

### RARE CHEMICALS

THE following chemicals are wanted by the National Registry of Rare Chemicals, Armour Research Foundation, 33rd, Dearborn and Federal Streets, Chicago, Ill.:

1. Quinoline 2 Carboxylic Acid (Quinaldic Acid)
2. 2,4,5,7-Tetranitrol-1,8-dihydroxyanthraquinone
3. Tetraphenyl arsonium chloride
4. Salicylanilide
5. Salicylchloride
6. 5,15 dihydroxy palmitic acid
7. Tetramethylene Glycol
8.  $\beta,\beta$ -Dialkylphenylethylamine or its derivatives
9. Lead Tetra-acetate
10. 1-3 Cyclohexadiene
11. 1-4 Cyclohexadiene
12. Purpurogallin
13.  $\beta$ -Cyclocitral
14. Lead Catechol (1 lb.)
15. Myricin
16. o-Hydroxy Phenyl Mercuric Chloride
17. Cholestenone
18. Glyoxylic Acid

### EXPEDITION EXHIBITION OF THE NEW YORK ZOOLOGICAL SOCIETY

IN the Zoological Park the New York Zoological Society has opened a two months' exhibition of the methods of initiating and carrying on a scientific expedition to the tropics. It represents the work of the Department of Tropical Research, and was prepared by the director, Dr. William Beebe, and Jocelyn Crane, research zoologist. It is concerned with the forty-third expedition of the department, which spent seven months in the field at Caripito, Venezuela.

Among the exhibits shown are lists of materials, methods of transportation and complete outfits for shooting, photographing and observing; all the steps from the capture of a *Urania* moth to its final publication as a color plate; and from the excavation of Cichlid fish from mud in the dry season to their incorporation in a technical article in *Zoologica*; the flocking of thousands of moths to the gigantic Standard Oil flares in the jungle; various uses of color and pattern in wild jungle life and an exhibit of old volumes dealing wholly or in part with wild creatures in Venezuela and Guiana, such as original Linnaeus, Sir Walter Raleigh, Ulloa, Humboldt, Merian, Stedman and Rohl.

An important section of the exhibit is a series of cases under the heading: "Are You Lost in the Jungle? Whether you are Scientist or Soldier, your Problems are the Same." Then follow three divisions: "Are You Afraid? Are You Hungry? Where is Camp?"

Here, supposing that the soldier or scientist has nothing but his bare hands, actual specimens or pho-

tographs and elaborate labels demonstrate his real and imaginary dangers, from *Anopheles*, perai fish, bushmasters and water buffalo, on the one hand, to tarantulas, false coral snakes, vampires and electric eels on the other. Also are shown deadly stagnant and clear jungle water, safe twice-boiled or chemically purified water and potable frog juice.

Under the hunger section is an exhibit of edible creatures from grubs to manatees which can be caught with the bare hands, together with possible foods, such as termites, snails, lizards and snakes, with methods of preparation for eating raw or cooking.

The more simple means for finding one's way when lost are demonstrated, such as use of the sun, Southern Cross, butterfly migration and the circling of a handkerchief on a tall sapling.

W. B.

### BOTANICAL SURVEY OF THE ALCAN HIGHWAY

DR. HUGH M. RAUP, of the Arnold Arboretum of Harvard University, and party left Boston on May 30 for a summer's work in the field along the Alcan Highway. The party consists of Dr. and Mrs. Raup and their two children; Dr. Donovan S. Correll, a member of the staff of the Botanical Museum, Harvard University, assistant botanist, and Dr. Charles S. Denny, of Wesleyan University, geologist.

This is Dr. Raup's ninth expedition to northern Canada. The objective is a general botanical survey of the Alcan Highway, which has opened up vast areas that have never been explored botanically. Particular attention will be given to the description of immediately usable botanical resources in the vicinity of Army posts and in areas of potential settlement. The field work is being done with the cooperation of the National Museum of Canada, the Joint Economic Committees, Canada-United States, and the Army Authorities.

Field expenses of the party are covered by grants from the Milton Fund of Harvard University, the General Purpose Fund of the American Academy of Arts and Sciences, the Bache Fund of the National Academy of Sciences, the Penrose Fund of the Geological Society of America and from the general income of the Arnold Arboretum.

E. D. MERRILL

### THE OPTICAL SOCIETY OF AMERICA

THE twenty-eighth annual meeting of the Optical Society of America, according to the preliminary announcement, will be held in Pittsburgh, Pa., on October 7, 8 and 9. The program will include symposia on spectroscopy, spectrochemical analysis and astronomy, in addition to the usual contributed papers.

A conference on spectroscopy and its applications