

Geological Survey Commission of Finland, died on June 27, at the age of seventy-one years.

THE death is announced at the age of eighty-three years of Dr. J. P. van der Stok, director of the Section of Oceanography and Maritime Meteorology at the de Bilt Meteorological Institute, near Utrecht, in 1899-1923, formerly director of the Magnetic and Meteorological Observatory, Batavia.

A CORRESPONDENT writes from Canada: "Geological and academic circles will experience a great loss in the death of Dr. Stuart Raeburn Kirk, who died in Winnipeg, Manitoba, on May 15, 1934. Dr. Kirk

has been assistant-professor of geology in the University of Manitoba since 1927. During that time he served as field-officer for the Geological Survey of Canada and made some notable contributions on the stratigraphy of southwestern Manitoba. Dr. Kirk graduated from St. Andrews University, Scotland, in 1922. After securing his doctor's degree there in 1925, he studied under a Commonwealth Fund fellowship at Yale University from 1925 to 1927. Dr. Kirk had established an enviable reputation as a teacher and as a paleontologist and his death at the early age of thirty-four years is regretted in a large circle of friends and in the scientific world at large."

## SCIENTIFIC EVENTS

### KING GEORGE'S BIRTHDAY HONORS

THE King's birthday honors list, as recorded in *Nature*, includes the names of the following men of science and others associated with scientific work and development. *Baron*: Sir Hugo Hirst, chairman and managing director of the General Electric Company, Ltd. *G.B.E.*: Sir John Reith, director-general of the British Broadcasting Corporation. *K.B.E.*: Dr. F. G. Banting, Dominion of Canada, discoverer of insulin. *Knights*: Major R. G. Archibald, director of the Wellcome Tropical Research Laboratories, Sudan; A. W. Flux, honorary vice-president (past president) of the Royal Statistical Society; Albert Howard, lately agricultural adviser to the States in Central India and Rajputana; Dr. W. H. Moberly, vice-chancellor of the University of Manchester; Dr. C. E. Saunders, lately Dominion cerealist, Dominion of Canada, discoverer of Marquis, Ruby, Reward and Garnet Wheat; Professor G. Elliot Smith, professor of anatomy in the University of London (University College). *C.B.*: Dr. R. E. Stradling, director of Building and Road Research, Department of Scientific and Industrial Research. *C.M.G.*: A. C. Bagshawe, secretary of the Department of Agriculture and Lands, Southern Rhodesia; Professor R. S. Troup, director of the Imperial Forestry Institute and professor of forestry in the University of Oxford, for services to forestry in the Colonies. *C.I.E.*: F. Canning, chief conservator of forests, United Provinces; P. E. Aitchison, chief conservator of forests, Bombay Presidency; W. McRae, director and Imperial mycologist, Imperial Institute of Agricultural Research, Pusa. *C.B.E.*: Dr. W. L. Balls, chief botanist, Egyptian Ministry of Agriculture; L. St. L. Pendred, editor-in-chief of the *Engineer*; Dr. L. J. Spencer, keeper of minerals, British Museum (Natural History). *O.B.E.*: Dr. S. G. Barker, for research services to the Empire Marketing Board; A. D. Cotton, keeper of the Herbarium and Library,

Royal Botanic Gardens, Kew; Miss E. H. Ekins, principal of Studley Horticultural and Agricultural College for Women; Miss Annie Lorrain-Smith, for contributions to mycology and lichenology; Dr. C. Raeburn, assistant director of the Geological Survey Department, Nigeria. *M.B.E.*: F. G. Harcourt, curator of the Botanical Gardens and Agricultural Superintendent, Dominica, Leeward Islands; J. D. Kennedy, sylviculturist, Nigeria. *I.S.O.*: G. E. Greig, lately senior warden of mines, Federated Malay States.

### PRINCETON UNIVERSITY GEOLOGICAL EXPEDITIONS

THE department of geology of Princeton University will send out sixteen expeditions this summer to study various phases of geology in Canada, Newfoundland and parts of the United States, ranging from the Adirondacks to the mineral regions of Utah, according to an announcement made by Professor Edward Sampson.

The annual Scott Fund expedition is this year being divided into sections. One will continue research in the Big Horn Basin region in Montana. Dr. Glenn L. Jepsen and Professor William J. Sinclair will direct the division in work in vertebrate paleontology. Professor Erling Dorf will be at the head of the second section, which will examine the deposits of some of the earliest known fossil fish in the vicinity of Bear-tooth, Butte, Montana.

Under the leadership of Professor Benjamin F. Howell, another group will work near Denver on Cambrian faunas between there and the Red Lodge Basin region of Montana. Near Red Lodge Professor Howell will join Mr. Steven K. Fox, who will work on the Cretaceous stratigraphy of the Big Horn Basin, correlating events in Montana and Texas. Also, working in this neighborhood will be Professor William T. Thom, Jr., one of the directors of a large expedition doing general geological research in this district.

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