

logical Sciences), Linguistic Society of America, History of Science Society.

At Teachers College of Columbia University, Broadway at 120th Street: Section F (Zoological Sciences), American Society of Zoologists, Entomological Society of America, American Association of Economic Entomologists, American Society of Parasitologists, Phi Sigma Biological Research Society; Section G (Botanical Sciences), Botanical Society of America, American Phytopathological Society, American Society of Plant Physiologists, Sullivant Moss Society, American Fern Society, Ecological Society of America, American Microscopical Society, Genetics Sections of the American Society of Zoologists and the Botanical Society of America, Geneticists Interested in Agriculture, American Nature Study Society; Section O (Agriculture), American Society of Agronomy, Potato Association of America, Society of American Foresters; Section Q (Education).

At the Engineering Societies Building, 29 West 39th Street: Section M (Engineering).

At the American Geographical Society Building, 156th Street and Broadway: Association of American Geographers, National Council of Geography Teachers.

At Rockefeller Institute, 66th Street and Avenue A: Section N (Medical Sciences).

Further information regarding these reservations can be obtained from Chairman George B. Pegram, at Columbia University.

HOTELS

The hotels of New York City have been thoroughly canvassed and very favorable rates secured. These have been communicated to the secretaries of the societies and sections for the selection of headquarters hotels. A list of these, together with prices at about one hundred hotels, will be published in *SCIENCE* in the near future. Members are urged to make their reservations direct and an early choice of hotels is recommended, as the local committee expects the eighty-fifth meeting of the American Association for the Advancement of Science and its Associated Societies to be the largest in the history of the organization.

HELEN ANN WARREN,

*Assistant Secretary to New York
Committee on Arrangements*

AMERICAN MUSEUM OF NATURAL
HISTORY

SCIENTIFIC EVENTS

THE NEW ASTRONOMICAL OBSERVATORY AT STOCKHOLM

STOCKHOLM is to have a new astronomical observatory, to be located at Saltsjobaden, a garden city about 10 miles outside the capital, according to a report from the consul general at Stockholm, John Ball

Osborne, made public August 1 by the U. S. Department of Commerce. The building will be started as soon as possible, and it is expected that the observatory will be ready for use in two or three years.

The equipment will include a large refracting telescope for parallax determinations, a large new reflecting telescope, about one meter in diameter and intended for spectrographic observations, astrographs for photometric examinations, and a new meridian circle.

The project has been made possible by the Stockholm municipal authorities offering to purchase the present observatory in the city for the sum of 900,000 crowns (about \$421,000) and through a donation of 1,000,000 crowns (about \$468,000) from "Knut and Alice Wallenger's Foundation." This foundation was founded in December, 1917, for the purpose of promoting science, etc., and large donations have been made for the establishment of various institutions.

The present observatory in Stockholm, built on a hill in the northern part of the city, was erected during the years 1748 to 1753. However, it is now too small and cramped to serve its purpose, the rapid growth of the city has made the location unsuitable, and the equipment is considered too out-of-date to comply with modern requirements.

THE INTERNATIONAL FUEL CONFERENCE

SEVEN of the ten official delegates who will represent the United States at the Fuel Conference to be held in London from September 24 to October 6, under the auspices of the World Power Conference, have been chosen, according to the *Electrical World*, as follows: Dr. Gustav Egloff, petroleum technologist, Universal Oil Products Company, Chicago, Ill.; H. W. Brooks, consulting engineer, New York City, representing the American Society of Mechanical Engineers and the International Railway Fuel Association; O. P. Hood, chief of the technological branch, U. S. Bureau of Mines, Washington, D. C., representing the American Society of Mechanical Engineers; Martin Frisch, manager of field engineering, Combustion Engineering Corporation, New York City; G. A. Orrok, consulting engineer, New York City, representing the American Society of Mechanical Engineers; David B. Rushmore, formerly consulting engineer, General Electric Company, New York City, member of the executive committee of the American committee, and O. C. Merrill, general chairman of the American committee of the World Power Conference, ex-secretary of the Federal Power Commission.

Among the papers to be presented by Americans are the following, classified by associations represented:

American Institute of Mining and Metallurgical Engineers.—"Pulverized Fuel for Steam Purposes," Martin Frisch and Henry Kreisinger, Combustion Engineering Corporation, New York City; "Pulverized Fuel in Metallurgical Work," W. O. Renkin, Fuller-Lehigh Company, Fullerton, Pa.; "Pulverized Fuel in Marine Works," H. W. Brooks, consulting engineer, New York City.

National Electric Light Association.—"Domestic Heating by Means of Solid Fuel, Oil, Gas and Electricity," H. W. Derry, Union Gas & Electric Company, Cincinnati, Ohio; "Utilization of Electricity for Industrial Heating," W. H. Sammis, Consumers Power Company, Jackson, Mich.

American Institute of Electrical Engineers.—"Utilization of Electricity for Industrial Heating."

U. S. Bureau of Mines.—"Coal Classifications," A. C. Fieldner, Washington, D. C.

THE CURRENT PROGRAM OF THE ILLINOIS STATE GEOLOGICAL SURVEY

THE Illinois State Geological Survey is undertaking the following field and office projects during the current fiscal year beginning July 1, 1928:

The paleobotany and stratigraphy of the Pottsville formation by Dr. David White, in cooperation with U. S. Geological Survey; the paleontology and stratigraphy of the Silurian System by Professor T. E. Savage, of the University of Illinois; the physiography, stratigraphy and paleontology of the Pleistocene System of southern Illinois by Professor Paul MacClintock, late of the University of Chicago, now of Princeton University; the paleontology of the Pennsylvanian System by Dr. J. Marvin Weller, of the state survey staff; the foraminifera of the Pennsylvanian System by Professor C. O. Dunbar, of Yale University, assisted by Mr. L. G. Henbest, of the survey staff; the flora of the coal balls by Associate Professor A. C. Noé, of the University of Chicago; the writing of the new report on the fluorspar deposits of Hardin County by Professor E. S. Bastin, of the University of Chicago; the writing of a comprehensive bulletin on the Illinois Coal Field by Dr. G. H. Cady, of the state survey staff; the writing of the report on the oil and gas possibilities of northern Crawford County by Mr. G. F. Moulton, of the survey staff; the writing of the report on the oil and gas possibilities of the Hardinsville and Sumner quadrangles, by Assistant Professor D. J. Fisher, of the University of Chicago; the economic non-metallic resources of extreme southern Illinois by Mr. J. E. Lamar, of the survey staff, and Mr. C. E. Dutton, of the University of Illinois; the writing of the report on the Monmouth quadrangle and the collecting and interpretation of sub-surface data in the state by Mr. L. E. Workman, of the survey staff; the geology of state highway engineering projects and the writing of the report on the

Kankakee quadrangle by Dr. G. E. Ekblaw, of the survey staff; the geologic mapping of the Illinois portion of the Hardin and Brussels quadrangles by Mr. W. W. Rubey, loaned to the state survey by the U. S. Geological Survey, assisted by Dr. J. R. Ball, of Northwestern University; the geologic mapping of the Winchester and Griggsville quadrangles by Dr. A. H. Bell, of the survey staff; the geologic mapping of the Glasford quadrangle by Dr. A. C. Bevan, of the University of Illinois; the writing of the report on the Havana quadrangle by Dr. H. R. Wanless, of the University of Illinois; and the geologic mapping of the Elgin quadrangle by Dr. M. M. Leighton, chief of the Illinois Geological Survey, and W. E. Powers, of Northwestern University.

Geological assistants, chiefly graduate students, of some of the foregoing parties include H. B. Willman, O. E. Wagner and S. E. Ekblaw, of the University of Illinois, E. R. Fritz and K. W. Stott, of the University of Chicago, and T. A. Hendricks, of Northwestern University.

The State Board of Natural Resources and Conservation, which controls the policies and activities of the state scientific surveys, including the geological survey, recently confirmed the appointment of Curator F. C. Baker, of the museum of natural history of the University of Illinois, as consultant in Pleistocene invertebrate paleontology. Professor Baker is now engaged in a study of the fossil collections from the various interglacial loesses and water laid silts which the survey is making in its Pleistocene and quadrangle studies.

The printing program of the Illinois Survey now includes, in addition to its regular technical bulletins, an educational series of pamphlets for the educated layman and public school pupil, illustrated and written especially for their kind of interest and background.

The topographic mapping of the state under the immediate charge of Major W. H. Herron, topographic engineer in charge of the Central Division of the U. S. Geological Survey, is continuing with the financial support of \$100,000 per year shared equally by the federal and state surveys. The revised topographic mapping of Chicago and vicinity was completed last fall, and the engraved sheets are now being issued in 7½ minute units, vertical interval 5 feet, thus making a remarkable metropolitan map.

DR. SMITH'S COLLECTION OF CHEMICAL MEMORABILIA AT THE UNIVERSITY OF PENNSYLVANIA

As already recorded in SCIENCE, the valuable collection of chemical memorabilia assembled by Dr. Edgar Fahs Smith, who was provost of the University