

tion, but no obligation in this respect is implied. Their members have the privilege of joining the association without paying the usual entrance fee, if they do so before the second October first after they become members of the affiliated organization, or before the second October first following the ratification of the affiliation of the latter.

(5) It was voted that the next volume of the Summarized Proceedings, with the directory of the American Association for the Advancement of Science members, shall be distributed at the following prices: \$1.50 to members who pay in advance before January 1, 1925; \$2.00 to members (\$2.50 to others) who pay in advance between January 1, 1925, and the time of publication; \$2.50 to members (\$3.25 to others) who purchase the volume after publication. It is planned that the volume will be published in the summer or early autumn of 1925.

(6) An offer was unanimously and very gratefully accepted from a member of the association, who wishes his name withheld for the present, who will give to the association the sum of \$5,000 to be devoted to five annual association prizes of \$1,000 each for notable contributions to science, for the next five years. The first of these prizes will be awarded in connection with the next annual meeting, which opens on December 29, 1924, in Washington. Further announcements regarding this American Association prize will appear in *SCIENCE*.

(7) It was voted that the sum of \$500 be appropriated and disbursed from the appropriable funds of the treasurer's office for the zoological station at Naples, which is being reorganized.

(8) A communication and a suggested resolution from the Ecological Society of America, regarding a proposed Glacier Bay National Park, in Alaska, were considered and were referred to Dr. Ward as a committee of one, to be reported back to the executive committee, with recommendations, at the next meeting of the committee.

(9) In preparation for the approaching fifth Washington meeting of the association (next December), it was voted that members residing in the District of Columbia be solicited for donations toward a fund to care for the extra expenses of that meeting.

(10) It was voted that the Pacific Division be authorized to remit entrance fees of new members joining during 1924, who are members of any society affiliated with the division, even if the society is not affiliated with the American Association as a whole. This privilege is open during 1924 to all members of the organizations that are affiliated with the association as a whole.

(11) It was voted that the next meeting of the

executive committee shall occur in Washington, on Sunday, October 12, 1924, beginning at 10:00 a. m.

B. E. LIVINGSTON,
Secretary

SCIENTIFIC EVENTS

MEMORIAL MEETING FOR THE LATE DR. BIGGS

ON April 29, the New York Academy of Medicine held a memorial meeting in honor of the Late Dr. Hermann M. Biggs. The speakers, all of whom had been intimately associated with Dr. Biggs and his work were: Dr. William H. Welch, director, Johns Hopkins School of Hygiene and Public Health, who presided; Dr. Walter B. James, emeritus professor of medicine, Columbia University; Dr. George D. Stewart, president of the Academy of Medicine; Dr. William H. Park, director of the Bureau of Laboratories, New York City Health Department; Dr. Matthias Nicoll, Jr., state commissioner of health; Mr. Homer Folks, secretary of the State Charities Aid Association; Mr. Ira A. Place, vice-president of the New York Central Railroad, and Dr. Livingston Farrand, president of Cornell University.

Dr. Welch spoke briefly of the lifework of Dr. Biggs, emphasizing the broad general medical training which he had, and which so well fitted him for his success in later years, both in public health work and private practice.

Drs. Park and Nicoll outlined the progress made under Dr. Biggs by the City and State Health Departments, respectively, and Mr. Folks spoke of his association with private public health organizations.

Dr. Farrand as the last speaker paid a high tribute to the character of Dr. Biggs, when he said in part: "The disorder of a war-torn civilization is characterized by a reign of prejudice and an exhibition of loose thinking and hasty judgment, which is nowhere more noticeable than in this complacent democracy of ours. It is minds and characters like those of Hermann Biggs of which this country stands most in need."

THE INTERNATIONAL MATHEMATICAL CONGRESS

AN International Mathematical Congress will be held in Toronto from August 11 to 16. International gatherings of mathematicians have previously been held in Zurich (1897), Paris (1900), Heidelberg (1904), Rome (1908), Cambridge (1912) and in Strasbourg (1920). The North American Continent is for the first time the meeting place of such an assembly. It is estimated that the attendance from

Europe will exceed one hundred, eighteen of whom will come from France, while it is expected that mathematicians in Canada and from the United States will be present in large numbers.

The Organizing Committee has tried to notify all those likely to be interested, resident in countries adherent to the Mathematical Union, or eligible for adherence thereto. In all, some six thousand notifications have been sent out, and a large number of universities and learned societies have been invited to be represented by delegates. Among those bodies which will be represented are the London Mathematical Society, Comité national français de Mathématiques, the American Mathematical Society, the University of Paris, the Polish Academie des Sciences, the British Admiralty, the American Association for the Advancement of Science, the National Physical Laboratory, the Bureau of Standards (Washington), the Royal Astronomical Society, the Institution of Naval Architects, the Institution of Electrical Engineers, the Actuarial Society of America, and many American universities and observatories.

The congress is being held under the auspices of the University of Toronto and the Royal Canadian Institute, and will be conducted in accordance with the regulations of the International Research Council. Professor J. C. Fields, F.R.S., president of the Royal Canadian Institute, is chairman of the Organizing Committee, and the other members of the committee are Sir Robert Falconer, K.C.M.G., president of the University of Toronto; Professor A. T. Delury, Professor J. C. McLennan, F.R.S., Professor C. A. Chant, Mr. T. H. Hogg, Dr. J. S. Plaskett, F.R.S., Professor M. A. Mackenzie, Professor E. F. Burton, Mr. J. Patterson, Mr. W. P. Dobson, Wing-Commander E. W. Stedman, F.R.Ae.S., and Professor J. L. Synge (Secretary). An Editorial Committee has been organized, with Professor Fields as chairman.

The congress will meet in the following sections:

Section I: Algebra, Theory of Numbers, Analysis.

Section II: Geometry.

Section III: (a) Mechanics, Mathematical Physics.
(b) Astronomy, Geophysics.

Section IV: (a) Electrical, Mechanical, Civil and Mining Engineering.
(b) Aeronautics, Naval Architecture, Ballistics, Radiotelegraphy.

Section V: Statistics, Actuarial Science, Economics.

Section VI: History, Philosophy, Didactics.

It will be observed that this scheme of sections differs from those adopted at former congresses in the additional attention devoted to the applications of mathematics. It has been devised in order to secure in the sphere of applied mathematics full opportunity for consideration not only of those questions whose interest is purely scientific, but also of practical prob-

lems of engineering whose solutions contribute directly to the cause of material progress.

The Organizing Committee would be obliged if those who expect to attend the congress would notify the secretary to that effect, stating their order of preference in accommodation from a choice of hotel, boarding house or university residence. Abstracts of papers intended for presentation should be in the hands of the secretary well in advance of the meeting.

Further information may be obtained from Professor J. L. Synge, secretary of the Organizing Committee, International Mathematical Congress, Royal Canadian Institute, 198 College Street, Toronto, Canada.

CHEMISTRY AT THE TORONTO MEETING OF THE BRITISH ASSOCIATION

AMONG overseas chemists who will be present at the Toronto meeting are the following:

President of Section B: Sir Robert Robertson, chemist to His Majesty's Government.

Vice-president: Professor F. G. Donnan, professor of inorganic and physical chemistry, University College, London.

Recorder: C. H. Desch, professor of metallurgy in the University of Sheffield; vice-president of the Faraday Society and member of the Council of the Chemical Society.

Sir Henry Gauvain, medical superintendent to Lord Mayor Treloar's Cripples' Hospital and College. Will speak on "Light therapy" in the symposium on "Vitamins and the relation of light to their action."

E. C. Baly, professor of inorganic chemistry in the University of Liverpool; will take part in discussion on "Photochemistry" at Saskatoon during the western trip.

W. A. Bone, chief professor of chemical technology in the Imperial College of Science and Technology.

Alexander Findlay, professor of chemistry in the University of Aberdeen.

Harold Dixon, professor of chemistry in the University of Manchester.

J. C. Irvine, principal of the University of St. Andrews.

Sir Max Muspratt, British chemical manufacturer.

K. J. P. Orton, professor of chemistry in the University of Wales; member of council of the Institute of Chemistry and Chemical Society, and member of the General Committee of the British Association.

Sir William J. Pope, professor of chemistry in the University of Cambridge.

E. K. Rideal, Owen-Jones lecturer in physical chemistry in the University of Cambridge, 1919-20 visiting professor of physical chemistry at the University of Illinois.

N. V. Sidgwick, fellow of Lincoln College.

Arthur Smithells, professor of chemistry and pro-vice chancellor of University of Leeds; chief chemical adviser to G. H. Q. during the war.

H. B. Baker will speak on "Highly dried liquids."