

for one year, 1938-39, for investigation of the effects of radiation, particularly in reference to the stroma of tumors, by Drs. Ashley W. Oughterson and Edwin A. Lawrence.

To the Cushing Brain Tumor Registry for studies of the natural history of tumors of the brain, meninges and related structures and for the work of the registry, by Drs. Harvey Cushing and Louise Eisenhardt, \$2,500 per year for three years, 1938-41.

This is the first allocation from an appropriation of \$10,000 per year for three years, 1938-41, for cancer research in various departments of Yale University, not yet specified.

To the School of Medicine for the construction of quarters for animals, to be used at first for housing Dr. Leonell C. Strong's colony of cancer-susceptible and cancer-resistant mice, \$15,000 to be expended in 1937-38.

In connection with this or other projects appropriation has been made in the amount of \$2,500 for the wages of a caretaker of animals and to supplement funds for quarters and maintenance of animals, for one year, 1938-39.

Two additional appropriations have been made to increase facilities for cancer research and to assist coordination of work at Yale. The ownership of material purchased under these grants remains with the Childs Fund. These are:

For the purchase of books, monographs and periodicals in the field of knowledge of cancer, \$3,000 to be expended over a period of four years, 1937-41. For the binding, cataloguing, shelving and care of these books, the sum of \$1,000 has been made available. The books will be deposited in the medical library in the Sterling Hall of Medicine.

For the purchase of ultracentrifuges, ultra-violet spectrograph, spectrophotometer, Warburg respiration apparatus and other special apparatus, \$10,000 was appropriated for use during the year 1937-38. This apparatus, located in laboratories in the department of physiological chemistry, under the supervision of Dr. Kurt G. Stern, will be available for use by members of the group of investigators of cancer.

APPOINTMENTS AND PROMOTIONS AT THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

THE Board of Scientific Directors of the Rockefeller Institute for Medical Research announces the following appointments and promotions on the scientific staff to take effect on or after July 1, 1938:

Promotions:

Associate to Associate Member—Dr. René J. Dubos, Dr. Kenneth Goodner, Dr. Rafael Lorente de Nó, Dr. John B. Nelson.

Assistant to Associate—Dr. Albert Claude, Dr. Joseph S. Fruton, Dr. John G. Kidd, Dr. Colin M. MacLeod, Dr. William C. Price, Dr. Charles V. Seastone, Jr., Dr. Joseph E. Smadel, Dr. Philip R. White.

Fellow to Assistant—Dr. Max A. Lauffer, Jr.

New Appointments:

Assistants—Dr. Jorge Casals-Ariet, Dr. Smith O. Dexter, Jr., Dr. Thomas D. Dublin, Dr. William F. Friedewald, Dr. Rollin D. Hotchkiss, Dr. Francis H. Wright.

Dr. Paul B. Beeson has been appointed resident physician at the hospital.

Fellows—Mark H. Adams, Dr. Konrad Dobriner, Dr. Robert S. Dow, Dr. Isabel M. Morgan, Dr. Ernst Scharrer.

Also the following changes in the administrative staff:

The retirement of Miss Lillia M. D. Trask, as librarian, after 27 years of service.

In the hospital, the retirement of Miss Nancy P. Elliott, superintendent, Miss Mary B. Thompson, assistant superintendent, who have served since the opening of the hospital in 1910, and Miss Katherine M. Christhilf, housekeeper, who has served since 1913, to be succeeded by Miss Alice N. Lockie as superintendent, Miss Georgina M. Drew as assistant superintendent and Miss Stella R. Hoffman as supervisor of nurses.

DOCTORATES OF SCIENCE CONFERRED BY HARVARD AND PRINCETON UNIVERSITIES

As announced last week in *SCIENCE*, the degree of doctor of science was conferred by Harvard University on Dr. Frank R. Lillie, Dr. Wendell M. Stanley and Dr. Irving Langmuir. The citations made by President James Bryant Conant follow:

Frank R. Lillie, dean of the division of biological sciences, University of Chicago; doctor of science, "A marine biologist honored and admired both for his own investigations and for his ability to aid his fellow workers as dean at Chicago and director at Woods Hole." Wendell M. Stanley, biochemist with the Rockefeller Institute, Princeton, N. J.; doctor of science, "A biochemist who has cooperated effectively with plant pathologists; his isolation of a crystalline filterable virus has turned a new page in the history of medicine."

Irving Langmuir, research chemist with General Electric Company, Schenectady, N. Y.; doctor of science, "Nobel Laureate in chemistry, but yet a physicist; his penetrating studies of solid surfaces have aided both industry and science."

Princeton University on June 22 conferred the doctorate of science on Dr. Charles J. Hatfield and on Clinton Joseph Davisson. In presenting the recipients of honorary degrees, Professor Luther Pfahler Eisenhart, dean of the Graduate School, spoke as follows:

Charles James Hatfield, a graduate of Princeton of the great Class of 1888 and of the Medical School of the University of Pennsylvania; for many years executive director of the Henry Phipps Institute for the Study,

Prevention and Cure of Tuberculosis, the pioneer institution in this country devoted to this cause; for over twenty-five years a leading figure in the National Tuberculosis Association, recently awarded the Trudeau Medal for his meritorious contributions to the prevention and treatment of this disease. A life-long fighter against "the destruction that wasteth at noon-day," he sees on every hand signs of victory in warfare for the preservation of mankind.

Clinton Joseph Davisson, member of the technical staff of the Bell Telephone Laboratories and of the National Academy of Sciences; a doctor of philosophy of Princeton. His investigations on the diffraction of electrons by crystals, executed concurrently with, but

independently of, the rise of wave mechanics, gave the first direct proof of the undulatory properties of matter; for this remarkable and brilliant achievement he was awarded successively the Comstock Prize of the National Academy of Sciences, the Cresson Medal of the Franklin Institute, the Hughes Medal of the Royal Society of London and in 1937 the Nobel Prize. A modest and resourceful designer of experimental attack, he began, as a fellow in our own Palmer Laboratory under the inspiration of another Nobel Laureate, Owen Richardson, his researches on thermionics, which have made him a leader in this field, so fundamental for modern experimental science, and the recipient of the highest award for scientific discovery.

SCIENTIFIC NOTES AND NEWS

THE Theobald Smith Medal, with an honorarium of one thousand dollars of the American Association for the Advancement of Science, founded by the Eli Lilly Company, Indianapolis, was awarded at the Ottawa meeting to Dr. Charles F. Code, of the Mayo Foundation, in recognition of his discovery that the chemical histamine is normally present in human blood and when present in abnormal amounts indicates tubercular infection or an allergic reaction to the presence of foreign proteins in the body.

THE Borden Awards, in recognition of research in dairy science, were presented by the American Dairy Science Association, meeting at Columbus and Wooster, to Dr. William E. Krauss, associate dairyman at the Ohio Agricultural Experiment Station, Wooster, in recognition of his work on the nutritive values of milk, and to Dr. Kenneth G. Weekel, of the University of Wisconsin, in recognition of his work in the field of milk irradiation. The awards—a gold medal and \$1,000—were presented by W. A. Wentworth, of the Borden Company, New York City.

THE final number of Volume 12 of the *National Mathematics Magazine* is dedicated to Professor G. A. Miller on the occasion of his seventy-fifth birthday anniversary, which will occur on July 31.

PROFESSOR MADISON BENTLEY has retired from the Sage chair of psychology at Cornell University. Students and colleagues at Cornell and at the University of Illinois have had his portrait done in oils by Olaf Brauner. Professor Bentley has lent the picture for an indefinite time to the department at Cornell, where it is to hang in the great hall of the laboratory. A book of eighty letters, written by former students and colleagues, was presented at the same time. After the summer in California, Professor Bentley will live in Washington, D. C., where he has been appointed consultant for psychology and related subjects in the Library of Congress.

A TESTIMONIAL dinner has been given to celebrate the seventy-fifth birthday on June 20 of Dr. John M. T. Finney, professor emeritus of surgery at the Johns Hopkins Medical School. He was presented on this occasion with a bust of himself executed by Hans Schuler, president of the Maryland Institute. At a meeting on June 17 of the executive committee of the Baltimore Chapter of the American Red Cross, Dr. Finney was presented with a letter of congratulation from President Roosevelt.

THE honorary degree of doctor of engineering was conferred on June 17 by the Worcester Polytechnic Institute on Dr. William F. Durand, professor emeritus at Leland Stanford University; on Frederick M. Feiker, executive secretary of the American Engineering Council; on Arthur D. Butterfield, professor of geodesy at the University of Vermont, and on Arthur W. French, who has completed thirty-nine years as a member of the faculty.

DR. WENDELL M. STANLEY, of the department of animal and plant pathology of the Rockefeller Institute for Medical Research at Princeton, N. J., was awarded on June 22 the honorary degree of doctor of science by Yale University.

THE doctorate of science was conferred on June 13 by the College of Wooster on Dr. J. T. Patterson, professor of zoology at the University of Texas.

AT the recent meetings in Rome of the International Union of Chemistry and of the Congress of Chemistry, organized under its auspices, Dr. Marston T. Bogert, professor of organic chemistry at Columbia University, was elected president of the union for the next four years. He is the first American to hold this office. The meetings were attended by some three thousand persons representing about thirty different nations.

DENYSE W. ATWATER, of the Westinghouse Electric and Manufacturing Company, was elected president of the Illuminating Engineering Society at the recent Briarelliff meeting.