CANADIAN MATHEMATICAL CONGRESS

The first meeting of the Canadian Mathematical Congress was held in Montreal, June 18–23. It was bilingual and its sessions were held in various parts of Montreal. The Congress had the support and approval of all universities throughout Canada, and was made possible financially by substantial grants from the National Research Council of Canada, the Government of the Province of Quebec, the City of Montreal, and numerous insurance and industrial companies. Through the kindess of the British Council and the Royal Society, Professor L. J. Mordell (now of Cambridge University) attended as British delegate. A permanent organization was formed to meet about every four years and to operate in the meantime through committees and a permanent executive. The meeting was attended by about 200 mathematicians, some accompanied by their families, from all parts of Canada.

The sessions on Monday, Thursday forenoon, Friday and Saturday were held at McGill University, the session on Tuesday at Montreal University, the session on Wednesday at the Agricultural Institute, and the session on Thursday afternoon at the Ecole Polytechnique. The program of the meeting gives a good view of the scope of the discussions.

Secondary school mathematics from the university point of view, Norman Miller of Queen's University, D. C. Murdoch of the University of British Columbia, M. S. Macphail of Acadia University, and Herbert Tate of McGill University.

Comparaison entre les programmes des universités de France et des universités françaises de Québec, Emile Gérard of St. Mary's, Montreal.

On some developments of modern algebra. I, Richard Brauer of the University of Toronto.

Role of mathematics in a mathematics and physics course, Samuel Beatty of the University of Toronto and Arthur Léveillé of Montreal University.

Cosmic rays and the elementary particles of physics, F. Rasetti of Laval University.

Rôle de la géométrie dans la formation générale, J. Flahault of Montreal University and the Ecole Polytechnique.

Les nouvelles statistiques en physique, F. Rasetti of Laval University.

On some developments of modern algebra. II, Richard Brauer of the University of Toronto.

Engineering mathematics. I, V. G. Smith of the University of To-

ronto, Spencer Ball of the Nova Scotia Technical College, and M. Burke-Gaffney of St. Mary's College, Halifax.

Les mathématiques de l'astronomie, Frère Robert of Mont St. Louis, Montreal.

The problem of mathematical research in Canada. R. L. Jeffery of Queen's University.

Methods of fostering research and graduate work, W. L. G. Williams of McGill University.

Engineering mathematics. II, Adrien Pouliot of Laval University and F. M. Wood of McGill University.

Introduction aux mathématiques, A. Larue of Laval University.

Foundations of geometry, G. de B. Robinson of the National Research Council.

Postwar problems of the Canadian universities, F. S. Nowlan of the University of British Columbia.

The nine regular solids, H. S. M. Coxeter of the University of Toronto.

Le calcul vectorial avec applications à la géométrie analytique, Gaston Bertrand of the Ecole Polytechnique.

A national policy for applied mathematics, W. H. Watson of the University of Saskatchewan, L. Infeld of the University of Toronto and A. H. S. Gillson of McGill University.

The geometry of numbers, L. J. Mordell of the University of Manchester.

Some topological properties of disk and sphere, A. W. Tucker of Princeton University.

High-speed computing devices and mathematical analysis, John von Neumann of the Institute for Advanced Study.

Universal algebra, Garrett Birkhoff of Harvard University.

On the use of the differential analyzer in solving partial differential equations, Douglas R. Hartree of the University of Manchester.

La théorie des groupes de Lie, Claude Chevalley of Princeton University.

Conformal representation and hydrodynamics, A. Weinstein of the University of Toronto.

A symposium on statistics was held in two sessions with the following program:

The field for university students in the life insurance business, Gordon Beatty of the Canada Life Insurance Company.

The practical use of statistics and actuarial mathematics in the life insurance business, C. D. Rutherford of the Sun Life Assurance Company of Canada.

Prediction of students' success in a commerce course, L. A. H. Warren of the University of Manitoba.

Certain mathematical aspects of statistics, R. H. Cole of the University of Western Ontario, E. S. Keeping of the University of Alberta, N. Keyfetz of the Dominion Bureau of Statistics, and W. Kozakiewicz.

There was also a symposium on war research with the following program:

Mathematics in radio, W. J. Henderson of the National Research Council.

Mathematics in ballistics research, N. S. Mendelsohn of the Ballistics Laboratory, Valcartier, Quebec.

Mathematics in aeronautical research, W. F. Campbell of the National Research Council.

There were two sessions for short research papers with the following papers presented:

Isotropic solutions of Einstein's field equations, Max Wyman of the University of Alberta.

Lattice points in ovals, Douglas S. Derry of the University of Saskatchewan.

The 3-row, n-column Latin rectangle derangement problem, Lloyd Dulmage of the University of Manitoba.

Some problems of approximation associated with linear differential systems, W. H. McEwen of Mount Allison University.

The four vertex theorem and related topics, Peter Scherk of the University of Saskatchewan.

At the luncheon on Thursday addresses were given by C. J. Mackenzie, President of the National Research Council, and by L. J. Mordell.

Two mathematical films, *The isograph* and *A triple integral*, were shown through the kindness of the Bell Telephone Company and of E. A. Whitman of the Carnegie Institute of Technology.

Several sets of resolutions were adopted at the General Meeting on Friday evening and Saturday forenoon. To implement these the following permanent Committees were appointed:

Committee on Secondary School Mathematics, Norman Miller and Abbe G. Perras, joint chairmen.

Committee on Scholarships, Fellowships and Prizes, F. S. Nowlan, chairman.

Committee on Research, G. Pall and A. Pouliot, joint chairmen.

Committee for Exchange of Staffs, A. H. S. Gillson, chairman (American Representative, R. G. D. Richardson).

Committee for Journal, A. Léveillé and W. H. Watson, joint chairmen.

Committee for Publishing Proceedings of the First Meeting, H. S. M. Coxeter and A. Léveillé, joint chairmen.

Finance Committee for the Congress, W. L. G. Williams, chairman.

A. H. S. Gillson was appointed to prepare a pamphlet for educational authorities, business and industry.

The Executive of the Congress, appointed to function until the next general meeting, is as follows: Dean S. Beatty, President; Dean A. Pouliot, Vice President; G. Perras, French Secretary; R. E. O'Connor, English Secretary; W. L. G. Williams, Treasurer; and the Chairmen of the above committees.

R. Eric O'Connor, S.J.,
Secretary