

SCIENTIFIC EVENTS

THE ADVISORY BOARD ON SANITARY AND PUBLIC HEALTH ENGINEERING

MEMBERS of the National Technological Civil Protection Committee, appointed by the Secretary of War in January, 1941, have agreed to act also as an Advisory Board on Sanitary and Public Health Engineering to the Medical Division of the Office of Civilian Defense. The committee, which represents the major engineering and related societies, includes:

Walter D. Binger, New York, American Society of Civil Engineers, *chairman*.

W. H. Carrier, Syracuse, N. Y., American Society of Heating and Ventilating Engineers.

Frederick G. Frost, New York, American Institute of Architects.

E. M. Hastings, Richmond, Virginia, American Railway Engineering Association.

Harry E. Jordan, New York, American Water Works Association.

W. Cullen Morris, New York, American Gas Association.

John C. Parker, New York, American Institute of Electrical Engineers.

Arthur B. Ray, New York, American Institute of Chemical Engineers.

Scott Turner, New York, American Institute of Mining and Metallurgical Engineers.

James L. Walsh, New York, American Society of Mechanical Engineers.

Abel Wolman, Baltimore, American Public Health Association.

The Office of Civilian Defense will have a contact member on this committee, as does the War Department. Ralph E. Tarbett, senior sanitary engineer, U. S. Public Health Service, who has been assigned as chief sanitary engineer of the Medical Division of the Office of Civilian Defense with headquarters in the Washington office, will be the contact member.

Regional sanitary engineers are being appointed by the Medical Division of the Office of Civilian Defense to work through state defense councils with state health departments in planning defense against belligerent action. Most important of their immediate duties will be to promote development of protective measures for public water supplies, which may be subject to destructive enemy action. The engineers will also consult with health authorities on such matters as emergency maintenance of sewerage, sanitary facilities, garbage disposal, protection of food and milk supplies in the event of a disaster.

Two regional sanitary engineers are already on duty. Gordon E. McCallum, sanitary engineer, U. S. Public Health Service, has been commissioned in the

Public Health Service Reserve and assigned to the Third Civilian Defense Region (Pennsylvania, Maryland, District of Columbia and Virginia) plus West Virginia and Ohio. Mr. McCallum is stationed in Washington. John H. Brewster, at various times sanitary engineer for the American Waterworks and Electric Company and for the New York and Indiana state health departments and recently a private consultant in Troy, New York, has also been appointed a sanitary engineer in the Reserve of the Public Health Service and assigned to the First and Second Regions (New York, New Jersey, Delaware and the New England states).

RESEARCH GRANTS OF THE VIRGINIA ACADEMY OF SCIENCE

DR. FRANK A. GELDARD, professor of psychology at the University of Virginia and chairman of the Virginia Academy of Science Research Committee, has announced that the following scientific workers in the state have been awarded research grants to aid them in their investigative work. The recipients are:

Margaret Altmann, of Hampton Institute, for a study of basal temperature curves of ten Negro women students during the sex cycle; Aaron Appleby, of the Virginia Polytechnic Institute, for his work in trying to find a calcium compound better suited than calcium gluconate for administering calcium ions to animals; Thomas A. S. Hayes, of the Virginia Polytechnic Institute, for a survey of the prevalence and importance of the large-mouth bowel worm in sheep in Virginia; H. W. Jackson, of the Virginia Polytechnic Institute, for the construction of an improved electrical machine for temporarily stunning fish, the determination of the exact composition of the fish population of a given area being often an important guide in the management of a pond; A. Margerite Risley, of Randolph-Macon Woman's College, to help her in an investigation in astronomy; Robert W. Root, C. Lane Sarter, N. C. Steenland, Robert O. Wilbur and H. H. Woods, senior students at Washington and Lee University, for a detailed study of the geology of the area immediately around Lexington; Frances A. Schofield, of Randolph-Macon Woman's College, to complete a study having to do with biochemistry, and J. C. Strickland, of the University of Virginia, to help him to complete a collection of the blue-green algae of the state.

Members of the Academy Research Committee besides Dr. Geldard are Dr. F. C. Vilbrandt, of the Virginia Polytechnic Institute, and Dr. Gillie Larew, of Randolph-Macon Woman's College. Dr. Ivey F. Lewis, of the University of Virginia; Dr. Rolland J. Main, of the Medical College of Virginia, with the officers of the academy; Dr. George W. Jeffers, of Farmville State Teachers College; Dr. E. C. L. Miller

and Dr. Sidney S. Negus, of the Medical College of Virginia, are *ex-officio* members.

Dean Earle B. Norris, of the Virginia Polytechnic Institute, has been invited by the committee of the academy to make a study on its behalf of research needs and research facilities in Virginia with special reference to cooperation between science and industry.

THE AMERICAN CHEMICAL SOCIETY

DR. PER K. FROLICH, director of the Chemical Division of the Esso Laboratories of the Standard Oil Development Company at Elizabeth, N. J., known for his work in the development of synthetic rubber, has been elected president of the American Chemical Society for 1943.

Dr. Frolich will take office as president-elect on January 1, when Dr. Harry N. Holmes, head of the department of chemistry at Oberlin College, becomes president, succeeding Professor William Lloyd Evans, head of the department of chemistry at the Ohio State University.

The election was made by the council from the four nominees receiving the largest number of votes in a mail ballot of the 29,000 members. The council includes national officers, directors, editors of the publications of the society, chairmen of eighteen professional divisions, councilors from the ninety-four local sections and councilors-at-large.

Professor Arthur J. Hill, of Yale University, and Dr. E. R. Weidlein, director of the Mellon Institute of Industrial Research, Pittsburgh, were chosen directors. Dr. Charles Allen Thomas, director of the Thomas and Hochwalt Laboratories, Dayton, Ohio, research division of the Monsanto Chemical Company, was named director-at-large.

New councilors-at-large are Dr. George D. Beal, assistant director of the Mellon Institute of Industrial Research; Dr. Gustav Egloff, director of research of Universal Oil Products Company, Chicago, Ill.; Professor Henry Gilman, of Iowa State College, and Professor Carl S. Marvel, of the University of Illinois.

The official statement reads:

In addition to his contributions to the development of synthetic rubber, Dr. Frolich is best known for his work on transformation and chemical utilization of hydrocarbons, high-pressure gas reactions, catalysis and applied colloid chemistry.

At the one hundredth national meeting of the American Chemical Society in Detroit on September 9, 1940, Dr. Frolich and his research associates presented the first technical report on the discovery of butyl rubber, made from petroleum. The new process climaxed ten years of cooperative efforts by the Standard Oil research, development and management units carried on entirely independently of any other synthetic rubber development either in this country or abroad.

Dr. Frolich was born in Christiansand, Norway, in 1899,

and was graduated from the Norwegian Institute of Technology in 1921. He received the degree of master of science from the Massachusetts Institute of Technology in 1923, and the degree of doctor of science from the same institution in 1925.

Dr. Frolich was assistant chemist at the Norway Institute of Technology from 1919 to 1921, instructor at Christiansand Business College from 1921 to 1922, and American-Scandinavian Foundation Fellow at the Massachusetts Institute of Technology during 1922-1923. Dr. Frolich served as assistant in the Massachusetts Institute of Technology Research Laboratory of Applied Chemistry from 1925 to 1927. He became assistant director of the laboratory in 1927 and was advanced to associate professor in 1929, the year he joined the staff of the Standard Oil Development Company.

Dr. Frolich is the author of many technical papers and has been granted numerous patents. He has long been active in the American Chemical Society, serving as chairman of the Division of Petroleum Chemistry, chairman of the North Jersey Section, councilor-at-large, and associate editor of *Chemical Reviews*. He was awarded the Grasselli Medal in 1930 for outstanding achievement in chemistry, particularly in the field of high pressure reaction of gases.

THE MEETING OF MATHEMATICIANS AT LEHIGH UNIVERSITY

THE forty-eighth annual meeting of the American Mathematical Society will be held at Lehigh University, Bethlehem, Pa., from Monday to Wednesday, December 29-31, in conjunction with meetings of the Mathematical Association of America, the Association for Symbolic Logic and the National Council of Teachers of Mathematics.

The sessions of the society, all of which will be held in the Packard Laboratory, will begin on Monday at 2 P.M. and continue through Wednesday afternoon. The sessions of the Mathematical Association will be held on Thursday morning and afternoon. On Wednesday afternoon, the Association for Symbolic Logic will hold meetings, one of which will be a joint session with a section of the society. The National Council will meet on Wednesday and Thursday.

The board of trustees will meet at 6 P.M., on Monday, and the council at 8 P.M., on Tuesday.

A symposium on applied mathematics will be held on Tuesday afternoon. The program will consist of two addresses, "The Mathematical Theory of Traveling Waves," by Professor L. V. Bewley, and "Some New Methods of Solution of Two-Dimensional Problems in Elasticity" by Professor I. S. Sokolnikoff, and discussions by Professors Alan Hazeltine, Ernst Weber, D. L. Holl and J. L. Synge.

On Tuesday, at 4 P.M., tea for visiting mathematicians and guests will be served in Drown Hall by the ladies of the Department of Mathematics of Lehigh University.