

the functional significance of the structures with which he was dealing. The success with which he already had applied these methods to some of the most important of anatomical problems gave much promise for the years ahead. His death therefore is all the greater loss.

WILLIAM L. STRAUS, JR.

THE JOHNS HOPKINS MEDICAL SCHOOL

### RECENT DEATHS

DR. EDWARD ANGUS BURT, formerly mycologist of the Missouri Botanical Garden, who has been living in retirement at his early home near Middle Grove, N. Y., since impairment of his eyesight, died on April 26 at the age of eighty years.

DR. ARTHUR P. JACOT, associate conservationist at the Northeastern Forest Experiment Station, U. S. Forest Service, New Haven, Conn., an authority on the fauna of forest soils, died on March 24 at the age of forty-nine years.

DOUGLAS D. H. MARCH, curator of the Old Panama Zoological Garden, died of a snake bite on April 3 at the age of fifty-two years.

IVAN GUBKIN, explorer and vice-president of the Russian Academy of Sciences, died on April 21 at the age of sixty-eight years.

DR. PAUL EUGENE LINEBACK, professor of micro-anatomy at Emory University, died on February 8 at the age of fifty-eight years.

PROFESSOR JAMES WILLIAM EDINGTON, professor of bacteriology and director of the Public Health Bacteriological Laboratory of the University of Sheffield, England, died on April 8 from injuries received in an automobile accident. He was fifty-four years of age.

DR. ERNEST H. HANKIN, bacteriologist, retired, of the Indian Service of the British Government, died at the age of seventy-four years on March 29.

## SCIENTIFIC EVENTS

### GRANTS FOR RESEARCH OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

UPON recommendation of the Committee on Grants, consisting of Drs. J. G. Lipman (Agriculture), *chairman*, McKen Cattell (Medical Sciences), Moses Gomberg (Chemistry), G. H. Parker (Zoology), F. K. Richtmyer (Physics), Joel Stebbins (Astronomy), Sam F. Trelease (Botany), and A. T. Poffenberger (Psychology), the council of the association has awarded grants in aid of research from the \$2,000 fund appropriated for the year 1939 as follows:

Harold C. Bold, Vanderbilt University, for studies of the algal flora of the Highlands of North Carolina and in other portions of the southern Appalachian Mountains, \$150.

Kendall B. Corbin, University of Tennessee Medical College, for investigation of the source and nature of the proprioceptive components of the cranial nerves, \$200.

Frank H. J. Figge, University of Maryland, for continuation of investigations on the intra-cellular factors controlling enzymatic pigment formation, \$250.

Arthur H. Graves, Brooklyn Botanic Garden, for attempts to develop, by breeding, a blight-resistant chestnut tree of a type suitable for timber to replace the now practically extinct American chestnut—*Castania dentata*, \$200.

F. R. Hunter, Rhode Island State College, to study the relationship between the respiratory activity of the cell and its selectively permeable properties, \$65.

Daniel Linehan, Weston College, to make a seismological study of the earthquake near Lowell, Massachusetts, of June 23, 1938, \$80.

Isabelle W. Pfeiffer, Yale University, to aid in a histological study of the corpora allata of the grasshopper,

*Melanoplus differentialis*, in correlation with various physiological conditions, particularly those relating to moulting and reproduction, \$75.

Christianna Smith, Mount Holyoke College, for the study of the rat embryonic liver in its hematopoietic stage by the tissue culture method to elucidate the origin and differentiation of red blood corpuscles, \$100.

M. L. Pool, Ohio State University, to construct a beta-ray spectrograph suitable for measuring the beta-ray spectra of artificial radioactive nuclei; the gamma-ray spectra to be measured by Compton recoil electrons, \$300.

H. S. Reed, University of California, Berkeley, to provide help for clerical and bibliographical assistance, for photostats, and possible short trips to other libraries, in connection with preparation of a book on the history of the plant sciences, \$150.

Elizabeth S. Russell, Jackson Laboratory, to continue a study of the genetics, histology and physiology of the various benign and malignant tumors in the fruit-fly, *Drosophila melanogaster*, \$230.

Sherwin F. Wood, Los Angeles City College, to determine insect reservoirs for *Trypanosoma cruzi* Chagas in the state of Texas and the virulence of these insect infections for white-footed mice, \$200.

### SUMMER BOTANICAL MEETINGS IN VIRGINIA, WISCONSIN AND CALIFORNIA

DR. GEORGE S. AVERY, JR., secretary of the Botanical Society of America, writes that there will be three regional meetings of the society during June, the first at the Mountain Lake Biological Station, Mountain Lake, Virginia, on June 15, 16 and 17; the second at the University of Wisconsin on June 21, 22 and 23, and the third at Stanford University from June 26 to July 1.

The Mountain Lake gathering will be a joint meeting with the American Society of Plant Taxonomists, the Sullivant Moss Society, the American Fern Society, the Southern Appalachian Botanical Club and the Committee on Virginia Flora. The University of Virginia and the Virginia Polytechnic Institute will be joint hosts for this meeting. Field trips will be made into the surrounding mountain region during the day-time, and evening meetings will be held on the grounds of the Biological Station, and on the campus of the Virginia Polytechnic Institute. Accommodations with meals will be available in Blacksburg at \$3 a day. At the Mountain Lake Biological Station, meals and lodging will be \$2.00. Reservations may be made at either place by addressing Professor A. B. Massey, Blacksburg, Va.

The University of Wisconsin will be the host for the second meeting. This will be a joint meeting with the American Phytopathological Society, the American Society of Plant Physiologists, the American Society of Plant Taxonomists and the Mycological Society of America. Both field and formal meetings will be held. Accommodations will be available at various hotels at minimum rates of from \$2.50 to \$4. The University Club will have a few rooms available. Reservations may be made directly with the hotels or with the University Club.

Dr. Ira L. Wiggins, secretary of the Pacific Section, announces that the Stanford University gathering will be a joint meeting with the Pacific Division of the American Association for the Advancement of Science. It will include joint symposia and other meetings with the Western Sections of the American Society of Plant Physiologists, the Ecological Society of America and the American Society of Plant Taxonomists. A field trip is arranged for Ano Nuevo Point, an area about forty miles from Stanford where coastal sand dunes, a partially submerged deposit of peat, vegetation along a brackish lagoon, etc., can be examined. Housing accommodations will be available in the dormitories at the rate of \$2.00 per day for the first three days, and \$1.75 thereafter. Reservation requests should be addressed to Miss Anastasia Doyle, Box 1772, Stanford University. Three hotels in Palo Alto, a mile from the university, offer accommodations for approximately forty-five transient guests at rates varying from \$1.25 to \$4. Early reservations are urged because of the demand for rooms during the Golden Gate Exposition. Meals may be obtained at the Stanford Union. Full information will be mailed to members at an early date.

#### MEDALS OF THE FRANKLIN INSTITUTE

THE complete list of recipients in 1938 of the various medals awarded annually by the Franklin Institute, Philadelphia, Pa., as recommended by its Com-

mittee on Science and the Arts, has been announced by Dr. Henry Butler Allen, secretary of the institute, as follows:

*The Franklin Medal*, awarded annually from the Franklin Medal Fund, founded January 1, 1914, by Samuel Insull, Esq., "to those workers in physical science or technology, without regard to country, whose efforts, in the opinion of the Institute, acting through its Committee on Science and the Arts, have done most to advance a knowledge of physical science or its applications." To Edwin Hubble, Ph.D., D.Sc., LL.D., Mount Wilson Observatory, Carnegie Institution of Washington, Pasadena, "In recognition of his extensive study of the nebulae, particularly those outside our galaxy, as a result of which the dimensions of observed space have been greatly increased."

*The Franklin Medal* posthumously to Albert Sauveur, Sc.D., D.Eng., professor emeritus of metallurgy and metallography, Harvard University, "In recognition of his outstanding work in the science of metallography and of his many contributions to this branch of metallurgy which have been in a large measure responsible for changing the heat treatment of steel from an art to a science."

*The Edward Longstreth Medal*, founded in 1890 by Edward Longstreth, of Philadelphia, retired member of the Baldwin Locomotive Works, for the encouragement of invention. To Arthur C. Hardy, Sc.D., professor of optics and photography, Massachusetts Institute of Technology, "In consideration of the development of an accurate and reliable instrument which has greatly expedited research in the field of color, both in theory and in its commercial applications." To Jesse E. Stareck, Ph.D., Waterbury, Conn., "In consideration of the development of a new technique for the study of electrode phenomena encountered in the electrolysis of water solutions and the discovery of a new method applicable to the art of coloring metals." To John Strong, Ph.D., assistant professor of physics in astrophysics, California Institute of Technology, and to Robley Cook Williams, Ph.D., department of astronomy, University of Michigan, "In consideration of their independent development and improvement of a process for coating astronomical mirrors with a layer of metallic aluminum deposited thereon by evaporation in vacuo."

*The John Price Wetherill Medal*, founded in 1925 by the family of John Price Wetherill, to be awarded for discovery or invention in the physical sciences, or for new and important combinations of principles or methods already known, to William Albert Hyde, director of research, Leon J. Barrett Company, Worcester, Mass., "In consideration of his discovery and development of a process for the centrifugal impregnation of objects which has materially reduced the time necessary for impregnation as compared with the prior art."

*The George R. Henderson Medal*, founded in 1924 by Mrs. Virginia P. C. Henderson, in memory of her husband, George R. Henderson, consulting mechanical engineer connected with Baldwin Locomotive Works. He was also a long-time member of the Franklin Institute and served as chairman of its Committee on Science and the Arts and