

- Ethnological and Sociological Study of the Pagan Galla of Western Abyssinia."
- R. MacLagan Gorrie, D.Sc., Indian Forest Service, "The Correlation of Erosion Damage and Grazing in Forest Lands."
- Miss M. M. Green, late Government Education Department, Nigeria, "Anthropological and Linguistic Research among the Ibo Tribe of Southern Nigeria." (Joint research with Mrs. S. H. Leith-Ross.)
- D. L. Hammick, fellow and tutor, Oriel College, Oxford, Leverhulme Research fellow, "Investigation on the Interaction of Nitrocompounds with Aromatic Bases and Hydrocarbons." (Renewal.)
- H. Stafford Hatfield, Ph.D., Leverhulme Research fellow, "The Behavior of Crystalline Substances in Electric and Magnetic Fields." (Renewal.)
- N. E. Odell, associate of the Royal College of Mines, geologist to the Louise A. Boyd Expedition to North-East Greenland, 1933. "An Investigation into the Structure and Metamorphism of the Franz Josef Fjord Region of North-East Greenland."
- W. H. Taylor, Ph.D., assistant lecturer in physics, University of Manchester, "The Application of the Method of X-ray Analysis to the Investigation of the Structures of Organic Compounds."

Grants in aid of research were made to C. R. P. Diver, M.A., Senior Clerk, House of Commons, "South Haven Peninsula Survey, Studland Heath, Dorset; (i) Physiography and history; (ii) Distribution of populations and ecology of several animal orders," and to Mrs. C. F. Tipper, D.Sc., research worker, University of Cambridge, "The plastic deformation of metals."

REORGANIZATION OF THE U. S. BIOLOGICAL SURVEY

CHANGES in the organization of the U. S. Biological Survey looking toward the more effective promotion of an active national movement toward wild-life restoration have been announced by J. N. Darling, chief of the bureau.

Consolidating the Division of Game and Bird Conservation and the Division of Predatory Animal and Rodent Control, a new unit, called the Division of Game Management, has been established. Under the leadership of Stanley P. Young, formerly head of the control unit, eight to twelve regional directors will administer game and other wild-life management throughout the states. Leaders of predatory and rodent control, refuge custodians, law-enforcement officers and other field agents will be responsible to the regional directors.

To keep the public acquainted with the accumulating facts and findings and with the activities of the survey, a Division of Public Relations has been established and has been placed in charge of H. P. Sheldon, formerly head of the Division of Game and Bird Con-

servation. In addition to giving attention to the press, the radio, public exhibits and public speakers, the new division will keep watch of the relations of the bureau with the various regions and states. It is planned to give more opportunity to investigators to write about their specialties. The Division of Public Relations includes a consolidation of the Office of Editorial and Informational Work and the Office of Exhibits, Photographs and Publication Distribution.

To promote a national migratory waterfowl program, Mr. Darling has established a new unit to be called the Division of Migratory Waterfowl. In charge of J. C. Salyer, of the University of Michigan, this division will plan for careful and thorough wild-life-refuge administration in the interests of the birds, the public and the sportsmen. Immediate objectives will be emergency acquisition of refuge areas with the special funds available, and the development of trained refuge custodians. For the present, however, existing refuges remain under the supervision of the Division of Game Management.

The duties and personnel of the Division of Administration have been amplified, placing the enlarged unit in charge of W. R. Dillon, formerly assistant in the Division of Game and Bird Conservation.

SEARCH FOR PLANTS TO CONTROL SOIL EROSION

PLANT explorers of the U. S. Department of Agriculture are now making an intensified search at home and abroad for plants that will help to control soil erosion. Two parties are abroad—one in Russia and one in Japan—and other parties will search the western half of the United States.

H. L. Westover and C. R. Enlow will visit Russian Turkestan, Persia and Afghanistan, looking for all kinds of soil-holding plants which show possibilities for the Southwestern United States. Five years ago Mr. Westover spent a year in Turkestan and Persia and brought back several strains of wilt-resistant alfalfa which are being used to build up resistance to this disease in our domesticated alfalfas.

The Russians, according to Knowles A. Ryerson, chief of the Bureau of Plant Industry, have a highly developed program of plant introduction under the direction of N. I. Vavilov, who is also head of the Agricultural Academy at Leningrad. A party of Russian horticulturists has been in the United States since the first of the year, studying our citrus industry. Two years ago when the department had two men in South America for a few months searching for disease-resistant potatoes to use in breeding work the Russians had several men there for a year for the same purpose. The second party of foreign plant explorers, including H. G. MacMillan, a veteran plant explorer, and J. L.

Stephens, a forage crops specialist, is now in Japan. They expect to cover as much territory in the Far East as possible during the next eighteen months. They will search for plants in the fringes of the Hingan Mountains, a region which has never been explored for grasses. Frank Meyer, of the department, was there many years ago in search of fruits. Because of the extremes in temperature in this region it is hoped that the search will yield promising plants. While both groups will be particularly interested in plants that can be used to prevent soil erosion, they will also collect seeds and fruits of any other plants, especially promising trees and shrubs.

The hunt for useful wild plants in the United States is the first correlated effort to make the beginning on a nation-wide inventory of our own unused plants. For this reason it is hoped that valuable plants may be found in the United States. Workers at the state experiment stations and those employed by the Department of Agriculture have frequently discovered and domesticated valuable wild plants, but such work has been incidental. One party of ten trained botanists is at work in Washington and Oregon. Another group will soon begin work in Arizona and New Mexico. Other parties will work in Texas and Oklahoma and in North Carolina and Tennessee.

THE CLEVELAND MEETING OF THE AMERICAN CHEMICAL SOCIETY

MORE than 2,000 chemists and representatives of allied fields of science and industry will participate in the eighty-eighth meeting of the American Chemical Society to be held in Cleveland, from September 10 to 14, under the presidency of Dr. Charles L. Reese, of Wilmington, Del. The keynote of the meeting will be "Chemistry Catalyzes Commerce."

Progress in practically every field of chemistry will be reported in hundreds of papers, addresses and reports to be presented before various divisions. Leading industries, universities and technical schools, state and government services and private laboratories will send delegates.

The dramatic advances of chemistry during the depression will be set forth by well-known investigators. The sessions will deal with public health and sanitation, with gas and fuel, chemical education, rubber, medicine, fertilizers, industrial and engineering chemistry, petroleum, sugar, water supply, biological chemistry, cellulose, leather and gelatin and numerous other fields of pure and applied science.

The opening meeting, according to the preliminary program, will take place on Monday, September 10, at the Cleveland Hotel, when Professor Robert E. Swain, of Stanford University, will deliver an address on "Chemistry during the Depression." N. K. Chaney, V. C. Hamister and S. W. Glass, of the National Carbon Company, will speak on "Constants of Carbon at Arc Temperatures." Dr. J. R. Katz, of the Scheikundig Laboratorium of the University of Amsterdam, will present a paper on "X-Ray Spectrography of Swelling" and Dr. J. C. Hostetter, of the Corning Glass Works, will discuss "The Technic of Making Large Telescope Mirrors."

The Division of Agricultural and Food Chemistry, of which Dr. Donald K. Tressler, of Geneva, N. Y., is chairman, will hold a joint symposium with the Division of Biological Chemistry on "Chemistry of the Enzymes."

A symposium on "Modernizing the Course in General Chemistry" will be sponsored by the Division of Chemical Education, of which Professor R. A. Baker, of the College of the City of New York, is chairman. Educators from all over the country will participate in the discussion. Teachers from Cleveland and other cities in Ohio will present papers on the need of re-directing chemical education in schools and colleges.

Dr. W. H. McAdams, of the Massachusetts Institute of Technology, will preside at a symposium under the auspices of the Division of Industrial and Engineering Chemistry. A symposium by the Division of Medicinal Chemistry is being arranged by the chairman, Dr. Paul Nicholas Leech, of Chicago. Joint sessions are scheduled by the Division of Organic Chemistry and the Division of Physical and Inorganic Chemistry. Dr. C. S. Hudson, of Washington, D. C., is chairman of the Organic Division, and Professor Donald H. Andrews, of the Johns Hopkins University of the Physical and Inorganic Division.

The Division of Gas and Fuel Chemistry, headed by Dr. Harold J. Rose, of the Mellon Institute, Pittsburgh, is planning an extensive program, Cleveland being the center of leading research laboratories engaged in this field. The symposium before this division will be on the "Properties of Coal."

Friday, September 14, will be Akron Day. Members of the societies will visit Akron in a body to inspect the rubber and other industries under the direction of the Akron Section, of which G. K. Hinshaw is chairman.

SCIENTIFIC NOTES AND NEWS

DR. DAVID WHITE, of the U. S. Geological Survey, has been awarded the Boverton Redwood Medal by the Institution of Petroleum Technologists in London.

THE honorary degree of doctor of laws was conferred by the University of Edinburgh on June 28 on Dr. Theobald Smith, emeritus member of the Rocke-