

United States and Canada, on the one hand, and New Zealand and Australia on the other. Canton Island was the base of operations for another National Geographic Society expedition which, with the U. S. Navy, observed the total eclipse of the sun in June, 1937. It is now under joint American and British control. During its twelve months in the field, the ship will put in at intervals at Honolulu and Auckland, New Zealand, for supplies and mail.

The expedition, which will start next September and will be in the field for a year, will be conducted by the society and the University of Virginia, with the cooperation of the United States Coast Guard.

THE NEW YORK INSTITUTE FOR HOSPITAL ADMINISTRATORS

THE first New York Institute for Hospital Administrators opened a course of instruction on June 19 at the College of Physicians and Surgeons of Columbia University with an address by Dr. Malcolm MacEachern, associate director of the American College of Surgeons and president of the International Hospital Association. The institute will continue through July 1.

Authorities on all phases of hospital administration speak on the problems and progress in that field. Ninety hospital superintendents, assistant superintendents and department heads have enrolled for the course, which includes round-table discussions. No public meetings are scheduled.

The institute is sponsored by the American College of Hospital Administrators and the Greater New York Hospital Association in cooperation with the faculty of medicine of Columbia University. Dr. Claude W. Munger, director of St. Luke's Hospital, is director. Dr. S. S. Goldwater, commissioner of the Department of Hospitals, is chairman of the advisory committee.

Among the speakers are Dr. Haven Emerson, of the College of Physicians and Surgeons; Dr. Joe R. Clemmons, director of Roosevelt Hospital; Dr. C. Rufus Rorem, of the American Hospital Association; Dr. Frederick MacCurdy, superintendent of Vanderbilt Clinic; Miss Edith Field, record librarian of Grasslands Hospital, Valhalla, N. Y.; Emanuel Hayt; Dr. E. M. Bluestone, director of Montefiore Hospital; Miss S. Margaret Gillam, director of the department of nutrition, New York Hospital, and James A. Hamilton, director of New Haven Hospital.

The program is intended for those familiar with the hospital field and does not offer a training course in hospital administration. It is expected to stimulate ideas and improvement in the management of hospitals.

Two lectures are given each morning from 9 to 10:30 o'clock and from 10:30 to 12. In the afternoon, field trips to selected hospitals demonstrating various features of hospital administration have been arranged.

The subjects of the round table discussions of the evening sessions include hospital-care insurance, hospital financing, personnel management, nursing service, medical records, diet therapy, community relationships and the hospital as an educational institution.

A similar program for hospital administrators on the Eastern seaboard is being held this summer at Duke University, North Carolina.

MEETINGS OF THE THIRD COMMISSION OF THE INTERNATIONAL SOCIETY OF SOIL SCIENCE

THE third Commission of the International Society of Soil Science, concerned with the subject of soil microbiology, will hold meetings in New Brunswick, N. J., from August 30 to September 1, at the New Jersey Agricultural Experiment Station and Rutgers University. Papers will be presented on three subjects. The program on August 30 will be concerned with the subject of "Legumes and Legume Bacteria," and reports will be given by the following: W. A. Albrecht, University of Missouri; F. E. Allison, United States Department of Agriculture; A. Demolon, Centre National de Recherches Agronomique, Versailles; J. Dufrenoy, University of Bordeaux; H. Katznelson, N. J. Agricultural Experiment Station; L. T. Leonard, United States Department of Agriculture; K. V. Thimann, Harvard University; H. G. Thornton (president of the commission), Rothamsted Experimental Station, England; W. W. Umbreit and P. W. Wilson, University of Wisconsin; A. I. Virtanen, Biochemical Institute, Finland; A. L. Whiting, the Urbana Laboratories, Illinois. The subject of "Microbiology of Soil Organic Matter" will be discussed by the following on the morning of August 31: Chr. Barthel and N. Bengtsson, Lantbrukshögskolan, Sweden; F. E. Clark and Charles Thom, United States Department of Agriculture; D. Fehér, Institute of Forestry, Hungary; H. Murata, Kagoshima Imperial College of Agriculture and Forestry, Japan; A. G. Norman, the Iowa State College; C. E. Skinner, University of Minnesota; S. C. Vandecaveye, the Washington State College; S. A. Waksman, N. J. Agricultural Experiment Station; J. Marszewska-Ziemiecka, the National Institute for Agricultural Research, Poland. Papers will be presented on the subject of "Azotobacter and Its Significance in Soil Processes" during the afternoon of August 31 by the following: G. Guittonneau, Institute National Agronomique, France; C. K. Horner and Dean Burk, United States Department of Agriculture; H. W. Reuszer, Colorado Agricultural Experiment Station; R. L. Starkey, N. J. Agricultural Experiment Station; M. Winnik and M. Goldberg, Mikveh-Israel Experimental Station, Palestine. A conference will be held on "Legume Inoculants" under the direction of A. W. Hofer, of the N. Y. (Geneva) Agricultural Experi-

ment Station. Following the meetings, there will be an excursion on September 1 to some of the agricultural regions of New Jersey.

The meetings are being held in close cooperation with the third International Congress for Microbiology, which will be opened on September 2. Those wishing information concerning the program and arrangements should communicate with R. L. Starkey, Agricultural Experiment Station, New Brunswick, N. J.

THE SIXTH PACIFIC SCIENCE CONGRESS

THE sixth Pacific Science Congress will be held from July 24 to August 12 at Berkeley, Stanford University and San Francisco, California, under the auspices of the National Research Council. The general arrangements are in charge of the Committee on Pacific Investigations of the council. Responsibility for perfecting the program and for local arrangements has been assigned to a committee on the sixth Pacific Science Congress. In the detailed conduct of the congress, the committees in charge will be represented by an executive committee. Cooperating with these committees is the Department of the Pacific Area of the Golden Gate Exposition, 1939, of which Dr. Ray Lyman Wilbur, president of Stanford University, is chairman, and Philip N. Youtz, director.

Stanford University and the University of California will be the host institutions for the congress. The Golden Gate International Exposition will assist and cooperate with them. The sessions of the first period, from July 24 to August 5, will be held mainly at the University of California at Berkeley, which will provide meeting places. The sessions of the second period, from August 6 to 12, will be held at Stanford University.

Through the courtesy of the State Department of the United States, invitations to participate have been extended to forty-two countries which are either included in the Pacific area or have dominions, colonies, territories or dependencies within the area. Individual invitations have also been extended to many scientific men in these countries to contribute to the section programs. The following reports of standing committees authorized by the fifth Pacific Science Congress will be presented:

Oceanography of the Pacific, Thomas G. Thompson, *chairman*, professor of chemistry and director of Oceanographic Laboratories, University of Washington.

Volcanic Rocks, Patrick Marshall, *chairman*, vice-president, Royal Society of New Zealand; testing officer, Public Works Department, Wellington.

Blood Groups, L. T. Ride, *chairman*, professor of physiology, University of Hong Kong.

Protection of Nature, M. Miyoshi, *chairman*, professor of botany, emeritus, Imperial University of Tokyo, and Carl Skottsberg, *secretary*, professor of botany, University of Göteborg, and director of the botanical gardens.

Soil Survey and Classification, Boris B. Polynov, *chairman*, commission for the nomenclature, classification and mapping of soils, International Soil Science Association, Groningen, Netherlands.

Classification and Utilization of Land, W. C. Lowdermilk, *chairman*, chief, Research Division, U. S. Soil Conservation Service.

Forest Resources, D. Y. Lin, *chairman*, director of forestry, Ministry of Economic Affairs, Chungking, China.

Pacific Economic Entomology, Harry S. Smith, *chairman*, professor of entomology in the Citrus Experiment Station and Graduate School of Tropical Agriculture of the University of California, Riverside.

Mountain Structures, H. A. Brouwer, *chairman*, professor of geology and director of the Geological Institute, University of Amsterdam.

Seismology, Ernest A. Hodgson, *chairman*, seismologist, Dominion Observatory, Canada.

The special program is divided into eight sections as follows:

The Pacific Basin; structure and dynamics: geology and geophysics.

The Pacific Ocean; properties, dynamics, life: oceanography and marine biology.

Pacific climates, past and present.

Man and culture in the Pacific region; characteristics, dispersal and development, objectives and results of research: anthropology, human geography and ethno-botany.

Terrestrial fauna of the Pacific islands and bordering lands; characteristics, origin, distribution, human relations: animal sciences.

Terrestrial flora of the Pacific islands and bordering lands; characteristics, origin, distribution and human relations; plant sciences.

Public health and nutritional problems of the Pacific region; tropical medicine and nutrition.

Soil problems of the Pacific islands and bordering lands; characteristics, utilization, conservation.

The public sessions that have been arranged include one to be addressed by Dr. Beno Gutenberg, professor of geophysics and meteorology, California Institute of Technology; another by Dr. Elmer Drew Merrill, professor of botany at Harvard University, and a third by Dr. H. U. Sverdrup, director of the University of California Scripps Institution of Oceanography at La Jolla. A number of excursions are planned to points of scientific interest.