

dent, L. E. Noland; *Vice-president*, (Miss) C. Audrey Richards; *Secretary*, J. G. Winans; *Treasurer*, W. B. Sarles; *Board of Electors* (3-year term), R. K. Meyer and A. L. Tatum.

JOINT SYMPOSIUM OF ENTOMOLOGISTS AND ECOLOGISTS AT THE RICHMOND MEETING

THE Entomological Society of America, the American Association of Economic Entomologists and the Ecological Society of America have arranged a joint symposium for their annual meetings at Richmond, Va., in December on the general topic "Insect Populations." The symposium will be held in the Roof Garden of the John Marshall Hotel on the afternoon of December 27, at 2:00 P.M. The detailed program, over which Dr. V. E. Shelford, of the University of Illinois, will preside, is as follows:

Insect Population Problems in Relation to Insect Outbreaks: Royal H. Chapman, director, Pineapple Producers' Experiment Station, Honolulu.

Population Studies of Soil Insects: Kenneth M. King, Dominion Entomological Laboratory, Saskatoon, Saskatchewan, Canada.

Populations of Social Insects: Alfred E. Emerson, Department of Zoology, University of Chicago.

Forest Insect Populations: Samuel A. Graham, School of Forestry and Conservation, University of Michigan.

Insect Populations in Relation to Biological Control: Harry S. Smith, Citrus Experiment Station, University of California, Riverside.

Negotiations are under way for the publication of the papers given in the symposium as a number of *Ecological Monographs*. This will be possible if advance orders of 600 copies are guaranteed by the entomologists at a price of \$1.00 or less per copy.

THE JANE COFFIN CHILDS MEMORIAL FUND FOR MEDICAL RESEARCH

IN the issue of SCIENCE for July 1 an account was given of the work and organization of the Jane Coffin Childs Fund for Medical Research. Grants for the support of cancer research have been made as follows:

For general services to cancer research the Childs Fund has agreed to contribute \$1,000 per year for five years, 1937-42, to the *American Journal of Cancer*.

To Washington University School of Medicine, department of pathology, for investigations of the relation of hormones to cancer, by Dr. Leo Loeb, \$2,000 per year for two years, 1937-39.

To the Johns Hopkins University School of Medicine, department of pathology, for the study of production of carcinoma on the basis of vitamin deficiencies and the effects of carcinogenic substances on tissue cultures, by Drs. William G. MacCallum, Gerson R. Biskind and Jerome Mark, \$2,000 for one year, 1937-38.

To Cornell University Medical College, department of pathology, for experimental investigations of leukemia, with special reference to extrachromosomal factors, by Drs. Eugene L. Opie and J. Furth, \$4,500 for one year, 1938-39.

To the Research Institute of the Royal Cancer Hospital (Free), London, for investigations of carcinogenic substances and other phases of cancer research, by Dr. E. L. Kennaway, \$1,000 for one year, 1937-38.

To Yale University, department of chemistry, for studies of the relation of steroids to carcinogenic substances, by Dr. Werner Bergmann, \$1,800 per year for two years, 1937-39.

To Yale University School of Medicine in departments listed below:

To the department of anatomy, Dr. Edgar Allen, *chairman*, for program of investigation of cancer in mice, genetics of cancer in mice and for services in connection with colony of genetically controlled mice, by Dr. Leonell C. Strong and associates, \$8,200 per year for three years, 1938-41. Increased facilities for caring for animals have also been provided.

To the department of anatomy, for studies of the relation of estrogens to production of cancer, by Dr. William U. Gardner, \$2,800 for three years, 1938-41.

To the department of anatomy, for services of stenographer and clerk in connection with department's program of cancer research, \$1,000 per year for three years, 1938-41.

To the department of anatomy, section of neuro-anatomy, for studies of electrodynamic potentials of cancer induced in mice and of cancer in man, by Dr. Harold S. Burr and associates, \$2,900 for the year 1937-38; renewed in the amount of \$3,200 for the year 1938-39.

To the department of physiological chemistry, Dr. C. N. H. Long, *chairman*, for physiological chemical investigations of tumors, with special reference to respiration, enzymatic processes and protein composition, by Dr. Kurt G. Stern, \$7,500 per year for three years, 1938-41. An ultra-centrifuge laboratory will be equipped and other special apparatus provided.

To the department of pathology, for investigation of the relation of stroma to survival of engrafted tumors and mechanism of the formation of stroma, by Dr. Milton C. Winternitz and associates, \$5,000 for one year, 1938-39.

To the department of pathology, for investigation of cancer by means of tissue cultures, by Drs. Robert Tennant and Averill A. Liebow, \$1,800 for one year, 1938-39.

To the department of bacteriology, laboratory of Dr. S. Bayne-Jones, for investigations of viruses in relation to cancer and immunological studies of certain neoplasms, by Dr. F. Duran-Reynals, \$10,000 per year for three years, 1938-41.

To the department of surgery, tumor clinic, for various investigations of cancer centering around the activities of the Tumor Clinic and related clinical divisions, by Drs. Samuel C. Harvey, Ashley W. Oughterson, Hugh M. Wilson and associates, \$10,000 per year for three years, 1938-41.

The first allocation under this appropriation is \$1,500

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,