staff receive regular information aids (absenteeism analysis, lost time/medical aid reports, etc.) from the Personnel Office to assist them in their operations and an advisory role to senior management has been assumed relating to staff disciplinary cases.

The selection/placement procedure, was revised internally to provide the user with quality applicants at minimal inconvenience. A workpool of students was established to reduce administrative costs associated with securing part-time and temporary labour.

Group orientation sessions were instituted for new caretaking staff at which University personnel policies, benefits, and Departmental working conditions were communicated. Regular counselling discussions, most of a problem-solving nature, are held with staff members.

PHYSICAL PLANT DEPARTMENT

Report of the Director

R. M. Yeo

The period covered by this report will be long remembered as the year of the cutback and of the moratorium. The cutback resulted from the reduction in the operating funds allocated to the Department and the moratorium was the Ministry of Colleges and Universities' action in the capital funding area. The Physical Plant Department felt the affect of both in each of its major organizational divisions. In addition, the reduction in operating funds available to the University curtailed the allocations to alterations and renovations which in the past had maintained a substantial work load within the Department.

To adjust to the situation, staff reductions of 62% in the Project Planning and Construction section and of 55% in the Engineering and Architectural Services section were implemented. In numbers, 15 of a total of 26 positions in the two sections were phased out involving personnel with service up to 16 years and varying in skills and training in the professional, technical and secretarial fields. Several of these persons were redeployed in other positions within the Department which had become vacant by attrition. Assistance to find employment was made available to the others.

The largest section of the Department, the Operations and Maintenance section, accounts for 90% of the employees in the Department. Some 65% of the operating budget is expended in salaries. The non salary items include utilities, heating fuel, telephone rentals, etc. These may be termed as fixed costs as their usage cannot be significantly controlled nor can the purchase price be bargained for with the suppliers. Reduced operating funds on a per unit of operated area basis therefore dictated a significant reduction in labour expenditures per unit of area operated.

In one sense it was fortunate that the timely completion of several major building projects allowed reductions through reassignment of employees rather than through terminations on a broad scale. It was estimated that to stay within the reduced budget funds there were 50 less employees in the Operations and Maintenance section than would have existed under former standards.

At the end of the period the 526 regular employees in the Department were distributed as follows:

Director's Office	4
Engineering and Architectural Services	8
Operations and Maintenance	480
Project Planning and Construction	3
Reservations Office	4
Security, Parking and Traffic Services	27

Operation and Maintenance

To stay within the reduced operating funds the Department found it necessary to perform its assignments more efficiently and to reduce standards in all phases of operation and maintenance. Even though there was a 15% increase in the effective area, substantial increases in utility rates and increased labor rates expenditures were held to a 7% increase over the previous year.

Substantial reductions in caretaking costs were effected by:

- rescheduling of major cleaning to night shift
- reduced cleaning frequencies in a majority of areas
- improved cleaning methods

Reduced repair maintenance costs were effected by:

- deferment of maintenance programs which were not essential to the preservation of the physical structure or equipment
- improvement in effective scheduling of manpower

Grounds costs were reduced by:

- reduced standards of maintaining grassed areas
- reduced program of snow removal
- deferment of other than essential repairs
- introduction of improved methods (machinery)

The CONSERVE program was initiated to reduce the consumption of utilities through the involvement and the support of users. As well, the program involved the reduction of lighting levels where such a reduction did not produce an unacceptable effect. We received excellent cooperation from the University community and it was estimated that savings in excess of 5% (\$50,000) of energy costs resulted.

In other functions provided by this section of the Department restraints were applied to limit the services to the more essential needs rather than to respond to pressures for escalation.

Special Events

The Reservations Office handled 4,934 special space applications for events which had total attendance figures of over 707,000. Of these totals 1,324 events were arranged for non university organizations with attendance figures amounting to 276,000. The figures indicate the substantial use of University facilities by the general community. The use of University facilities by outside organizations increased by over 12% from the previous year.

Planning and Construction

At the beginning of the period Physical Plant was actively engaged in various stages of planning for projects amounting to \$17,000,000. Included in this total were the following major projects.

- Lawson Building Renovations
- Recreational and Athletic Building
- Chemistry Building Addition
- Visual Arts Centre
- Health Sciences Additions
- Biology-Geology Building Addition

The Animal Quarters phase of the Health Science additions had been tendered separately in the previous year. The government funding was deferred at that time and a contract had not been finalized. The Health Science project in the above list included a scaled down Animal Quarters phase reduced in estimate from \$950,000 to \$750,000.

In October 1972 tenders were called for the Lawson, Recreational and Athletic, Visual Arts and Health Sciences projects. The notice of the moratorium was received and with the exception of the Health Sciences project the tender calls were cancelled.

The Health Science tenders were received and the total project cost was within the established funds. However, funding was not approved and a contract was not let for the project.

At that time the planning for the Chemistry Addition had been completed and was scheduled for tendering in February 1973. The planning for the Biology project was 90% complete and was to be tendered at the same time. Work on both of these projects was stopped.

The Lawson renovation project was put back into planning on reduced program. The redesign was tendered on January 25, 1973 and a contract let to John Hayman & Sons Co. Ltd. on February 2, 1973. The total project cost had been reduced by \$300,000 in the redesign to \$790,000. When this project is complete in September 1973 it will accommodate, along with the previously completed Stevenson-Lawson Link Building and the renovated Stevenson Hall, the central administration offices.

Projects completed and occupied during the period were the Social Science Centre, Phase II of the University Community Centre, Natural Sciences Library Addition and Stevenson Hall Renovations.

During the year a number of miscellaneous projects were handled by the Department, among which were the following:

Steam services to south campus	\$275,000
Althouse College of Education Air Conditioning	1,015,000
Development of West Campus	256,000
Site Services for Health Sciences	260,000
Engineering Study of Campus Air Conditioning	35,000
Central Utilities Control System Study	20,000
Central Fire Alarm System	20,000
Capital Alterations 1972	415,000
Social Science Parking Lot	88,000
Major Road Reconstruction	54,000
Facilities for the handicapped	10,000
SUTSA special alterations	230,000

In September 1972 the temporary building in front of University College which had been labeled the "Eyesore" was removed. Disposal was by means of sale by tender.

At the end of the period the result of the Ministry's moratorium on capital expansion was evident. The only major construction on campus was the Lawson renovation project. Work on the West Campus Development, the Social Science parking lot and in the alteration program was under way, but, with the exception of minor clean up of deficiencies in other projects, Western's space expansion had stopped. In the 10 year program expenditures amounted to \$83,380,000 from all sources and the campus grew from 1,280,600 to 4,685,500 gross square ft.

DEPARTMENT OF SPACE ANALYSIS AND PLANNING

Report of the Director

MR. H. J. SCHULZ

The 1972-73 reporting year was an extremely active and interesting period for the Department.

During the period from July 1, 1972 to December 31, 1972, we coordinated the moves of the Faculty of Music and Faculty of Social Science into their new buildings; the occupancy of the University Community Centre by the different users; and the relocation of many departments, especially in the Faculty of Arts. This was the largest move in the history of the University. The physical moving of furnishings and equipment was programmed and coordinated in cooperation with the Department of Physical Plant.

A consequence of the various physical moves was the updating of the space inventory files to reflect changes in the use of existing space along with the addition of new rooms to the file. Nearly ten thousand records were either changed or added to the space file.

As the planning for new buildings proceeded, data concerning these new facilities were incorporated into the space file so that information would be available to all those requiring it.

The provincial moratorium on Capital Projects shifted the emphasis from new projects to existing buildings and the department was heavily involved in the analysis of the space requirements of academic and administrative departments and the utilization of existing space.

The Senate Committee for University Development established the new Sub-Committee on Space Norms and Allocations, (SUSNA), with the objective of developing an internal Space-By-Function Formula for the distribution of space to the different components of the University. Based on the research work undertaken by this Department, this Space-By-Function Formula was developed by SUSNA and adopted by SCUD in May, 1973. This is the first time that the University has adopted any space requirement formula.

The Department provided the secretary to SUSNA as well as to SUTSA, (Sub-Committee on Temporary Space and Alterations), and monitored the expenditures under the SUTSA Budget.

The Director continues to serve as a member of several COU Committees on space proposals within the Ontario University System.

COORDINATED STUDENT SERVICES

REPORT OF THE COORDINATOR

T. L. HOSKIN

The student services in this report are administered by the Coordinator who is responsible for their organization, administration and supervision. Although the nine departments are sufficiently different to justify their functional separation, it is clear that they are not disparate services, but are in fact complementary, requiring close liaison for optimum effectiveness. Recognition of this was formalized on July 20, 1972 when the Board of Governors on the recommendation of the Senate approved the appointment of T. L. Hoskin, M.A., formerly Dean of Men, as Coordinator of Student Services.

It will be clear from the activities described in this report that the services are designed to help students to come to the University, to stay here, and to take the optimum maximum advantage of the opportunities for academic and personal growth while they are on campus.

As in any age group, students from time to time are faced with one or more of a wide range of problems which can influence adversely their efforts to achieve at a level commensurated with their ability. In extreme cases, these problems can result in a student's failure or withdrawal.

After informal discussions with the Vice-President (Academic), the Deputy-Registrar and the Coordinator were invited to attend a meeting with the Academic Deans to discuss ways in which more effective procedures, and closer liaison, might help to eliminate some of the problems affecting enrolment. Following this meeting early in the fall term, the Deans of Arts, Engineering, Natural Science, and Social Science invited the Coordinator to a faculty meeting to introduce the senior personnel in student services, and explain their role. The importance of identifying students with problems, before they become problem students and withdraw from the University was emphasized at these meetings. This kind of cooperation is very much in the interest of the University as well as the student.

The Coordinator wishes at this time to express very sincere appreciation to the Office of the President, the Senate, the various faculties, and the students for their interest and assistance in establishing effective lines of communication which are so very important in meeting the exigencies that can arise in the kind of role assigned to Student Services.

HEALTH SERVICES

Dr. H. John Thurlow, Director of Health Services, reports that during the year several innovative programs were introduced into Health Services, based largely on the report from student government, "The Interim Smith Report". Full-time physicians were employed in the medical area to provide a 24-hour physician availability 365 days a year. Some students were seen by appointment and some without appointment. More than 150 students a week used the 'appointment service'. A Public Health Nursing Service was added through the co-operation of Dr. Hutchison, the Medical Officer of Health. The Staff/Faculty Health Service was inaugurated, in Somerville House, attended by Mrs. K. Halliday, R.N. This service already has approximately 1,000 visits a year, one-third being related to occupational disorders. In addition to providing first aid and referral services, the Staff/Faculty Health Service in co-operation with the Personnel Department is becoming increasingly involved in Workmen's Compensation problems. A formal 'athletic injuries service' was inaugurated in the Thames Hall area under the direction of Dr. J. C. Kennedy, with 338 students seen and 811 visits taking place over the winter intramural session.

Besides those noted above, other areas of health services include the Medical Centre and Health Counselling Centres in U.C.C., the Gynaecological service under the direction of Dr. A. A. Yuzpe (using the Medical Centre facilities in the evenings, representing 1,033 appointments), the Althouse College nursing service attended by Mrs. E. Ryckman, R.N., (1,800 visits), and the 'allergy/immunization service' which has almost become a unit of its own within the Medical Centre.

The Medical Centre was used by 9,464 students over the year, representing 27,446 visits, added to which are 3,200 allergy and 700 immunization injections. During the winter intramural session there was an average of 130 to 200 visits per day. The waiting time was analyzed through the co-operation of DIAS: over 98% of students were attended within less than one-half hour and the approximate average waiting time was eleven minutes.

The Health Counselling Centre was utilized by 440 students, representing 1,968 appointment hours. The apparent decrease in number reflects a transition of gynaecological counselling to the medical service, affecting approximately 500 students.

A major project over the interval under review was financial stabilization. Although the above changes were accommodated within the projected operating budget 1972/73, the Student Health Services Reserve Account which had become a major source of revenue over past years was on the point of

virtual depletion. Accordingly, through liaison with the Department of Financial Planning and Budgeting and the Advisory Committee to the Coordinator of Student Services the following fee schedule was brought into effect:

Undergraduates, full-time	\$12.00 per annum
part-time (London only)	
Intramural	4.00
Summer (day)	2.00 per session*
Summer (night)	2.00 per session*
Intersession	2.00 per session*

* maximum of \$4.00 for all summer sessions

Graduates, full-time	\$12.00 per annum
part-time	6.00 per annum
part-time, off campus	nil

Less than 5% of potentially collectible OHIP revenue was not accessible due to lack of subscriber information or non-registration of students with the OHIP plan. A sophisticated 'accrual system' of accounting was instituted for OHIP revenue of Student Health Service, the first of its kind in Ontario universities.

DEAN OF WOMEN

Dr. Leola E. Neal, Dean of Women, reports that in 1972-73 there were 11,248 men and women enrolled in the Constituent University as full-time undergraduate students. Of these students, 4,439 or 39.5% were women. In the previous year, there were 10,906 full-time undergraduate students and 4,215 or 38.7% were women. Although the number of students has increased, the ratio of men to women full-time undergraduates at Western seems stabilized at about 6:4, as suggested in the 1971-72 report.

In the Faculty of Graduate Studies, the number of students has declined from a total of 1,613 in 1971-72 to 1,454. In 1971-72, 345 or 21.4% were women while in 1972-73, 295 or 20.3% were women.

The above figures, as released by DIAS, indicate that there were 183 more students enrolled for 1972-73 than a year ago. This was below the

forecast (435) and reflects a trend in most universities. After very significant increases in enrolment over a period of years, this drop or downtrend is difficult to explain. Many reasons have been cited for students opting out or stopping out of University studies: disenchantment with University, declining enrolment in Secondary Schools, higher enrolment at career-oriented institutions such as Community Colleges, the value of a "break" in the educational process, the emphasis on travel and work experience, the greatly increased opportunity for part-time studies, and increased costs.

Women students are registered in every Faculty and School but it is too early to state that there is any significant shift to Faculties that were previously regarded as male strongholds.

The housing of women students has been an important responsibility of the Dean of Women since 1946. Almost the first assignment in the summer of 1946 was housing. Initially the concern was with off-campus housing exclusively. In 1951, the Board of Governors purchased the home of the late Major General A. C. Spencer and converted it to a residence for 67 women students. Later Spencer Hall was re-modelled to provide, at its maximum, accommodation for 104 students. The University was expanding at a tremendous rate and there was a terrific demand for residence accommodation, particularly by women. The second women's residence, Delaware Hall, was planned and opened in 1966 with accommodation for 452. Continued phenomenal growth in the student population led to the construction and completion in 1969 of a residence complex, the Glenmore Residences. It included accommodation for 1,200 single students (men and women) and 399 apartments for married students. By 1971, Maitland Hall (women) and Saugeen Hall (men) were integrated as Saugeen-Maitland Hall with separate units of 100 each, 5 for women and 7 for men. The total number of beds for women students in 1972-73 was 1,044 and 65% of these were occupied by freshmen. This accommodation was distributed as follows: Spencer Hall (85), Delaware Hall (452) and Saugeen-Maitland Hall (507). The residences were filled throughout the year. In January 1973, a new Department of Housing was established and Mr. A. K. Knill was appointed Director of Housing. Although the Dean of Women is one of the four members of the Advisory Committee to the Director of Housing, she will no longer be directly responsible for the supervision, budgeting and staffing of these residences. Under these circumstances, it seems appropriate to mention that literally hundreds of people have been associated with Dr. Neal on various residence projects from 1951 to the present. She has asked me to thank them all most sincerely and I would like to thank her for her substantial contribution in helping to plan new residences and working with their staff and councils over these many years.

The three sororities and the Pan-Hellenic Council had another busy and interesting year. Membership increased again this year and there seems to be some indication that these organizations are re-gaining favor. The National Officers who have visited the campus during the year reported a similar development in the U.S.A.

Each year the Dean of Women devotes a great deal of her time to personal and general counselling. Students come to discuss their many and varied problems. It was often necessary during the regular academic periods to refer students to others, namely the Faculty Deans and Faculty Counsellors, the staff in the University Health Service, the Registrar and his staff, the Director of Placement and Off-Campus Housing. Without the cooperation of these people the problems of many students could not have been resolved.

DEAN OF MEN

The Acting Dean of Men, Mr. A.E.D. MacKenzie, reports that all of the male Ontario Scholars in their freshman year at the University were sent a letter in November inviting them to make an appointment with the Dean of Men to discuss courses, career plans, university life or just general information. The response was excellent. Approximately 63% (160 students out of 254) were interviewed for periods ranging from ten minutes to one hour. The majority of the students were inclined towards the sciences, particularly medicine, which was by far the largest group. Other sciences, including Dentistry, were the next most popular group followed by the professional schools--Law, Engineering and Business Administration. The majority of the students interested in the professional schools had an appointment arranged for them with the appropriate person in that particular faculty. The majority expressed the view that they had found the interviews useful and several returned at various times throughout the remainder of the year to discuss other matters. A small research project was undertaken with the cooperation of Mr. W. G. Nediger, Deputy Registrar to study the progress of Ontario Scholars through University.

In January, students with a grade 13 final average of between 50% and 65% were sent a letter asking them to make an appointment to discuss courses, career plans, etc., if they wished to do so. The response from this group was very disappointing. There are approximately 400 students in this category. Although 123 letters were sent out over a three week period only 9 students requested an interview. It was felt that it was not worthwhile to send out the remaining letters.

A total of 407 students (excluding the Ontario Scholars and the 50% - 65% group) were interviewed between the first of September and the end of April. Although many of the students who came to this office came on their own or at the suggestion of other students, many were referred by faculty members, the Registrar's Office, academic counsellors and other Student Services. There were approximately 10 students with complex attitudinal and motivational problems who had weekly appointments on a regular basis over periods of up to three months.

Approximately 150 members of the Faculty and Administration and 30 parents and other members of the community consulted the Dean of Men's Office on a variety of matters.

The responsibility for the administration of the University men's residences was most closely identified with the Office of the Dean of Men until December of 1972 at which time Mr. A. K. Knill was named Director of Housing. The Acting Dean of Men now serves in an advisory role in the administration of the residences and as such is a member of the Advisory Committee to the Director of Housing. In addition, the Acting Dean serves as a member of the committee responsible for the selection of Dons for University residences, as a member of the Senate Subcommittee on Residence Operation of which he is currently Chairman, as a member of the Residence Damage Appeals Committee, and as a member of the Senate Committee on Student Housing.

The following Greek-letter fraternities and societies have chapters at The University of Western Ontario

Alpha Kappa Kappa
Beta Theta Pi
Delta Kappa Epsilon
Delta Upsilon
Kappa Alpha Society

Phi Delta Theta
Phi Gamma Delta
Sigma Chi
Zeta Psi

The fraternity system on campus underwent a significant structural change this year. The cumbersome Interfraternity Council was dropped in favour of a nine-man President's Council, with Dean MacKenzie serving in an advisory capacity. The new council placed the onus upon the president of each fraternity to lead his membership in general fraternity events. The Council stressed the concept of a series of Interfraternity events to aid in improving a sagging image on campus. The ideas behind this concept will be implemented during the 1973-74 school term. This year's major proposal takes the form of a calendar which will be passed out at orientation. The calendar, besides being a useful item in any student's quarters should help to alleviate some general misconceptions about fraternities.

Western's Greek system can be extremely proud of its contribution to the 1972 "Drop in the Bucket" campaign of the Canadian "Save the Children" Fund. The University of Western Ontario campaign was organized by Phi Delta Theta.

STUDENT HOUSING SERVICE

A milestone was reached in the area of Student Housing at the University in 1972-73. A new Department of Housing was established, and in January, 1973, Mr. Anthony K. Knill was appointed Director of Housing. The focus of the new department will be to provide a centralized student housing service, that will be responsible for the provision and administration of both on and off-campus housing for students.

To assist the Director in coordinating the activities of the new department, the following appointments were made. Mr. R. K. Gauld was appointed Business Manager of Single/Married Residences. Mr. E. M. Laing was appointed Manager, Residence Admissions and Off-Campus Housing, and Mr. R. A. Virtue was appointed Conference Coordinator. Messrs. Gauld, Laing and Virtue have been associated with the operation of the University Residences for many years, and thus they bring considerable experience to their new positions.

In July of 1972, Dr. W. C. Henry, the Warden of Men's Residences, began a sabbatical leave. Mr. A. K. Knill was appointed Acting Warden of Men's Residences in Dr. Henry's absence. On the appointment of the Director of Housing, the responsibilities of the Warden were written into the terms of reference for the Director of Housing. Dr. Henry will thus, on his return to the University in the fall of 1973, be returning to a full-time teaching position in the Philosophy Department. Dr. Henry's contribution to the Men's Residence at the University over the years has been invaluable. His wisdom, leadership and dedication have proved to be one of the residences' great assets. Dr. Henry's service to the residences will thus be remembered by many people for many years.

At this time, the outstanding contribution that Dr. Neal, the Dean of Women, has made to the Women's Residences, must be acknowledged. Dr. Neal's insight, courage and devotion to the Women's Residences since their inception at Western in 1951, is a matter of record. Although Dr. Neal will no longer be directly responsible for the Women's Residences, it is with great satisfaction that the Director of Housing reports that Dr. Neal will be advising him on the many areas of residence life in the coming years.

Men's Residences

The Director reports that 1,292 beds were available in the men's residences, Medway, Sydenham and Saugeen-Maitland Halls. For these, 4,821 requests for application forms were received and 3,375 application forms were returned by the end of August, 1972. The freshmen returned 2,136 applications and the remaining 1,239 applications came from graduate students and upperclassmen. The men's residences were filled for the greater part of 1972-73 and the freshmen represented approximately 52% of the residents.

There were 87 withdrawals from residence; 42 men withdrew from the University while 45 moved to Off-Campus Housing. This figure of 87 should be compared with a similar total in 1971-72; 25 withdrew from the University and 62 moved to Off-Campus Housing. Withdrawals were replaced to the extent that the average vacancy rate was only slightly less than .8 per cent for the academic year.

It is encouraging to note that a large number of former residents re-applied and were accepted back into residence.

Women's Residences

The total number of beds for women students in 1972-73 was 1,044 and 65% of these were occupied by freshmen. This accommodation was distributed as follows: Spencer Hall (85), Delaware Hall (452) and Saugeen-Maitland Hall (507).

During 1972-73 the demand for residence accommodation continued to be good. There were 3,632 requests for applications from September 1971 to April 1972. By 1 September 1972, 3,271 applications had been received; 2,391 applications from freshmen and 880 applications from upperclass and graduate students. In 1971-72, the total number of applications was 3,218; 2,283 for freshmen and 935 for upperclass. Of the 2,391 freshmen applicants, 47% gave Western as their first choice but 81% of the freshmen in the residences were first choice Western.

The residences were filled throughout the year despite 49 withdrawals, 23 of whom withdrew from the University. This figure of 49 should be compared with a total of 66 in 1971-72.

Single Student Residences - Summer Operation

During the summer months, 157 men and 115 women summer school students lived in the residences. Moreover, there was a total of 234 men and 184 women casual and summer guests in the residences during the summer. At the same time, 3,552 persons in special groups were accommodated, at various times, in the residences throughout the entire summer. This compares with a total of 2,733 persons for the previous year.

The coordination and assignment of conference groups was the responsibility of Mr. R. A. Virtue.

Married Students' Apartments

For the year, May 1, 1972 to April 30, 1973, the 300 one-bedroom apartments received 410 applications, whilst the 99 two-bedroom apartments received 154 applications. The percentage of tenant turn-over for the year was 60%, and the occupancy rate for the whole year was 97.64%.

Off-Campus Housing Service

The Off-Campus Housing Service contacted by mail 2,032 landlords in March 1972 to confirm listings for the 1972 Summer School and for the regular 1972-73 academic year. From this, and advertising, a total of 1,992 listings was made available to students. Since there is an average of 2.5 beds available per unit listed, accommodation off-campus provided 4,980 beds for students. By the end of October 1972, there were still 661 listings or 1,680 beds available in off-campus housing.

The following table indicates the 1972 Off-Campus Housing activity compared to previous years:

TABLE I

	1972	1971	1970	1969
Units Listed	1992	2141	1656	1776
Units Reported Rented	1331	1320	1102	1027
Units in Surplus	661	821	554	749

Note: 2.5 beds per unit listed

The table below shows the various unit classifications of the 1,992 listings in the year 1972.

TABLE II

	UNIT LISTED	UNITS REPORTED RENTED	UNITS UNUSED	NUMBER OF STUDENTS ACCOMMODATED (2.5 PER UNIT)	NUMBER OF STUDENTS POTENTIALLY ACCOMMODATED (2.5 PER UNIT)
Apartments	772	505	267	1262	1930
Light Housekeeping	279	264	15	660	697
Rooms	537	338	199	845	1342
Rooms and Board	233	120	113	300	583
Houses	171	140	67	260	428
Totals	1992	1331	661	3327	4980

STUDENT FINANCIAL AID

The past year has been one of consolidation in the Ontario Student Awards Program with marked improvements in its administration and operating procedures. Also, financial aid and student enrolment not only levelled off, but dropped slightly. The factors affecting the reduction in financial aid are dealt with in the sections which follow.

The Director, E. J. McLeod, ceased to be Chairman of the Association of Student Awards Officers of Ontario but as past Chairman he maintains a very active participation in the Association and its meetings. It would be in order here to underline the importance of the work of this executive body which has been instrumental in interpreting to the Ministry needed amendments to the Ontario Student Awards Program. Meeting several times throughout the year, the Association ultimately put forward several important

proposals for changes in the program. All but one of these were adopted for inclusion in the 1973-74 O.S.A.P. program. The changes proposed and accepted follow in the section on the Ontario Student Awards Program.

Ontario Student Awards Program

The Ontario Student Awards Program for the year 1972-73 brought in changes which resulted in a significant improvement in the length of time required to process a student's application form for financial assistance. In previous years an application form processed to the Ministry of Colleges and Universities (MCU) after mid-July frequently would be returned to the University well after registration. As many students depend on the Ontario Student Awards Program for their first term tuition fees, the receipt of the award is a critical matter. Part of the answer to making certain that the student receives his award in time for registration is to have the student apply earlier, preferably before leaving university for the summer break. To this end, posters were placed around the campus and advertisements placed in the Gazette, suggesting that the students apply early. In addition, when students visit the office, the staff advise them to submit the completed application form prior to July 1st. so that some assurance can be given that the award will be processed prior to registration. In consultation with the Association of Student Awards Officers of Ontario, MCU agreed to set certain "turn-around times" for the applications in their various categories, i.e. "self-employed", "dependent", "independent", etc. This year the results have been more than satisfactory and it can be recorded that MCU even improved on these proposed "turn-around times". In all, 44.3% of full-time students received financial assistance in one form or another through the Student Financial Aid Office in the past year.

For the third consecutive year applications of students attending London Teachers' College were processed through this office. As a result, some consideration has been given the budget of the Financial Aid Office by the Department of Education in that it has paid the salary for one of the students engaged during the summer to assist in editing forms. The total number of Canada Student Loans issued to students attending London Teachers' College was 121 and amounted to \$89,240. Grants were issued to 74 students and totaled \$40,195.

Table I reveals that the Canada Student Loans issued to students at the University of Western Ontario total \$3,690,726, an increase of \$322,901 over last year's figure. This can be attributed to the loan portion of the award being increased from \$600 to \$800 and the maximum being raised from \$1,000 to \$1,400. The Ministry of Colleges and Universities reported that the average Canada Student Loan at Western went up in 1972-73 to \$748 from \$561 in 1971-72. This loan figure includes loans from other provinces totaling \$134,786 received by 121 students. The total number of loans issued to students at the affiliated colleges was 597 and amounted to \$407,150.

TABLE 1 - STUDENT AID SUMMARY, 1972-73

Program and Year	UNIVERSITY ADMINISTERED BURSARIES & GRANTS		SCHOLARSHIPS AND FELLOWSHIPS		UNIVERSITY LOANS		OTHER AWARDS BY FIRMS GOVT. DEPTS. ETC. MAKING OWN SELECTIONS		ONTARIO STUDENT AWARDS (Grant Payments)		ONTARIO STUDENT AWARDS (Canada Student Loans)		GRAND TOTALS	
	Number	Value \$	Number	Value \$	Number	Value \$	Number	Value \$	Number	Value \$	Number	Value \$	Number of Awards	Total Assistance
Arts I	19	3,125.	130	36,480.	1	100.	22	16,695.	147	71,203.	186	130,535.	505	258,138.
" II	25	3,250.	22	7,125.	-	-	18	19,395.	126	64,001.	189	127,070.	380	220,841.
" III	23	3,000.	35	21,003.	3	300.	24	19,017.	115	58,148.	153	106,365.	353	207,833.
" IV	10	1,250.	16	5,729.	-	-	3	2,872.	56	26,110.	69	49,710.	154	85,671.
" Totals	77	10,625.	203	70,337.	4	400.	67	57,979.	444	219,462.	597	413,680.	1,392	772,483.
Business Admin. III	10	1,450.	3	950.	-	-	2	3,925.	36	19,670.	51	37,810.	102	63,805.
" IV	3	350.	7	1,800.	1	325.	2	4,267.	25	11,485.	34	23,800.	72	42,027.
" Totals	13	1,800.	10	2,750.	1	325.	4	8,192.	61	31,155.	85	61,610.	174	105,832.
Music I	3	350.	25	3,750.	-	-	4	2,952.	31	12,120.	42	30,040.	105	49,212.
" II	7	825.	3	150.	-	-	1	651.	25	10,540.	32	21,230.	68	33,398.
" III	5	600.	1	25.	-	-	3	1,452.	11	3,790.	23	13,875.	43	19,742.
" IV	8	1,150.	1	100.	-	-	5	1,950.	12	4,855.	21	13,710.	47	21,765.
" Totals	23	2,925.	30	4,025.	-	-	13	7,007.	79	31,305.	118	78,855.	263	124,117.
Social Science I	26	2,692.	171	40,050.	5	1,100.	43	36,918.	472	218,880.	615	429,610.	1,332	729,250.
" II	28	3,900.	9	1,020.	2	200.	34	38,785.	429	194,788.	626	444,689.	1,128	683,382.
" III	38	5,075.	15	1,835.	7	800.	20	31,683.	374	165,165.	502	348,873.	956	553,431.
" IV	19	2,800.	9	1,125.	-	-	5	10,907.	104	45,775.	160	116,655.	297	177,262.
" Totals	111	14,467.	204	44,030.	14	2,100.	102	118,293.	1,379	624,608.	1,903	1,339,827.	3,713	2,143,325.
Science I	42	5,755.	332	82,400.	1	200.	39	30,764.	308	138,352.	424	299,454.	1,146	556,925.
" II	38	5,600.	11	4,325.	1	100.	25	32,662.	183	78,314.	293	196,116.	551	317,117.
" III	22	2,850.	12	3,450.	5	1,180.	13	20,115.	155	69,662.	217	151,109.	424	248,366.
" IV	12	2,150.	16	2,465.	1	400.	5	3,779.	49	22,635.	78	54,240.	161	85,669.
" Totals	114	16,355.	371	92,640.	8	1,880.	82	87,320.	695	308,963.	1,012	700,919.	2,282	1,208,077.
Engineering I	5	850.	19	4,300.	-	-	2	1,100.	28	13,215.	32	21,585.	86	41,050.
" II	8	1,050.	1	500.	-	-	8	15,736.	18	7,100.	28	20,365.	63	44,751.
" III	5	900.	2	750.	-	-	3	7,440.	34	13,440.	35	24,895.	79	47,425.
" IV	5	600.	2	300.	2	700.	5	3,659.	29	16,180.	39	32,830.	82	54,269.
" Totals	23	3,400.	24	5,850.	2	700.	18	27,935.	109	49,935.	134	99,675.	310	187,495.
Law I	14	1,650.	-	-	-	-	1	813.	49	25,285.	65	46,685.	129	74,433.
" II	12	1,700.	2	250.	-	-	2	2,975.	59	29,620.	67	50,540.	142	85,085.
" III	10	1,250.	8	950.	-	-	9	820.	71	38,070.	69	53,200.	167	94,290.
" Totals	36	4,600.	10	1,200.	-	-	12	4,608.	179	92,975.	201	150,425.	438	253,808.
Medicine I	-	-	10	1,500.	-	-	-	-	-	-	-	-	10	1,500.
" II	4	450.	-	-	-	-	1	643.	6	1,830.	7	6,240.	18	9,163.
" III	28	3,750.	1	150.	-	-	3	2,078.	56	23,480.	64	47,310.	152	76,968.
" IV	29	3,800.	6	1,300.	3	485.	6	8,620.	43	26,135.	51	39,330.	138	79,670.
" V	26	2,450.	6	650.	-	-	14	36,688.	41	20,315.	45	34,330.	132	94,433.
" VI	14	1,450.	7	1,250.	2	700.	103	151,602.	45	37,460.	48	52,850.	219	245,312.
" Totals	101	11,900.	30	4,850.	5	1,185.	127	199,631.	191	109,220.	215	180,260.	669	507,046.
Dentistry I	10	1,000.	-	-	-	-	6	20,426.	28	16,955.	29	24,400.	73	62,781.
" II	2	200.	1	150.	-	-	2	6,335.	23	11,395.	26	19,570.	54	37,650.
" III	5	500.	2	250.	-	-	8	29,793.	22	17,720.	25	27,050.	62	75,313.
" IV	1	100.	6	600.	-	-	2	8,396.	23	12,700.	26	20,500.	58	42,296.
" Totals	18	1,800.	9	1,000.	-	-	18	64,950.	96	58,770.	106	91,520.	247	218,040.
Nursing I	3	450.	28	5,350.	-	-	8	1,518.	14	7,935.	15	11,950.	68	27,203.
" II	5	600.	-	-	-	-	6	4,385.	22	11,745.	26	17,910.	59	34,640.
" III	5	600.	-	-	-	-	7	11,989.	18	10,215.	25	16,570.	55	39,374.
" IV	-	-	-	-	-	-	3	7,667.	12	5,650.	17	12,540.	32	25,857.
" Totals	13	1,650.	28	5,350.	-	-	24	25,559.	66	35,545.	83	58,970.	214	127,074.
Althouse	9	1,050.	4	1,550.	3	500.	13	10,539.	327	168,075.	341	251,420.	697	433,134.
Totals Undergrads	538	70,572.	923	233,582.	37	7,090.	480	612,013.	3,626	1,730,013.	4,795	3,427,161.	10,399	6,080,431.
M.B.A.	-	-	50	76,195.	20	7,400.	12	32,136.	85	52,480.	151	129,435.	318	297,646.
Other Grads	2	111.	257	414,695.	4	940.	210	676,894.	119	61,430.	170	134,130.	762	1,288,200.
Totals Grads	2	111.	307	490,890.	24	8,340.	222	709,030.	204	113,910.	321	263,565.	1,080	1,585,846.
Grand Totals	540	70,683.	1,230	724,472.	61	15,430.	702	1,321,043.	3,830	1,843,923.	5,116	3,690,726.	11,479	7,666,277.

* The Faculty of Medicine includes the programs of Physiotherapy, Communication Disorders and Occupational Therapy

There can be little question that student reaction to the Ministry increasing the O.S.A.P. loan portion from \$600 to \$800 was adverse, particularly as it was introduced coincidentally with a \$100 increase in tuition fees. Indeed, many students expressed real concern over the financial burden that they would carry on graduation. For a few, this discontent manifested itself in the fee strike. This strike centered on the Fees Office and in due course the Student Financial Aid Office was directed to release all grant cheques to the students regardless of whether second term fees had been paid. No repercussions ensued.

Bursaries

Bursaries have decreased in number by 41 and in amount by some \$10,000. It is anticipated that next year will see an increase in university-administered awards as a result of the O.S.A.P. regulation concerning the exemption of other awards being increased from \$150 to the amount of tuition fees.

The following new bursaries were available in 1972-73:

- (a) Harold G. Fox Education Fund: Available to a student in the Faculty of Law - \$100.
- (b) David Ivor Memorial Award: Undergraduates in the Departments of Economics or Political Science are eligible for this bursary. The amount awarded is at the discretion of the Director.
- (c) The Joy Taylor Memorial Bursary: Women in the third or fourth year of Physical Education are considered for this bursary - \$150.

During 1972-73, the ground work was completed for the establishment of two new bursaries that will be available to students in 1973-74.

The following bursaries were discontinued:

- (a) Lady Eaton Bursaries: \$1,000 was awarded to students in the Faculty of Music in amounts of \$100 each.
- (b) Perth County Bursaries: \$500 was awarded to students who were residents of Perth County in amounts of \$100 each.

At the end of the academic year reports were sent to all donors giving the names, courses and addresses of their award-holders and, in addition, where required, case histories, together with student letters of thanks. Last year 71% of bursary recipients wrote letters of appreciation.

U.W.O. Loans

U.W.O. Loans have also dropped in number by about 30 and in amount by some \$3,800. There was no lack of funds but rather a lesser demand for small short term loans. The Student Benevolent Loan Fund from which, a total of \$4,675 was disbursed last year, this year was used to the extent of only \$1,600. This fund alone practically makes up for the overall difference, although it should be noted that \$400 less was given out of the Student Special Welfare Fund, also used for emergency loans.

It should be recorded that the Canada Trust Company, which keeps the accounts for the U.W.O. Combined Loan Funds has indicated an improved recovery rate for these loans.

Scholarships

The total drop in Scholarships and Fellowships by \$321,229 may be explained by the fact that the Educational Fellowships for students registered at Althouse College were discontinued. Last year, they amounted to \$378,000. Therefore, had they been in effect the figure for Scholarships and Fellowships would have been higher.

It is interesting to note that scholarships in 1972-73 in the combined programs of Arts, Social Science, Business Administration, Music and Physical Education dropped by \$4,678 and yet, in first year, increased by \$24,725 in spite of the drop in enrolment by 432. In Science it increased by \$20,200 in first year, which is out of all proportion to the increase in enrolment by 144. In years 2, 3 and 4 the overall increase amounts to \$15, with an increase in 2nd year being offset by a decrease in 4th year.

Computer Operation

For the past two years this office has stressed the importance of developing a program that would record all student financial aid on the administration computer. Unfortunately, the priority for this program has been such that to-date no guarantee can be given as to when it will be completed. As a result, the gathering of statistics on student aid is both difficult and time-consuming.

FOREIGN STUDENT ADVISORY SERVICE

The Foreign Student Advisor, Mr. R. W. McGraw, spent the major portion of his time helping foreign students to deal with Government agencies, financial matters, various University departments, Immigration authorities, foreign embassies, and various other problems they face either as visitors or immigrants to this country.

In late August and early September new foreign students were welcomed to Western by the Foreign Student Reception Service. Most of these were interviewed by the Foreign Student Advisor and aided in their orientation to London and the campus. Approximately 50 were provided temporary accommodation and assistance in locating permanent lodgings. Mr. McGraw wishes to record his thanks to FROS (Friendly Relations Overseas Students) and members of the university community for their voluntary assistance in this project.

Foreign student enrolment during 1972-73 was 1,308 from 81 countries. This figure includes all students whose citizenship is other than Canadian. Analysis of this figure shows a total of 943 landed immigrants and 365 on student visas. This compares with 799 landed immigrants and 279 on student visas in 1971-72. Those countries with over 20 representatives are listed below:

	<u>LANDED IMMIGRANT</u>	<u>STUDENT VISA</u>	<u>TOTAL</u>
United Kingdom	278	29	307
United States	182	51	233
Hong Kong	65	118	183
Trinidad-Tobago	30	31	61
India	51	7	58
Greece	26	1	27
Australia	24	1	25
Jamaica	13	12	25
China-Main	16	7	23
Guyana	16	5	21
Netherlands	<u>20</u>	<u>1</u>	<u>21</u>
	<u>721</u>	<u>263</u>	<u>984</u>

In the fall of 1972, Canada received an influx of Ugandan Asians including students from Makerere University. Canadian and Ontario Government regulations prohibited these students from receiving Canada Student Loans or Provincial grants until they had been resident in Ontario for one year. Ten students, including 5 in medicine were offered admission to Western but could not accept these offers without financial assistance. Through the combined efforts of the London Council of Christians and Jews, the Faculty of Medicine and the Foreign Student Advisor, 8 of the 10 were provided with loans or grants to cover their first year expenses. The London Academy of Medicine was particularly helpful in undertaking to guarantee interest free loans for the 5 medical students.

The Mayor of London hosted a reception in November to welcome foreign students. This has become an annual event which provides an opportunity to Londoners and foreign students to meet on an informal basis.

During the Christmas break, foreign students were invited to a reception at the home of President and Mrs. Williams. The gathering was remarkable for its congenial atmosphere and for the rapport which was established amongst the students and other members of the university community.

Modifications in the Department of Immigration regulations introduced in late 1972 severely restricted summer employment opportunities for foreign students. None would be permitted to accept a job unless it were shown that no Canadian citizen or landed immigrant was available to fill the position. An estimated 150 foreign students at Western, and 3500 across Canada, faced the probability of having to withdraw part way through their academic programs because of lack of summer earnings. The retroactive nature of this regulation seemed both unfair and unnecessary. A number of representations were made to the Ministers of Manpower and Immigration and External Affairs by the Foreign Student Advisor and others on campus and by various individuals and organizations across Canada. Finally, in April 1973, the regulations were modified to exempt those foreign students who were in Canada prior to January 1, 1973. Though not a complete reversal of the original regulation, this exemption removed the cause of the immediate crisis. Yet to be assessed is the effect of the regulation on foreign students who entered Canada after 1972.

The LINCC (London Intercultural Co-ordination Committee) program, under which foreign students at the university voluntarily visit London and area schools and share their culture and experiences with school children, has continued to grow. Over 80 visits were arranged in

1972-73 through the Foreign Student Advisor's Office. In addition, at least an equal number of repeat visits were made as a result of the program. The London educational system is fortunate to have such a valuable resource available and numerous teachers and students have expressed their gratitude to Western's foreign students for their contribution.

EDUCATIONAL AND VOCATIONAL COUNSELLING SERVICE

The Director, Dr. Kevin C. Murphy reports the basic intent of the service which has unchanged since its origin in October 1971, namely, to help students who need assistance in making decisions affecting their university and career plans. Specifically, the aim is to serve students who are having difficulties choosing an appropriate academic program because they are unsure of their objectives, interests, abilities, or educational skills. Students with these concerns are assisted by discussing their plans and objectives with a trained counsellor and by taking, when appropriate, interest and ability tests and reviewing them with the counsellor. The service has maintained an extensive Occupational Information Centre with information about occupations, and has added material to assist students who are deficient in basic study skills or specific skill areas.

The counselling process at EVC involves discussion of background information leading to the student's concern, factors that directly or indirectly affect the concern, and the mutual agreement between student and counsellor on how they can best work together to alleviate the concern. The specifics of these interviews may include appropriate test information; the discussion of personal, parental, and peer pressures connected to the concern; student use of the Occupational Information Centre; work on study skills; establishment of immediate and long-term objectives; or any combination of these and other factors. This process may take one to fifteen interviews to complete, depending upon the complexity of the problem and the student's progress towards solving it. Most of the students seen in 1972-73 by EVC required 4 or less interviews (81%).

Many students are still unsure of their more general academic objectives, interests, and abilities after discussion specific departmental or program options with a faculty member or an academic advisor. Academic advisors referred 5% of the students and individual faculty members referred an additional 16% for assistance in this office. The increase in referral numbers from both these sources is due, hopefully, to EVC's increased publicity, greater efforts to explain our role to students and faculty members. Many students just walked into the Service without a referral seeking specific advice about courses.

While the point of contact between EVC and academic counselling is educational planning, the relationship between EVC and the Placement and Career Planning service is in terms of career planning. It should be noted that the increased referral numbers from Placement is due at least in part to the Career Planning Seminars it held, in which some students were apparently stimulated to consider seriously their vocational plans in depth. On the other hand, after general objectives are clarified, job opportunities become an issue. 5.2% of the students seen by EVC were referred to the Placement and Career Planning Service to look into these career opportunities.

In 1972-73 EVC moved from its "portable" to the first floor rotunda of Middlesex College. Although this space is a great improvement over our 1971-72 situation as evidenced, by the improved student rating of our facilities from 19% in 71-72 up to 32% in 72-73, it is still not sufficient and has quickly become inadequate with our more than double student demand this year. Fortunately, EVC has been given approval to move into new and larger quarters in Somerville House in 1973-74 strategically located in the core area of the campus and close to the other Student Services Offices.

In the first annual report for 71-72 it was noted that EVC was heavily overtaxed by student use as early as January 1 and a waiting list was developed at that time. Undoubtedly due to our increased staff, as well as new procedures, we were able to provide service for twice as many students this year without a waiting list.

The Occupational Information Centre remains an integral part of EVC and the services of the occupational resource specialist were very much in demand this year. The resource specialist works closely with the student and the counsellor throughout the counselling process. Most of the students use the centre and consult with the resource specialist between their regular counselling interviews. The centre is mainly used by students to gain up-to-date information (e.g. job activities, training, salary, etc.) consonant with the general objectives, interests and abilities that are highlighted in the counselling process. Another function served by the centre and resource specialist is to help students check the accuracy of their impression of various occupations against what they are really like.

Eighty percent of the students using the service in 1972-73 were seen by the permanent staff. The remaining 20% were seen by Professor T. F. Siess and Professor J. Stone of the Psychology Department and seven advanced counselling graduate students who donated time to the service. The advanced graduate students were trained to the M.A. level in counselling psychology and were closely supervised by the Director. From this arrangement, the service gained additional qualified staff, which enabled it to serve more students, and the graduate students gained additional counselling experience in their contacts with the students.

An essential activity of a responsive student service is insuring input from the students who have used that service. EVC has sent out for the second year an extensive follow-up questionnaire to all students seen by the service. The purpose of the questionnaire is to provide our staff with candid student reactions to the service. This direct student feedback with its indication of strengths, weaknesses, and modifications of the service will be considered in making plans for 1973-74. Of particular note in the results so far is the increasingly favourable rating toward the materials in the Information Resource Centre, the resource specialist and the physical facilities.

UNIVERSITY CHAPLAINS

Lutheran Chaplain Ray Christenson on behalf of the Chaplains' Committee reports that the following six chaplains in 1972-73 served the University community:

Victor Blake	Anglican
Ray Christenson	Lutheran
Rudy Janzen	Anabaptist Mennonite
Richard Murphy	Roman Catholic
George Rousom	United Church
John Van Til	Christian Reformed

The Office of the Chaplains was located in the new University Community Centre where regular hours were maintained Monday through Friday.

Each of the chaplains carries out his service as a member of a community of interested persons for whom he functions in the role of leader, enabler, and theological resource person. In offering their services, the chaplains function unofficially as a team who respect the work of each other, and indeed, of all student service personnel on the campus. Religious services throughout the academic year were offered regularly each Sunday on the campus by the Anglican, Anabaptist Mennonite, Lutheran, and Roman Catholic chaplains. The other chaplains also held religious services from time to time but not on the same regular Sunday schedule.

Throughout the week the chaplains provide students with the opportunity of religious counselling within the context of the Christian faith. The chaplains also organized last year in each term a series of lectures on marriage preparation, utilizing skilled persons from related professional fields as lecturers and resource persons. A film series

known as the "Chaplains' Film Feast" was also provided and following each showing a discussion of the film was held with a view to encouraging students to explore meaning in their own lives and to reflect on the values and goals of society.

Although the Chaplains at this University are financed by the religious denominations which sponsor them, Coordinated Student Services appreciates very much the importance of their work and has this year developed a closer and more effective liaison with the Chaplains.

CAREER PLANNING & PLACEMENT SERVICE

The Director, Mr. D. W. Klinger, reports that his office located in the University Community Centre provides the following seven services to students:

- Career Planning Service - (Career Counselling on "Walk-in" basis.)
- Career Information Resource Centre
- Career Planning and Job Hunting Seminars
- On-Campus Recruiting Program
- Employment Listing Service (Full-Time, Part-Time and Summer Employment)
- Part-Time Employment Referral Program
- Summer Employment Referral Program

On January 1, 1973, the Off-Campus Housing Service, formerly administered through this office, was amalgamated with the new university Student Housing Service.

The On-Campus Recruiting Program in 1972-73 began in early November 1972 and ran through to the end of March. Twelve employers recruited at the Doctoral level, 52 at the Master's level, and 86 at the Bachelors level. At the Bachelor's level alone, 1,350 interviews were held with employer representatives. It should be noted that although the On-Campus Recruiting program has been in a somewhat "steady state", the number of direct application listings of employment opportunities for Western graduates has shown a marked increase.

Placement Advisory Committee

Again this year, the Placement Advisory Committee provided an effective means of communication between faculty, students, administration, alumni and employers on matters pertaining to placement.

Further, under its terms of reference, it is to consider questions which are referred from time to time and to make recommendations to the Director of Career Planning and Placement on matters of mutual concern, and also to make recommendations to the Vice-President (Administration and

Finance) on the development of new and existing programs in the Career Planning and Placement Service.

Membership includes three students, three faculty members, one Alumni representative, one representative from the London Chamber of Commerce and three administrators including the Coordinator of Student Services who was asked to be chairman.

Placement Faculty Liaison Officers

The Director again this year undertook the use of Placement Faculty Liaison individuals for two-way communication to/from faculty and students in each faculty and academic department on campus.

An increasing number of the Placement Liaisons initiated or co-operated in the organization of Career Nights, class sessions, or career talks for students enrolled in their respective departments. In many such presentations, our service was invited to participate.

The Director wishes to thank the Faculty Liaison Officers for their help throughout the year and regrets that space limitations do not permit the listing of their names in this report.

Career Planning (Counselling)

Career planning (counselling) undertaken by the service is available on a "walk-in" basis to assist a student in -

- (a) forming a life-long career plan, including his initial job, subsequent employment, and further education and/or training.
- (b) assessing himself in terms of characteristic employment settings for graduates from his academic discipline.
- (c) preparing for the employment process - interviews, resumé's, etc.

During the 1972-73 academic year, numbers of students presenting themselves for Career Planning sessions have increased significantly. (See Table I). It should be noted that this table reflects only the number of students interviewed. Many paid two or more visits to the service and many who used the service did not require an interview with a career counsellor.

It should be noted that a significant increase in numbers using the Career Planning Service was noted in three areas:

CAREER PLANNING ACTIVITY 1972-73

	No. of * Students Seen			Self Referral			Referrals from Agencies in the University a*			Referrals from Agencies outside the University b*			Referrals to Agencies in the University c*			Referrals to Agencies outside the University d*		
	70-71	71-72	72-73	70-71	71-72	72-73	70-71	71-72	72-73	70-71	71-72	72-73	70-71	71-72	72-73	70-71	71-72	72-73
ARTS	59	172	231	47	154	173	11	15	51	1	3	7	6	20	35	-	8	84
SOCIAL SCIENCE	76	241	293	56	210	240	18	25	47	2	6	6	6	19	68	4	13	54
ENGINEERING	29	49	78	14	37	51	14	10	26	1	2	1	4	1	11	-	-	6
NATURAL SCIENCES	65	185	178	50	163	167	15	21	9	-	1	2	3	12	27	1	3	22
BIO-MEDICAL	3	24	29	2	22	23	1	-	4	-	-	2	-	-	3	1	-	1
BUSINESS ADMIN.	1	4	16	1	4	13	-	-	1	-	-	2	-	-	7	-	-	-
MUSIC	1	4	14	1	4	14	-	-	-	-	-	-	-	-	1	1	2	-
EDUCATION	5	12	29	2	12	22	3	-	3	-	-	4	-	7	9	2	4	2
LAW	1	4	9	1	4	9	-	-	-	-	-	-	-	-	1	-	-	-
NURSING	1	7	13	1	7	12	-	-	1	-	-	-	-	-	1	-	5	1
SOCIAL WELFARE	1	20	8	1	12	7	-	7	1	-	1	-	-	-	4	-	3	1
LIB. & INFO. SC.	-	-	8	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
HIGH SCHOOL	-	-	10	-	-	10	-	-	-	-	-	-	-	-	7	-	-	-
ALUMNI	-	-	45	-	-	44	-	-	1	-	-	-	-	-	-	-	-	-
TOTAL	242	722	961	176	629	793	62	80	144	4	13	24	19	59	175	9	38	171

a* Registrar's Office
 Dean of Men
 Dean of Women
 Foreign Student Advisor
 Financial Aid
 Faculty Member
 Dept. Chairman or Assist.Ch.
 Student Council
 Dean of Faculty
 Chaplains

a* Academic Counselling
 Placement Liaison Officer
 Educational-Vocational
 Counselling Service
 Health Services (Counselling)
 Residence Proctors.

b* Canada Manpower
 Fanshawe College
 United Community Services
 District & Area High Schools
 Other Universities

c* Academic Counselling
 Faculty Member
 Department Chairman
 Dean of Faculty
 Financial Aid
 Health Service (Counselling)
 Placement Liaison Officer
 Educational-Vocational
 Counselling Service

d* Employer Contacts
 (Career Information)
 Canada Manpower
 Central Mortgage &
 Housing Assoc.
 United Community Services

* Total number of sessions - 1304

- (1) Masters level graduate
- (2) Doctoral level graduate
- (3) Alumni (former graduates)

During the year, several academic areas held sessions for their 1973 graduates (in some cases undergraduate also) which presented representative professional people from fields of employment open to graduates from these academic areas.

Career Information Resource Centre

Career Information Resource Centre was developed to provide the information necessary to assist students at the various stages of their career planning, e.g. choosing an occupation, preparing for that occupation (training, etc.) or finding meaningful employment.

During the year a large increase was made in the number of contacts with professional organizations, industries, businesses, universities, government, and other sources in both Canada and the United States to obtain relevant resource material for the Career Information Resource Centre.

Expansion of the following basic areas of the Career Information Resource Centre was continued:

- (a) Career Information - This information is necessary so that students may explore occupations, prepare for the occupation of their choice, and discover what work settings are available within various occupations. Information has been categorized into 43 occupational groupings.
- (b) Employer Profiles - To help students investigate employers, this section has been expanded to include information on 300 employers. A profile includes information concerning employees, products or services, location, growth and description of jobs characteristically available to university graduates.
- (c) Calendars - To assist students prepare for their chosen occupation and plan their careers, the Career Information Resource Centre now includes current undergraduate and graduate calendars from all Canadian colleges and universities, from selected graduate and professional schools throughout the world, and from all Community Colleges in Ontario. Reference books (17) that provide guides to post secondary educational programs have also been added.
- (d) Employment Process - To provide the practical information students require in their search for employment, information on the following topics is included: resumé preparation, interviews, salary rates, employer correspondence and employment standards.

- (e) Employer Contacts - Various presentations enable students to contact employers on their own concerning the possibility of future employment. Numerous (56) employer directories of all types are presently available.
- (f) Miscellaneous - A host of information on the following topics: Labour Market Information, Study/Travel/Work Abroad, Employment Opportunities in Post Secondary Educational Institutions, Publications on Career Planning and Job Hunting.
- (g) Audio-Visual - Reference material on other areas of the Resource Centre is now available in the form of cassette tapes and synchronized slide tape programs prepared by the staff.

Career Planning and Job Hunting Seminars

The Career Planning and Placement Service in response to the career planning needs of students instituted a series of eight seminars. The seminars dealt with the basics of planning a career, organizing and carrying out an effective job campaign, selecting the most meaningful employment opportunity and making transition from student to employee. Each of the eight seminars was designed to be as independent of the others as possible so that students who could not attend all of them would be encouraged to attend and derive benefit from any one of them.

Registration Survey of 1973 Bachelor Level Graduates

A survey was conducted by the Career Planning and Placement Service at registration in September, 1972, to give an indication of the plans of the 1973 Bachelor level graduating class (pass and honours) with respect to employment, graduate education, professional training and other alternatives after receiving the Bachelor degree. The survey was comprehensive and the number responding was significantly large (95%). There were sufficient alternatives included on the survey that graduates could be specific about their plans. Table II shows the results of the survey.

TABLE II

SURVEY OF GRADUATING STUDENTS (BACHELOR)

	1 9 7 2 - 1 9 7 3				% OF TOTAL RESPONDING 1972-73	% OF TOTAL RESPONDING 1971-72
	ARTS & SOCIAL SCIENCE	ENG. & SCIENCE	NO SPECIFIED PROGRAM	TOTAL		
Seeking Employment upon Graduation	672	252	101	1025	51.6%	49.0%
Already have arranged employment	20	12	10	42	2.3	2.1
* Not seeking employment	34	28	16	78	3.9	3.0
Planning volunteer work	6	4	0	10	.5	.4
Planning graduate studies	117	138	22	277	13.8	17.6
Planning to travel	56	29	18	103	5.2	4.2
Entering law	59	36	10	105	5.3	4.0
Entering Medicine	-	28	7	35	1.8	1.89
Entering Dentistry	2	8	1	11	.6	1.45
Entering Education	104	59	15	178	9.0	9.7
Other	54	47	22	123	6.2	6.45
TOTAL RESPONDING	1124	641	222	1987	100.0	100.0
TOTAL GRADUATING	1456	670		2126		
PERCENTAGE RESPONDING	94.1%	95.3%			95%	

* Persons included in this category indicated this alternative as their only choice.

Part-Time Employment Referral Program - 1972-73

Once again the Career Planning and Placement Service undertook a Part-time Employment Referral Program to register students for part-time employment during the academic year. Referrals to employers with available part-time positions were made, based upon the student's interest and qualifications for the job.

The activity for the 1972 academic year is reflected below.

PART-TIME EMPLOYMENT REFERRAL PROGRAM

					1971-72	1972-73
Employers					365	371
Positions Available					1188	1087
Positions Reported Filled					906	945
Students Registered	MALE		FEMALE		1130	1021
	71-72	72-73	71-72	72-73		
	639	572	491	449		
Students Referred	468	477	371	393	839	870
Referrals Made	793	1214	788	628	1581	1842
Students Not Referred	125	95	166	56	291	151

Summer Employment Program

Again, the Service undertook a summer Employment Referral Program to register students for summer employment. Referral of students to employers with available summer positions was made based on a student's interest and qualifications for the job listed.

The following figures represent the activity in the Summer Employment Referral Program to June 30, 1973. Further activity is anticipated during July and August.

SUMMER EMPLOYMENT REFERRAL PROGRAM 1972-73

(On-Campus and London District)

	1970-71	1971-72	1972-73
Students Registered	2259	2502	2381
Registered Students Leaving London Upon Completion of Academic Year	*	1163	802
Registered Students on Active File As of May 15, 1973.	*	1339	1579
Total Referrals to Full-Time Summer Employment	*	1173	1362
Total Referrals to Temporary Summer Employment	*	342	384
Total Referrals	840	1515	1746

* Figures unavailable.

The service in its summer employment program worked closely with Community organizations interested in student summer employment.

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French	AD	Pharmacology	EP
German	AE	Physiology	ER
Philosophy	AF	Psychiatry	ES
Russian Studies	AG	Diagnostic & Therapeutic	
Spanish & Italian	AH	Radiology	ET
		Surgery	EU
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Applied Mathematics	BA	Disorders	EW
Astronomy	BB	Program in Occupational	
Chemistry	BC	Therapy	EV
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Physics	BH	Oral Medicine	GA
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Biochemistry	ED	Philosophy Department	LJ
Biophysics	EE		
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Bigelow, C.C.	ED016.	Brandt, G.J.	I003, I004, I005, I006, I007, I008.
Biggs, R.G.	BG002.	Brannen, E.	BH015, BH016, BH017, BH018.
Bignell, D.E.	BJ005.	Bratuz, D.	D001.
Bills, C.	CG067.	Brennan, M.	EH002, EH003.
Binkley, R.W.	AF001, AF002.	Britney, R.R.	H002, H003.
Birchall, T.	BC020.	Broder, I.	EJ054.
Bisson, R.	BC021.	Broege, V.A.	AA001, AA002.
Black, S.L.	ER007, ER008, ER009.	Bronaugh, R.N.	AF003, AF004.
Black, W.A.	EC004, EC005, EC006.	Brook, R.	CH004, CH062.
Blackburn, J.A.	BA002, BA003.	Brook, W.P.	EJ080.
Blackwell, D.S.L.	BC022, BC023.	Brookbank, J.W.	BI002.
Blackwell, J.H.	BA004.	Brooke, R.I.	GA001, GA002.
Blair, J.N.	EC033.	Brooks, V.B.	ER010, ER015, ER038, ER060.
Bland, B.H.	CG002, CG003, CG092, ER061.	Brown, B.	F001.
Bloch, R.	BC024.	Brown, D.R.	M014.
Blomgren, S.E.	EJ007.	Brown, G.C.	BE003, BE004, BE005, BE036.
Blomqvist, A.G.	CB004, CB005.	Brown, J.D.	M015, M016.
Bloor, E.G.	BC025.		
Blowers, R.M.	M085.		
Blume, W.T.	EF005, EF006, EF007, EF014, EF017.		
Boddy, K.	EJ010.		

Brown, T.M.	CB010, CB011, CB012.	Carroll, K.K.	ED002.
Brown, W.F.	EF009, EF010, EF020, EF011.	Carroll, S.E.	EU001, EU002.
Brownstone, Y.S.	ED001.	Carter, R.A.L.	CB013.
Bruen, A.A.	BG005, BG006, BG007, BG008, BG009, BG010, BG011, BG012, BG013.	Castell, S.P.	BA030.
Bruni, J.E.	EB003, EB004, EB007.	Castle, G.S.P.	M017, M018.
Bruver, R.M.	EJ042.	Cavers, P.B.	BI003, BI004.
Bub, J.	AF005, AF006.	Chacron, M.	BG014.
Buchan, J.	CH005, EH013.	Chamberlain, M.J.	EJ021, EJ022, EJ023, EJ024, EJ041.
Bucher, B.D.	CG004, CG005.	Chan, A.	ED018.
Bucher, R.	CH038.	Chan, L.K.	BG015, BG016, BG017.
Buck, C.	EJ074.	Chan, N.N.	BG015.
Buck, C.W.	EG001.	Chan, P.L.	EC009, EC010.
Buck, C.	EG002.	Chan, V.L.	EV002.
Buck, R.C.	EB031.	Chandra, U.	BF002.
Buckmire, L.A.	EC008.	Chandraseckran, A.K.	EU003.
Budreau, C.H.	EB005, EB006.	Chang, Gau-Zu	BA014.
Bukowsky, M.	EE006.	Chapman, O.L.	BC036.
Bukta, J.F.	BC035.	Chatterji, P.K.	M070.
Buonocore, M.G.	EB025.	Cheevers, W.P.	EC011.
Burke, G.H.	ER011.	Cheng, S.W.H.	BG016, BG017.
Burton, A.C.	EE001, EE002, EE017.	Cherniack, R.M.	EJ025.
Butler, K.D.	BC002, BC016, BC017.	Cherwinski, W.J.	BC037.
Butson, F.J.	EH004.	Chess, G.F.	ER056, M019, M020, M021.
Butts, R.E.	AF007, AF008, AF020.	Chevendra, C.R.	P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013.
Byer, D.	EM001.	Chew, E.C.	ED021.
Calaresu, F.R.	ER011, ER012, ER013, ER032, ER033, ER046, ER056, ER057, ER058, ER059, M021.	Chisholm, M.H.	BC009, BC010, BC038, BC039.
Callus, P.	EC027.	Chodirker, W.B.	EJ025.
Cameron, M.A.S.	AC001.	Chung, W.P.	ED011.
Campbell, D.H.	EC016.	Church, W.R.	BE006.
Canham, P.B.	EE003, EE006, EE019, EE047, EE004.	Clark, C.	EF026, EJ007.
Carlson, K.A.	CG029.	Clark, H.C.	BC009, BC010, BC011, BC012, BC018, BC037, BC038, BC039.
Carlson, P.M.	CG006, CG032, CG095.	Clark, R.J.	BC040, BC041, BC042, BC043, BC044, BC045, BC046.
Carmichael, C.M.	BF006.	Clarle, O.	LG001.
Carroll, J.M.	BD004, BD005, BD006, BD007, BD030.	Clattenburg, R.E.	EJ027.
		Clement, J.	EB003, EB004, EB007, EB008.
		Clements, D.L.	EP001.
			BA001, BA005, BA006, BA007.

Colhoun, E.H.	EP001, EP002, EP012, EP013.	Darbha, D.M.	BF003.
Collins, J.A.	EK002, EK003, EK005, EK009, EK010.	Dave, V.	BC049, BC050, BC051.
Collins, T.J.	AB004, AB005.	Davenport, A.G.	M022, M023, M024, M025.
Collins, W.M.	BA008.	David, C.W.	BC052.
Comarr, A.E.	EU018.	David, R.B.	EF006, EF007.
Conger, A.J.	CG007.	David, S.M.	EJ038.
Conlin, D.	CG008.	Davidson, P.D.	CG050.
Conrad, B.	ER015.	Davies, B.W.	BC053.
Conron, A.B.	AB006.	Davies, J.S.	BI005.
Cook, F.S.	BI022.	Day, A.W.	BI006, BI007.
Cook, R.A.	ED003.	Dayan, A.D.	E0004.
Cooke, J.D.	ER016, ER017, ER018, ER019, ER060.	Deakin, A.S.	BA010.
Cooper, R.G.	H031.	Dean, P.A.W.	BC020.
Cope, D.A.	EE005, ER009.	De Fabry, A.S.	N001, N002, N003.
Cordes, D.L.	CC019, CC020.	Della Valle, B.	BC020.
Corish, J.	BC047, BC048.	de Mayo, P.	BC022, BC023, BC024, BC054, BC055, BC084, BC085, BC090.
Cornhill, J.F.	EE035.	Denis, A.B.	CH006, CH007, CH008, CH009, CH010, CH011, CH012.
Cosentino, F.	K002.	Dennis, S.C.R.	BA008, BA011, BA012, BA013, BA014, BA015, BA016, BA036.
Costello, C.G.	CG051.	Denny, J.P.	CG009, CG010, CG011.
Courville, J.	EB012.	Denton, D.W.	EU013.
Cousineau, D.F.	CH051.	Desikachary, K.	BB008, BB009.
Covey, D.F.	BC070.	Devereux, E.J.	AB007.
Cowie, H.C.	EU012.	Dewdney, A.K.	BD008, BD009.
Craggs, J.W.	BA009.	Dhannoun, H.Y.	BE007, BE008.
Craig, A.W.	CF007, CF008, CF009, CF010.	Dickinson, S.M.	M005, M006, M007, M008, M009, M030.
Craswell, P.W.	EJ029.	Di Lauro, C.	BC030, BC032.
Creegan, S.M.	F002, F003.	Dilworth, G.	EC021.
Creighton, D.G.	AD005, AD006.	Dinka, S.	K014.
Creighton, M.O.	ED004, ED005.	DiStefano, J.J.	H011.
Crews, E.W.	BC067.	Dixon, S.J.	EE006.
Critz, J.B.	ER006, ER020, ER021, K007, K021.	Dobell, W.M.	CF011, CF012, CF013, CF014.
Crookell, H.	H004, H005, H006, H007, H008, H009, H010.	Dolan, F.T.	J003, J004.
Crothers, S.F.	EC012.	Domoney, D.W.	CG012.
Crowe, C.M.	M067.	Doolen, G.	BH003, BH028.
Cummins, J.E.	BI002.	Donisch, E.	EB009.
Cunningham, D.A.	ER020, ER021, K005, K006, K007, K008, K009, K011, K014, K020, K021, K025.	Dossetor, J.B.	EJ030, EJ062, EJ071, EJ072.
Czurda, K.	M071.		

Douglas, A.E.	BC031.	Emmons, P.R.	EF014.
Dowling, R.H.	EJ070.	Engels, G.G.	BE025.
Downer, R.G.H.	BJ006, BJ007.	Erskine, J.	H030.
Dragland, S.L.	AB008, AB009, AB010, AB011.	Evans, D.R.	CG013, CG014.
Drake, C.G.	EF001, EF002, EF012, EF013, ET001.	Evans, J.	EU015, EU016.
Dreimanis, A.	BE009, BE010, BE011, BE042, M072.	Evans, J.C.	BB010, BB011.
Dreyer, F.A.	CD006, CD007.	Evered, M.D.	ER024.
Driedger, A.A.	EJ031, EJ032.	Everling, B.W.	BC052.
Drinnan, A.J.	GA002.	Ewart, D.F.	ED018, ED019.
Drossos, G.	M082.	Eynon, R.B.	K010, K011, K020, K025.
Drummond, D.	EW001.	Fabes, L.	BC069.
Drury, P.J.	EC031, EC032.	Fackrell, H.B.	EC012, EC013.
Dubas, T.C.	EP014, EP015, EP016, EP017.	Fahselt, D.	BI008.
Duff, J.H.	EU003, EU004.	Farrar, L.G.	EU005.
Duffy, G.	EJ080.	Farrow, G.A.	EU006.
Dumas, G.	CG021.	Faught, J.W.	EC014, EC021.
Dumin, F.	CD008.	Feasby, W.H.	GB001.
Duncan, P.	EP002.	Feenstra, H.J.	CG024.
Dunford, M.	CG041.	Fejer, D.	CH015.
Dunham, C.B.	BD010, BD011, BD012, BD013, BD014, BD015, BD016, BD017, BD018.	Felderhof, C.H.	EJ063.
Duong, T.B.	M046, M047.	Fenton, S.A.	EU006.
Durand, R.E.	EE007, EE043, EE044, EE045, EE046, EE008.	Ferguson, G.G.	EE010, EE036, EE037, EF015, EF016.
Dushane, J.W.	EF014.	Ferrence, R.	CH026, CH063, CH065.
Dvorak, Z.	BF004, BF009.	Fetterly, J.C.M.F.	EJ009.
Dyson, C.	EL001.	Filion, W.G.	BI009.
Ebanks, G.E.	CH013.	Finlay, B.	EE018.
Ebisuzaki, K.	EU002.	Finlay, J.B.	EE011.
Eble, J.N.	EP003, EP004.	Finlay, J.C.	GC020.
Edgar, A.D.	BE012, BE020, BE040.	Fischman, S.L.	GA002.
Edwards, P.	CH014.	Fisher, C.	BG013.
Effer, S.	EK006.	Fisher, J.C.	BG005.
Egwu, I.N.	EC025.	Fitch, W.	EF016.
Ehrman, J.B.	BA017.	Fitz-James, P.C.	EC015.
Ehsani, A.A.	EJ043.	Flaherty, D.H.	CD013.
Eick, J.D.	EE009, GC002.	Fleet, M.E.	BE013, BE014, BE015, BE016, BE017, BE034, BE035.
Elder, H.W.	EJ054.	Flint, A.P.F.	ER025, ER026, ER027, ER028.
Ellis, J.C.	BJ031.	Flumerfelt, B.A.	EB010, EB011, EB012.
Ellsworth, L.R.	ER022, ER023.	Fon, W.C.	BH004.
Emerson, G.S.	M027.	Foreman, J.E.K.	M028, M029, M030.
Emerson, R.L.	CD009, CD010, CD011, CD012.	Forrest, J.	F004, LG002.
		Forsythe, P.A.	BH007.
		Foster, M.	I020.
		Fraleigh, D.M.	F005.

Frankena, M.	CB014, CB015, CB016.	Gill, G.	BD007.
Franko, A.J.	EE039.	Gillespie, R.J.	BC020.
Fraser, R.R.	BC056.	Gillis, L.B.	BC036.
Fraser, W.	BD007.	Girvin, J.P.	ER039.
Frei, J.V.	E0005, E0006, E0016.	Gishler, J.R.	P014.
Fremlin, J.H.	EJ022, EJ040.	Glavcheva, L.	ER029.
Fried, J.	CB017.	Gold, R.E.	ET002, ET003.
Frieden, E.	BJ002, BJ019.	Goldschlager, A.J.	AD007.
Friedman, S.M.	EB028.	Gomez, M.R.	EF006, EF007.
Fromer, J.R.	EE009.	Good, R.J.	EE009.
Fry, J.N.	H012, H019.	Goodchild, M.F.	CC001, CC002, CC003, CC004.
Fryer, B.J.	BE026.	Goodstadt, M.S.	CG084.
Fuelleman, R.	EU018.	Gordon, M.	BC057.
Fyfe, W.S.	BE001, BE002, BE003, BE004, BE005, BE007, BE008, BE018, BE019, BE036.	Goto, G.	GC001.
		Gough, J.L.	BC058.
		Gowdey, C.W.	EP003, EP004, EP012, EP013.
			CG086, CG087.
Gallagher, D.F.	BH004.	Graef, J.	BB004, BB005, BB007, BB008, BB009, BB010, BB011.
Gammal, E.B.	EB013, EB024, EK004.	Gray, D.F.	LG002.
Garcia, A.M.	BC030.	Gray, D.M.	BB018.
Gardner, D.G.	E0007, E0008, E0009, E0010.	Gredley, P.R.	BB015.
Gardner, R.C.	CG015, CG016, CG017, CG018, CG019, CG020, CG021, CG022, CG023, CG024, CG042, CG043, CG081, CG090.	Green, A.E.	CH035.
		Green, L.	EJ058.
		Green, R.N.	EA003, EA004, EA013.
Gargantini, I.	BD001, BD019, BD020, BD021, BD022, BD023, BD024, BD025, BD026, BD027.	Greenway, R.E.	EG002.
			K012, K013.
Gatfield, P.D.	ED007.	Gregg, R.	BI010, BI019, BI020.
Gavras, H.	EJ046.	Gregory, C.J.	H013, H014, H015, H016.
Geddes, B.A.	EB035, EJ033, EJ034, EJ041, EP010.	Greyson, R.I.	CH064.
			ER002, ER003, ER028, ER030.
Geiger, H.B.	EE012.	Grindlay, A.	EE012, EE015, EE016, EE031, EE042.
Gelinas, P.J.	M073.	Grindstaff, C.F.	BC059.
Gent, M.	EJ036.	Grinwich, D.L.	K014.
George, J.A.	BJ036.	Groom, A.C.	CA001, CA002, CA003, CA004.
George, P.M.	CH016, CH017.		CD014, CD015.
Gerber, D.A.	AF009, AF010.	Grover, S.H.	BA018, BA019.
Gerson, D.F.	EE013, EE014.	Guber, S.	EJ037.
Geschier, R.	M077.	Guemple, D.L.	BE020.
Geschwender, J.G.	CH017.		BC058, BC059, BC060, BC061, BC062, BC063, BC064, BC065, BC066.
Gibbins, J.A.	K011.	Guinsburg, T.N.	
Gidney, R.D.	LH001, LH004.	Gujadhur, T.K.	
		Gunton, R.W.	
		Gupta, A.K..	
		Guthrie, J.P.	

Gutteridge, D.G.	LD001, LD002, LD003, LD004.	Haystead, J.	EJ071.
Gwinnett, A.J.	EB014, EB025.	Heagy, F.C.	EJ031.
Gwyn, D.G.	EB010, EB011, EB015.	Hearn, M.J.	CG014.
Gwyn, H.	BE021.	Hearn, M.T.	CG013.
Gwyn, R.	CH036.	Hedaya, E.	BC013.
Ha, V.	M087.	Heffernan, J.J.	H003.
Haehling Von Lanzenauer, C.	H017, H018.	Heinicke, A.G.	BG018.
Haessel, W.W.	CB005, CB018, CB019.	Hennen, B.K.E.	EH005.
Hahn, E.	CD022.	Henrici, P.	BD027.
Haider, R.	EE021.	Henry, J.L.	ER032, ER033.
Haines, M.D.	EJ038.	Henshel, A.M.	CH021.
Haines, R.A.	BC067, BC068.	Henshel, R.L.	CH018, CH019, CH020, CH021.
Hair, D.S.	AB012.	Hepp-Reymond, M.C.	ER034, ER035.
Hamacher, J.A.	CG089.	Hermann, A.H.	EJ066.
Hamilton, J.T.	EJ041.	Heseltine, G.F.D.	ES006.
Hamilton, M.G.	EP005.	Hicking, M.A.	I009.
Hamilton, J.T.	EP006, EP010, EP011.	Hickman, C.J.	BI001.
Hamilton, R.M.G.	ED002.	Hicks, B.E.	H020.
Hamza, V.M.	BF005.	Hidalog, M.	BH003, BH028.
Hanumantha, R.R.	ED006.	Hidayet, M.A.	EB029, EB016, EB017.
Harding, D.R.K.	BC082.	Hieatt, A.K.	AB013, AB014, AB015, AB016, AB017, AB018.
Harding, P.G.R.	EK006.	Hieatt, C.B.	AB019, AB020.
Harding, P.	ER031.	Higgins, M.W.	K008.
Hardy, K.G.	H012, H019.	Hirst, M.	EP001, EP005, EP007, EP009.
Hardy, M.	LC001, LC002, LC003, LC004, LC005.	Ho, M.Y.	EK006.
Harle, J.R.	BI011.	Hobkirk, R.	EJ058.
Harman, D.J.	M031.	Hockney, D.J.	AF011.
Harper, A.M.	EF016.	Hodder, R.W.	BE022.
Harry, T.	EC020.	Hodgson, R.C.	CG044, H021, H022, H023, H024.
Hart, D.E.	BJ008.	Hofstee, J.	BH007.
Hart, J.F.	BD028.	Hohner, R.A.	CD016, CD017.
Harth, M.	EJ038, EJ039.	Holbrook, J.A.D.	BH022.
Hartz, S.	EJ046.	Holder, M.A.	AD008.
Harvey, C.	CH014.	Hollenberg, M.J.	EB002.
Harvey, D.	EV001.	Holsworth, C.	BJ027.
Hashish, M.G.	M002, M032, M033.	Holsworth, W.N.	BJ009.
Hatch, L.A.	EC005.	Holt, W.V.	BJ010.
Haust, H.L.	ED007.	Hooker, C.A.	AF012, AF013, AF014, AF015, AF016, AF017.
Haust, M.D.	ED014, E0011, E0012, E0013, E0014, E0015.	Hopper, K.	EJ008.
Hauw, T.L.	BC040.	Horn, E.	F006.
Hay, D.R.	BH005, BH006.	Horvath, F.E.	ER038.
Hayden, D.B.	BI015.	Hosking, D.J.	EJ040.
Hayden, F.J.	K015.	Hoskins, P.A.	ET002.
Hayman, W.P.	EU006.	Hourany, L.	CG030.
		Howard, J.H.	H025.
		Howarth, E.	N009.

Howell, R.L.	EE017.	Jacobs, P.W.M. (cont'd)	BC075, BC076, BC077, BC101, BC104.
Howson, W.T.	EJ030.	Jaeschke, R.	BH008.
Houston, J.D.	BH005.	Jaffe, P.G.	CG032.
Hsi, S.P.	BC069.	Jandali, T.	M024, M025.
Huang, F.	BC097.	Janelle, D.G.	CC005, CC006, CC007, CC008.
Huang, J.C.C.	EC012.	Jarmain, W.R.	BH009.
Huang, Y.H.	CG025, CG026, ER047.	Jato-Rodriquez, J.J.	ED008, ED009.
Hudson, A.J.	ED008, ED009, ED014.	Jarmain, W.R.	BH024, BH025, BH026.
Huie, P.	BJ020.	Jarvis, G.K.	CH022.
Humphrey, D.R.	BC031.	Jay, A.W.L.	EE004, EE019.
Hunter, D.H.	BC070.	Jenkin, R.D.T.	EJ009.
Hunter, E.	E0021.	Jennett, B.	EF016.
Hunter, J.A.A.	EE011, EE018.	Jobidon, G.	BF007.
Hunter, W.S.	GB002, GB003, GB004.	John, P.K.	BH010, BH011, BH012, BH013.
Hurst, L.N.	EU005, EU007.	Johnson, A.E.	M041, AF018.
Hussain, R.	EC016.	Johnson, A.I.	M049, M067, M079.
Hutchinson, R.W.	BE023, BE024, BE025, BE026, BE041.	Johnson, A.L.	BC070.
Hyatt, A.M.J.	CD018, CD019.	Johnson, A.S.	P015.
Igartua, J.E.	CD020.	Johnson, F.G.	CH026, CH063, CH065.
Illing, R.M.E.	BB001.	Johnson, H.J.	AF019, CB020.
Immerwahr, R.M.	AE001, AE002, AE003, AE004, AE005.	Johnson, H.T.	CB021.
Inch, W.R.	EE023, EE024, EE029, EE030, EU011, EU012.	Johnson, L.N.	EE009, EE020, GC002.
Inculet, I.I.	M013, M034, M035, M036, M037, M038, M039.	Johnson, M.L.	BI001.
Inwood, M.J.	ED017, E0023, EP008.	Johnson, R.H.	GA003.
Irisawa, J.	BH013.	Jonas, A.M.	EC003, EC025.
Issacharoff, M.	AD009, AD010.	Jones, D.E.G.	BC078.
Isyumov, N.	M023, M024.	Jones, H.R.	EF017.
Ivey, C.M.	M040.	Jones, J.	BH014.
Iwasutiak, R.	E0005.	Jones, T.R.	EJ041.
Jackson, C.H.	EP007, EP009.	Jones, V.T.	BC032.
Jackson, D.E.	BE027.	Jordan, F.	BC064, BC065.
Jackson, D.N.	CG007, CG027, CG028, CG029, CG030, CG031, CG046, CG047.	Jordan, R.E.	GC001.
Jackson, J.E.W.	CH040.	Josephson, R.	E0021, EB018.
Jaco, N.T.	EK006, ER031.	Joshi, G.C.	BC079.
Jacobs, P.W.M.	BC047, BC048, BC071, BC072, BC073, BC074,	Judd, W.W.	BJ011, BJ012, BJ013, BJ014, BJ015, BJ016.
		Judson, J.W.T.	I010, I011, I012.
		Julien, M.	M087.
		Jury, W.	Q001.
		Just, J.J.	BJ002, BJ017.
		Jutras, G.C.	CG081.
		Kalliner, J.S.	EJ003.
		Kalman, C.	CG056.
		Kaluza, H.J.	LA001, LA002.

Kapur, R.N.	E0008.	Kleine, L.P.	ED010.
Karliner, J.S.	EJ043, EJ044, EJ053.	Klinck, C.F.	AB022, AB023, AB024.
Karnischky, L.A.	BC013.	Knight, P.R.	I020.
Karrow, P.E.	EB010, BE042.	Knight, R.M.	H029.
Kaufmann, J.C.E.	E0003.	Kogon, S.L.	GA004.
Kaula, D.	AB018, AB021.	Korey, A.	EP006.
Kaye, J.D.	CA005, CA006.	Kosaric, N.	M044, M045, M046, M047, M048.
Keen, M.J.	BE006.		
Keenleyside, M.H.A.	BJ018.		
Keller, J.B.	K008, K009.	Kostuk, W.J.	EJ003, EJ006, EJ043, EJ044, EJ045, EJ053, EJ063.
Keller, M.F.	GG019.		
Kendall, S.B.	CG033.		
Kennedy, J.C.	EU008, EU009, EU010.	Koutsouvilis, A.	LJ001, LJ002, LJ003, LJ004.
	BE006.		
Kennedy, M.J.	ER003, ER004, ER030, ER036, ER037.	Kovach, D.	EC027.
Kennedy, T.G.		Kozlovskaya, I.B.	ER038.
		Kral, V.A.	ES001, ES002, ES003.
Kent, M.E.	BC013.		
Kerr, D.G.G.	CD021.	Krever, H.	I010, I014, I015, I016, I017, I018, I019, I020.
Kertesz, A.	EF008, EJ019.		
Key, W.B.	CE001, CE002.		
Khan, A.H.	EE021.		
Khan, M.I.	EP011.	Kriz, J.	M082.
Kidd, M.E.	AD011,	Kruger, P.	CD022.
Kidd, R.G.	BC018, BC025, BC080, BC081.	Kruglak, H.	BG020.
	EB019, EB020, EB027.	Kryn, E.T.	E0019.
		Kucerovsky, Z.	BH015, BH016, BH017, BH018.
Kiernan, J.A.			
	BF006.	Kuch, P.J.	CB022.
Killeen, P.G.	BC052.	Kucharczyk, J.	ER007.
Killian, R.J.	ED002.	Kuehner, D.	BD029.
Kim, J.J.	M042, M043.	Kullerud, G.	BE033.
Kim, S.K.	EJ029, EJ042.	Kunkel, J.H.	CH025.
Kimber, R.W.	CG034, CG035, CG036, CG037, CG038, CG039, CG040, CG041.	Kurosawa, H.	BC041, BC042.
Kimura, D.		Kusters, W.	BC084.
		Kwandt, P.J.	M004.
King, D.W.	BF008, BF010.	Labelle, K.S.	M021.
King, J.F.	BC082, BC083.	Lach, B.	E0015.
King, L.H.	BE006.	Laforest, L.	CH067.
King, P.C.	EJ010.	Lamarche, R.	BE006.
King, R.H.	CC009.	Lambert, G.R.	LB001, LB002, LB003, LB004.
King, S.	EC031, EC032.		
Kingston, J.G.	BA031.	Lambert, J.L.	BC070.
Kinnear, T.C.	H026, H027.	Lambert, W.E.	CG022, CG023, CG044.
Kipp, E.G.	M083.		
Kirby, D.M.	CG019, CG020, CG021, CG042, CG043.	Lamont, C.T.	EH005.
		Lander, J.R.	CD023, CD024, CD025.
Kirkham, P.G.	H028.	Landstreet, J.D.	BB001, BB002, BB012, BB013.
Kirsh, C.	BD006.		
Klaassen, D.J.	EJ009.	Langtvet, O.	CC010.
Klapp, O.E.	CH023, CH024.	Lapouyade, R.	BC085, BC088.

Lawr, D.A.	LG001, LH002, LH003, LH004. BC088.	Liu, F.S.	M050, M051.
Lawrence, A.H.	EJ010, EJ046.	Lo, K.Y.	M052, M053, M054, M055, M056, M057.
Lawson, D.H.	AF020.	Locke, M.	BJ020.
Leach, J.J.	GB006.	Lockhart, W.L.	ED011.
Leake, J.L.	CH068.	Lofts, B.	BJ034.
Leaman, T.L.	M048, M090.	Loftus, E.	BC004.
Leduy, A.	ES006.	Lohmann, R.C.	ET004.
Ledwidge, B.	M054, M055.	Lopez, Pacheco, J.	AH005, AH006.
Lee, C.F.	EU007.	Lorimer, J.W.	BC078, BC089.
Lee, J.	P016.	Loutfy, R.O.	BC023, BC090, BC091.
Lee, R.E.	H030.	Lovatt, F.E.	BC071.
Leenders, M.R.	EC017.	Lowe, R.P.	BH020, BH021.
Lees, R.K.	EJ033, EJ034, EJ035, EJ041, EJ047, EJ048, EJ055, EJ074, EJ075, EP010.	Luckman, B.H.	CC011, CC012.
Lefcoe, N.M.	CG045.	Lucier, G.E.	ER039.
Leith, W.R.	EF008.	Ludbrook, P.	EJ053.
LeMay, M.	BD028.	Ludin, H.P.	ER066.
LeMoyne, J.	BE027, BE028, BE029, BE030, BE031, BE032.	Luinstra, E.A.	BC082.
Lenz, A.C.	BE004.	Luke, T.M.	BA020.
Leonardos, D.H.	BH019.	Lundy, P.M.	EP012, EP013.
Leung, M.L.C.	BC086, BC087, BC102.	Lura, R.D.	BC036.
Lewis, C.	EB011.	Lyon, G.F.	BH022, BH023, BH043.
Lewis, P.R.	K016, K017.	Lytle, E.A.	BH021.
Leyshon, G.A.	K018.	Macadam, R.F.	EJ046.
L'Heureux, W.L.	EF003.	McAulay, D.J.	GB007.
Li, K.T.	M049.	McCain, W.G.	EU005.
Li, M.C.	BI012.	McCall, M.L.	J005.
Li, Y-H.C.	BC023.	McCallum, J.C.	BH024, BH025, BH026.
Liao, C.C.	BC016.	McCarter, J.A.	EV001, EV003, EV004, EV007, EV008.
Libbey, E.T.	BE020.	MacClement, B.A.E.	EE038, EE039.
Lidiak, E.G.	E0009.	McClure, D.J.	ES006.
Lim, H.	ED009.	McConnachie, P.R.	EJ030, EJ072.
Lin, C.H.	EU005, EU007.	McCourtie, D.R.	EJ054, EJ055, EJ074, EJ075.
Lindsay, W.K.	GA004.	McCredie, J.A.	EE023, EE024, EU011, EU012.
Ling, S.C.	EJ004, EJ005, EJ010, EJ029, EJ032, EJ042, EJ046, EJ049, EJ050, EJ051.	McCully, E.K.	EC018.
Linton, A.L.	CH011, CH012. H031.	McDermot, R.S.R.	EJ009.
Lipkin, J.	BJ003, BJ019.	MacDonald, C.	BC092.
Little, B.	EJ042.	MacDonald, F.A.	BH027.
Little, G.H.	AA003, AA004, AA005.	MacDonald, J.C.F.	ET005, ET006.
Littlejohn, C.P.	AA005.	MacDonald, J.W.D.	EJ034, EJ035.
Littlewood, A.R.	AA005.	MacDonald, J.W.D.	EJ056, EJ057.
Littlewood, R.J.	AA005.	McDougall, A.K.	CF015, CF016.
		MacFarlane, T.W.R.	EE025.
		McGowan, J.W.	BH032, BH034, BH035.

McGuire, J.H.	BH028.	Matthews, R.W.	BC080.
MacInnes, C.D.	BJ021, BJ029, BJ030.	Matthias, R.	EP002.
MacIntyre, D.G.	BE022.	Maynard, P.L.	AF024.
McKee, A.F.	N004.	Mead, E.R.	BG015, BG016, BG017.
McKeen, W.E.	BI013, BI014.	Meath, W.J.	BC035, BC094.
McKibben, W.	H039.	Meath, W.M.	BC003.
McKie, D.C.	CH027.	Medzon, E.L.	EC014, EC019, EC020, EC021
McKyes, E.	M074, M075.		EC022.
McLachlin, A.D.	EU013.	Mehar, C.S.	EP014.
McLaren, R.H.	I021.	Mehar, G.	EP017.
McLean, A.P.H.	EU004.	Meir, A.	BG004.
MacLean, L.D.	EU004.	Melvin, J.R.	CB023, CB024.
McLeavey, D.W.	H032.	Mereau, R.F.	BF007.
McMurray, W.C.	ED012.	Mereu, J.A.	BG019.
MacNeill, I.B.	BA021.	Mereu, R.F.	BF008, BF010, BF012.
Macpherson, C.F.C.	ED010.	Messick, S.	CG031, CG046.
MacRae, N.D.	BE033.	Metcalf, G.	CD026.
McWhinney, I.R.	EH006, EH007, EH008, EH009, EH010, EH011, EH012.	Metzner, H.J.	K009.
		Meyer, J.L.	GC002.
		Middleton, R.B.	I020.
Machanda, S.K.	ER029.	Migneron, R.	BA018, BA019.
Mackel, R.	ER035.	Mikalachki, A.	H033, H034.
Magee, W.L.	ED012.	Milburn, G.	CC027, LG003, LG004, LG005, LG006, LG007, LG008.
Magherini, P.C.	ER040, ER053.		
Mai, F.M.	ES004, ES005.	Millar, J.S.	BJ022, BJ023, BJ024.
Mailer, C.	EE022.	Miller, A.J.	CF017.
Mainguy, P.N.R.	BI015.	Miller, D.M.	EE027.
Maitra, S.C.	E0016.	Mills, D.G.	EP008.
Makin, B.	M018.	Mills, D.W.	EL002.
Makler, H.M.	CH027.	Milne, B.	CH005, EH013.
Maloney, M.J.	CG080.	Milne, J.K.	EK006.
Maloney, T.L.	K019.	Milne, K.	ER031.
Mangler, K.W.	BA009.	Minielly, R.W.	EC022.
Manning, G.W.	EP011.	Misra, K.C.	BE034, BE035.
Mantle, J.H.	F007.	Misra, R.K.	BJ021, BJ025, BJ026, BJ027.
Manzer, L.E.	BC010, BC011, BC037, BC039, BC043, BC044, BC045.	Mitalas, R.	BB019, BB020, BB021, BB022.
Marenin (Little), I.	BB014, BB015.	Mitchell, M.P.	ED013.
Marlborough, J.M.	BB016, BB017, BB018, BB022.	Mittal, R.K.	BC046.
		Mogenson, G.J.	CG001, CG025, CG026, ER007, ER008, ER009, ER012, ER013, ER024, ER041, ER042, ER043, ER044, ER045, ER046, ER047,
Marras, A.	AF021, AF022, AF023.		
Marti, A.	AH007.		
Martin, J.	BI007.		
Martin, P.A.	EB021, EB022.		
Martin-DeLeon, P.A.	EB023, EB024.		
Martinello, B.P.	GD003.		
Marty, R.A.	BC024.		
Massey, P.M.O.	EJ023.		

(cont'd)

- Mogenson, G.J. (cont'd) ER048, ER049,
ER054.
- Mok, A. ER009, ER048,
ER049.
- Montemurro, D.G. EB003, EB004,
EB007, EB008.
- Montoye, H.J. K008, K009,
K014.
- Moorcroft, D.R. BH001, BH002.
- Moore, D.S. GA005, GA006.
- Moore, J.T. BG020.
- Moorhead, J.M. BB023.
- More, R.A. H031.
- Morf, M.E. CG047.
- Morgan, J.I. M041.
- Moriarty, K.J.M. BA018, BA019.
- Morin, J.P. M056.
- Moyers, R.E. BG004.
- Muhlstock, B. EV004.
- Mulligan, G.A. BI004.
- Mullins, D.E. BJ028.
- Munday, R.N. ES005.
- Mundy, B. EU017.
- Mundy, H.B. EU019.
- Murison, C.L. AA006.
- Murray, H.G. CG048.
- Murray, R.G.E. EC008, EC023,
EC034.
- Murty, R.C. BH029, BH030.
- Musey, P.I. EJ058.
- Mustoner, E. BF001.
- Nachmias, J. CG066.
- Nagai, T. EE028.
- Nancollas, G.H. GC002.
- Natale, R. EJ004, EJ005,
EJ051.
- Naylor, D. BA022, BA023,
BA024, BA025,
BA026.
- Neal, E.R.W. BE006.
- Neill, S.D. J006, J007,
J008, J009,
J010, J011.
- Nelson, J.G. CC013, CC014,
CC015, CC016,
CC017, CC018,
CC019, CC020,
CC021, CC022.
- Nerenberg, M.A.H. BA027.
- Ness, G. K020.
- Neufeld, M.M. CG049.
- Neufeld, R.W.J. CG049, CG050,
CG051.
- Neuhauser, R. AG001, AG002,
AG003, AG004,
AG005.
- Neumann, A.W. EE009.
- Ng, K.H. BH012, BH013.
- Ng, W.L. BC071, BC072,
BC073.
- Nicholls, J.V.V. EL003.
- Nicholls, R.W. BH024, BH025,
BH026.
- Nicholson, A.A. BC054.
- Nicholson, N.L. CC023, CC024,
CC025, CC026,
CC027.
- Nickon, A. BC070, BC097.
- Nobbe, C.E. CH028.
- Nobbs, R.A. H001, H032,
H035.
- Noel, S.J.R. CF018.
- Norry, H.T. EA005.
- Nource, R.E.M. H036.
- Novak, M. M011, M058,
M059, M060,
M061, M062,
M063, M064,
M065.
- Nowak, E.S. M066, M089.
- Nuttall, J. BH003, BH027,
BH028, BH031.
- Odjig, L. CG009, CG010,
CG011.
- Ogelsby, J.C.M. CD027, CD028,
CD029, CD030,
CD031, CD032.
- Ogilvie, J.C. CG012.
- O'Hea, E.K. ER050, ER051,
ER068.
- Okamoto, K. ER016.
- Okraku, I.O. CH028.
- Olive, P.L. EE029, EE030.
- Oliver, G.L. EL004.
- Oliver, J. E0006.
- Olson, L. EJ030, EJ071.
- Onth, P.H.R. BH035.
- Oosterhoff, A.H. I022, I023.
- Orange, J.C. N005, N006.
- Orbach, O. M067.
- Orloci, L. BI016.
- O'Rourke, R.A. EJ053.
- Otabe, S. EB012.
- Oteruelo, F.T. ED014.
- Ottonen, P.O. EV005, EV006.
- Overton, R.C. CD033, CD034.

Owens, R.M.	BC036.	Philp, R.B.	E0017, E0023, EP008, EP018, EP019.
Pace, W.E.	EJ059, EJ060.	Phipps, J.B.	BI012, BI017, BI018.
Packer, R.W.	CC028.	Piggott, G.L.	CA005, CA006.
Paivio, A.	CG008, CG052, CG053, CG054, CG055, CG056.	Plank, E.D.	BC036.
Pajari, G.	BE006.	Platt, R.H.	BC019.
Palmer, A.J.	BH032.	Plyley, M.J.	EE015, EE031.
Palmer, J.P.	CB025, CB026, CB027, CB028, CB029.	Pompeiano, O.	ER040, ER053.
Panjer, H.H.	BG017.	Poole, R.J.	EE014.
Pant, M.M.	BH033, BH036.	Portis, B.	H038.
Papadatos, K.	M068.	Pospielovsky, D.V.	CD035, CD036, CD037, CD038, XX002.
Papmehl, K.A.	AG006.	Possmayer, F.	ED015, ER031.
Parker, G.D.	AB025.	Pottier, J.J.G.	CG060.
Parker, G.R.	EX001, EX002.	Potts, N.	BB028, BB029.
Parker, J.M.	EP014, EP015, EP016, EP017, EW001.	Powell, R.A.	BC033.
Parnell, A.G.	EC028.	Prevett, J.P.	BJ029, BJ030.
Parobek, L.	M015, M016.	Price, I.C.	EC002.
Parsons, L.M.	BC074.	Pringle, J.F.	EJ009.
Passi, R.B.	EJ067.	Pryor, E.T.	CH029.
Paszyc, S.	BC023.	Puddephatt, R.J.	BC012, BC053.
Paterson, D.H.	K021.	Purdy, J.D.	LH005.
Paterson, N.A.M.	EJ034, EJ035, EJ048.	Purtscheller, F.	BE036.
Patt, N.L.	EJ063.	Pylyshyn, Z.	CG061, CG062.
Paulekat, K.C.	BH017.	Quastel, D.M.J.	ER016, ER017, ER018, ER019.
Payne, N.C.	BC053, BC093.	Quigley, R.M.	M069, M070, M071, M072, M073, M074, M075.
Peach, D.A.	H037.	Rajan, B.	AB026, AB027, AB028, AB029, AB030, AB031, AB032, AB033.
Pearce, G.A.	AF020, AF024.	Rajotte, R.	EJ062.
Pearson, N.	CF019, CF020, CF021, CF022, CF023, CF024, CF025, CF026, CF027, CF028, CF029.	Rake, A.T.	BC017, BC018.
Pedder, A.E.H.	BE031.	Ramaprakash, H.	EK006.
Pederson, D.R.	CG057, CG091.	Rampling, A.	EC026, EC033.
Pendyala, S.	BH034, BH035.	Ramsey, L.W.	BB011.
Pepper, S.	CG058, CG059.	Ranganathan, N.	EJ063.
Percy, D.H.	EC003, EC007, EC024, EC025.	Rao, C.C.	P020, P021, P022, P023, P024, P025, P026, P027, P028, P029.
Perry, D.G.	BE032.	Rau, M.E.	BJ031.
Peterson, K.L.	EJ003, EJ043, EJ044.	Raud, H.R.	EK005, ER005.
Petrie, B.M.	K012, K013, K019, K022, K023, K024.	Ray, D.W.	LH006, LH007.
Phelps, E.	P017, P018, P019.	Rayner, W.B.	I024, I025, I026.
Phillips, J.G.	BJ034.		

Read, B.A.	BH014.	Roy, C.	M076, M077, M078.
Reaney, J.	AB034.	Roy, M.	M057.
Rechnitzer, P.A.	EJ064, ER021.	Rozanis, J.	EC028, EC029, EC030.
Reddi, Venkata B.	BI018.	Rudzik, A.D.	EP003.
Redekop, E.H.	AB035.	Rumbold, D.G.	BH016, BH017, BH018.
Redinger, R.N.	EJ065, EJ066, EJ067, EJ068, EJ069, EJ070.	Rump, E.E.	ES005.
Redman, H.C.	ET003.	Rushworth, G.	EF011.
Reese, L.	EU014.	Russ, L.J.	EV008.
Reid, E.L.	K024.	Russek, M.	ER052.
Reid, J.A.	GA007, GA008.	Russell, A.S.	EJ072.
Repo, R.U.	EU015, EU016.	Ruud, C.A.	CD039, CD040.
Reuber, G.L.	CB030, CB031, CB032, CB033, CB034, CB035, CB036, CB037, CB038.	Sachs, K.	M064.
Reynolds, A.L.	EJ024.	Saeki, G.	M079.
Reynolds-Warnhoff, P.	BC103.	St. Julien, P.	BE006.
Richardson, R.A.	EI001.	Saklofske, D.	CG014.
Richmond, J.C.	EJ042.	Sales, J.L.	EU017.
Riera, A.	BC094.	Salter, R.S.	BC095.
Rinehart, J.W.	CH017.	Sancton, A.B.	CF030.
Roach, M.R.	BA038, BA039, EE005, EE010, EE025, EE032, EE033, ER034, EE035, EE036, EE037.	Sanders, J.B.	AD012.
Robertson, H.A.	BJ032, BJ033.	Sanford, B.V.	BE044.
Robertson, J.G.	M088.	Santosuosso, A.	CD041.
Robinow, C.F.	EC018.	Sapp, J.P.	E0010, E0018, E0019.
Robinson, J.	EC012, EC013, EC027.	Sarjeant, W.J.	BH018.
Robinson, T.	EJ063.	Saunders, A.	EU014.
Roe, N.	CC021.	Sawhney, V.K.	BI010, BI019, BI020.
Rogers, C.	BA028, BA029, BA030, BA031.	Scapinello, K.	CG043.
Rogers, T.B.	CG051.	Schloessin, H.H.	BF003, BF009, BF011.
Rokeach, M.	CG063.	Schlutter, H.-J.	AE006, AE007.
Rollman, G.B.	CG064, CG065, CG066.	Schmeiser, J.A.	N007.
Roodman, G.M.	H002.	Schnore, M.M.	CG067.
Roseman, F.	CB038.	Schwartz, B.B.	BA003.
Rosenberg, B.	H039.	Scott, G.D.	BI021.
Ross, J.H.	CC029.	Scott, M.S.	BA032.
Ross, J. Jr.	EJ006, EJ043.	Scott, S.	CC022, EE036, EE037.
Roth, J.S.	BJ004.	Seguin, J.J.	ER040, ER053, ER067.
Rounthwaite, F.J.	EM001, EM002, EM003.	Seiffert, S.L.	D002, D003, D004.
Rowan, J.O.	EF016.	Sellars, S.W.	AF002.
Rowley, L.A.	BC004, BC005, BC006, BC007, BC008.	Sellery, G.R.	EA006, EA007, EA008.
		Sells, V.E.	BH005, BH006.
		Serviant, G.A.	M080.
		Seto, P.	BC095.
		Sharbrough, F.W.	EF017.
		Sharpe, J.R.	EU018.

Shaver, E.L.	EB021, EB022, EB024, EB030.	Sobel, B.E.	EJ003, EJ043, EJ044, EJ045.
Shaw, D.B.	K011, K020.	Solomon, R.M.	I028, I029.
Shaw, D.C.	H040, H041, H042, H043.	Soltan, H.C.	EB026.
Sheehan, P.M.	BE038, BE039.	Solyom, C.	ES006.
Shelstad, K.A.	M068, M081, M082, M083.	Solyom, L.	ES006.
Sherebrin, M.H.	EE038, EE039.	Song, S.H.	EE012, EE016, EE040, EE041, EE042.
Sherrard, W.	EK006.	Sood, M.K.	BE040.
Shervill, R.N.	AH008.	Sorrentino, R.M.	CG082, CG083, CG084.
Sheyholeslam, Z.	EB025.	Southern, R.F.	EJ020.
Shim, S.C.	BC036.	Spence, I.	CG012, CG085, CG086, CG087.
Shortt, K.R.	ET005.	Spence, M.W.	CA007, CA008.
Shvi, R.	M077.	Spencer, H.	AE008, AE009, AE010.
Siegel, J.A.	CG068, CG069, CG070, CG071, CG079.	Spinney, H.G.	BC018, BC080, BC081.
Siegel, W.	CG071, CG072, CG073, CG074, CG075, CG076, CG077, CG078, CG079.	Spoerel, W.E.	EA002, EA003, EA009, EA010, EA011, EA012, EA013.
Siess, T.F.	CG080.	Sridhar, R.	BC097.
Silve, A.	EB015.	Srikameswaran, K.	BC034.
Silver, M.D.	EJ063.	Srivastava, V.K.	ED016.
Silverman, R.A.	CH031, CH032.	Stagat, R.	BH003, BH031.
Sim, S.K.	BC083.	Stallman, R.	K010.
Simon, A.	EJ006.	Staniforth, A.N.	BA015.
Simpson, C.M.	CD042.	Stanley, K.K.	ED017.
Simpson, D.W.	BF008, BF010.	Stavraky, K.	EG002.
Sinclair, N.R.	EC009, EC010, EC017.	Steele, I.K.	CD043, CD044, CD045.
Sinclair, P.R.	CH058.	Steele, J.E.	BJ006, BJ007, BJ008, BJ032, BJ033.
Singer, B.D.	CH033, CH034, CH035, CH036.	Steffens, A.B.	ER054.
Singh, H.	EJ046.	Steinberg, G.	ES006.
Singh, R.P.	EB003, EB004, EB005, EB006, EB007, EB008.	Stelling, J.G.	CH038.
Singhal, S.K.	EC031, EC032.	Stennett, R.G.	LC001, LC002, LC003, LC004, LC005.
Sinha, S.P.	I027.	Stevenson, H.A.	LH008, LH009.
Skinner, N.F.	N008, N009.	Stevenson, J.	BC075, BC076, BC077.
Small, D.M.	EJ066, EJ068, EJ069, EJ070.	Stevenson, J.A.F.	CG001, ER029, ER052, ER054, ER055.
Smart, R.G.	CH015, CH037, CH066, CH067.	Stewart, H.B.	ED017.
Smieja, F.	AH009.	Stewart, K.R.	K026.
Smith, A.A.	BC068.	Stewart, W.G.	BI022.
Smith, D.B.	ED011.	Stierwalt, R.E.	P030.
Smith, R.M.	EK006.	Stiller, C.R.	EJ030, EJ062, EJ071, EJ072.
Smythe, P.C.	CG021, CG081, LC001, LC002, LC003, LC004, LC005.		

Stocker, T.	CA008.	Taylor, A.E.	BF011.
Stoddart, R.W.	EB020, EB027.	Taylor, C.P.S.	EE022.
Stoessel, A.	BC057.	Taylor, D.M.	CG024, CG090.
Stothers, J.B.	BC039, BC049, BC052, BC056, BC057, BC058, BC059, BC070, BC088, BC096, BC097.	Taylor, J.R.	H026, H027.
		Teevan, J.J.	CH039, CH040.
		Tennakoon, D.T.B.	BC104.
Strejan, G.	EC007, EC016.	Teo, K.E.	BC100.
Strickland, K.P.	ED006, ED008, ED009.	Terasmae, J.	BE042.
		Ter Vrugt, D.	CG057, CG091.
Stuart, R.I.	EJ056.	Thain, D.H.	H044.
Stuart, R.K.	EJ057.	Thierrin, G.	BG001, BG014, BG021, BG022, BG023.
Subrahmaniam, K.	EG002.		BC001, BC002, BC104.
Suci, G.J.	CG089.	Thomas, J.M.	M089.
Suffel, F.G.	BE041.	Thomas, L.S.	ER057, ER058, ER059.
Sukava, A.J.	BC091, BC095, BC088.	Thomas, M.R.	ER060.
			BH006.
Sullivan, J.L.	M084.	Thomas, J.S.	EB028.
Sullivan, P.J.	BA033, BA034, BA035.	Tillotson, J.G.	I020.
		Todd, M.E.	EJ039.
Surette, P.L.	AB036.	Tomlinson, J.D.W.	BH019, BH033, BH034, BH036, BH037, BH038, BH044, BH045.
Sutherland, R.M.	EE007, EE008, EE024, EE030, EE043, EE044, EE045, EE046, EE048, EE049, EE050, EE051.	Thompson, J.M.	EJ055, EJ073, EJ074, EJ075.
		Tong, B.Y.	AE011, AE012, AE013.
Sutterlin, P.G.	BE021.		M078.
Sutton, M.	EK006.	Toogood, J.H.	ED004, ED005.
Suwa, K.	EJ045.	Tracy, G.L.	EX003.
Svrcek, W.Y.	M046, M047, M085.		EC006.
		Tremblay, M.	ER034, ER035.
Swaminathan, C.	M088.	Tevithick, J.R.	CC030, CC031, CC032.
Swan, Neil M.	LA002.	Trider, M.F.	BC101.
Swan, W.J.	EU010.	Tries, H.	ED017.
Swartman, R.K.	M086, M087, M088.	Trouche, E.	BH008.
		Troughton, M.J.	BH039, BH040, BH041.
Swartz, H.M.	BC027, BC099.		EJ005, EJ046, EJ050, EJ051.
Sweeney, P.	EU005.	Tsuboi, T.	CH041, CH042.
Swenson, J.R.	BC015.	Tubbs, P.K.	
Syme, R.	AA007, AA008.	Tunaley, J.	BC066.
Sydney, K.H.	K025.	Tunaley, J.K.E.	CG045.
			ER038.
Tabah, E.D.	EU003.	Turnbull, D.I.	I030.
Tague, J.	BD030.	Turner, R.J.	BC055.
Tam, R.M.K.	ER056.		
Tam, W.H.	BJ010, BJ034.	Ueda, Y.	
Tan, C.T.	BC056, BC059, BC097.	Uhlemann, M.R.	
		Uno, M.	
Tanaka, H.	M065.	Usprich, S.J.	
Tankel, H.I.	EJ081.	Usselman, M.C.	
Tarasuk, J.D.	M014, M040.	Vagners, U.J.	BE011.

Vales, O.	E0020.	Watson, W.C.	EJ076, EJ077,
Valverde-Lopez, S.	BC103.		EJ078, EJ079,
Van Buskirk, F.	EC004.		EJ080, EJ081.
Vanderwolf, C.H.	CG002, CG092,	Wearing, G.A.	K028.
	CG094, ER061.	Webling, D.D.	EC029, EC030.
Vandyk, J.	ET006.	Webling, D.D.A.	ED020.
Vane, J.R.	EP003, EP004.	Webster, A.C.	EA014.
Van Huystee, R.B.	BI015, BI023.	Webster, A.R.	BH023, BH043.
Vaughan, J.H.	EJ007, EJ008,	Weglein, R.	BC097.
	EJ026.	Wehlau, A.W.	BB025, BB028,
Vaughan, W.R.	BC052.		BB029.
Veevers, J.E.	CH043, CH044,	Wehlau, W.H.	BB003, BB024,
	CH045, CH046,		BB026, BB027,
	CH047, CH048,		BB030.
	CH049, CH050,	Wellman, A.M.	BI005, BI007.
	CH051.	Weng, P.K.J.	M079.
Venkata, B.	BI018.	Westgate, D.G.	LA003.
Venkateswaran, G.P.	BE020.	Westhues, K.	CH052, CH053,
Verbrugge, E.G.	M039.		CH054, CH055,
Vickery, E.	CB039.		CH056, CH057,
Vidmar, N.J.	CG030, CG063,		CH058.
	CG084, CG093.	Westmoreland, B.F.	EF017.
Vinger, I.	EH014.	Whippey, P.W.	BH042.
Viragos, G.	EJ005.	Whishaw, I.Q.	CG092, ER061,
Voss, W.A.G.	EJ062.		CG094.
		Whitby, J.L.	EC026, EC033.
Wahid, H.A.	EB016, EB017,	White, D.M.	EJ009.
	EB029.	White, R.E.	BF012.
Walden, D.B.	BI009.	Whitehead, P.C.	CH004, CH014,
Walker, F.	ED007.		CH015, CH026,
Walker, I.G.	ED013, ED018,		CH037, CH059,
	ED019.		CH060, CH061,
Walker, J.D.A.	BA016, BA036.		CH062, CH063,
Wallace, A.C.	E0021.		CH064, CH065,
Walmsley, J.G.	EE047.		CH066, CH067.
Walsh, M.R.	AB037.	Whitney, D.J.	M087.
Walters, J.H.	EK006, ER031.	Whitney, R.B.	EE048, EE049,
Walters, R.L.	AD013.		EE050, EE051.
Wanklin, J.M.	CH069.	Whittle, K.	CG075, CG076,
Ward, K.L.	P031.		CG077, CG078,
Ward, R.W.	BH042.		CG079.
Warden, J.T.	BC028.	Widmeyer, M.A.	EB030.
Ware, W.R.	BC086, BC087,	Wiebe, J.P.	BJ035.
	BC102.	Wiesendanger, M.	ER034, ER035,
	BA002.		ER062, ER063,
Warman, J.	CB024.		ER064, ER065,
Warne, R.D.	BC021, BC049,		ER066, ER067,
Warnhoff, E.W.	BC050, BC051,		ER069.
	BC079, BC100,	Wightman, W.R.	CC035, CC036,
	BC103.		CC037.
Warntz, W.	CC033, CC034.	Wigle, E.D.	EJ063.
Warren, B.A.	E0017, E0020,	Wilkins, P.O.	EC034.
	E0022, E0023,	Will, G.	EJ010.
	E0024.	Williams, H.	BE006.
Watson, R.	K027.		

Williams, J.I.	BD006, CH005, CH068, CH069, EH013.	Zangger, P.	ER069.
		Zanon, I.	BC031.
Williams, J.O.	BC104.	Zaslow, M.	CD047.
Williams, M.E.	AF025.	Zeigler, E.F.	K029, K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041.
Willis, C.J.	BC092, BC105.		
Wilson, A.S.	EB016, EB017, EB032, EB033.		
Wilson, D.R.	EU006.		
Wilson, H.R.	LC001, LC002, LC005.	Zelman, M.	CG021.
Wilson, J.K.	EJ063.	Zimmerman, W.E.	P016.
Wilson, R.K.	AG007.	Zitzewitz, P.W.	BH035.
Wilson, W.	EU005.	Zoltvany, Y.F.	CD046.
Wiltshawe, E.	ET004.	Zuzanek, J.	CH070.
Winder, C.G.	BE043, BE044, M071.	Zwickel, F.C.	BJ024.
Winkler, R.L.	H002.		
Wolfe, B.M.	EJ082, EJ083.		
Wolstencroft, J.H.	EB015.		
Wong, P.K.Y.	EV007, EV008.		
Wong, T.C.	BH038, BH044, BH045.		
Wong, Y.C.	EB031.		
Wonnacott, R.J.	BG025.		
Wonnacott, T.H.	BG024, BG025.		
Wood, V.	F008, F009, F010, F011.		
Wright, C.J.	EU004.		
Wright, G.Z.	GB001, GB005, GB006, GB007.		
Wyatt, J.K.	EU019.		
Wynne, E.	F012.		
Yahnke, W.E.	BJ036.		
Yales, O.	E0024.		
Yeats, R.B.	BC021.		
Yeoman, W.B.	EJ024.		
Yeomans, C.	ER068.		
Yong, R.N.	M074, M075.		
Youssef, Z.	AD014.		
Yovetich, W.S.	EW001.		
Yuhasz, M.S.	ER021.		
Yuzpe, A.A.	EK003, EK007, EK008, EJ009, EK010.		
Zajic, J.E.	BI005, M048, M050, M051, M074, M075, M090.		
Zallen, T.S.	CG095.		
Zamir, M.	BA009, BA037, BA038, BA039.		