

of the committee and Mrs. Sydney C. Borg, of the Jewish Board of Guardians, is vice-chairman. The committee will function as the mental hygiene section in the health division of the Welfare Council of New York City and it expects to develop a unified mental hygiene program for New York City.

Other appropriations made at the February meeting included \$10,000 to the National Probation Association for the further development of its field service department; \$15,000 to the Foreign Language Information Service; \$3,800 for the cardiac clinic of the Johns Hopkins University Hospital, and \$2,000 for scholarships at the Southern Pediatric Seminar. The latter grant renews one of the same amount made for the summer of 1927, under which 35 scholarships were awarded to physicians from six southern states to attend this seminar, which is held for two weeks each summer in Saluda, N. C., in order to enable general practitioners to gain further clinical information concerning methods of diagnosis, treatment and prevention of children's diseases.

At the preceding meeting of the board of directors of the Commonwealth Fund, held in December, the following appropriations were made: For the child health program of the Commonwealth Fund, \$230,000; for projects in legal research to be conducted by the law schools of Chicago, Yale and Harvard Universities, \$25,000; for surveys of rural health work, under the direction of the Committee on Administrative Practice of the American Public Health Association, \$22,500; to the National Conference of Catholic Charities for a study of child-caring homes, \$16,500; for a two-year study of encephalitis cases at the Pennsylvania Hospital, \$10,000; for the general budget and the department of institutional care of the Child Welfare League of America, \$10,000; for the cardiac work of the New York Tuberculosis and Health Association, \$7,500.

#### THE FOURTH PACIFIC SCIENCE CONGRESS

ANNOUNCEMENT has recently been made that the fourth Pacific Science Congress, sponsored by the Pacific Science Association, will be held under the auspices of the Netherlands Indies Pacific Research Committee in Batavia and Bandoeng, Java, from May 16 to 25, 1929.

The program for the congress will be organized in three divisions, including physical sciences, biological sciences and agricultural sciences, the latter group having been added to the major divisions recognized at earlier congresses because of the dominating economic and scientific interests of agriculture in the colonies of the Netherlands Indies. As in the previous congresses most of the sessions of the divi-

sions will be given over to symposia upon selected problems.

Papers for these symposia are invited from American scientists upon any important scientific problems pertaining to the Pacific region in these three general fields. The plan for organizing the program for the congress contemplates requesting men who are competent to speak upon the scientific problems of the region to summarize groups of related papers offered and to present briefly at these symposia a coordinated review of these contributions, in order to relate each group of papers to its problem as a whole and preserve as large an opportunity as possible for discussion. Abstracts, in duplicate, of all papers offered for the program of the congress should be in the hands of the first general secretary of the congress, Dr. H. J. Lam, Botanical Gardens, Buitenzorg, Java, by January 1, 1929, and the complete papers, also in duplicate, should be forwarded to Dr. Lam as soon as practicable after that date, so as to permit adequate consideration of the papers in the preparation of the program.

For several days both before and after the period of the scientific meetings, excursions have been planned which will make it possible for visiting scientists to see many things in Java which are of particular scientific significance, as well as the scenic features of the island and its agricultural developments.

VERNON KELLOGG

NATIONAL RESEARCH COUNCIL

#### AWARD OF FELLOWSHIPS BY THE GUGGENHEIM FOUNDATION

FELLOWSHIPS of an aggregate value of \$173,000 have been awarded by the John Simon Guggenheim Memorial Foundation to seventy-five young American scholars, scientists and artists. The usual stipend, \$2,500, for one year, will enable the beneficiaries to spend all or part of the coming year in study and research abroad.

The following is a list of awards in the field of science:

Dr. Willem Jacob Luyten, assistant professor of astronomy at Harvard University: to photograph the southern sky with the Bruce telescope of the Harvard Observatory at Mazelspoort, South Africa, with a view to comparing these plates with similar plates taken between 1896 and 1905 to obtain information concerning the numbers, velocities and intrinsic brightnesses of the stars in the neighborhood of the sun.

Dr. Otto Struve, assistant professor of astrophysics at the University of Chicago, a theoretical study of the distribution and physical properties of diffuse matter in

interstellar space, with Professor A. S. Eddington, at Cambridge University.

Dr. Olive C. Hazlett, assistant professor of mathematics at the University of Illinois: to study the arithmetics of linear associative algebras together with their application and interpretation in other lines of mathematics, in Europe.

Dr. Perry Byerly, assistant professor of seismology in the University of California: to study mathematical geophysics in order to apply data already obtained in the study of the Montana and other American earthquakes to the problems of the nature and position of these discontinuities in the earth's structure which lie above the central core.

Dr. J. J. Hopfield, assistant professor of physics at the University of California: to study the Zeeman effect of the infra-red spectra of oxygen and nitrogen with reference to the classification of the extreme ultra-violet spectra of these elements, with Professor F. Paschen, at the Imperial Physico-Chemical Institute, Charlottenburg, Germany.

Dr. R. J. Kennedy, research associate in physics at the California Institute of Technology: to do research towards establishing a consistent theory of radiation, with Professor Sommerfeld at Munich and Schrödinger at Berlin.

Dr. Noel C. Little, professor of physics at Bowdoin College: to determine the thermo-magnetic properties of gaseous molecules by a new method of convective flow with a view to the study of their structure and special quantization, with Professor W. Gerlach at Tübingen.

Dr. F. W. Loomis, associate professor of physics at New York University: to make a study of the new quantum mechanics, especially in relation to problems in band spectra, with Professor T. Frank at Göttingen and Professor Schrödinger at Berlin.

Dr. L. E. Reukema, assistant professor of electrical engineering at the University of California: to make a theoretical and experimental study of electric discharge of gases at high frequencies and of the breakdown of solid insulating materials under high electric stress, with Professor W. O. Schumann at Munich.

Dr. W. W. Watson, assistant professor of physics at the University of Chicago: to study molecular spectra under Professor Frank at Göttingen and Sommerfeld of Munich, with a view to learning more about the structure of molecules and the nature of chemical reactions.

Dr. Richard Bradfield, assistant professor of soils at the University of Missouri: to investigate some of the principles involved in the purification of colloids by electrodialysis (reappointment).

Dr. G. H. Coleman, assistant professor of chemistry at the State University of Iowa: to carry out an experimental study of a new method for the preparation of amines by the reaction of organomagnesium halides with chloramines and related compounds, with Professor Victor Grignard at the University of Lyons.

Dr. Earl C. Gilbert, associate professor of chemistry at the Oregon State College: to make an experimental study of some hitherto uninvestigated reaction of hydrazine from the standpoint of modern theories of solution,

catalysis and electronic structure; principally with Professor J. N. Bronsted, of the Polytechnic Institute, Copenhagen.

Dr. Ralph E. Cleland, associate professor of botany at Goucher College: to make studies of the chromosome constitution and behavior in the evening primrose.

Dr. R. B. Harvey, associate professor of plant physiology and botany at the University of Minnesota: to investigate the effects of low temperature on plants, in Northern Russia.

Dr. Warren K. Stratman-Thomas, research pharmacologist of the University of Wisconsin: to determine by clinical trial the therapeutic value of certain new arsenical compounds in the chemotherapy of sleeping sickness, with Dr. Clement C. Chesterman, in the Belgian Congo.

Dr. Homer W. Smith, professor of physiology at the University of Virginia: to go to Naples, Cairo and Khartum to make physiological studies of rare species of lung fishes surviving in the waters of the Nile and Mediterranean.

Dr. Dwight E. Minnich, associate professor of zoology at the University of Minnesota: to make physiological studies on the chemical senses of insects, principally with Professor Karl V. Frisch, director of the Zoological Institute at the University of Munich.

Dr. Emmett R. Dunn, associate professor of zoology at Smith College: to carry out researches on Central American reptiles and amphibians, and on the salamanders of the family Ambystomidae, field work in Mexico and Costa Rica and study in European museums.

Dr. William V. Cone, instructor in surgery at the Columbia University College of Physicians and Surgeons: to study the reactions of the interstitial cells of the central nervous system, with Dr. Gordon Holmes at the National Hospital for the Paralyzed and Epileptic in London.

Dr. R. R. Dieterle, instructor in psychiatry at the University of Michigan: to study the spirochetosis of the central nervous system in the syphilitic diseases affecting the nervous tissues, with Professor F. Jahnel, in Munich.

Dr. John C. McKinley, associate professor of neuropathology at the University of Minnesota: to make quantitative studies on human muscle tonus at the University of Breslau, Germany.

## SCIENTIFIC NOTES AND NEWS

SIR THOMAS HOLLAND, of the Imperial College of Science and Technology, has been nominated by the council to be president of the British Association for the Advancement of Science for the 1929 meeting, which is to be held in South Africa.

ON the occasion of the Harvey tercentenary meeting of the Philadelphia College of Physicians on March 22, Jefferson Medical College and the University of Pennsylvania conferred the honorary doctorate of laws upon Sir Humphry Davy Rolleston,