

THE ARNOLD ARBORETUM

FROM a statement issued by the U. S. Department of Agriculture we note that a new and larger greenhouse is to be erected at the Arnold Arboretum of Harvard University, at Jamaica Plain, Mass. In this greenhouse, which will occupy a site on the South Street side of the arboretum, there will be a laboratory fully equipped for research in pathology and genetics, a workroom for potting and pits for growing woody plants. The greenhouse will be about 50 feet long. It is to be adjoined by a new nursery covering about three acres of land.

A most important phase of arboretum work—hybridization and the study of living conditions and diseases of plants with a view of improving their inherent qualities—has never been attempted at the Arnold Arboretum because of lack of necessary facilities. Up to the present time the work carried on at the arboretum has consisted mainly of assembling woody plants and trees from all parts of the world, identifying, classifying and propagating them and exchanging them with other arboreta and nurseries and building up a library and herbarium.

With part of the \$1,000,000 endowment now being raised as a memorial to Charles Sprague Sargent, late director of the arboretum, two departments of research are to be established, one in pathology and one in genetics. The work in genetics will be supervised by Dr. Edward M. East, of the Bussey Institution. There is to be added to the staff a systematic botanist whose field will cover the woody plants of tropical America. It is planned to offer opportunity for special work in dendrology to men who wish to obtain the doctor's degree in this field.

The Arnold Arboretum was established in 1872 for the study and cultivation of all woody plants capable of withstanding the climate of Massachusetts. The original endowment was \$100,000, given to Harvard University by a local merchant. In carrying out this trust Harvard set aside 125 acres of land known as the Bussey farm. By an arrangement with the city of Boston the Arnold Arboretum is assured of its present site for 1,000 years and is tax free. The roads in the arboretum are maintained by the city as part of the park system. Under Professor Sargent's guidance the endowment was increased to more than \$1,000,000 and the area to 260 acres. The arboretum now includes more than 6,500 species of trees, shrubs and vines.

Of the projected Sargent memorial fund of \$1,000,000 more than \$900,000 has been collected.

THE SWAMPSCOTT MEETING OF THE AMERICAN CHEMICAL SOCIETY

THE seventy-sixth meeting of the American Chemical Society will be held at Swampscott, Massachusetts,

from Monday, September 10, to Friday, September 14. It is estimated that more than 2,000 chemists will be in attendance. A list of the large number of technical papers to be presented before the society will be found in the news edition of *Industrial and Engineering Chemistry* for August 20. The following special arrangements have been made by various divisions:

The Division of Agricultural and Food Chemistry will hold a symposium on "Chemistry and the Food Industry."

The Division of Biological Chemistry is preparing an extensive program on various phases of the relation of chemistry to health and disease, covering vitamins, irradiation, endocrinology, bacteriology, etc. Special attention will be paid to cod-liver oil, the rôle of diet in dentition and chemical phases of psychiatric conditions.

The Division of Chemical Education will hold a joint symposium with the Division of Physical Chemistry on "The Teaching of Physical Chemistry." In addition, there will be a breakfast of the executive committee of the division at the New Ocean House, Monday, at 8 A. M.; a meeting of the Senate of Chemical Education at 9 A. M.; luncheon for the senate and the division at 12:15 P. M., and a luncheon, to which high-school teachers of chemistry in the immediate area of the meeting are especially invited, at 12:15 P. M., Tuesday. There will be a meeting of the contributing editors of the *Journal of Chemical Education*, Wednesday at 5 P. M.

The Division of Colloid Chemistry will hold a joint symposium with the Rubber Division on "The Colloid Chemistry of Rubber," and two additional half-day sessions.

The Dye Division will hold two sessions of special interest to the textile industry, and a third session devoted to the spectrophotometer.

The Division of Gas and Fuel Chemistry will hold a joint symposium with the Division of Petroleum Chemistry on "The Chemistry and Physics of Combustion," and two additional sessions for general papers appropriate to the Division of Gas and Fuel Chemistry.

The History of Chemistry Division will hold a half-day session, at which several papers will be devoted to the history of chemistry in New England and, in connection with the centenary of urea, a discussion of Wöhler and an exhibition of Wöhler memorabilia. The division plans an exhibition, open continuously for two days for the convenience of the members of the society, of books, letters, portraits and other documents pertaining to the history of chemistry in New England.

The Division of Industrial and Engineering Chemistry will have charge of one of the general programs on Tuesday morning and will also hold an economic symposium on "The Newer Relations of Nitrogen to Chemical Industry and Agriculture."

The Division of Petroleum Chemistry is planning two symposia for the Swampscott meeting: a symposium on "Wax" and a joint symposium with the Division of Gas and Fuel Chemistry on "The Chemistry and Physics of Combustion."

The Division of Physical and Inorganic Chemistry will have charge of one of the general sessions and will also have a joint symposium with the Division of Chemical Education on "The Teaching of Physical Chemistry."

The Division of Rubber Chemistry is arranging a joint symposium on "Polymerization."

The council has voted that the policy of the society regarding attendance and participation in its general, divisional and regional meetings shall be as follows:

(a) Attendance at meetings is limited to registered individuals.

(b) All individuals in registering shall state whether or not they are members of the society and, if not, whether they are chemists.

(c) American chemists non-members of the society shall assist in the support of the facilities which they enjoy by paying a higher registration fee than members. This differential at general meetings shall be \$5.00 higher than the fee charged members; while at regional and divisional meetings it shall be at least twice the regular fee adopted. They shall be furnished with a special non-member badge to differentiate them from members of the society and from foreign and non-chemist guests. The differential charged shall not apply to regularly matriculated students majoring in chemistry at any college or university.

(d) Papers by American chemists not members of the society shall not appear on its programs unless they be joint papers with society members.

Swampscott is one of the leading summer resorts in the Boston territory, and is ideally situated on the famous "North Shore." Visitors will combine the pleasures of the seashore with the attractions of the metropolis in enjoying a recreational week as a background for the important scientific sessions. Among other features, the entertainment committee has arranged sightseeing trips for Tuesday and Wednesday, the formal banquet for Wednesday evening, a visit to Harvard University Thursday afternoon, and an all-day North Shore trip on Friday.

SCIENTIFIC NOTES AND NEWS

DR. GEORGE L. STREETER, director of the department of embryology of the Carnegie Institution at Baltimore, has received from the University of Dublin the honorary degree of doctor of science.

DR. FRANK B. JEWETT, of the American Telephone and Telegraph Company, and Dr. William Allen Pusey, the dermatologist, of Chicago, former president of the American Medical Association, were speakers in a symposium on "The Community of Interest of the Professions," held in connection with the recent celebration of the fiftieth anniversary of the American Bar Association.

DR. W. HARVEY SMITH, of Winnipeg, has been elected president of the British Medical Association for the meeting to be held in Winnipeg in 1930.

PROFESSOR VLADIMIR IVANOVITCH KOVALEVSKY, of the State Institute of Experimental Agronomics at Leningrad, will shortly celebrate his eightieth birthday. By order of the Soviet government the title of "scientist emeritus" has been conferred upon him.

WILL C. BARNES retired on July 1 after completing twenty-one years with the U. S. Forest Service. Mr. Barnes, however, will not cease active work in the government service, but will assume the position of secretary of the United States Geographic Board.

DR. HOWARD D. LIGHTBODY, associate professor of physiological chemistry, Michigan State College, East Lansing, has been appointed director of the John C. Oliver Memorial Research Foundation, recently established at the laboratory of the St. Margaret Memorial Hospital, Pittsburgh.

DR. G. C. HAAS, of the foreign service of the U. S. Department of Agriculture, is leaving at the end of August to take a position with the Investment Research Corporation, of Detroit, Michigan.

DR. E. L. KIRKPATRICK, associate agricultural economist of the division of farm population and rural life, will resign from the bureau of Agricultural Economics on August 31 to accept a position in the department of agricultural economics at the University of Wisconsin, where he will be principally engaged in research work in rural sociology.

DR. NELSON MCKAIG, JR., following completion of postgraduate studies at the University of Chicago for the degree of doctor of philosophy, has been appointed associate soil technologist in the Bureau of Chemistry and Soils and has been assigned to research studies on soil fertility problems with sugar cane in the south.

CHARLES W. GILMORE, curator of vertebrate paleontology in the U. S. National Museum, after an absence of three months in the northern Montana fossil fields, resumed his work at the museum on August 13. He reports a successful season in the field, the expedition of which he was in charge having collected two and one half tons of material. Mr. Gilmore was assisted in the field by Mr. George F. Sternberg and Mr. Edwin Cooke.

CHARLES VERNON BOYS, F.R.S., the London physicist, is spending the summer as the guest of Alfred L. Loomis at the latter's laboratory in Tuxedo Park, N. Y.

WILLIAM CUTRIGHT, specialist on insects of the U. S. Department of Agriculture, arrived in Yokohama, on June 28, for a year's stay in Japan and other Asiatic countries. He will carry on research work in the Kyoto Imperial University on the