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THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE PRELIMINARY ANNOUNCEMENT OF THE OTTAWA MEETING

Edited by DR. F. R. MOULTON
PERMANENT SECRETARY

THE meeting to be held in Ottawa from June 27 to July 2, inclusive, will be the hundred and second meeting of the association and the fifth Canadian meeting. The first Canadian meeting was held in Montreal in 1857, only nine years after the organization of the association; the second Canadian meeting was held in Montreal in 1882; the third, in Toronto in 1899; and the fourth, also in Toronto, in 1921. The approaching meeting will be the first one to be held in Ottawa, the capital of Canada.

OTTAWA

In 1613 Champlain and a few companions paused briefly on the promontory where Ottawa now stands to admire the broad sweep of the river against a background of the Laurentian Hills, which still remain tree-covered as they were three hundred years ago. For

two centuries the Ottawa River was the highway over which fur traders penetrated into the Upper Great Lakes and a considerable part of British America. The first white settler near the present site of Ottawa was Philemon Wright, of Massachusetts, who led a small company of pioneers to the region in 1800. In 1854 the name of the village which had grown up at the head of the Rideau Canal was changed from Bytown to Ottawa. In 1857 Ottawa was selected by Queen Victoria as the seat of the government of the provinces of Ontario and Quebec; in 1867 it became the capital of the Dominion of Canada.

At present the population of Ottawa is about 140,000. Being the capital city, it has magnificent public buildings superbly located on Parliament Hill. The Canadian Houses of Parliament are among the most graceful examples of Gothic architecture. A scenic

highway, noted for the beauty of its bordering trees and shrubbery, almost encircles the city, while broad streets lead through miles of attractive residence districts.

Ottawa is becoming more and more the headquarters for Canadian national organizations. For example, in it are the administrative offices of the Royal Society of Canada, the Canadian Historical Association, the Canadian Geographical Society, the Canadian Society of Technical Agriculturalists, the National Research Council of Canada and the Royal College of Physicians and Surgeons. There are also many other societies with headquarters in other cities, the total number of Canadian scientific and technical societies listed in the Third Edition of the Handbook published by the National Research Council being 143.

It appears to be difficult to realize that Ottawa is much nearer to the New England and the Middle Atlantic States than are the cities of the Middle West. As a matter of fact, it is only half as far from New York as Chicago is; last summer the association met in Denver, 1,100 miles west of Chicago. More than one quarter of the population of the United States is within 500 miles of Ottawa, not much more than a day's drive, while nearly half of it is within 1,000 miles. Railway connections with Ottawa from eastern and middle western cities are excellent.

HOTELS AND HEADQUARTERS

The headquarters of the meeting will be in the Chateau Laurier, a distinguished hotel with a capacity of more than 1,000 guests. (Single rooms, \$4 to \$5; double, \$6 to \$9). Other hotels and possibilities for obtaining rooms are as follows:

Alexandra: Single, \$2.50; double, \$4.50.
 Roxborough: Single, \$3.00; double, \$4.50 to \$5.
 Windsor: Single, \$2.50; double, \$4 to \$6.
 Keewatni: Single, \$2 to \$2.50; double, \$3 to \$3.50.
 Ritz: Single, \$2; double, \$3.

The above-mentioned hotels have available rooms without bath at considerably lower rates.

REGISTRATION

Registration and all reservations for dinners and excursions will be in the Chateau Laurier.

RAILROAD FARES

The regular round-trip railway fares to Ottawa, including Pullman, from several principal cities in the eastern half of the United States are as follows: Boston, \$32.20; New York, \$34.20; Washington, \$50.20; Cleveland, \$51.30; Chicago, \$59.40.

OFFICIAL MEETINGS

The council of the association will meet on Monday, June 27, at 2:00 P.M., in the Chateau Laurier; thereafter daily at 9:00 A.M. until Thursday, June 30.

SOCIAL AFFAIRS AND DINNERS

On Tuesday afternoon there will be a garden party for all scientists, both from Canada and from the United States, at the Central Experimental Farm. A dinner for the members of the Section on Chemistry is scheduled for Tuesday evening. The Society of American Foresters will also have a dinner on Tuesday evening. On Wednesday the members of the Section on Psychology will hold a luncheon, and a joint symposium and dinner with the section on Education in the afternoon. On Wednesday evening the annual Hector Maiben lecture will be delivered by Dr. Robert C. Wallace, principal and vice-chancellor of Queen's University, Kingston, Ontario. Dr. Wallace's address will be on "The Changing Values of Science." The Canadian Committee is arranging for a drive around the city on Thursday afternoon. No regular scientific sessions are scheduled for Friday, July 1, Dominion Day, but there will be several excursions to places of interest, including one to the Ottawa Lowland, and another to Madoc, Ontario, by the geologists, and a four-day trip to the mining districts of Northern Ontario; one to Mer Bleue by the botanists and the zoologists; and one to Petawawa Forest Experiment Station by the Society of American Foresters on Friday. The Section on Anthropology plans an excursion to Toronto on Friday and Saturday, while the geologists will continue their excursion into northern Ontario and Quebec for several days.

GENERAL SESSIONS

Reference has already been made to the Hector Maiben lecture by Dr. Robert C. Wallace on Wednesday evenings. The four sessions of the second of the Science and Society conferences will be general programs of the association. The first session will be on Monday evening, the second on Tuesday evening, the third on Wednesday afternoon and the fourth on Thursday evening.

The Science and Society conferences are being organized by the Section on the Social and Economic Sciences, under the general direction of Dr. Harold G. Moulton. The first conference was held at Indianapolis last December on the subject "Fundamental Resources as Affected by Science." The subject of the Ottawa conference will be "Science and the Future." The first session will consist of the vice-presidential address of Dr. Stuart A. Rice on "World Standards of Living" and of a paper by Mr. F. E. Lathe, of Ottawa, on "World Natural Resources"; the second, of an address by Dr. Arthur H. Compton, on "Physics of the Future" and another by Dr. Harold C. Urey on "Chemistry of the Future"; the third, of an address by Dr. William Crocker on "Botany of the Future" and another by Dr. Frank R. Lillie on "Zool-

ogy of the Future"; and the fourth and final session will be by engineers representing leading industries.

SYMPOSIA

Integrations of broad fields of science in the form of symposia, which are usually participated in by two or more sections or societies, are becoming more and more distinguishing features of meetings of the association. Those known to be in preparation for the Ottawa meeting are the following:

The second conference in the Science and Society series of conferences, the subject of this conference being "Science and the Future." The program of this conference, which was outlined in the preceding section on General Sessions, will be held from Monday, June 27, to Thursday, June 30, inclusive.

Monday, June 27. The Section on Medical Sciences, the Genetics Society of America, the Phytopathological Society and veterinary and bacteriological groups, under the direction of Dr. E. C. Stakman, have organized and will present a symposium on "The Genetics of Pathogenic Organisms." The names of participants are not yet available. Section C and various industries, under the direction of Dr. S. J. Cook, have organized a symposium on "Heterogeneous Gas Reactions."

Tuesday, June 28. The Sections on Chemistry, the Medical Sciences and Agriculture are organizing a symposium on the "Nutrition Problem in North America." This program will include papers on both human and domestic animal nutrition. The Canadian division of the Section on Medical Sciences, under the direction of Dr. F. S. Burke, of Ottawa, has organized a symposium on "Bacillus Calmette-Guérin." Papers will be presented by Dr. A. Frappier, of Montreal, Dr. E. A. Watson, of Hull, Dr. Allan C. Rankin, of Alberta, Dr. Ferguson, of Saskatchewan, and Dr. J. A. Bandouin, of Montreal, and the discussion will be led by Dr. Wm. H. Park, of New York. The Sections on Chemistry and on the Zoological Sciences, under the chairmanship of Dr. Harold C. Urey, will present a symposium on "The Use of Isotopes in Biological Chemistry."

The American Phytopathological Society, the American Society of Plant Physiologists and the Genetics Society of America will join in a symposium on "Micro-elements and Deficiency Diseases."

Wednesday, June 29. The Entomological Society of America, the American Association of Economic Entomologists and the Entomological Society of Ontario will present a joint symposium on "The Relation of Insects to Forest Conservation." The Sections on Medical Sciences and on Chemistry, under the direction of Dr. S. J. Cook, have organized a symposium on "Medical Biochemistry." The papers in this symposium will include two from the laboratory of Dr.

F. G. Banting, two from the laboratory of Dr. C. H. Best and two from the laboratory of Dr. J. B. Collip. The Section on Zoological Sciences, under the leadership of Dr. A. G. Huntsman, will present a symposium on "Migratory Fish Resources." The American Society of Agronomy and the American and Canadian Committee on Pasture Improvement will present a symposium on "Comparison of the Nutritive Value of Pasture and Hay with Other Crops"; and the Canadian Society of Technical Agriculturists and the Canadian Society of Animal Production are organizing a symposium on "Progress of Swine Improvement in Canada." On Wednesday evening the sections on Psychology and on Education, under the direction of Dr. Edward A. Bott, will hold a joint dinner and discussion on "Scientific Study of the Education of the Dionne Quintuplets." The American Phytopathological Society, the Canadian Phytopathological Society, the American Society of Plant Physiologists and the Genetics Society of America will hold a joint meeting for discussing "Root Rots and Seed-borne Diseases," and a symposium on "Drought Resistance."

Thursday, June 30. The section on Zoological Sciences and the Ecological Society of America, together with the Section on Agriculture, the American Society of Foresters and the Canadian Society of Forest Engineers, will present a symposium on "Fire and its Biological Implications."

The Section on Botanical Sciences (G) will hold a symposium on "Physiographic Problems of Northeastern Canada," the participants being Drs. David Potter, Ernest C. Abbe, V. C. Wynne-Edwards, Jacques Rousseau and Frère Marie-Victorin.

SECTION AND SOCIETY PROGRAMS

Section on Physics (B). The section will hold sessions on Monday morning and afternoon and Tuesday morning. Thirteen papers will be presented, one of which will be on "Ultrasonics—Marine Applications," by Dr. R. W. Boyle, and another on "Noise Abatement Problems in Canada," by Dr. H. E. Reilley. Other papers will report on work with high and low frequency discharges and on β - and γ -rays.

Section on Chemistry (C). The Section on Chemistry starts its program on Monday with a symposium on "Heterogeneous Gas Reactions." It is expected that Dr. C. C. Coffin, of Dalhousie University, and Dr. J. W. N. Spinks, of the University of Saskatchewan, will appear on the program, as well as representatives of such industrial companies as Shawinigan Chemicals Limited, Canadian Industries Ltd. and the Consolidated Mining Company. On Monday afternoon Dr. Jerome Alexander will read a paper on "Some Chemical and Physical Aspects of Textile Fibers" and Mr. Pochon will discuss the refining of radium at Port Hope.

On Tuesday the program of the section is the symposium on the "Nutrition Problem in North America." Among the speakers who are expected to participate in this program are Drs. I. M. Rabinowich, E. W. McHenry, F. F. Tisdall, E. W. Crampton, C. J. Watson, N. D. Branion and R. D. Sinclair. In addition, it is hoped that Drs. W. D. McFarlane and A. R. G. Emslie will present papers on vitamin assays.

The program for Wednesday morning is the joint symposium with the Section on Medical Sciences on Medical Biochemistry, which will consist of at least six papers from the laboratories of Drs. F. G. Banting, C. A. Best and J. B. Collip.

Section on Astronomy (D). The program of this section has been organized by Dr. R. Meldrum Stewart, director of the Dominion Observatory of Ottawa. It will consist of twenty-four papers, including a survey of astronomical work in Canada for fifty years by Dr. W. E. Harper. Among other speakers on the program will be Drs. R. K. Young, Ralph E. DeLury, Harlan T. Stetson, W. E. W. Jackson, John L. O'Connor, C. S. Beals, G. H. Blanchet, Helen S. Sawyer, K. O. Wright, A. Vibert Douglas, Andrew McKellar, J. A. Pearce, R. M. Petrie and J. P. Henderson.

Section on Geology and Geography (E). This section will have meetings the entire week, and provisional arrangements have been made for field excursions until the evening of July 6 that will include visits to the Kirkland Lake, Noranda and Porcupine districts. In cooperation with the Association of American Geographers, programs dealing with the geography and physiography of southeastern Canada and the International Boundary and with the problems of the Northern Frontier have been arranged for Monday, Tuesday and Wednesday. The geologic sessions will be held jointly with the Geological Society of America and will begin on Tuesday. Three meetings have been tentatively scheduled, dealing with the economic, physical, Precambrian and Paleozoic geology of Canada and the Border States. Approximately thirty speakers will participate in the geographic and geologic programs. The section's field activities will include a local trip of interest to geographers, another under the leadership of Dr. Alice E. Wilson concerned with the Paleozoic geology of the Ottawa Lowland, a two-day trip (July 1 and 2) under the direction of Dr. M. E. Wilson to the Madoc district in Hastings Co., Ontario; and a four-day trip (July 2-6) to the mining districts of northern Ontario. Advance registration for the last trip will be necessary and will be handled either by Dr. Walter A. Bell (104 Victoria Museum, Ottawa) or by the section secretary, who will supply further details regarding the meetings and field excursions on request.

Section on Zoological Sciences (F) and Affiliated Societies. Section F and its affiliated societies will hold scientific sessions on Tuesday, Wednesday and

Thursday. On each of these three days the section participates in symposia with its affiliated societies and with another section. On Tuesday morning it joins with the Section on Chemistry in a symposium on "The Use of Isotopes in Biological Chemistry." On Wednesday it takes the lead under the chairmanship of Dr. A. G. Huntsman in a symposium on "Migratory Fish Resources." On Thursday it cooperates with the Section on Agriculture (O), the Ecological Society of America, the Society of American Foresters and the Canadian Society of Forest Engineers in a symposium on "Fire and its Biological Implications."

The Entomological Society of America, the American Association of Economic Entomologists and the Entomological Society of Ontario will hold meetings from Monday to Saturday, including a symposium (day not announced) on "The Relation of Insects to Forest Conservation" and several general sessions with a total of more than thirty papers.

Section on Botanical Sciences (G) and Affiliated Societies. This section will hold a symposium on "Physiographic Problems of Northeastern Canada." The participants are David Potter, Ernest C. Abbe, V. C. Wynne-Edwards, Jacques Rousseau and Frère Marie-Victorin.

The Ecological Society of America will have scientific sessions or field trips throughout the week. The general chairman for the Ottawa meeting of the society is Dr. H. C. Hanson, its president, and its secretary is Dr. Orlando Park. The local committee for the Ottawa meeting is Dr. A. G. Huntsman, chairman, Dr. H. G. Crawford, Dr. J. R. Dymond, Dr. Arthur Gibson and Mr. H. L. Trueman. The program of the society on Tuesday will consist of joint sessions with the Society of American Foresters and the Canadian Society of Forest Engineers, under the chairmanship of Dr. C. F. Korstian. On Wednesday the society holds a joint session with the Section on Zoology (F) on animal ecology under the chairmanship of Professor A. F. Coventry. On Thursday the society participates with the Section on Zoology (F), the Society of American Foresters and the Canadian Society of Forest Engineers in the symposium on "Fire and Its Biological Implications," under the chairmanship of Dr. Paul B. Sears. On Friday and Saturday the society will sponsor field trips under the direction of Dr. J. R. Symond. The field trip on Friday will be to Mer Blue, an extensive phagnum bog ten miles east of Ottawa. The other field trip will be an overnight excursion, beginning on Friday, to the Petawawa Forest Experiment Station. This trip is under Dr. Roland D. Craig. The local committee on arrangements, Dr. J. R. Dymond, secretary, Royal Ontario Museum of Zoology, Toronto, desires to hear well in advance of the Ottawa meeting from all ecologists who

may wish to visit the Precambrian region north of Ottawa or other ecological features of the region.

The American Society of Plant Physiologists will meet on Tuesday with the American Phytopathological Society and the Genetics Society of America for a symposium on "Micro-elements and Deficiency Diseases." On Wednesday the society has planned a symposium on "Root Rots and Seed-borne Diseases" and another one jointly with the Genetics Society of America on "Drought Resistance." Thursday morning will be devoted to a program of general papers and in the afternoon a visit will be made to Central Experimental Farm.

The American Phytopathological Society will participate on Monday in the symposium on "The Genetics of Pathogenic Organisms."

The Society of American Foresters and the Canadian Society of Forest Engineers will hold joint sessions from Monday to Saturday, inclusive. The opening meeting will be held on Monday afternoon, under the chairmanship of Professor J. Miles Gibson, and the societies will make a tour of the city in the evening. There will be two sessions on Tuesday for the presentation of general papers, followed by a dinner in the evening. Dr. C. F. Korstian will preside at the forenoon session and Professor J. Miles Gibson in the afternoon. On Wednesday there will also be two general sessions with the presiding officers interchanged, and in the evening there will be a visit to Parliament Buildings. On Thursday the societies will participate in the symposium on "Fire and its Biological Implications," following which they will visit the Canadian International Paper Company mill. On Friday the societies will drive to the Petawawa Forest Experiment Station, after which they will dine at headquarters. Members will remain at headquarters overnight and continue on Saturday with discussions of silviculture and observation of fire pump tests.

The Genetics Society of America will hold sessions from Monday to Thursday, inclusive. On Monday the society will participate in the symposium on "The Genetics of Pathogenic Organisms." On Tuesday morning it will have a round-table conference on "The Application of Cytogenetics to Plant Improvement," and a symposium held jointly with the American Phytopathological Society and the American Society of Plant Physiologists on "Micro-elements and Deficiency Diseases," and will attend the garden party at the Experimental Farm in the afternoon. On Wednesday it will hold a symposium jointly with the American Society of Plant Physiologists on "Drought Resistance." On Thursday it will hold a session for cytogenetic demonstration papers and will visit various divisions of the Experimental Farm.

Section on Anthropology (H). The section will have sessions in Ottawa from Monday to Thursday,

inclusive, and will go to Toronto on Friday for two days as guests of the Royal Ontario Museum of Archeology, in Toronto, which contains among its splendid exhibits an unrivalled Chinese collection. Dr. D. Jenness, chairman of the section, will preside at the session on Monday morning which will be devoted mostly to prehistoric Canadian Indians, but will include papers on the early history of Chinese and Egyptian culture. On Tuesday morning the section will hold a session for the reading of papers on a variety of anthropological subjects, and in the afternoon the section will attend the garden party at the Experimental Farm. The Thursday morning program will consist of papers on American Indians, and in the afternoon the section will attend the session of the "Science and Society" symposium. No formal programs are scheduled for Thursday.

Section on Psychology (I). Under the direction of Dr. Edward A. Bott, the section will have sessions for the presentation of general papers on both Tuesday and Wednesday, and on Wednesday evening it will join the Section on Education at a dinner, following which there will be a symposium on "Scientific Study of the Education of the Dionne Quintuplets."

Section on Social and Economic Sciences (K) and Affiliated Society. The program of the section consists of four sessions which constitute the second of the conferences on "Science and Society," the subject of the Ottawa conference being "Science and the Future." The first session, on Monday evening, will consist of two addresses, one on "World Standards of Living" by Stuart A. Rice, chairman of the section, and the other by Mr. F. E. Lathe, chairman of the Program Committee of the Canadian Committee for the Ottawa Meeting and director of the Division of Research Information in the Canadian National Research Council on the subject "World Natural Resources." The second session, which will be held on Tuesday evening, will be on the subject, "Physical Sciences and the Future." One of the two addresses of this session will be by Dr. Arthur H. Compton, of the University of Chicago, and the other by Dr. Harold C. Urey, of Columbia University. Both Dr. Compton and Dr. Urey have been recipients of Nobel prizes for their researches. The third session, on Wednesday afternoon, will be on "Biological Sciences and the Future." Dr. William Crocker, director of Boyce Thompson Institute for Plant Research, Inc., will deliver an address on the subject from the point of view of botany and Dr. Frank R. Lillie, President of the National Academy of Sciences, another from the point of view of zoology. The final session will be on "Future Advances of Science" from the point of view of engineering and business administration.

The American Statistical Association will hold two sessions on Tuesday, the general topic for the one in

the morning being "The Influence of the Course of Business in the United States on the Course of Business in Canada during the Past Decade," and in the afternoon on "Government Spending and Business Recovery." On the morning program, Dr. D. C. MacGregor, University of Toronto, and Mr. Walter Gardner, of the Board of Governors of the Federal Reserve System, will be the principal speakers. On Wednesday morning there will be a session on comparison of the structure and trends of retail and wholesale trade in Canada and the United States. The principal speakers will be Mr. H. Marshall, of the Dominion Bureau of Statistics, and Mr. Vergil Reed, of the U. S. Census Bureau. In addition, Mr. Willard Thorp of Dun and Bradstreet will speak on the effects of credit and inventories on the flow of goods.

On the afternoon of the 29th the American Statistical Association will join with the Canadian Agricultural Economics Society and the Canadian Society of Technical Agriculturalists in a program on weather and crop yields. The speakers will be C. F. Sarle, of the U. S. Bureau of Agricultural Economics, George Montgomery, of Kansas State College, and C. F. Wilson, of the Dominion Bureau of Statistics.

Section on Historical and Philological Sciences (L). The program of the section will consist of a symposium on "The Progress of Science in Canada" and of a paper on "Why the Social Sciences Lag Behind the Biological and Physical Sciences," by Dr. Joseph Mayer, secretary of the section. The symposium will be participated in by Dr. W. E. Harper (Astronomy), Dominion Astrophysical Observatory, Victoria; Dr. S. Beatty (Mathematics), University of Toronto; Dr. J. R. Dymond (Zoology), University of Toronto; Dean Frank D. Adams (Geology), McGill University; Dr. Marie-Victorin (Botany) University of Montreal; Dr. W. Lash Miller (Chemistry), University of Toronto; Dr. A. Norman Shaw (Physics), McGill University; Dr. L. E. Pariseau (Medical Research during French Regime), Montreal; Dr. John Dearnness (History of Improvement of English Orthography in Canada), University of Toronto.

Section on Engineering (M) and Affiliated Society. The section will hold one session for reading of four papers as follows: "The Collapse of the Falls-View Bridge at Niagara Falls," by P. L. Pratley; "Mining, Concentration and Transportation Operations of Eldorado Gold Mines Limited," by M. Poehon; "Some Instrumental Aids to Mapping from Air Photographs," by R. H. Field. The fourth paper will be on an electrical engineering subject, title of which has not yet been announced.

The Institute of the Aeronautical Sciences Inc., will present a program on Monday, Tuesday and Wednesday. Among the papers which will be presented are

"Flying Boats," by I. I. Sikorsky, president of Sikorsky Aircraft; "The Radiometeorograph," by Dr. W. R. Gregg, chief of U. S. Weather Bureau; "Pressure Waves Accompanying Detonation in Internal Combustion Engines," by Professor C. S. Draper, The Daniel Guggenheim Aeronautical Laboratory; "Aircraft Fuels," S. D. Hiron, Ethyl Gasoline Corporation; "Photoelectric Stress Methods," by Professor T. R. Loudon, University of Toronto; "Snow Performance of Aircraft Skis," by G. J. Klein, National Research Council of Canada; "The Cathode Ray Compass," by Dr. J. T. Henderson, National Research Council of Canada; "Meteorology," by Dr. J. Patterson, Meteorological Service, Langley Field.

Section on Medical Sciences (N) and Sub-section on Pharmacy. The section will conduct symposia on Tuesday and Wednesday. The symposium on Tuesday will be on "Bacillus Calmette-Guérin," consisting of five papers. The papers are: "B.C.G. Vaccine, eleven Years' Experimental Work on its Innocuity and Efficacy," by Dr. A. Trappier, University of Montreal; "B.C.G. Vaccination of Cattle and Resistance to Tuberculosis," by Dr. E. A. Watson, chief pathologist of Department of Agriculture, Hull, Quebec; paper (title not announced) by Dr. Allan C. Rankin, University of Alberta; another by Dr. Ferguson, of Saskatchewan; "Twelve Years' Experience with B.C.G. Vaccine at the University of Montreal"; and discussion led by Dr. Wm. H. Park, of New York.

The session on Wednesday is a joint symposium with the Section on Chemistry (C). The papers are: "Hormones and Immunity," by Drs. W. R. Franks and F. G. Banting, the University of Toronto and the Banting Research Foundation; "Bio-electric and other Physiological Responses of Insulin and Nutrazol," by Drs. J. E. Goodwin, G. E. Hall, B. Leibel and D. P. C. Lloyd, the University of Toronto; "The Prolongation of the Action of Insulin," by Dr. Albert Fisher, the University of Toronto; "The Purification of Heparan," by Dr. Arthur Charles, the University of Toronto; "The Ketogenic and Anti-Insulin Properties of Anterior Lobe Extracts," by Drs. A. H. Neufeld and J. B. Collip, McGill University; and "Studies on the Specific Metabolic Stimulant of Pituitary Extracts," by Drs. O. K. O'Donovan, O. F. Denstedt and J. B. Collip, McGill University.

The Sub-section on Pharmacy will present a program on Monday consisting of at least seven papers as follows: "Some Recent Developments Concerning Vitamin E" by Drs. E. M. Watson and C. S. McArthur; "On the Excretion of Oestrogens and Gonadotropic Hormone in the Urine of the Pregnant Sow" by Drs. E. Loginski, G. W. Holden and E. N. Maculium; "Ultra-violet Fluorescence as an Aid in the Identification of Vegetable Drugs and their Extracts,"

by Dr. Curt P. Wimmer; "Some Observations on the Cardiac Tonic Drugs Apocynum and Convallaria," by Dr. Heber W. Youngken; "Some Factors that Influence Endocrine Reactions," by Drs. E. L. Schwabe and E. E. Emery; "The Assay of Thyrotropic Hormone," by Drs. A. S. Cook and C. M. Hayes; and "Electro-osmosis, its Applications, and the Latest Discoveries Concerning the Penetration of Drugs in Living Tissues and in Heart Substances," by Dr. Louis C. Barail.

Section on Agriculture (O) and Affiliated Societies. The section as such will present no programs, but its affiliated societies, the Society of American Foresters and the Canadian Society of Forestry Engineers, will hold joint meetings on Monday, Tuesday, Wednesday and Thursday. The program on Monday afternoon, under the chairmanship of Professor J. Miles Gibson, will discuss "Administration of Crown Lands in Canada." The general subject of discussion on Tuesday morning, under the chairmanship of Dr. C. F. Korstian, is "Silviculture in Pulpwood Operations." On Wednesday morning these societies will hold a joint session with Forest Entomologists and Forest Pathologists, under the chairmanship of Dr. J. M. Swaine. On Thursday morning the societies join the Ecological Society of America in a symposium on "Fire and its Biological Implications." On Friday and Saturday the societies will make an excursion to Petawawa Forest Experiment Station (125 miles).

The Canadian Society of Technical Agriculturists will hold business sessions on Monday and will present scientific programs on Tuesday, Wednesday and Thursday. On Tuesday morning the Soils Group, under the chairmanship of Dr. J. Mitchell, will present a program of six papers. On Tuesday afternoon the Horticultural Group, under the chairmanship of Dr. C. F. Patterson, will present a program of nine papers. On Wednesday morning the Horticultural Group, under the chairmanship of Dr. M. B. Davis, will present a program of six papers. And also on Wednesday morning the Soils Group, under the chairmanship of Dr. L. E. Wright, will present a program of seven papers; and on Thursday morning a program of two papers and a round-table discussion on "Laboratory Methods and Technique in Soil Research with Special

Reference to Standard Determinations in Connection with Soil Survey Samples."

The Agricultural Economics Group of the Canadian Society of Technical Agriculturists is planning a program in connection with the Section on Social and Economic Sciences (K).

The Animal Industry Group on Tuesday afternoon will present a program, under the chairmanship of Dr. A. R. Ness, of eight papers.

The Plant Industry Group is planning a program in cooperation with the Canadian Phytopathological Society and the Section on Botanical Sciences (G).

The American Society of Agronomy is holding joint meetings with the American and Canadian Committee on Pasture Improvement and participates in a round-table conference on "Comparison of the Nutritive Value of Pasture and Hay with Other Crops."

Section on Education (Q). The section will hold general sessions on Tuesday and Wednesday. The first to be held on Tuesday morning will consist largely of papers on organizational and administrative problems in Canadian education. The second on Tuesday afternoon will be a joint session with the Section on Psychology (I) devoted largely to child study and the psychological aspects of education.

There will be two round-table discussions, the first, to be held on Wednesday morning under the chairmanship of Dr. V. K. Greer, will be on "Problems of the Curriculum of Elementary Schools." The second, to be held on Wednesday afternoon under the chairmanship of Major H. B. King, will be on "Problems of the Curriculum of Secondary Schools." At noon on Tuesday there will be a luncheon which will be followed by a discussion of and preliminary plans for the establishment of a Dominion Bureau of Research. This discussion will be under the chairmanship of Dr. Henry F. Munro, president of the Canadian Educational Association and superintendent of education for Nova Scotia. On Wednesday evening there will be a joint dinner with the Section on Psychology, which will be followed by reports on "The Scientific Study of the Education of the Dionne Quintuplets." This discussion is under the chairmanship of Dr. Edward A. Bott, of the University of Toronto.

OBITUARY

MAURICE CROWTHER HALL

By the death of Dr. Maurice Crowther Hall on May 1, 1938, the National Institute of Health of the U. S. Public Health Service lost a competent research scientist and administrator; parasitologists the world over lost one of their best-known and highly regarded colleagues; and the veterinary profession of the United States lost one of its most distinguished members. Dr.

Hall's death followed an operation for gastric ulcers from which he had suffered for about twenty years. That he was able to carry on his administrative and scientific work despite this serious handicap is evidence of an indomitable will and a resolute determination to pursue his work in the face of a devitalizing disease to which he finally succumbed.

Dr. Hall was born in Golden, Colorado, on July 15,