

## SCIENTIFIC NOTES AND NEWS

At the fourth annual dinner of the Academy of Tropical Medicine in New Orleans on December 3 the first award of the Theobald Smith Medal will be made to Colonel Charles F. Craig, New Orleans, past president of the academy. Dr. Marshall A. Barber, of the staff of the International Health Division of the Rockefeller Foundation, New York, will make the presentation.

DR. GEORGE B. BARBOUR, associate professor of geology in the Graduate School of Arts and Sciences of the University of Cincinnati, has received the Gill memorial award of the Royal Geographical Society of England, in recognition of his work on the geology and geography of China.

THE Anthony F. Lucas Gold Medal of the American Institute of Mining and Metallurgical Engineers has been awarded to Henry L. Doherty, president of the Cities Service Company, for "distinguished achievement in improving the practice of finding and producing petroleum."

DR. RICHARD GOLDSCHMIDT, professor of zoology at the University of California, has been elected a foreign member of the Royal Society of Uppsala.

PROFESSOR AUSTREGESILLO, of Rio de Janeiro, and Dr. Le Sage, of Montreal, have been elected foreign corresponding members of the Paris Academy of Medicine.

At the recent meeting in Washington of the Association of Land Grant Colleges and Universities, a special program was arranged in honor of Dr. Charles S. Plumb, emeritus professor of animal husbandry at the Ohio State University, in recognition of his thirty-five years of service to agriculture in the United States.

PORTRAITS of Sir Albert Seward and Dr. F. F. Blackman have been presented by British botanists and friends to the School of Botany at the University of Cambridge.

DANIEL C. JACKLING, president of the Utah Copper Company, has been elected president of the American Institute of Mining and Metallurgical Engineers. Paul D. Merica, vice-president of the International Nickel Company, and Wilfred Sykes, assistant to the president of the Inland Steel Company, have been elected vice-presidents.

At the anniversary meeting of the British Mineralogical Society held on November 4, the following officers were elected: *President*, Dr. L. J. Spencer; *Vice-presidents*, Professor P. G. H. Boswell and Professor C. E. Tilley; *Treasurer*, F. N. Ashcroft; *General Secretary*, Lieut.-Colonel W. Campbell Smith;

*Foreign Secretary*, Professor A. Hutchinson; *Editor of the Journal*, Dr. L. J. Spencer.

PROFESSOR HERBERT FREUNDLICH, formerly vice-director of the Kaiser-Wilhelm Institut für physikalische Chemie and professor of colloid chemistry in the University of Berlin, more recently associated with Professor Donnan in the laboratories of physical chemistry at the University College, London, has been appointed professor of colloid chemistry in the Graduate School of the University of Minnesota, effective on January 1. Graduate students working in any department of pure or applied science at the University of Minnesota may select Professor Freundlich as their graduate adviser and work under his direction, receiving their degrees as though they were registered in the department of their choice.

DR. LOUIS H. CLERF, formerly professor of bronchoscopy and esophagoscopy in the Jefferson Medical College, Philadelphia, was recently appointed professor of laryngology and bronchoscopy. He takes over the work of Dr. Fielding O. Lewis, who has been made emeritus professor of laryngology and consulting laryngologist to the Jefferson Hospital.

PROMOTIONS at Vanderbilt University are announced as follows: Dr. Sam L. Clark, professor of anatomy; Dr. Alfred Blalock, professor of surgery; Dr. Frank H. Luton, associate professor of psychiatry; Dr. Charles M. Hamilton, assistant professor of clinical dermatology.

At a recent meeting of the senate of the University of London, the title of professor of geology (oil technology) in the university was conferred on V. C. Illing, in respect of the post held by him at the Imperial College, Royal School of Mines. The title of reader in physiology in the university was conferred on Dr. W. H. Newton, in respect of the post held by him at University College.

THE RIGHT HONORABLE LORD RIVERDALE has been appointed chairman of the Advisory Council to the Committee of the Privy Council for Scientific and Industrial Research in succession to the late the Right Honorable Lord Rutherford of Nelson. Sir William H. Bragg has been appointed a member of the Advisory Council.

DR. JAMES ROWLAND ANGELL, educational counsel for the National Broadcasting Company, returned to New York on November 25 after making a survey of educational broadcasts in England, Scotland, Denmark, Sweden and Norway.

DR. H. J. MULLER has leave of absence during the academic year from the Institute of Genetics at Mos-

cow, and is spending the year as guest of the Institute of Animal Genetics at the University of Edinburgh.

DR. E. BRUCE LEVY, chief agrostologist of the Department of Agriculture of New Zealand, is visiting the United States.

DR. EDGAR MAYER, assistant professor of clinical medicine; Dr. Morton C. Kahn, associate professor of public health and preventive medicine, and Dr. Wilson G. Smillie, professor of public health and preventive medicine, all of Cornell University Medical College, have been retained by the Cuban government to supervise an anti-tuberculosis campaign in the island. Dr. Mayer and Dr. Kahn returned recently from a visit to Cuba, during which they supervised the organization of the first of a group of clinics established by the Cuban government. With Dr. Smillie they will make further visits to the island in the spring and later.

DR. VICTOR E. LEVINE, professor of biological chemistry and nutrition at the Creighton University School of Medicine, has established a medical and biological station in the Arctic as a cooperative research project of the United States Public Health Service and Creighton University. Dr. Levine, together with his assistant, Delbert C. Foord, of the University of California, arrived at Point Barrow in August of 1937 and expect to return in August or September of 1938. A well-equipped laboratory has been constructed at Point Barrow containing among other things a General Electric x-ray outfit including fluoroscope, a Sanborn basal metabolism apparatus, a Christian Becker chainomatic analytical balance, shaking machine, sterilizer, autoclave, incubator, still, centrifuge, microscope, Professor Jeans's biophotometer for determining vitamin A deficiency, Professor Farmer's apparatus for estimating blood ascorbic acid, Dr. Dalldorf's capillary fragility apparatus, biological stains, bacteriological media and qualitative and quantitative reagents for blood and urine chemistry.

PROFESSOR A. C. HARDY, of the University College, Hull, England, will be in charge of an extension of the plankton survey in relation to the fisheries of the North Sea, made possible by increased grants from the British Treasury on the recommendation of the Development Commission. W. Macnae, N. B. Marshall and C. B. Rees have been appointed research biologists in the department of zoology and oceanography, and a sub-station of the department, with C. E. Lucas in charge, is being opened at Leith to operate the survey in more northern waters.

At the U. S. Geological Survey, Wallace Lee, who has spent the past three months in the Washington office completing his report on the investigation of the Mississippian rocks of Kansas, conducted in co-

operation with the State Geological Survey, has gone to Kansas, to undertake, also in cooperation with the state, further studies of certain features of the sub-surface geology. C. S. Howard left on October 30 to inspect work being done by the Geological Survey in cooperation with the State of New Mexico on the chemical character of Pecos River water in New Mexico. He will also confer with officials of the Bureau of Reclamation and collect samples from Lake Mead in continuation of studies of stratification of water in the lake.

PROFESSOR F. DEBENHAM, Gonville and Caius College, and J. A. Steers, St. Catherine's College, will represent the University of Cambridge at the International Congress of Geography to be held in Amsterdam next July.

DR. FRANZ BOAS, professor of anthropology emeritus at Columbia University, lectured at the University of Montreal on November 25, 26 and 27 on the civilization and art of the coastal Indians of British Columbia.

DR. W. P. KELLEY, professor of agricultural chemistry at the Citrus Experiment Station of the University of California, is on a speaking tour of the western portion of the United States, at the invitation of the American Chemical Society. He expects to speak at Salt Lake City, Utah; Denver, Colo.; Chicago, Ill.; Bozeman, Mont.; Moscow, Idaho; Pullman, Wash.; and Corvallis, Ore.

DR. ALBERT SZENT-GYÖRGYI, professor of medical chemistry in the Royal Hungarian Franz Joseph's University and director of the Institute for Medical Chemistry, who was recently awarded the Nobel prize in physiology and medicine, has been appointed Abraham Flexner Lecturer at Vanderbilt University for 1938-1939.

THE biennial Huxley Lecture was delivered on November 18 at the Charing Cross Hospital Medical School by Dr. E. D. Adrian, professor of physiology at the University of Cambridge. The lecture was entitled "Huxley, the Brain and the Mind."

DR. HAROLD SCOTT delivered the Fitzpatrick Lectures of the Royal College of Physicians, London, on November 9 and 11. His subject was "Conquest of Disease in the Tropics."

THE International Congress of Geography will be held in Amsterdam from July 18 to 28.

THE fifteenth International Congress of Ophthalmology will be held in the Semiramis Hotel, Cairo, from December 8 to 14.

THE annual dinner and meeting of the New York Academy of Sciences and affiliated societies will be

held at the Hotel Astor on December 15. The retiring president of the academy, Dr. Horace W. Stunkard, professor of zoology at New York University, will make an address on "Parasitism and Evolution," and Barnum Brown, curator of fossil reptiles at the American Museum of Natural History, will speak on "Recent Dinosaur Discoveries by the American Museum-Sinclair Dinosaur Expedition."

THE Society of American Bacteriologists will hold its thirty-ninth general meeting on December 28, 29 and 30, in Washington, D. C., at the Mayflower Hotel, under the presidency of Dr. James M. Sherman, of Cornell University. The program includes groups of papers in the fields of general, medical, agricultural and industrial bacteriology. Symposia have been arranged on the subjects of antigenicity, gonococci, filterable viruses, bacterial metabolism and fermentation. Round-table discussions on the following topics will be held: poliomyelitis, bacteriophagy, coliform bacteria and the history of food bacteriology.

THE American Society of Agricultural Engineers met at Chicago during the last week in November. The subjects discussed included farm power and machinery, farm structures, rural electrification and soil and water conservation.

THE SMITH-REED-RUSSELL SOCIETY of the George Washington University Medical School held its annual banquet on November 27. Dr. Warren T. Vaughan, of Richmond, specialist in internal medicine and allergy, was the principal speaker. Dr. Earl B. McKinley, dean of the medical school, introduced the speaker and other guests. Lawrence Thomas, president of the society, presided. Guests of honor at the banquet included: Dr. Ludvig Hektoen, executive director of the National Cancer Advisory Council; Dr. James F. Mitchell, emeritus professor of clinical surgery at the George Washington University; Dr. F. R. Moulton, permanent secretary of the American Association for the Advancement of Science; Dr. Charles R. Reynolds, surgeon general of the Army; Dr. Percival S. Rossiter, surgeon general of the Navy; Colonel

Joseph F. Siler, director of the Army Medical School; and Captain Harold W. Smith, director of the United States Medical School.

THE United States Civil Service Commission announces an open competitive examination for the position of associate biochemist (syphilis research) in the U. S. Public Health Service at a salary of \$3,200 a year. Applications must be on file with the commission at Washington, D. C., by December 28. The work consists in conducting investigations in antibody chemistry, pollen chemistry, the chemistry of the arsphenamines, or related problems. A vacancy exists in the Syphilis Research Center at the Johns Hopkins Hospital, Baltimore. For the position of junior scientific aid (fossils) in the U. S. National Museum, with a salary of \$1,400 a year, applications should be received by December 13.

A LIMITED number of post-doctorate fellowships in the natural sciences (physics, astronomy, mathematics, chemistry, geology, paleontology, physical geography, botany, zoology, agriculture, forestry, anthropology and psychology) will be available through the National Research Council for the academic year 1938-1939. These fellowships carry stipends from \$1,600 upwards, and are open to citizens of the United States or Canada under the age of thirty-five years, for study in the United States or, under special conditions, in Europe. Applications for appointment to these fellowships should be filed with the secretary of the National Research Fellowships Board in the Natural Sciences, National Research Council, 2101 Constitution Avenue, Washington, D. C., on or before February 1, 1938.

WILLIAM H. DONNER, retired steel manufacturer, who founded the International Cancer Research Foundation in 1932 with a gift of \$2,000,000, has presented to the University of Pennsylvania the sum of \$200,000 to enable the University Hospital to establish a new radiological and x-ray department for the study of malignant diseases. The gift is "contingent upon the university's providing satisfactory quarters in a new building with reasonable room for expansion."

## DISCUSSION

### A BRILLIANT HYPERBOLIC DEW-BOW

ON the morning of October 16, 1937, the writer observed a remarkable optical phenomenon on the surface of Pocono Lake in Pennsylvania, 100 miles north of Philadelphia. The day was cold and clear, temperature about 25° F., with heavy frost on the ground. The lake was uncommonly still and glassy with a strange appearance as if the whole surface were covered with dust. Suspecting that a thin film of ice had formed during the night, the writer examined the

water and found that it was not frozen and that what appeared to be dust was, in all probability, myriad droplets of dew resting on the surface of the lake.

It was astonishing to find, upon turning away from the bright morning sun, a rainbow of unusual shape and brightness *resting on the surface of the water*. The first impression was that the bow was parabolic, but "post-mortem analysis" shows that it must have followed an hyperbolic curve. Evidently it was caused by water droplets lying on a plane section WW' of