

retiring presidential address. The eleventh Josiah Willard Gibbs Lecture will be given by Professor Albert Einstein. The second award of the Cole Prize in Algebra will be made at this meeting. A special feature of the meeting will be a symposium on group theory as applied to quantum mechanics, at a joint session with the American Physical Society on Saturday afternoon.

The joint dinner of the mathematicians is planned for Saturday evening at the Hotel Webster Hall, the price being \$1.50 per plate. Special entertainment is being arranged for Sunday afternoon. In the evening there will be a concert in the Carnegie Music Hall, consisting of organ and symphony orchestra music. Headquarters will be at the Hotel Webster Hall, about half a mile from the Carnegie Institute of Technology and about three miles from the center of the city.

#### MEETING OF SCIENCE TEACHERS WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

At the Science Teachers' Meeting held in Boston in December, 1933, in connection with the meetings of the American Association for the Advancement of Science, it was requested that another full day's program be organized for this year. This program will be presented in the Pittsburgh Athletic Association Building on Saturday, December 29. Invitation to participate is extended to delegates from science teachers' organizations and to individual teachers of science from elementary and high schools, colleges, universities and state administrations. The Pittsburgh Athletic Association, where this meeting will be held, is near the buildings in which occur the other meetings of the

American Association for the Advancement of Science.

The program will be opened by Professor Otis W. Caldwell, chairman of the Committee on the Place of Science in Education of the American Association for the Advancement of Science, who will speak briefly on the purpose of the meeting. The subject of the morning session will be "Newer Knowledge of Interest to Science Teachers," when papers will be presented on "The Influence of Certain Gases upon Plants," by Dr. P. W. Zimmerman, assistant director, Boyce Thompson Institute for Plant Research; on "Research in Sound and Communication," by Dr. Harvey Fletcher, Research Laboratories, Bell Telephone Company, and on the "Present Status of Knowledge of Cosmic Rays," by Professor Robert A. Millikan, Norman Bridge Laboratories, Pasadena, California. Each paper will be followed by a discussion from an invited speaker. In the afternoon a program has been arranged by the special committee appointed at the Boston meeting on "A National Organization of Science Teachers."

At the luncheon Professor Edward L. Thorndike, president of the American Association for the Advancement of Science, will make an address on "The Psychology of Attitudes," after which scientific men who are invited guests will be presented.

Reservations for the luncheon, which will be served at noon at the cost of \$1, should be sent to the local chairman, Dr. John A. Hollinger, Administration Building, Bellefield Avenue at Forbes, Pittsburgh, Pa. The final program, giving the names of the speakers, will be sent on application to the Committee on the Place of Science in Education, 433 West 123rd Street, New York, N. Y.

## SCIENTIFIC NOTES AND NEWS

THE Perkin Medal for 1935 has been awarded by the American section of the Society of Chemical Industry to Dr. George O. Curme, Jr., vice-president of the Carbide and Carbon Chemicals Corporation, for his "distinguished research in the field of organic synthesis which has led to the founding of a new industry."

THE Hanbury memorial gold medal of the Pharmaceutical Society of Great Britain has been awarded to Dr. George Barger, professor of chemistry in relation to medicine at the University of Edinburgh. This medal is for "high excellence in the prosecution or promotion of original research in chemistry and the natural history of drugs."

THE Beal Medal of the American Gas Association was presented at the recent convention at Atlantic City to W. H. Fulweiler, chemical engineer of the United Gas Improvement Company.

PROFESSOR RALPH H. MCKEE, of the department of chemical engineering of Columbia University, has received the Commander's Cross of the Polonia Restituta Order of the Republic of Poland in recognition of his services to the Polish Government.

THE Academy of Physical Medicine at the recent New York meeting conferred the title of fellow of the academy upon Dr. Robert Tait McKenzie, physician and sculptor, professor of physical education at the University of Pennsylvania.

AN informal tea for Professor Gilbert D. Harris was given on October 21 in McGraw Hall by members of the faculty of geology at Cornell University and of the two geological societies, Chi Upsilon and Sigma Gamma Epsilon. A correspondent writes: "Professor Harris, who this fall retires from active teaching, plans to continue the publication of the *Bulletins of American Paleontology* and with the

study of material which he has collected during various geological expeditions made in this country, South America and Europe. Much of this material is at present housed in the recently established Paleontological Research Institution, concerning which Professor Harris spoke briefly. While noting that the institution, with headquarters on Dearborn Place, is quite independent of the university in its organization, Professor Harris emphasized the fact that it is established with the idea of cooperating with the university and of offering its facilities to advanced students, as well as to qualified independent workers who may wish to consult the collection of type specimens and find sympathetic surroundings in which to pursue their own research."

At Princeton University, Associate Professor Elmer G. Butler has been appointed chairman of the department of biology. After the retirement of Professor Edwin G. Conklin last year Professor Butler served as acting chairman of the department. Dr. Edward Sampson, associate professor of geology, will succeed Professor Alexander Hamilton Phillips as head of the department of geology. Dr. Theodore Dunham, Jr., of the Mount Wilson Observatory, has been appointed associate professor of astronomy, and Solomon Bochner has been appointed to an assistant professorship of mathematics.

Dr. HANS RADEMACHER, formerly professor of mathematics at the University of Breslau, has joined the faculty of the University of Pennsylvania for one year under a joint grant from the Emergency Committee in Aid of Displaced German Scholars and the Rockefeller Foundation. Dr. Rademacher served on the faculty at the University of Hamburg before going to Breslau and is known for his research work in the analytic theory of numbers, differential geometry and the theory of functions of a real and complex variable.

ERNEST BASIL VERNEY, Sheldahl reader in pharmacology and lately professor of pharmacology at University College, London, has been elected to a professorial fellowship at Downing College, Cambridge. Frank Goldby, of Caius College, university demonstrator in anatomy, has been elected to a fellowship at Queen's College.

Dr. ERNEST F. FINCH succeeds Professor Graham Simpson in the chair of surgery at the University of Sheffield.

THE Board of Scientific Directors of The Rockefeller Institute for Medical Research announces the following changes in its scientific staff: The promotion of Dr. Walther F. Goebel from associate to associate member and the appointment of Dr. Frank L. Horsfall, Dr. John W. Murray and Dr. Albert B. Sabin as assistants.

*The Museum News* states that Carlos E. Cummings, acting director of the Buffalo Museum of Science since June, 1931, was appointed director at the annual meeting of the board of managers on October 12. He succeeds Charles J. Fish, who has been on leave from the museum for the past three years and who resigned recently to accept a post at the Rhode Island State College at Kingston.

Dr. JOHN W. WILCE has been appointed director of the medical and health service of the Ohio State University. He will hold the rank of professor of medicine in the medical school. Other members of the staff are Drs. Morse F. Osborn, associate professor; James A. Beer, Shirley Armstrong and Charlotte Winnemore, assistant professors, and James M. Foley, instructor.

WILLIAM J. BALDWIN, for eight years connected with the American Radiator Company at Buffalo, has been appointed to an industrial fellowship at the Mellon Institute, the second fellowship provided by the O. Hommel Company for the study of enamel technology.

Dr. T. GILBERT PEARSON, executive head of the National Association of Audubon Societies for the last twenty-four years, has retired and has been elected president emeritus. Kermit Roosevelt has been elected president, and John H. Baker, who until now has been chairman of the board of directors, has been named executive director.

Dr. JOHN H. WYCKOFF, dean of New York University and Bellevue College of Medicine, has been made president-elect of the American Association of Medical Colleges. He will succeed Dr. Ross V. Patterson, dean of Jefferson Medical College, Philadelphia, who will preside at the meeting to be held in Toronto next year.

Dr. D. B. R. JOHNSON, dean of the school of pharmacy at the University of Oklahoma, has been named chairman of the committee on relations of boards and colleges of the American Association of Colleges of Pharmacy.

THE Committee on Scientific Research of the American Medical Association has made a grant of \$750 to Dr. Charles H. Frazier, John Rhea Barton professor of surgery, and Dr. James W. Watts, associate in neurosurgery at the Hospital of the University of Pennsylvania, toward a study of the autonomic representation of the urinary bladder in the cerebral cortex and in the hypothalamus. A grant has also been made to James L. O'Leary, of the School of Medicine of Washington University, St. Louis, to assist in financing his studies of the Levén reflexes.

THE American Academy of Arts and Sciences has made a grant for the purchase of scientific equipment

to Dr. Harry R. DeSilva, professor of psychology at the Massachusetts State College, acting upon a recommendation of the Permanent Science Fund Committee. The grant is made to enable Dr. DeSilva to purchase electric supplies needed in the study of relations between metabolism as measured by the gasometric method; body voltage as measured by the D. C. bridge, and body impedance as measured by the A. C. bridge.

DR. WALTER B. CANNON, George Higginson professor of physiology at the Harvard Medical School, has been granted leave of absence from March 15 to September 1, 1935.

DR. GEORGE CANBY ROBINSON, professor of medicine at Cornell Medical College and director of the New York Hospital-Cornell Medical College Association, sailed for Europe on November 3. Beginning on January 1 he will lecture at the Peiping Union Medical College as visiting professor of medicine.

DR. OLIVER L. FASSIG, of the Blue Hill Meteorological Observatory of Harvard University, will return to the School of Tropical Medicine, Puerto Rico, for the winter months to continue his investigations on the climatology of the Caribbean areas. Dr. Fassig will work in collaboration with the members of the staff and Dr. W. W. Coblentz, of the Bureau of Standards, who will be the guest of the school some time during the winter. These investigations are preliminary to the work which is planned in the study of tropical physiology.

DR. WILLIAM BEEBE, director of the department of tropical research of the New York Zoological Park, returned on November 1 from Bermuda, where he has been conducting his deep sea investigations.

DR. GEORGE B. CRESSEY, chairman of the department of geology and geography at Syracuse University, returned on November 1, after an absence of five months in the Orient. Most of the summer was spent in China in studies of land utilization. Dr. Cressey served under appointments from the National Research Council of Washington and the National Agricultural Research Bureau of Nanking.

DR. ALBERT C. SMITH, who spent the past year collecting plants in the Fiji Islands, on a research fellowship from the Bernice P. Bishop Museum in Honolulu and Yale University, has returned to New York and has resumed his work as associate curator at the New York Botanical Garden.

THE delegates from the United States to the ninth Pan-American Sanitary Conference arrived at Buenos Aires on November 1. They are Dr. Hugh S. Cumming, Surgeon General; Dr. Bolivar Jones Lloyd, of the U. S. Public Health Service and the Pan-American Sanitary Bureau, and Dr. Kendall Emerson, con-

sulting physician and managing director of the American Tuberculosis Association and secretary of the American Public Health Association.

DR. PAUL WEATHERWAX, of Indiana University, gave on October 15 the fall dinner meeting address of the Purdue Section of the American Society of Plant Physiologists, at Lafayette, Indiana. He spoke on the subject of "Cornfields of Ancient America."

At the coming Science Exhibition of the American Association for the Advancement of Science in Pittsburgh, Mellon Institute of Industrial Research will conduct an information booth, at which particulars can readily be obtained regarding the industries and institutions of the Pittsburgh district. Another service of this bureau will be to arrange for inspectional trips, especially through the buildings of Mellon Institute. The committee in charge of the Science Exhibition has very recently selected headquarters for science editors, journalists and newspaper representatives who will be in attendance at the convention. This space has been reserved in the new home of Mellon Institute, where the Science Exhibition will be held. Telegraphic, telephonic and stenographic facilities will be provided.

NEW YORK UNIVERSITY is beneficiary of trust funds amounting to \$52,700 and the residuary estate of Dr. William Chittenden Lusk, formerly professor of clinical surgery at the university and Bellevue Hospital Medical College. The fund is in memory of Dr. Lusk's grandfather, Simeon Baldwin Chittenden, a member of Congress from 1874 to 1881, and of his father, Dr. William Thompson Lusk, formerly president of Bellevue Hospital Medical College. The bequests to New York University are for the establishment of the Chittenden Lusk Fund for the advancement of surgical and medical science which will supervise the investigation of causes and cures of disease.

THE Sydney University Biological Society has recently opened, as reported in *Nature*, a field research station at Narrabeen, the erection and fitting of which was accomplished by members of the society and of the Sydney University Rover Scouts; the building contains a workroom, kitchen, verandah and dormitory accommodations, etc. It provides a center for the study in their native habitats of the fauna and flora of sandstone scrub, forest, palm groves, freshwater swamps, lagoons and beaches. The neighborhood is also a sanctuary for native birds. The research work to be done at this station, which is the first of its kind to be founded in Australia, will range from simple individual work to studies by groups of observers, in which botanists, zoologists and geologists may all take part. The new station will also allow biological students to carry out the field work which forms part of their training.