

NEWS FROM THE DEPARTMENTS

University of Alberta. Dr. S. M. Shah, at the last moment, resigned as visiting professor to accept an appointment at Lawrence, Kansas. Mr. D. M. Aitken has been appointed sessional instructor in Mathematics. Professor Marc Krasner of the University of Paris visited the campus in September and gave a colloquium lecture on Valued Fields. Dr. Grace Hopper, Director of a Research Group at the Remington-Rand Univac Corporation, gave two public lectures at the University on modern computing methods.

The department is now installed on the fifth-floor of a large seven-storey building overlooking the North Saskatchewan River. The computing centre is located on the fourth floor and the rest of the building is occupied by Physics.

In Calgary, Dr. Gibb has returned from sabbatical leave at Stanford, California, where he has been working on numerical analysis. The department has moved to a building on the new campus, on the northwest outskirts of Calgary.

University of British Columbia. Mr. J. F. Scott-Thomas of the Massachusetts Institute of Technology was appointed to a lectureship as of September 15, 1960. Dr. H. Minc has accepted a position at the University of Florida, Gainesville, Florida. Dr. M. Katz has accepted a position at the University of Wisconsin, Milwaukee, Wisconsin. Mr. J. Lindsay has accepted a position at the University of Toronto, Toronto, Ontario. Mr. J. Abramowich has accepted a position at Assumption University, Windsor, Ontario. Dr. B. Chang has returned to Korea to take a position at EWHA, Women's University in Seoul.

An off-campus credit course is being offered to high school teachers in Winfield, B. C. Half of the course is on statistics and decision theory, the other half is on fundamentals of analysis. Prof. R. Restrepo is teaching it and he travels to Winfield every Saturday to give a 2 hour lecture plus a 1 hour lab.

Four seminars are in progress this fall: Number Theory - Prof. Melzak; Set Theory - Prof. Sion; Finite Groups - Profs. Ree, Murdoch, Kobayashi; Linear Analysis and Differential Equations - Prof. Clark.

Carleton University. Dr. R. J. Semple has moved to the University of Waterloo, and Dr. A. H. Lightstone to Victoria College. Our

new appointments are Dr. P. R. Beesack, formerly at McMaster University, and Mrs. Isabel Macquarrie, who earlier lectured at McGill.

McMaster University. Mr. J. C. Taylor received the Ph. D. degree (see Abstract of Thesis). He is now lecturing at Columbia University. Dr. G. Bruns of the University of Mainz has been appointed to the staff for 1961-62.

Université de Montréal. Messieurs les professeurs Abel Gauthier et Jean Maranda sont de retour au Département de Mathématiques où ils ont repris leur enseignement. Dans les cadres du plan Colombo, Monsieur Gauthier a passé l'année académique 1959-60 à l'Université de Dalat, au Vietnam. Le docteur Maranda revient d'un séjour d'études d'un an à l'Ecole Polytechnique de Zurich.

Les professeurs Maurice L'Abbé, directeur du Département de Mathématiques et Benoit Lachapelle prononceront une série de conférences hebdomadaires devant se poursuivre jusqu'au mois de mars 1961. Ces conférences porteront sur les Aspects Culturels des Mathématiques. Environ cinquante professeurs de l'enseignement secondaire et collégial assistaient à la conférence inaugurale.

A la collation des grades d'octobre 1960, mademoiselle Hélène Rabellino a reçu le grade de M. Sc. pour une thèse intitulée "Etude sur les nombres aléatoires et les nombres chanceux".

Queen's University. Philip E. Obreanu, Licencié (Bucharest) who came to Canada at Christmas time from Rumania, has been appointed assistant professor. Professor Obreanu has published several papers in General Topology. He was a member of the Mathematical Research Institute of the Academy of Science in Rumania. He is currently giving a graduate course on Algebraic Topology.

M. T. Wasan, who is an assistant professor specializing in Statistics, was awarded his Ph. D., at the University of Illinois in the spring. Work for his thesis on Sequential Analysis was supervised by Prof. Colin Blyth, a Queen's graduate, and Prof. J. L. Doob.

Professor G. L. Edgett, together with four high school teachers, recently published a text-book for Grade 13 Analytical Geometry. It is the first serious challenger to the popular book of Durant and Kingston, in almost 20 years.

During the summer, Professor I. Halperin took part in a symposium on Linear Spaces at the Hebrew University and in the Congress of the Hungarian Mathematical Society in Budapest on the occasion of the

100th Anniversary of the death of John Bolyai.

Professor R. D. Kemp participated in the seminar at Boulder, Colorado, on the mathematical background to the Quantum Theory of Fields.

Professor A. J. Coleman was elected President of the Ontario Mathematics Commission, which is currently supervising the experimental use of Mathematics 9 in sixty-eight classrooms throughout the Province. This is the draft of a text written by Professor Coleman and three high school teachers, J. J. Del Grande, H. A. Mulligan and H. E. Totton.

Professor H. Nakano and Dr. Maria Wonenburger are at Queen's this session working with Professor Halperin. Dr. Wonenburger did her Ph. D. on Clifford Algebras with Professor Jacobson at Yale and has been teaching at Madrid during the past four years.

Dr. Nakano is well known for his many books on Hilbert Space and Functional Analysis. He is currently lecturing at Queen's on Vector Lattices. Dr. Nakano and Dr. Wonenburger, together with five regular staff members and six graduate students, are actively participating in Professor Halperin's weekly seminar on Advanced Topics in Hilbert Space.

York University. At York University, Toronto, which opened in September this year, the staff in Mathematics is Dr. Alice W. Turner and Dr. I. R. Pounder, both part time.

OPENINGS IN MATHEMATICS

CARLETON UNIVERSITY

Appointment in Algebra

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| Rank | Lecturer (\$6,000 - 6,500) or Assistant Professor (\$6,500 - 8,500) according to qualifications. |
| Duties | About 10 hours per week lecturing, including Modern Algebra; other normal academic duties; possibly supervision of graduate student. |
| Qualifications | Ph. D. with specialization in Algebra. |

Apply to Dr. M. S. Macphail, Carleton University, Ottawa.

IFIPS CONGRESS 1962

The International Federation of Information Processing Societies will hold a Congress in Munich, Germany from August 27th to September 1st, 1962. Papers may be submitted on any of the following topics by sending an abstract of 500 to 1,000 words to Dr. C. C. Gotlieb, Computation Centre, McLennan Laboratory, University of Toronto, by September 1st, 1961. These abstracts will be considered by the international program committee of IFIPS, and authors of selected abstracts will be invited to submit their complete papers (in French or English) for consideration by the program committee in March 1962.

- (1) Business Information Processing
- (2) Scientific Information Processing
- (3) Real Time Information Processing
- (4) Storage and Retrieval of Information
- (5) Language Translation and Linguistic Analysis
- (6) Digital Communication
- (7) Artificial Perception and Intelligence
- (8) Advanced Computer Techniques
- (9) Education
- (10) Miscellaneous subjects

In each category it is planned to cover, where appropriate, the applications of digital computers, programming, systems design, logical design, equipment, and components.

AUSTRALIAN MATHEMATICAL SOCIETY

Summer Research Institute

The Australian Mathematical Society at its last meeting in August 1960, decided to hold its first Summer Research Institute at the Australian National University, Canberra, between January 3-31, 1961. Professor T. M. Cherry, F. R. S. (University of Melbourne), is the first director of the Institute, assisted by Drs. H. Levey and J. Gani (University of Western Australia) as secretaries. The Australian National University agreed to provide working accommodation for the 14 Fellows of the Institute.

The Australian Summer Research Institute has been inspired by its Canadian counterpart, held yearly at Queen's University, Kingston, Ontario. It is designed to resolve similar problems of communication between mathematical specialists in allied fields, working at widely distant universities.

Two groups, one in the Mechanics of Continua, and the other in Probability and Statistics, carried out research at the Institute this summer; four survey lectures reviewing particular branches of these fields were arranged, but the Institute remained otherwise fairly informal.

RANDOM NOTES FROM THE SECRETARIAT

In the next issue of the Bulletin, the audited financial statement will be given to the members according to the instructions of the Council. Perhaps it would be in order to present, in this issue, a discussion of our sources of income.

Our income in 1960, excluding interest from investments, came from the following sources:

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| Business and Industry | \$ 49,545 |
| National Research Council | 47,500 |
| South African Scholarship Fund | 1,860 |
| Nova Scotia Scholarship Fund | 3,535 |
| New Brunswick Scholarship Fund | 2,400 |
| Province of Nova Scotia (for the Atlantic Provinces Summer School) | 2,000 |
| International Nickel Company (for the Atlantic Provinces Summer School) | 5,000 |
| Canadian Universities (for the Journal) | 5,950 |
| American Mathematical Society (for the Journal) | 1,100 |
| Membership Fees | <u>1,123</u> |
| | <u>120,013</u> |

The contributions from business and industry together with \$10,000 from the National Research Council grant make up the Congress General Fund, which is used for all expenses except those taken care of by specially directed grants. It is also the medium through which certain special grants are handled.

The purposes of four of the special grants are indicated above. The remaining \$37,500 of the National Research Council grant is earmarked as follows:

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| Summer Research Institute | \$ 30,000 |
| Canadian Journal of Mathematics | 6,000 |
| Canadian Mathematical Bulletin | 1,500 |

The first item is placed in a special account from which all disbursements for the Institute are made. The second amount is forwarded

to the Managing-Editor of the Journal in Toronto where it is placed in the Journal account. Since there is no special account for the Bulletin, the third amount is placed in the general fund from which the Bulletin expenses are paid.

The three scholarship funds are kept in separate accounts. The first is in South Africa and covers the fellowship award given to a Canadian student who is working for his Ph. D. degree in mathematics in South Africa. This fund is donated by the Anglo-American Corporation of South Africa Limited and associated companies in South Africa, but according to information received in 1959 the contributions will cease in 1962. Scholarship awards to the leading candidates in the Congress Scholarship examinations in New Brunswick and Nova Scotia are paid from the respective accounts in Montreal. Contributions from these provinces to these funds have been made during the past seven years by a few large companies, a number of small business firms and a few individuals making up a total of about 50 contributions varying from \$ 25 to \$ 750. Perhaps most of these contributions would not have been made to the general fund but the special appeal for funds to arouse interest in mathematics and also to assist university students in Nova Scotia and New Brunswick was sufficient to arouse interest. This interest was strengthened by the initiation of the prize programme in Nova Scotia last year and we hope that the same result will be achieved by a similar programme in New Brunswick this year. These funds have been sufficient so far to take care of all New Brunswick and Nova Scotia Scholarships. Prizes and scholarships in other provinces are taken from the general fund.

All income except contributions for the Journal from Canadian universities and the American Mathematical Society - which are sent directly to the Managing-Editor in Toronto - is handled by the Congress office in Montreal. We owe a great deal to the Managing-Editor, Professor Gilbert Robinson, for building up the Journal contributions to the point where, along with subscriptions, they are at present sufficient for the current expenses of this important publication.

This brings us to the remaining and key item of \$49,545 from business and industry, which covers the majority of scholarships and prizes and most of the cost of administration, seminars and congresses. This amount was increased slightly from \$48,750 in 1959. The contributions by provinces in 1960 were as follows:

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| Alberta | \$ 2,910 |
| British Columbia | 2,400 |
| Manitoba | 2,575 |
| New Brunswick | 500 |

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| Nova Scotia | 850 (in addition to the grant of \$2,000 for the summer school) |
| Ontario | 24,010 |
| Quebec | 15,950 |
| Saskatchewan | <u>350</u> |
| | <u>\$ 49,545</u> |

Sustaining memberships of \$1,000 or more each, were initiated by Professor Williams in 1956 and from these 19 memberships we received \$22,250 in 1960. They are fairly well established as permanent grants as long as the Congress maintains and strengthens its programme. Several of these contributors have indicated a particular interest in our activities in specific provinces, and this explains to some extent the varying amounts spent in the different provinces. The remaining \$27,295 was contributed by 250 contributors in amounts ranging from \$10 to \$750. The total number of contributors is now more than 300 and during the year 1960, the Executive Secretary-Treasurer visited nearly all the major cities in Canada and attempted to interview most of them. Twenty-four did not continue their contribution and sixteen new ones were added. Among the others there were a few increases (some substantial) and a few decreases (one of \$1,000), but the majority remained constant. Although the momentum of our established activities made this project fairly easy, there was a tendency in some quarters, because of the new personality, to take a close look at the whole project and to form a new estimate of its worth. Other hazards were changes in business executives and a slowing down of the economy in some industries and areas.

The expense involved in obtaining these contributions appears to be a necessary one but our members can rest assured that it will be kept at a minimum. The Executive Secretary-Treasurer frankly does not like travelling for this purpose but, because of the objectives accomplished, does not hesitate to do so. The trips are made much more pleasant by the interest, assistance and hospitality of our members in the various cities. Since their assistance is of such importance and also because they have acted as Congress representatives in this project, their names are listed below.

Special mention should be made of our Vice-President, Professor Max Wyman, who is chiefly responsible for a large portion of the total contribution in Alberta; and also of Professor H. R. Kingston (retired) formerly of the University of Western Ontario, who has interviewed all our contributors in London for several years. Others were the following:

- Calgary Professors Gibb and Peck, University of Alberta.
- Fredericton . . . Professor Edwards, University of New Brunswick.
- Halifax Professor Tingley, Dalhousie University.
- Hamilton Professor Lane, MacMaster University.
- Montreal Dean Gaudefroy, Ecole Polytechnique.
Professor Williams.
- Quebec Professor Pouliot, Laval University.
- Regina Professor Toews, Regina College.
- Sackville Professor Crawford, Mount Allison University.
- Saskatoon Professor Miller, University of Saskatchewan.
- Sidney Mr. Robert Chafe, Sidney Academy, Nova Scotia.
- Toronto Professor Robinson, University of Toronto.
Professor Pounder, York University.
- Windsor Rev. Father Faught, Assumption University of Windsor.
- Winnipeg Professor Noonan assisted by Professors Lawson,
McEwen, Zeiler and Moser, University of Manitoba.

Although very little travelling is done for this purpose during the winter, except in Montreal and vicinity, this work runs on a twelve month basis. In addition to interviews, most contributors are contacted by letter, in some cases more than once, and when the contribution arrives an acknowledgement must be made. In addition to the past and present contributors, at least fifty other companies were contacted. Some of these contacts will and others may produce results during the next year or two, particularly if conditions improve. Special grants are also usually obtained in a seminar or congress year to assist these projects. Such grants were obtained in 1959 from the Canada Council and from the National Science Foundation.

L. F. S. Ritcey,
Executive Secretary-Treasurer