

tions," the report points out, "are derived from surplus of income or capital, but in these days it seems to be the deliberate intention of government to abolish surplus by excessive taxation. It is like planning to get water for irrigation, or power to generate electricity, by draining the great federal dams." The need of a substantial increase in the permanent endowment funds is emphasized.

EXPEDITIONS OF THE SMITHSONIAN INSTITUTION

REPORTS of nineteen expeditions, extending from Mexico to Siberia and from Peru to north Greenland, of the Smithsonian Institution during the past year are published in the recently issued annual Explorations Report. The expeditions were for the purpose of both gathering specimens of plants, animals, minerals and fossils for the national collections and for field study of scientific problems.

Dr. W. F. Foshag collected minerals in the mining districts of Mexico, particularly at the Ojuela mines in Durango, where a single mine is reported to contain more than 200 miles of tunnels. A hunt for dinosaurs and extinct mammals was conducted by Dr. C. Lewis Gazin in central Utah. Dr. William M. Mann, director of the National Zoological Park, describes his adventures in bringing a cargo of living animals from the Argentine. Among his specimens were some not previously seen in this country. Dr. Alexander Wetmore (assistant secretary of the institution, collected birds in southern Mexico. Dr. Leonard P. Schultz, curator of fishes, accompanied a U. S. Navy expedition to the Phoenix and Samoan Islands. He collected approximately 90 varieties of fish from a lagoon in the center of the coral-built Canton Island. Among these was a type of trumpet fish extremely rare in collections. Eleven days on Rose Atoll, another coral-built island of the Phoenix group, resulted in the capture of a hundred varieties of fishes, besides corals, mollusks, invertebrates and many birds. In a single day on another atoll, Tau Island, he obtained 800 fishes belonging to 90 different species.

Dr. Waldo L. Schmitt, curator of marine invertebrates, describes his collecting activities along the northern coast of South America as a member of the G. Allen Hancock 1939 expedition. Many specimens were collected on the island of Tobago, the locale of Robinson Crusoe.

Specimens of marine life were collected in Arctic waters by Captain Robert A. Bartlett. The collection included five specimens of the very rare 10-armed starfish. Only five specimens hitherto had been known, all in European museums.

A large collection of the flora of Colombia was made by Ellsworth P. Killip, associate curator of plants. His expedition covered especially the little-

explored Pacific littoral, including the western slope of the Cordilleras. Mr. Killip also spent three weeks in the interior of the Choco, the forested region extending to the Panama border of Colombia. Altogether more than 11,000 specimens were collected.

Dr. Aleš Hrdlička, curator of physical anthropology, spent the summer examining specimens in anthropological museums in Russia and Siberia and in examining archeological sites.

In addition to these voyages outside the limits of the United States, there were several archeological and collecting expeditions in this country. Notable among those was that of Dr. Frank H. H. Roberts, Jr., who sought for remains of the earliest known inhabitants of North America in Colorado. Another project carried out by Dr. T. D. Stewart was the excavation of a Potomac River town closely associated with the life of Pocahontas.

RESEARCH GRANTS OF THE AMERICAN COLLEGE OF DENTISTS

THE Research Fellowship Board of the American College of Dentists has made the following grants for the year 1940-41.

\$100 to H. R. Hunt and C. A. Hoppert, Michigan State College, to continue a study on "Inheritance in Rat Caries."

\$500 to Albert H. Kniesner, Dental School, Western Reserve University, to conduct an investigation of "The Factors in Saliva which Influence the Growth of *L. acidophilus* and are Indicative of the Presence or Absence of Dental Caries."

\$1,200 to Sidney B. Finn, School of Medicine and Dentistry, University of Rochester, for an investigation of "The Effect of Applications of Sodium Fluoride in Preventing and Controlling Dental Caries in Children."

\$500 to Samuel Seltzer, Dental School, University of Pennsylvania, for "An Investigation of the Anti-Bacterial Action of Drugs which have been Recommended for Cavity Sterilization."

\$400 to M. L. Tainter, of the School of Dentistry, College of Physicians and Surgeons, San Francisco, for an "Investigation of the General Problems Involved in the Evaluation of the Abrasiveness of Dentifrices and their Individual Constituents."

\$500 to James Nuckolls, School of Dentistry, University of California, for an "Investigation of the Primary Centers of Lobular Development, Growth and Calcification in the Tooth."

\$500 to Balint Orban, School of Dentistry, Northwestern University, to continue an investigation of "Wound Healing after Different Methods of Gingivectomy and Post-operative Treatment."

\$100 to William J. Furuta, School of Dentistry, University of California, for a "Histologic Study of the Effect of Various Mineral Deficiencies on Dental and Oral Structures in Animals."