

The department of geology will work with the School of Public and International Affairs of the University and the Department of Politics of the University of Toronto in conducting a summer school for undergraduates studying the relation of natural resources to political and economic problems. The school will travel in the *Princeton*, a Pullman car especially constructed for living and study quarters. Besides doing field work in many parts of the Dominion, the members will hold conferences in the principal cities of Canada. Professor Richard M. Field will have charge of the expedition and will be assisted by Professor Erling Dorf, who will return from his studies in the West in time to join the school.

Dr. Alfred K. Snelgrove, who recently has been appointed consulting geologist for the Newfoundland Government, will investigate the mineral resources of Labrador and Newfoundland. Working in cooperation with experts of the Newfoundland Government, Dr. Snelgrove will study the gold prospects in that region.

Gilbert S. Espenshade, a graduate student, will lead an expedition on the Northeast Coast of Labrador to study pyrite deposits on Pilley's Island in Notre Dame Bay. On the west coast of the island John Cooper, also a graduate student, will continue his study, begun last summer, of the Blow-Me-Down Range. George R. Heyl, another graduate student, will examine the Appalachian Mountains on the northeast coast of the island, at the point they go into the sea.

Professor Arthur F. Buddington will continue his work of the last three years in the northwest part of the Adirondacks.

In the western part of the United States Professor Sampson will study the chromite deposits of the Stillwater District of Montana. Richard Fisher, a graduate student, will make a survey of deposits of copper, silver, vanadium, uranium and radium in parts of Oklahoma, Texas, Colorado, New Mexico and Utah.

Undergraduates in the department of geology will assist the professors and graduate students in each of the expeditions.

MERGER OF THE BUREAUS OF ENTOMOLOGY AND OF PLANT QUARANTINE

Two major units of the U. S. Department of Agriculture, the Bureau of Entomology and the Bureau of Plant Quarantine, have been merged into one, to be known as the Bureau of Entomology and Plant Quarantine, according to an announcement made by Secretary of Agriculture Henry A. Wallace. The new organization takes over from the Bureau of Plant Industry the activities on the control and eradication of five important plant diseases.

This consolidation, which went into effect on July 1,

will permit greater economy of administration in the search for better methods of insect pest control and in the regulatory work necessary to prevent the spread of plant pests and diseases. It also ensures better coordination and more effective direction of the various parallel lines of research and control activities.

Lee A. Strong, formerly chief of the Bureau of Plant Quarantine and since October 1 chief of the Bureau of Entomology, has been appointed chief of the new bureau. S. A. Rohwer, now assistant chief of the Bureau of Entomology, and Avery S. Hoyt, now assistant chief of the Bureau of Plant Quarantine, will be assistant chiefs. F. H. Spencer will be business manager. Dr. Karl F. Kellerman, formerly associate chief of the Bureau of Plant Industry, will have charge of the division devoted to the eradication and control of citrus canker, phony peach disease, Dutch elm disease, white pine blister rust and the stem rust of grains.

Research in the Bureau of Entomology and Plant Quarantine will cover studies on the life history and habits of beneficial as well as of injurious insects, with a view to developing practical methods for destroying injurious insects and for promoting the increase and spread of those found beneficial. The regulatory work, under the authority of the Federal Plant Quarantine Act, will include the enforcement of quarantines and restrictive measures to prevent the entry into, or the spread within, the United States of dangerous plant diseases and insect pests.

Under the new arrangement the different lines of work on related subjects, whether regulatory or research, are brought together in a single unit. The work of collection, introduction and clearing through quarantine of foreign parasites for the control of injurious insect pests has been placed in a single division under the direction of C. P. Clausen. The fundamental investigations to develop control methods by the use of insecticides, attractants and repellants have been brought together in the Division of Control Investigations, under Dr. Lon A. Hawkins. The Division of Household and Stored Product Insects, in the Bureau of Entomology, as such, has been discontinued, and the work has been assigned to other divisions. Studies on insects attacking stored products have been transferred to the divisions concerned with the insects that infest the same crops in the field. For example, investigations on dried fruit insects will be conducted by the Division of Fruit Insects. As the insects found in stored products are often hangovers from field infestations, such an arrangement is designed further to simplify and expedite the work. The investigations on household insects formerly assigned to this division have been transferred to the Division of Insects affecting Man and Animals, under the direction of Dr. F. C. Bishopp, who has long been in

charge of that division. All informational work has been brought together with the Insect Pest Survey and placed in the Division of Insect Pest Survey and Information, under the leadership of J. A. Hyslop.

The other research divisions of the Bureau of Entomology, the regulatory divisions of the Bureau of Plant Quarantine, and the field stations of both bureaus will remain about as they were.

APPOINTMENTS AT THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

THE Board of Scientific Directors of The Rockefeller Institute for Medical Research announces the election of Dr. Warfield Theobald Longcope as a member of the Board of Scientific Directors to succeed Dr. William H. Welch, deceased.

The following promotions and appointments are announced:

PROMOTIONS

Associate Member to Member, Dr. Leslie T. Webster.
Associate to Associate Member, Dr. Richard E. Shope
Assistant to Associate, Dr. Francisco Duran-Reynals, Dr. Kenneth Goodner, Dr. Geoffrey W. Rake.
Fellow to Assistant, Dr. Kenneth S. Chester, Dr. Erich Traub, Dr. Philip R. White.

NEW APPOINTMENTS

Associate Member, Dr. Max Bergmann.
Assistants, Dr. Donald C. Boughton, Dr. Jack Compton, Dr. James R. Dawson, Jr., Dr. Lee E. Farr, Dr. Delavan V. Holman, Dr. John G. Kidd, Dr. Colin M. MacLeod, Mr. William F. Ross, Dr. Thomas F. M. Scott, Dr. Joseph E. Smadel, Dr. Carl V. Smythe.
Fellows, Dr. Bacon F. Chow, Mr. Joseph S. Fruton, Dr. George I. Lavin, Dr. Charles V. Seastone, Jr., Dr. William Trager.

SCIENTIFIC NOTES AND NEWS

LORD RAYLEIGH, foreign secretary of the Royal Society, and Dr. Robert A. Millikan, of the California Institute of Technology, who retired on July 1 as foreign secretary of the National Academy of Sciences, will preside over a joint meeting in London of the International Union of Pure and Applied Physics and of the British Physical Society. The conference, held in response to an invitation from the Royal Society, will meet from October 1 to 6 at the Royal Institution. A visit to the Cavendish Laboratory of the University of Cambridge will be made on October 4.

COMMEMORATING the pioneer work in antitoxin of Dr. Henry Sewall, who conducted his experiments at the University of Michigan from 1882 to 1887, the Delta chapter of Delta Omega, national public health society, held a banquet at the Michigan Union on June 6, presenting to the university a bronze plaque honoring Dr. Sewall. In 1887 Dr. Sewall published a treatise on his work in immunizing animals against snake venom. The society also plans to publish a pamphlet containing a photostatic copy of the original treatise.

DR. EDWIN B. FRED, professor of bacteriology at the University of Wisconsin, has been appointed dean of the graduate school. He will succeed Professor Charles S. Slichter, who has been dean since 1920. Dean Slichter retired on July 1, having reached the age of seventy years. He has been appointed research adviser to the Graduate School and professor emeritus of mathematics.

Industrial and Engineering Chemistry states that Charles L. Reese, president of the American Chemical Society, has received the honorary degree of doctor of science from Wake Forest College, North Carolina. At the Johns Hopkins University he was made recently

a member of the honorary chemical society, Phi Lambda Upsilon, and the University of Virginia Chapter of Sigma Xi recently presented him with its key.

DR. CHARLES H. HERTY, director of the Division of Pulp and Paper Research of the Georgia Department of Forestry, has been awarded the Herty Medal of the Georgia Section of the American Chemical Society.

MEDALS for "eminent service" were presented at commencement by Amherst College to Arthur J. Hopkins, '85, retiring professor of chemistry, and to Eugene S. Wilson, of New York, vice-president of the American Telephone and Telegraph Company.

At the commencement exercises at Michigan State College on June 11, the honorary degree of doctor of science was conferred upon James Henry Kimball, of the U. S. Weather Bureau, New York City, in recognition of his contributions to science in the field of oceanic meteorology.

OKLAHOMA CITY UNIVERSITY conferred on June 1 the honorary degree of doctor of laws upon Charles Newton Gould, formerly director of the Oklahoma Geological Survey.

At its seventy-seventh annual commencement on June 11, Mills College conferred the honorary degree of doctor of laws upon Dr. Clelia D. Mosher, emeritus professor of personal hygiene at Stanford University.

PROFESSOR A. C. SEWARD, professor of botany at the University of Cambridge, has been elected a foreign member of the Royal Swedish Academy of Sciences.