

historical, biological and philosophical study of human genetics	1,500
Robert Gaunt, New York University, for the study of the functional interrelationship of the adrenal cortex and the pituitary	500
Richard Krautheimer, Vassar College, for a historical and architectural analysis of the early Christian basilicas in Rome as far as preserved either completely or in remnants, fourth to ninth centuries	1,500
Wesley L. Bliss, University of New Mexico, for the study of evidence of early man in the area on the eastern flank of the Canadian Rockies to the Arctic and in the upper Yukon, with emphasis upon glacial and other geological and geographical conditions that may have influenced him	1,000
John H. Davis, Jr., Southwestern College, for the continuation of the study of mangroves and land building in southern Florida	425
Edwin Francis Carpenter, University of Arizona, for the study of the distribution of color in the extra-galactic nebulae	700
F. Martin Brown, Colorado College, for a study of the microscopic structure of animal hairs and the preparation of keys, drawings and description to be used in assisting in the determination of the various furs used by the aborigines of the southwestern states for making textiles, cords, etc.	600
Thomas Hale Ham, Harvard Medical School, for an investigation on the mechanism of blood destruction in normal and pathological conditions	1,500
Carl G. Vinson, University of Missouri, for a chemical investigation of disease viruses	500
Grants made in April, 1938, were as follows:	
Erwin K. Mapes, University of Iowa, to identify and collect the writings of the Mexican author, Manuel Gutiérrez Nájera, together with critical and other data regarding his life and work	500
J. J. Nassau and S. W. McCuskey, Case School of Applied Science, for the construction of a photoelectric machine for counting stellar images of varying degrees of brightness on a photographic plate	300
V. M. Slipper, Lowell Observatory, for the investigation of the spectrum of the light of the night sky	500
Dwight C. Carpenter, New York State Experiment Station, for the study of the effect of light on proteins and amino-acids	300
Ernst C. Abbe, University of Minnesota, for a detailed field study of the flora of the Richmond Gulf region (east coast of Hudson Bay) to gather further evidence concerning the interrelationship of historical and environmental factors in the floristic development of the Labrador peninsula	450
Leslie Spier, Yale University, for the completion	

of an extended ethnography of the Modoc Indians of Oregon	750
H. O. Burdick, Alfred University, for a continuation of studies of the physiology of the fallopian tubes	500
Samuel L. Leonard, Rutgers University, for the study of hypophysis-thyroid-gonad relationship	735
Harold S. Colton, Museum of Northern Arizona, to carry on archeological excavations in northwestern Arizona	1,000
Rudolf Höber, University of Pennsylvania, for a continuation of investigations on the secretory activity of the liver	1,200

EDWIN G. CONKLIN,
Chairman, Committee on Research

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 the Institute's Committee on Science and the Arts, has been announced as follows:

The Elliott Cresson Medal to Edwin H. Land, The Land-Wheelwright Laboratories, Inc., Boston, Mass., "in consideration of his contribution to the art and science of optics evidenced in his invention of polaroid and in his development of polaroid into a commercial product."

The Howard N. Potts Medal to Lars O. Grondahl, Union Switch and Signal Company, Swissvale, Pa., "in consideration of his recognition of the potential value of an accidentally discovered phenomenon in physics and of his subsequent masterly development of the principle involved into an extremely valuable engineering appliance, the copper-oxide rectifier."

The Louis Edward Levy Medal jointly to S. S. Kurtz, Jr., of the Chemical Section of the Sun Oil Company, Philadelphia, and A. L. Ward, of the Chemical Laboratory of the United Gas Improvement Company, Philadelphia, "for their series of papers on 'The Refractivity Intercept and the Specific Refraction Equation of Newton,' published in the *Journal* of the institute in November, 1936, November, 1937, and December, 1937."

The George R. Henderson Medal to Clyde C. Farmer, Westinghouse Air Brake Company, Pittsburgh, Pa., "in consideration of his invention and development of the 'AB' Freight Brake which has, in large measure, solved the difficulties and intricacies of a complicated problem in Railway Engineering."

The Walton Clark Gold Medal to Robert Brinton Harper, The Peoples Gas Light and Coke Company, Chicago, "in consideration of his leading part in the development, supervision and direction of a research and testing laboratory of outstanding excellence in the gas industry, his cooperation personally and through members of his staff with the gas industry generally, and his own distinguished work in the chemistry and physics of the gas industry."

The Edward Longstreth Medal to J. F. Hellweg, captain, U. S. Navy (retired), head of the United States

Naval Observatory, Washington, D. C., and to Paul Solenberger, Naval Observatory, Washington, D. C., "in consideration of their invention of a device combining a crystal controlled clock with a stroboscopic reading element and apparatus for emitting radio time signals, whereby the accuracy of these signals has been increased and the labor of preparing for their transmission reduced."

The Longstreth Medal jointly to Norman F. S. Russell, president, United States Pipe and Foundry Company, Burlington, N. J., and to Dr. Frederick C. Langenberg (deceased), "in consideration of the development of means for reducing the rate of cooling of iron pipe cast by the centrifugal process in externally cooled metal molds"; to Clarence W. Balke, director of research, Fansteel Metallurgical Corporation, Chicago, "in consideration of his scientific work in chemistry and metallurgy which resulted in the development of processes for the production and commercial utilization of Columbium and Tantalum."

As previously announced the Franklin Medals will be awarded to Dr. William Frederick Durand, professor emeritus of mechanical engineering at Stanford University, and to Dr. Charles A. Kraus, professor of chemistry and director of research in chemistry at Brown University.

The medals will be presented on Friday, May 20, in Franklin Hall, at the foot of the heroic white marble statue of Benjamin Franklin, sculptured by James Earle Fraser, which is to be unveiled on May 19. All recipients of medals will be guests of the Franklin Institute at the dedication banquet on Saturday, May 21, at 8:00 P.M., at the Bellevue-Stratford Hotel, when Mr. Hoover will make the address.

RECENT DEATHS

DR. MAURICE CROWTHER HALL, chief of the Zoological Division of the National Institute of Public Health,

U. S. Public Health Service, died on May 1 in his fifty-seventh year.

DR. WADE HAMPTON FROST, professor of epidemiology at the School of Hygiene and Public Health of the Johns Hopkins University, of which he was dean from 1931 to 1934, died on April 31 at the age of fifty-eight years.

DR. ROBERT TAIT MCKENZIE, J. William Wright research professor of physical education at the University of Pennsylvania, sculptor and physician, died on April 28 at the age of seventy years.

DR. ROSS V. PATTERSON, Sutherland M. Prevost professor of therapeutics and dean of the Jefferson Medical College, Philadelphia, died on May 2 at the age of sixty years.

DR. FRANCIS BAKER LANEY, since 1920 head of the department of geology at the University of Idaho, died on April 24 at the age of sixty-three years.

DR. JOHN M. BUCK, senior bacteriologist and assistant superintendent of the Federal Animal Disease Station at the Experiment Station at Bethesda, Md., died on May 2 at the age of fifty-nine years.

DR. LEWIS WEBB CRIGLER, surgeon director for ophthalmology of the Manhattan Eye, Ear and Throat Hospital, died suddenly on April 31. He was sixty-one years old.

Nature reports the death of Professor F. Mesnil, of the Pasteur Institute of Paris, member of the Section of Anatomy and Zoology of the Paris Academy of Sciences, aged seventy years, and of Professor Otto Naegeli, professor of internal medicine and director of the Medical Clinic in Zurich, known for his work on diseases of the blood, aged sixty-seven years.

SCIENTIFIC NOTES AND NEWS

DR. THOMAS PARRAN, surgeon-general of the U. S. Public Health Service, has been awarded the Mendel Medal of Villanova College, "in recognition of his scientific approach to the problems of public health."

THE George M. Kober Medal for distinguished service to medicine was presented on May 4, at the meeting of the Association of American Physicians held in Atlantic City, to Dr. Rufus Cole, member emeritus of the Rockefeller Institute for Medical Research, New York, formerly director of its hospital.

THE Howard Taylor Ricketts prize of the University of Chicago has been awarded to John Marshall Weir, Ph.D. (Chicago, '37), last year assistant professor of anatomy at the University of Mississippi, for his researches on long reactions on blood vessels. The

Ricketts prize was established in 1913 to honor Dr. Howard Taylor Ricketts, of the University of Chicago, who discovered the typhus germ and died a martyr to his discovery in Mexico.

THE annual dinner of the trustees of the American Museum of Natural History was given in honor of Dr. Frank M. Chapman, curator of the department of birds, who has completed a half century of service to the museum. An illuminated scroll was presented to him.

A SPECIAL feature of the thirteenth annual meeting of the Midwestern Psychological Association at the University of Wisconsin on April 22 and 23 was a golden anniversary dinner, at which Dr. Joseph Jastrow and Dr. Clark L. Hull were the guests of honor.