

graphic and natural history information and photographs, has been announced by Dr. Gilbert Grosvenor, president of the society. Dr. William M. Mann, director of the National Zoological Park, is head of the expedition.

Accompanying Dr. Mann will be Mrs. Mann, a member of the photographic staff of the National Geographic Society, and Roy Jenier and Malcolm Davis, of the park staff. The party will sail from Seattle and, after brief pauses in Japan, the Philippines and Singapore, will establish headquarters at some point on the Island of Sumatra, near the sea, and in easy reach of "wild country." Equipment will include a number of special "mercy traps" and a few special cages in which to carry small, delicate creatures. The heavy traps and cages needed for the larger jungle beasts will be built in the field. Dr. Mann states that the region to be visited is at present only poorly represented by animals in the National Zoological Park. He will confer with game officials and naturalists in the countries to be visited, and will collect whatever he can of the missing specimens. Mammals, reptiles, birds and a few fishes will be the primary objects of the collectors, but in spare time insects and a few botanical specimens will be collected.

The trip to the East Indies under joint Geographic and Smithsonian auspices has been planned for some time. The project was approved and organized with its complete personnel two years ago, but was delayed on account of the extensive building program at the Zoological Park, which has since held Dr. Mann in Washington.

After the work is completed in Sumatra, the expedition expects to visit the Island of Ceram, almost 2,000 miles to the east, and possibly some of the East Indies islands not under Netherlands jurisdiction. Before starting home, the party will also visit Bangkok, Siam. It will return through the Indian Ocean and the Mediterranean to England. There the collections will be shipped to America. If possible, it will be arranged to land at Baltimore in order to shorten the overland trip.

ANNUAL MEETING OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

At the annual meeting of the American Society of Mechanical Engineers, which opened on December 1, the Hoover Medal was presented to Ambrose Swasey, of Cleveland, by Gano Dunn, of New York. Mr. Herbert Hoover spoke briefly after the presentation.

Other awards were made as follows:

An honorary membership to George A. Orrok "for his outstanding contributions to the engineering profession in the power field."

The American Society of Mechanical Engineers Medal to Edward Bausch, of the Bausch & Lomb Optical Company, Rochester, "for meritorious mechanical developments in the field of optics."

The Worcester Reed Warner Medal to Professor Charles M. Allen, of the Worcester Polytechnic Institute, Worcester, Mass., "for his early and continued hydraulic laboratory work and for the permanent value of the papers on his development of methods of testing large hydraulic turbine installations."

The Melville Medal to H. A. Stevens, of Philadelphia, for his paper on "The Loading and Friction of Thrust and Journal Bearings with Perfect Lubrication."

The Junior Award to Harwood F. Mullikin, Jr., of New York, for his paper on "Evaluation of Effective Radiant Heating Surface and Application of the Stefan-Boltzman Law to Heat Absorption in Boiler Furnaces."

The Undergraduate Student Award to Leon B. Stinson, of the Oklahoma Agricultural and Mechanical College, for his paper on "Polymerized Motor Fuels: Their Economic Significance."

The ninetieth anniversary of the birth of George Westinghouse, inventor of the airbrake and the steam turbine, was observed at the evening session, when the principal address was made by Dr. James Rowland Angell, president of Yale University.

The society elected the following officers for 1937: J. H. Herron, of Cleveland, *president*; J. M. Todd, of New Orleans, and R. J. S. Pigott, of Pittsburgh, *vice-presidents*, and E. W. Burbank, of Dallas, Tex.; K. H. Condit, of New York, and Dean S. W. Dudley, of the Yale University School of Engineering, *managers*.

FIRST ANNUAL SYMPOSIUM OF THE DIVI- SION OF PHYSICAL AND INORGANIC CHEMISTRY OF THE AMERICAN CHEMICAL SOCIETY

THE symposium is to be held at Princeton University on December 31 and January 1 and 2 on the general topic "Molecular Structure." The program, which includes contributions both from chemists and physicists active in the several branches of this field, is outlined below.

The program will be divided into half days as follows:

Thursday morning, December 31. General introduction to the symposium, H. L. Johnston, the Ohio State University. Five papers on "Spectra and Structure of Diatomic Molecules" and other topics, with R. S. Mulliken as discussion leader.

Thursday afternoon and Friday morning. There will be ten papers on "Spectra and Structure of Polyatomic Molecules," with W. A. Noyes, Jr., as discussion leader.

Friday afternoon. Five papers will be given on "Determinations of Structure by Methods which are Non-Spectroscopic," with G. B. Kistiakowsky as discussion leader.

Saturday morning will be devoted to "Some Applications of Knowledge of Structure," with Saul Dushman as discussion leader.

There will be twenty-seven papers on these five half-days, but since preprints are to be made available in advance of the meeting, the time required for presentation is expected to be small and the discussion will be allowed to take most of the time. Contributions to the discussion should be sent (in advance of the meeting, if possible) to Dr. W. A. Noyes, Jr., Brown University, Providence, R. I.

Only contributions received before January 10, 1937, can be considered for publication with the discussion. Such comments will be subject to editorial control and revision and probably space limitations will prevent the publication of the entire discussion.

On Saturday afternoon a session will be devoted to papers which were completed too late for inclusion among the preprints. The details of this session as well as the complete program of the other papers will appear in the News Edition of *Industrial and Engineering Chemistry*.

Preprints may be ordered from the Secretary of the Division of Physical and Inorganic Chemistry, Professor George Scatchard, Department of Chemistry, Massachusetts Institute of Technology, Cambridge, Mass. The price will be one dollar (except to the members of the division, who may order one copy each at the special rate of fifty cents).

Those planning to attend the symposium should make their own arrangements for hotel accommodations. Thirty rooms are available at the Graduate College at two dollars a night and reservations may be made through E. A. Smith, Graduate College, Princeton University, Princeton, N. J.

The registration fee will be fifty cents except to American chemists who are not members of the American Chemical Society, for whom the registration fee will be one dollar. The registration fee may be paid to the secretary of the division, Professor Scatchard, in advance of the symposium. In order that the committee may form an estimate of the probable

attendance a pre-payment of this registration fee would be appreciated by members of the committee.

The arrangements for the symposium have been under the direction of a committee consisting of H. L. Johnston, *chairman*, Farrington Daniels, Saul Dushman, W. M. Latimer, W. A. Noyes, Jr., H. S. Taylor, H. H. Willard and H. C. Urey, with John Turkevich, Princeton University, as local representative.

THE AMERICAN SCIENCE TEACHERS' ASSOCIATION

THE tentative program for the meeting of the American Science Teachers' Association, affiliated with the American Association for the Advancement of Science, on December 31 at Atlantic City is as follows:

MORNING

"Composition of the Upper Atmosphere." Speaker: W. J. Humphreys, U. S. Weather Bureau.

"The Relative Claims of Natural Science and of Social Studies to a Core Place in the Secondary School Curriculum." Speakers: for natural science—Dr. Oscar Riddle, Carnegie Institution of Washington; for social studies—Dr. Roy W. Hatch, Montclair State Teachers College.

Discussion by leaders and from the floor.

LUNCHEON

Speaker: Dr. Edwin G. Conklin, president of the American Association for the Advancement of Science.

AFTERNOON

"The Next Ten Years in Science Education." Speaker: Dr. Otis W. Caldwell.

Discussion by leaders and from the floor.

"The Need for a National Publication for Science Teachers." Speaker: Professor Earl R. Glenn, Montclair State Teachers College.

Discussion by leaders and from the floor.

"Theories of Solar System Origin." Speaker: ———

Discussion by leaders and from the floor.

or

"Desirable Training for Science Teachers." Speaker: ———

Discussion by leaders and from the floor.

Business meeting.

SCIENTIFIC NOTES AND NEWS

DR. ALFRED NORTH WHITEHEAD, since 1924 professor of philosophy at Harvard University, who is now seventy-five years old, will retire with the title professor emeritus next September. He will also resign as senior fellow in the Society of Fellows. It is planned that the annual sessions of the American Philosophical Association, which will be held in Cambridge on December 28, 29 and 30, be in his honor.

PROFESSOR LEO LOEB will retire from the chair of

pathology and as head of the department at the Washington University School of Medicine on January 1.

DR. WILLIAM T. HORNADAY, who was for thirty years director of the New York Zoological Society, celebrated his eighty-second birthday on December 1.

THE honorary doctorate of science was conferred by Alfred University on Founders' Day, December 3, on Professor Alexander Silverman, head of the department of chemistry of the University of Pittsburgh, who