

ences, will present the results of his excavations on Frontenac Island, Cayuga Lake, during the summers of 1939 and 1940.

Professor David Goddard, professor of botany at the University of Rochester, is chairman of the Research Section. Other members of the executive committee include Professor Bishop, Professor Floyd C. Fairbanks, professor of astronomy at the university and president of the academy, Dr. Dean L. Gamble and Dr. R. L. Roudabush, both of Ward's Natural Science Establishment, and W. S. Cornwell, recorder.

CONFERENCE OF RADIO ENGINEERS AT THE OHIO STATE UNIVERSITY

THE fourth annual Broadcast Engineering Conference, directed by Dr. W. L. Everitt, of the Ohio State University, which lasted for ten days opened on February 10 for the discussion of new developments in the field of color television, ultra-high frequency transmission, etc.

During the first week speakers reported on technical improvements of speech input systems, studio acoustics, polyphase broadcasting, receivers, loud speakers, sound reproduction from recording and the status of television. Dr. Peter C. Goldmark, head of research in television of the Columbia Broadcasting System, discussed his work on color television, and E. K. Jett, chief engineer of the Federal Communications Commission, spoke at a dinner session on "Communications in National Defense." A. D. Ring, assistant chief engineer in charge of broadcasting for the Federal Communications Commission, led a general question period during the first week's program, which was sponsored jointly by the department of electrical engineering of the university and the National Association of Broadcasters.

Sessions held during the second week's program, which opened on February 17, considered the status of frequency modulation, its operating problems and technical aspects. Lectures were given on ultra-high frequency broadcasting. Homer Dudley, of the Bell Telephone Company, specialist in design and construction of speech analyzing and synthesizing circuits, spoke on "The Vocoder or Remaking Speech Electrically" on the evening of February 18.

A new feature of this year's conference was the addition of laboratory experiments on new equipment and techniques in broadcasting station measurements. Each member had an opportunity to make broadcast station measurements. The laboratory periods were held in the evening in several sections, so that all attending could make tests in which they are particularly interested. The scope of the conference was broadened this year to include topics of interest to the engineers working with airway and police communications, general receiver and laboratory development.

SYMPOSIA AT THE ST. LOUIS MEETING OF THE AMERICAN CHEMICAL SOCIETY

SCIENTIFIC problems involved in national defense, including the production of synthetic rubber and other materials and the fortifying of food with minerals and vitamins, will be discussed at the one hundred and first national meeting of the American Chemical Society, which will be held in St. Louis from April 7 to 11. An attendance of 3,500 is expected.

Dr. Charles L. Parsons, Washington, D. C., is the national secretary of the meeting. Dr. LeRoy McMaster, Eliot professor of chemistry and head of the department at Washington University, has been named honorary chairman. H. Edmund Wiedemann, consulting industrial chemist and past national president of the Food and Drug Officials Association, has been appointed general chairman.

Fourteen symposia, representing virtually every field of chemistry, in addition to technical papers to be presented before seventeen of the eighteen professional divisions, are planned. Several addresses by well-known scientific men will be delivered at a general session on Monday, April 7, in the St. Louis Municipal Auditorium. Dr. William Lloyd Evans, of the Ohio State University, president of the society, will preside.

"Fortifications of Foods with Minerals and Vitamins" is the subject of a group of papers to be presented in the Division of Agricultural and Food Chemistry, of which Gerald A. Fitzgerald, of the General Foods Corporation, New York City, is chairman. Another session of the division will be devoted to "Fats." The Biological Division, of which Dr. Herbert O. Calvery, of the U. S. Food and Drug Administration, is chairman, will hold its semi-annual symposium on "Vitamins."

"Some Current Projects in Medicinal Chemistry," "New Engineering Technique," "New Developments in the Processing of Rubber" and "Phenol-Formaldehyde Resins and Plastics" are other divisional symposia which will bring the emphasis of science to bear upon questions related to national defense.

The Division of Petroleum Chemistry, which is celebrating the twentieth anniversary of its founding, will discuss "Analytical Methods Used in the Petroleum Industry."

"Smokeless Fuels and Air-Pollution Abatement" will be the subject of a session of the Division of Gas and Fuel Chemistry. Other symposia will deal with the nomenclature of inorganic chemistry; thermodynamics of electrolytic dissociation; contemporary work in the monosaccharide field of sugar chemistry; the last two years of college chemistry, and a student symposium in chemical education.

Divisional papers will also be presented in the fields

of analytical and microchemistry, cellulose, colloid, industrial and engineering, medicinal, organic, paint, varnish and plastics, physical and inorganic, and water, sewage and sanitation chemistry and in the history of chemistry.

The chemists will hold a banquet on April 9 at the Hotel Jefferson, which has been designated as headquarters for the meeting. Divisional sessions will take place in the Municipal Auditorium, where registration will open on Sunday afternoon, April 6. The council, composed of representatives of the ninety-three local sections throughout the country as well as of the national officers, directors, editors of publications, past presidents and divisional chairmen, will convene on Monday morning. An elaborate social program is planned and numerous trips of inspection will be made to the industries of the St. Louis area.

SYMPOSIUM AT UNION COLLEGE

A SYMPOSIUM devoted to the general subject "Science Views Man" in which some of the leading scientific men of the country will take part and to which members of colleges, universities and industrial research laboratories in the New England and Middle Eastern Atlantic States have been invited, will take place at Union College on March 21 and 22. Dr. Edward Ellery, professor emeritus of chemistry and national president of the Society of the Sigma Xi, states that the object of the symposium is "to present man as science views him, in contra-distinction to the moral and religious point of view."

Dr. A. J. Carlson, Hixon professor of physiology at the University of Chicago; Dr. Bronislaw Malinowski, professor of anthropology at Yale University; Dr. Willis R. Whitney, organizer of the Research Laboratory of the General Electric Company and now vice-president in charge of research; Dr. Kirtley F. Mather, professor of geology at Harvard University, and Dr. Harlow Shapley, Paine professor of astronomy and director of the Harvard Astronomical Observatory, will be among the speakers.

According to the official announcement "they will trace the impact of several sciences upon man's present apprehension of himself and his powers, rather than the ways in which science has merely implemented man." A number of well-known scientific men have been invited to discuss these addresses, and it is expected that about two hundred and fifty registered members of the conference will take part.

The general public will be invited to attend and hear the program, part of which will be broadcast. The symposium is being preceded by six radio colloquies, by members of the faculty of Union College, one each Saturday afternoon. These include a round table discussion held by the department of mathematics on February 8, and by the department of physics on

February 15. On succeeding Saturdays round table discussions will be conducted in chemistry, geology, psychology and biology.

NOMINATIONS OF OFFICERS OF THE AMERICAN INSTITUTE OF ELECTRIC- TRICAL ENGINEERS

THE National Nominating Committee of the American Institute of Electrical Engineers, consisting of members from various parts of the country, has nominated the following candidates for the offices becoming vacant August 1. These official candidates, together with any independent nominees that may be proposed later in the manner specified by the Constitution and By-laws, will be voted upon by the membership at the coming election this spring.

For President: DAVID C. PRINCE, manager, Commercial Engineering Department, General Electric Company, Schenectady.

For Vice-Presidents: (Middle Eastern District) N. S. HIBSHMAN, associate professor of electrical engineering, Lehigh University.

(Southern District) J. ELMER HOUSLEY, superintendent of power, Aluminum Company of America, Alcoa, Tenn.

(North Central District) ARTHUR L. JONES, commercial vice-president and district manager, General Electric Company, Denver.

(Pacific District) WALTER C. SMITH, engineer of Pacific District, General Electric Company, San Francisco.

(Canada District) C. A. PRICE, chief engineer, Canadian Westinghouse Company, Ltd., Hamilton, Ontario, Canada.

For Directors: LESTER R. GAMBLE, electrical engineer, Washington Water Power Company, Spokane; T. G. LECLAIR, supervising development engineer, Commonwealth Edison Company, Chicago; FRED R. MAXWELL, JR., professor of electrical engineering, University of Alabama.

For National Treasurer: W. I. SLICHTER, professor and head of Department of Electrical Engineering, Columbia University.

APPOINTMENT OF DR. JAMES BRYANT CONANT AS HEAD OF SCIENTIFIC MISSION

DR. JAMES BRYANT CONANT, president of Harvard University, formerly Sheldon Emory professor of organic chemistry, has been appointed by President Roosevelt head of a mission charged with reporting directly to Washington "recent scientific information of importance to national defense." Dr. Conant sailed on February 15 for Lisbon on the American Export liner *Excalibur*. He was accompanied by Frederick L. Hovde, since 1936 assistant to the president of the University of Rochester, previously assistant professor of chemistry at the University of Minnesota, and by Carroll L. Wilson, special liaison officer of the National Defense Research Committee, previously assistant to Dr. Karl T. Compton, president of the Mas-