

(2) Study of the types of trees, particularly along the lower Amazon. The rubber-producing trees of the Eastern world, which now furnishes the greater part of the entire supply—the Malay States, India, Borneo, Ceylon, Java and Sumatra—were all originally transplanted from Brazil.

(3) Physiological studies of rubber trees, and botanical studies in general.

(4) Diseases of rubber-trees. This side of the work was in charge of Dr. J. R. Weir, pathologist of the Bureau of Plant Industry at Washington.

(5) An intensive study of conditions and methods of production in the Acre district on the Upper Amazon, where the best rubber is grown.

The results of the expedition will be published in Dr. LaRue's official report to the Department of Agriculture, now in preparation. The general results of the expedition were in all respects satisfactory.

PRIZES OF THE NEW YORK ACADEMY OF SCIENCES

THE New York Academy of Sciences announces two prizes of \$200 and \$100, respectively, offered by Mr. A. Cressy Morrison, fellow of the academy, to be known as the A. Cressy Morrison Prizes for 1924 and to be awarded at the annual meeting in December, 1924. The conditions are:

(1) Eligibility: Membership in good standing of the New York Academy of Sciences or one of the affiliated societies, prior to submission of the manuscript.

(2) Date: Papers are to be submitted on or prior to November 1, 1924, to the secretary of the New York Academy of Sciences at the American Museum of Natural History.

(3) Papers: The prize of \$200 is offered for the paper adjudged to be the most meritorious in a field of science covered by the academy or an affiliated society, which paper embodies the results of original research not previously published. The prize of \$100 is offered for the thesis adjudged to be most meritorious on the subject "What may be proved from our present knowledge as to the possibility or impossibility of released intra-atomic energy constituting an important source of solar and stellar energy."

(4) Awards: The awards shall be made by the council of the New York Academy of Sciences. At the discretion of the council, the prizes may be divided between papers adjudged to be of equal merit or both prizes may be awarded to a thesis presented for the \$100 prize.

(5) Publication: The academy will consider publication of the successful paper or papers, but publication by the academy shall not be binding on either party.

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

THE final program for the meeting of the International Union of Pure and Applied Chemistry to be held at Copenhagen, from June 26 to July 1, is definitely announced as follows:

Thursday, June 26.

3:30 p. m. Reception to delegates at the City Hall by the municipal authorities.

Friday, June 27.

9:00 a. m. Meeting of the council.

11:00 a. m. General assembly.

2:00 p. m. Meeting of committees.

8:30 p. m. Reception.

Saturday, June 28.

9:00 a. m. Meeting of committees.

1:30 p. m. Meeting of committees.

4:00 p. m. General lectures (to be announced later).

Sunday, June 29.

10:00 a. m. Excursions in neighborhood of Copenhagen and luncheon to delegates by the reception committee.

Monday, June 30.

9:00 a. m. Meeting of committees.

2:30 p. m. Visit to the Carlsberg Breweries, general lectures (to be announced later).

Tuesday, July 1.

9:00 a. m. Meeting of committees.

2:00 p. m. Meeting of council.

4:00 p. m. General assembly.

8:00 p. m. Banquet to the delegates by the reception committee.

During the course the delegates will be invited to a special lecture to be delivered by Professor Niels Bohr and will visit his laboratories in the Institute of Theoretical Physics of the University of Copenhagen.

The American delegation is composed as follows: Delegates to the Council: W. D. Bancroft, *Chairman*; J. E. Zanetti, *Secretary*; W. A. Noyes, W. T. Taggart. *Delegates to the Assembly*: E. J. Atkisson, F. E. Breithut, H. C. Fuller, H. C. Loudonbeck, R. A. Millikan and Atherton Seidell.

American chemists who expect to be abroad and who would like to attend the meetings are requested to communicate with Dr. J. E. Zanetti, chairman of the Division of Chemistry and Chemical Technology, National Research Council, Washington, D. C. Credentials from the National Research Council are necessary to attend these meetings.

THE SECTION OF MATHEMATICAL AND PHYSICAL SCIENCES OF THE BRITISH ASSOCIATION

OVERSEA members of the British Association for the Advancement of Science coming to the Toronto

meeting beginning on August 6, include the following:

Sir William H. Bragg, Quain professor of physics, London University, will deliver the presidential address before Section A on Monday, August 11, and will contribute to the joint discussion between Sections A and B on "Crystal structure."

J. H. Jeans, secretary of the Royal Society, formerly Halley lecturer in Oxford University, and professor of applied mathematics at Princeton, will speak on "Relativity."

A. S. Eddington, professor of astronomy in the University of Cambridge and director of the observatory, will also speak on "Relativity."

J. Jackson, from the Royal Observatory, and E. A. Milne, of the department of astrophysics of Cambridge, will speak on "Star motions."

Lord Rayleigh will speak on "The scattering of light."

R. H. Fowler, Trinity College, Cambridge, will speak on "Quanta."

J. W. McBain, professor of physical chemistry, University of Bristol, will take part in joint discussion on "Colloidal solutions" between the Mathematical and Chemistry Sections, and will also take part in a discussion on Photochemistry which has been arranged to take place at Saskatoon in the course of the western excursion.

G. I. Taylor, lecturer in mathematics in Trinity College, Cambridge, will take part in a joint discussion on "Aeronautics" between the Sections on Engineering and Physical Sciences.

Sir Napier Shaw, professor of meteorology at the Royal College of Science, and president of the International Meteorological Committee, will contribute to the program of the subsection of meteorology.

Harold Jeffreys, Cambridge, will contribute with L. F. Richardson, London, to the joint session in the subsection of meteorology.

E. T. Whittaker, professor of mathematics in Edinburgh.

A. O. Rankine, professor of physics in Imperial College of Science and Technology, recorder of Section A.

H. R. Hassé, professor of mathematics in the University of Bristol, one of the secretaries of Section A.

A. N. Tyndall, professor of physics, University of Bristol, secretary of Section A.

R. A. Giblett, one of the secretaries of Section A.

W. L. Bragg, Langworthy professor of physics in Victoria College, Manchester.

A. Fowler, professor of astrophysics, Royal College of Science, general secretary of the International Astronomical Union.

Sir R. T. Glazebrook, professor of aviation in the Imperial College of Technology, chairman of the Aeronautical Research Committee, recently director of National Physics Laboratory.

Major Percy A. MacMahon, formerly deputy warden of the standards, Board of Trade; general secretary of the British Association; 1902-14; president of the Royal Astronomical Society, 1917.

Sir Ernest Rutherford, professor of experimental physics and director of the Cavendish Laboratory, Cambridge University.

G. Udney Yule, lecturer on statistics, Cambridge University.

H. William Young, professor of pure mathematics, University of Wales.

Sir R. H. Rew, treasurer of the international statistical institute.

Vito Volterra, professor of mathematics and physics, University of Rome.

SCIENTIFIC NOTES AND NEWS

FOUR hundred and thirty British members have already signified their intention of attending the Toronto meeting of the British Association from August 6 to 13. During the meeting, popular lectures in the different sections will be given in the afternoon at 5 p. m., for members of the association. Several citizens' lectures will be given in the evening, as well as two or three lectures for children. The inaugural general meeting will be held on Wednesday, August 6, in the Convocation Hall of the University of Toronto. At this meeting Professor Sir Ernest Rutherford, F. R. S., will hand over the presidency of the association to Major General Sir David Bruce, who will then deliver his presidential address entitled "Advances made in the knowledge of disease with special reference to methods developed during the war."

AMONG eight busts unveiled in the colonnade of the Hall of Fame of New York University on May 13 were two of men of science. The bust of Joseph Henry, by Mr. John Flannagan, was presented by Mr. Edwin Wilbur Rice, Jr., on behalf of the American Institution of Electrical Engineers. It was unveiled by Mr. Thomas A. Edison and received by Colonel John J. Carty. The bust of William Thomas Green Morton, by Helen Farnsworth Mears, was presented by Dr. George David Stewart on behalf of the fellows of the American College of Surgeons. It was unveiled by Mr. Bowditch Morton, grandson of Dr. Morton, and received by Dr. William W. Keen.

DR. EDMUND BEECHER WILSON, Da Costa professor of zoology in Columbia University, has been elected a foreign member of the Paris Academy of Sciences, in the Anatomical and Zoological section, succeeding the late Dr. Jacques Loeb. Professor Wilson was elected on the first ballot, receiving 44 of the 47 votes cast.

THE gold medal of the British Medical Association has been awarded to Dr. Henry Britten Brackenbury for his distinguished services to the association and to the medical profession.

R. S. WILLIAMS, administrative assistant of the New York Botanical Garden, has been elected president of the Sullivant Moss Society.

DR. G. L. WENDT, formerly of the University of