

useful feature of the list is the citation in every case of the time and place of publication, and the name of the publisher.

MONTANA BOTANY.

WITHIN the past few months Professor Blankinship has published numbers 1, 2 and 3 of the 'Montana Agricultural College Science Studies,' including three botanical papers of much more than usual interest. The first of these, 'A Century of Botanical Exploration in Montana,' includes a chronological list of seventy-four collectors who have worked in the state, beginning with Meriwether Lewis, of the Lewis and Clarke expedition in 1805 and 1806, and ending with Millie M. Smith and Arthur Lehman in 1904. The bibliography includes eighty-three titles.

The second paper is a 'Supplement to the Flora of Montana,' and includes additional species, and corrections of the list given in Dr. P. A. Rydberg's 'Catalogue of the Flora of Montana and the Yellowstone National Park' (Memoirs N. Y. Bot. Gard., 1900). There are about three hundred and eighty-six additions, seventy-eight corrections and twenty-eight new species and varieties. Apparently the author has been conservative in his treatment of both old and new species, and apparently the corrections have been made with care. This list is a valuable and notable addition to our knowledge of Montana flowering plants, and must prove very helpful when the descriptive botany of the region comes to be written.

The third paper consists of lists of the common names of Montana plants. Every plant is entered twice, once alphabetically under its common name, and again in a similar list in which the scientific names are arranged alphabetically. It is a valuable contribution to the botany of common names, and serves very well to show how variable and unreliable such names are.

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THE MAGNETIC SURVEY OF THE PACIFIC OCEAN: SECOND CRUISE.

THE Yacht *Galilee*, engaged in the magnetic survey of the Pacific Ocean under the

auspices of the Carnegie Institution of Washington, left San Diego, California, on March 2, to enter upon her second cruise. She is expected to make the following circuit of about 20,000 miles by the end of this year: San Diego, Fanning Islands, Samoan Islands, Fiji Islands, Marshall Islands, Guam, Yokohama, Aleutian Islands and back again to San Diego.

It was necessary to reorganize the scientific personnel as those of the former staff belonging to the U. S. Coast and Geodetic Survey were obliged to return to their official duties at the expiration of their furloughs. The command of the vessel has accordingly now been entrusted to Mr. W. J. Peters, formerly of the astronomical and topographical corps of the U. S. Geological Survey. He has had considerable experience in difficult geographical work, was second in command and in charge of the scientific work of the recent Ziegler Polar Expedition as the representative of the National Geographic Society.

In connection with the latter expedition, Mr. Peters made a valuable series of magnetic, meteorological and tidal observations at Teplitz Bay, Franz Joseph Land.

The other members of the present staff are: Mr. J. P. Ault, magnetic observer (likewise a member of the former staff), Mr. J. C. Pearson, magnetic observer (formerly instructor of physics at Bowdoin College) and Dr. H. E. Martyn, surgeon and recorder. The sailing master is Captain J. T. Hayes. While the vessel was at San Diego some additional changes and improvements were made both in the ship and in the instruments employed. Sufficient funds have been allotted so as to permit carrying on this work continuously throughout the year.

L. A. BAUER.

DEPARTMENT TERRESTRIAL MAGNETISM,

March 10, 1906.

UNIVERSITY CONTROL.

IN the colleges from which our universities have developed the problem of administration was comparatively simple. The faculty and the president met weekly and consulted daily; each was familiar with the work of the entire