

summer in the so-called "dinosaur bowl," near Rock Springs, Wyo., and in the coal mines of Colorado.

Dr. Horace W. Stunkard, professor of zoology at New York University, the retiring president, delivered an address entitled "Parasitism and Evolution as Illustrated by Some of the Lower Forms of Life."

The A. Cressy Morrison Prizes of \$200 each were awarded to Robert H. Denison for a paper on paleontology and to Raymond L. Zwemer and F. H. Pike for their paper on the effect of nerve excitation on potassium in body fluids.

Announcement was made that two prizes of \$200 would be awarded by Mr. Morrison in 1938 for the best papers in a field of natural science, and that there would be an additional prize of \$500 for the best paper on scientific developments relating to the source of the sun's energy.

Officers elected in addition to Mr. Morrison are: Ida H. Ogilvie, Herbert Johnson, Irving Lorge, Harry L. Shapiro, *vice-presidents*; Wylls R. Betts, Jr., *treasurer*; Frederick H. Pough, *recording secretary*; Dr. Stunkard, *corresponding secretary*; G. Kingsley Noble, *librarian*; John H. Barnhart, *editor*; Dr. Brown and A. T. Poffenberger, *councilors*, and Herbert F. Schwarz, John D. Sherman, Jr., and Wayne M. Faunce, *members of the finance committee*.

SYMPOSIA OF THE AMERICAN CHEMICAL SOCIETY

A THREE-DAY symposium on the "less familiar chemical elements" sponsored by the Division of Physical and Inorganic Chemistry of the American Chemical Society, will be held at Cleveland, beginning on December 27. Professor Harold S. Booth, of Western Reserve University, is chairman of the division.

There are thirty-one papers on the program covering technological, scientific and economic developments concerning the rarer elements, including beryllium, tungsten, molybdenum, tantalum, columbium, indium, lithium, rubidium, gallium, cesium, selenium, germanium, rhenium and osmium.

M. J. Rentschler, general manager of the J. H. R. Products Company, Willoughby, Ohio, will be the chief speaker at a banquet on the evening of December 28, at the Hotel Statler, headquarters of the meeting. His subject will be "One of the More Familiar of the Less Familiar Elements." In addition to the papers to be read before the technical sessions there will be a symposium at 8 A.M. on Monday, December 27, at which Dr. J. Papish, of Cornell University, will discuss the non-terrestrial occurrence of the less familiar elements, and B. F. Scribner of the National Bureau of Standards will point out their occurrence in everyday materials; H. C. Meyer, president of the Foote Mineral Company, Philadelphia, will outline their economics, and Dr. E. G. Zies, of the Geophysical Lab-

oratory, Washington, D. C., will describe their concentration through igneous and related activity.

An industrial trip to the General Electric Company Wireworks is scheduled for Tuesday afternoon, December 28. The manufacture of tungsten and molybdenum wire from ore, and the separation and purification of argon will be demonstrated. Tours will be made on Thursday morning through the inorganic chemistry division of the Morley Chemical Laboratory of Western Reserve University, where the manipulation of fluoride gases will be illustrated; the research laboratories and color department of the Harshaw Chemical Company; and the laboratories of the Ferro Enamel Corporation. An exhibition will be arranged at the Hotel Statler.

At the seventh national organic chemistry symposium of the society to be held in Richmond from December 28 to 30, leading organic chemists will report progress in research dealing with vitamins, proteins and carbohydrates, synthetic drugs, refrigerants and the structure of other carbon compounds. Seventeen colleges and universities and three research laboratories will be represented by the addresses given.

Dean Frank C. Whitmore, of the Pennsylvania State College, who will take office as president of the society on January 1, will be one of the opening speakers on Tuesday morning, December 28. Professor I. A. Updike, of Randolph-Macon College, will give the address of welcome. Dr. Robert R. Williams, chemical director of the Bell Telephone Laboratories, will discuss the chemistry of thiamin, or vitamin B, the "beriberi vitamin," the structure of which he discovered after twenty-five years of effort. Professor Roger Adams, of the University of Illinois, past president of the society, will be present at the meeting and will read a paper describing the structure of gossypol, the toxic principle of cottonseed, at the Tuesday afternoon session.

Six reports on microchemistry will be presented on Tuesday evening. These have been arranged by Professor Alsoph H. Corwin, of the Johns Hopkins University; Dr. Lyman C. Craig, of the Rockefeller Institute for Medical Research, and Dr. Walter R. Kirner, of the Carnegie Institute of Technology, chairman of the Microchemical Section.

Dr. Max Bergmann, of the Rockefeller Foundation, will be the chief speaker at a dinner meeting on Wednesday. His subject will be "Protein Structure in Relation to Biological Problems."

OFFICERS OF THE AMERICAN CHEMICAL SOCIETY

DR. CHARLES A. KRAUS, professor of chemistry and director of chemical research at Brown University,

has been elected president of the American Chemical Society for 1939.

Dr. Kraus will take office as president-elect on January 1, 1938, at which time Dean Frank C. Whitmore, of the Pennsylvania State College, becomes president of the society, succeeding Dr. E. R. Weidlein, director of the Mellon Institute of Industrial Research, Pittsburgh. Dean Whitmore has been president-elect during the past year. The new president-elect was chosen by the council from four nominees receiving the largest number of votes in a national poll by mail of the members. Three directors and four councilors were also elected by mail ballot. They are:

Directors

Dr. Erle M. Billings, of the Eastman Kodak Company, Rochester, N. Y., reelected from the second district, comprising New York and New Jersey.

Professor Hobart H. Willard, of the University of Mich-

igan, reelected from the fifth district, comprising Illinois, Indiana, Michigan and Wisconsin.

Dr. Gustavus J. Esselen, president of Gustavus J. Esselen, Inc., Boston, Mass., reelected director at large.

Councilors at Large

Dr. William Mansfield Clark, De Lamar Professor of Physiological Chemistry in the Johns Hopkins School of Medicine and holder of the Nichols Medal for his achievements in the fields of oxidation and reduction equilibria, hydrogen-ion concentration and indicators.

Dr. Arno C. Fieldner, chief engineer of the Experiment Stations Division of the United States Bureau of Mines, Washington, D. C., authority on fuels and designer of the ventilating system of the Holland Vehicular Tunnel under the Hudson River.

Professor B. Smith Hopkins, of the University of Illinois, discoverer of illinium, an element of the rare earths group.

Dr. Albert S. Richardson, director of chemical research of Procter and Gamble Company, Cincinnati, and outstanding scientist of the detergent industry.

SCIENTIFIC NOTES AND NEWS

AN authorized life of Lord Rutherford of Nelson is being prepared by Professor A. S. Eve. He requests that those having letters written by Lord Rutherford that might be of use forward them to him at 26 Willow Road, Hampstead, N.W.3.

THE Nobel prizes in physics, chemistry, physiology and medicine and literature were presented at a ceremony held at Stockholm on November 11 by King Gustav of Sweden. Brief addresses were given by Swedish scientific men describing the work of the recipients. All those who had been awarded prizes were present, with the exception of Professor G. P. Thomson, who was kept away by illness.

DR. GANO DUNN, president of the J. G. White Engineering Corporation of New York for twenty-four years, has been awarded the Thomas A. Edison Medal of the American Institute of Electrical Engineers for 1937. The award is made "for distinguished contributions in extending the science and art of electrical engineering, in the development of great engineering works and for inspiring leadership in the profession." The presentation ceremony will be held on January 26 in connection with the annual four-day winter convention of the institute in the Engineering Societies Building, New York City.

THE Institute of Aeronautical Sciences, New York City, observed on December 17 the thirty-fourth anniversary of the first airplane flight by Orville and Wilbur Wright at Kitty Hawk, N. C. Mr. Orville Wright was present at a meeting at Columbia University when the first annual "Wright Brothers Lecture" was given by Professor B. Melvill Jones, of the Uni-

versity of Cambridge. Mr. Wright also attended an "Honors Night" program at the Hotel Biltmore. The Army Aviation Corps observed the anniversary of the first flight when thirty-one planes took off from Mitchel Field as a tribute. The honorary fellowship of the institute was awarded to Dr. Hugo Eckener at a dinner in the Hotel Biltmore. Commander Charles E. Rosendahl accepted the award for Dr. Eckener.

EASTMAN N. JACOBS, aeronautical engineer of the National Advisory Committee for Aeronautics, has received from the Institute of Aeronautical Sciences the Sylvanus Albert Reed award for his work in improving the efficiency of airplane wing sections. The award includes a certificate and a prize of \$250.

A GOLD Congressional Medal was presented by President Roosevelt on December 16 to Lieutenant Commander Lincoln Ellsworth in recognition of his Antarctic flight in 1935, during which he claimed 350,000 square miles of territory on behalf of the United States.

A SURPRISE tea in honor of the twenty-fifth anniversary of Dr. T. Wingate Todd as professor of anatomy at the Medical School of Western Reserve University, was given on the afternoon of December 15 by the staff of the laboratory of anatomy. Five hundred leading citizens of Cleveland were present. Before the tea he was presented with etchings and books. Dr. J. E. Hallisy, senior clinical instructor in surgery and anatomy, one of Dr. Todd's earliest students, made the presentation.

EDWARD A. JOHNSTON, vice-president in charge of