

ican Chemical Society will meet in Boston from September 11 to 15 in connection with its ninety-eighth convention. Numerous symposia will supplement the regular sessions.

The divisions and their chairmen are: Agricultural and Food, Dr. Roy C. Newton, of Swift and Company, Chicago; Biological, Dr. Joseph J. Piffner, of Parke, Davis and Company, Detroit; Cellulose, Professor George L. Clark, of the University of Illinois; Chemical Education, Martin V. McGill, of Lorain High School, Lorain, Ohio; Colloid, Professor Lloyd H. Reyerson, of the University of Minnesota; Fertilizer, Egbert W. Magruder, of the F. S. Royster Guano Company, Norfolk, Va.; Gas and Fuel, Dr. Frank H. Reed, of the Illinois Geological Survey; History of Chemistry, Professor Tenney L. Davis, of Massachusetts Institute of Technology; Industrial and Engineering, Dr. Walter L. Badger, of the Dow Chemical Company, Ann Arbor, Mich.; Medicinal, Professor Walter H. Hartung, of the University of Maryland; Microchemistry, Lawrence T. Hallett, Eastman Kodak Company, Rochester, N. Y.; Organic, Professor Werner E. Bachmann, of the University of Michigan; Paint and Varnish, Professor William H. Gardner, of the Polytechnic Institute, Brooklyn, N. Y.; Petroleum, Dr. Per K. Frolich, of the Standard Oil Development Company, Elizabeth, N. J.; Physical and Inorganic Chemistry, Professor George Scatchard, of Massachusetts Institute of Technology; Rubber, Dr. G. K. Hinshaw, of the Goodyear Tire and Rubber Company, Akron, Ohio; Sugar Chemistry and Technology, A. R. Nees, of the Great Western Sugar Company, Denver, Colo.; Water, Sewage and Sanitation, Professor Alvin P. Black, of the University of Florida.

The divisions will hold symposia as follows:

The Division of Agricultural and Food Chemistry is sponsoring a symposium on Nitrogen-Free Extracts, with Dr. C. A. Browne, of the U. S. Bureau of Chemistry and Soils, Washington, D. C., in charge, and another on Plant Hormones. Together with the Division of Medicinal Chemistry, the food chemists will cooperate with the Biological Division in a program on Vitamins and Nutrition. Papers on other agricultural and food topics will also be heard.

The Division of Biological Chemistry will devote a day to a symposium on Methods in Protein Chemistry. It will also join the Medicinal Division in a symposium on Sterols and Related Compounds. General papers in the field of biological chemistry will be given at other sessions. The Cellulose Division will hear a variety of general papers.

Dr. Mary L. Sherrill, of Mount Holyoke College, will be chairman of a symposium on the Training and Opportunities for Women in Chemistry to be held by the Division of Chemical Education. The Colloid Division will participate in a symposium on X-Ray Studies of Substances of High Molecular Weight, with Dr. Maurice L. Huggins, of

the Eastman Kodak Company, presiding. The Fertilizer Division will have a program of general papers in three sessions.

A symposium on the Combustion of Solid Fuels under the chairmanship of Martin A. Mayers, of the Coal Research Laboratory of the Carnegie Institute of Technology, will be sponsored by the Gas and Fuel Division. A comprehensive session on Industrial Wastes is planned by the Division of Industrial and Engineering Chemistry and Water, Sewage and Sanitation Chemistry. Dr. Walter A. Schmidt, president of the Western Precipitation Company, will be chairman.

A third Unit-Process Symposium will be held by the Industrial and Engineering Division, with Professor R. Norris Shreve, of Purdue University, presiding. A symposium on Resins and Plastics from Hydrocarbons is planned by the Petroleum, Paint and Varnish, and Rubber Divisions.

The Division of Physical and Inorganic Chemistry, of which Professor Harold C. Urey, of Columbia University, is secretary, will have a program of a hundred and thirteen papers. Professor F. G. Keyes, of the Massachusetts Institute of Technology, will preside at a symposium on Low Temperature Research, and Professor W. C. Fernellus, of the Ohio State University, at a symposium on Compounds with Elements in Unusual States of Valence. Dr. Scatchard, Professor Charles P. Smyth, of Princeton University, and Professor Urey will be chairmen of the sessions on physical chemistry, while Professor G. Frederick Smith, of the University of Illinois, will preside at the sessions on inorganic and analytical chemistry.

A symposium on Vulcanization in addition to a special celebration of the centenary of the discovery of the vulcanization of rubber by Charles Goodyear will be sponsored by the Rubber Division. Numerous general papers on rubber chemistry are also scheduled.

RECENT DEATHS AND MEMORIALS

DR. WENDELL CLAY MANSFIELD, geologist of the U. S. Geological Survey, died suddenly on July 24 at the age of sixty-five years. His principal line of research was the late-Tertiary mollusks of the southeastern states, particularly of Florida.

DR. BURTIS BURR BREESE, who retired two years ago as head of the department of psychology at the University of Cincinnati with the title of professor emeritus, died on July 31 at the age of seventy-two years.

JOHN RITCHIE, of Malden, Mass., died on July 22 at the age of eighty-eight years. Mr. Ritchie was interested in astronomy and for many years was in charge of the collection and distribution of astronomical news from the Harvard Observatory. He also was active in conchology and in other scientific subjects.

JOHN HARVEY LOVELL, known for his work with bees, biological editor of "Cyclopedia of Bee Culture" died on August 2 at the age of seventy-eight years.

PROFESSOR ARCHIBALD YOUNG, Regius professor of

surgery in the University of Glasgow, died on July 23 at the age of sixty-five years.

THE Agricultural Experiment Station at New Haven, Conn., will include brief addresses in memory of the late station botanist, Dr. G. P. Clinton, and the state entomologist, Dr. W. E. Britton, in the Field Day exercises to be held at the station farm at Mount Carmel on August 16. Dr. Clinton died two years ago after thirty-five years of state service, and Dr. Britton, who had served the state since 1893, died last February. Immediately after luncheon Director W. L. Slate, of the station, will open a short program which will include an address by Dr. Henry G. Knight, chief of the Bureau of Chem-

istry and Soils, Washington, D. C. Mr. David Clarke, of Milford, will say a few words about the work of the late Dr. Clinton, and Mr. Fred S. Baker, of Cheshire, will speak about Dr. Britton. Later the new state entomologist, Dr. Roger B. Friend, and the station botanist, Dr. J. G. Horsfall, appointed early this summer, will be introduced.

To mark the two hundredth anniversary of the founding of the Swedish Royal Academy of Science, the Swedish Post Office issued a set of commemorative stamps on June 2. The designs are: 15 öre brown and 50 öre grey, with a portrait of the naturalist Linnaeus; 10 öre violet and 30 öre blue, with a portrait of the chemist Berzelius.

SCIENTIFIC NOTES AND NEWS

DR. W. L. BRAGG, Cavendish professor of experimental physics in the University of Cambridge, has been elected a corresponding member in the section of mineralogy of the Paris Academy of Sciences.

THE Royal Academy of Sciences at Rome has awarded the Cannizzaro prize for chemistry to Professor Otto Hahn, of the University of Berlin.

THE gold medal of the Society of the Medical and Natural Sciences at Jena has been awarded to Dr. Werner Heisenberg, professor of theoretical physics at the University of Leipzig.

MEDALS of the Royal Scottish Geographical Society for 1939 have been awarded as follows: the Livingstone Gold Medal to the Right Hon. Lord Hailey, for his direction of the African Research Survey under the auspices of the Royal Institute of International Affairs; the Mungo Park Medal to Dr. E. B. Worthington, for his share in the work of the African Research Survey; the Research Medal to Dr. Herbert John Fleure, professor of geography and anthropology in the University of Manchester, "for his many original contributions to geography and anthropology and his furtherance of these sciences in the British Isles."

Nature states that the Royal African Society has awarded a silver medal to the late C. F. Massy Swynnerton, formerly director of tsetse research in Tanganyika Territory.

DAVID G. THOMPSON, senior geologist, and Albert G. Fiedler, senior engineer, of the U. S. Geological Survey, were awarded at the annual convention of the American Water Works Association at Atlantic City the John M. Goodell Prize for their paper entitled "Some Problems Relating to Legal Control of Use of Ground Water." This prize was established by *The Engineering News Record* as a memorial to John M. Goodell, one-time editor of the journal and a former

editor of the *Journal* of the American Water Works Association. It is awarded annually for "a notable contribution to the science or practice of water works development."

ESTELLE LACASE, a member of the Junior Academy of Science of New Orleans, has been awarded a prize consisting of a subscription to *SCIENCE* for one year in a recent contest based upon a written review of the contents of Volume 88 of *SCIENCE*.

DR. HOWARD I. YOUNG, president of the American Zinc, Lead and Smelting Company and of the American Mining Congress, was awarded the honorary degree of doctor of engineering at the commencement exercises of the School of Mines and Metallurgy of the University of Missouri.

ON commemoration day at the University of Glasgow the doctorate of laws was conferred on Sir Andrew Rae Duncan, chairman of the executive committee of the British Iron and Steel Federation; W. J. Goudie, emeritus professor of the theory and practice of heat engines, University of Glasgow; I. M. Heilbron, professor of organic chemistry, University of London; H. J. Paton, White's professor of moral philosophy, University of Oxford; F. J. M. Stratton, professor of astrophysics, University of Cambridge, and G. G. Turner, professor of surgery, University of London.

DR. GUSTAVUS AUGUSTUS EISEN, from 1893 to 1900 curator of the California Academy of Sciences, later for five years connected with the U. S. Department of Agriculture, known for his work in biology, anthropology and archeology, celebrated his ninety-second birthday on August 2.

DR. CLYDE E. KEELER, instructor in the Bussey Institution of Harvard University, has been elected a fellow of the Wistar Institute of Anatomy and Biology, Philadelphia.