

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