

Chapter XII. Experimental courses in mathematics. By Raleigh Schorling.

Chapter XIII. Standardized tests in mathematics for secondary schools. By C. B. Upton.

Chapter XIV. The training of teachers of mathematics. By R. C. Archibald.

Chapter XV. Certain questionnaire investigations.

Chapter XVI. Bibliography on the teaching of mathematics. By D. E. Smith and J. A. Foberg.

#### THE BRITISH COLUMBIA EXPEDITION OF THE UNIVERSITY OF CALIFORNIA

AN expedition sent out by the University of California Museum of Vertebrate Zoology returned from northern British Columbia in the latter part of October. The party consisted of Harry S. Swarth, curator of birds; one assistant, William D. Strong, and local packers. Five months were spent in exploration of the valley of the upper Skeena River and in collecting series of the birds and mammals of the region. Over one thousand specimens were secured.

The summer's work was in continuance of a general plan, under way through a period of years, which has necessitated zoological exploration in various parts of British Columbia and Southeastern Alaska. This work was inaugurated and has been continually supported by Miss Annie M. Alexander, her interest leading her to participate personally in several of the expeditions. It has resulted in the acquisition by the museum of large collections of vertebrate materials and a store of detailed information, much of it new, regarding the animal life of the northwest coast region.

In the localities in which the last two seasons' field work was spent (the valley of the Stikine River in 1919, the Skeena River in 1921), the distribution of animal species is of particular interest. The section represented serves as a meeting ground between the faunas of eastern North America, the Pacific Coast humid strip, and the Yukon region to the northward. It thus affords exceptional opportunities for the study of the geographic behavior of the species involved. Hence, in the field work pursued, stress was laid upon the distribution of species, and collections were made showing the contrasts existing between mountain top and valley, and between coast and interior.

#### BACHE FUND OF THE NATIONAL ACADEMY OF SCIENCES

DR. HEBER D. CURTIS has been elected a member of the board of directors of the Bache Fund of the National Academy of Sciences in place of Dr. E. B. Frost, resigned. The board is at present constituted as follows: Professor A. G. Webster, Clark University, Worcester, Massachusetts; Dr. Heber D. Curtis, Allegheny Observatory, Pittsburgh, Pennsylvania; and Professor Ross G. Harrison, Yale University, New Haven, Connecticut.

Applications for grants will be considered semi-annually and should be filed with the board not later than April 1 or October 1 of each year.

The following grants have been recently made:

H. Nort, Gouda, Holland, \$200. For counting the stars on the Franklin-Adams Charts.

H. S. Jennings, Johns Hopkins University, \$300. For a study of the cytology of the rhizopods with relation to the genetics and development of these organisms.

H. M. Evans, University of California, \$500. For the investigation of the oestrous cycle in the rabbit and cat.

Carl Hartman, University of Texas, \$500. For the study of the oestrous cycle of the opossum.

William Bowie, U. S. Coast and Geodetic Survey, \$250. For the work of the Ukiah Latitude Station.

#### SCIENTIFIC NOTES AND NEWS

FRIENDS of Professor Chandler presented in 1910 to Columbia University a sum of money which constitutes the Charles Frederick Chandler Foundation. The income from this fund is used to provide a lecture by an eminent chemist and to provide a medal to be presented to the lecturer in further recognition of his achievements in science. Previous lecturers on this foundation have been L. H. Baekeland, W. F. Hillebrand, W. R. Whitney, and F. Gowland Hopkins. The lecturer this year will be Edgar Fahs Smith, president of the American Chemical Society, formerly professor of chemistry and provost of the University of Pennsylvania. Dr. Smith's subject will be "Samuel Latham Mitchill—A Father in American Chemistry." Mitchill was the first professor of