

Hovey, of Dr. Salvatore Lo Bianco's detailed account of the methods employed at the Naples aquarium for preserving invertebrates. The many who have admired the beautiful specimens sent out from that institution will be glad to have this paper, although it is evident that the factor of patience must enter largely into most of the processes described. The article is prefaced by a brief account of the aquarium and its work.

THE publication is announced by Archibald Constable & Co., of a *Physical Atlas*, prepared under the direction of Mr. J. G. Bartholomew, of the Edinburgh Geographical Institute. The work will be in seven volumes as follows: I. Geology; II. Orography, Hydrography and Oceanography; III. Meteorology; IV. Botany; V. Zoology; VI. Ethnography and Demography; VII. General Cosmography and Terrestrial Magnetism. The atlas of Berghaus will to a certain extent be used, but the plates will be larger in size and special attention will be paid to phenomena of interest to English and American students. The volume on meteorology is promised for the present year and the others are expected to follow in rapid succession.

BOOKS RECEIVED.

Statistics and Economics. RICHMOND MAYO-SMITH. New York and London, The Macmillan Company. 1899. Pp. xiii+467. \$3.00.

The Principles of Differential Diagnosis. FRED. J. SMITH. New York and London, The Macmillan Company. 1899. Pp. ix+353. \$2.00.

Résistance électrique et fluidité. GOURÉ DE VILLEMONTÉE. Paris, Gauthier-Villars. 1899. Pp. 188. 3 fr.

Essais des huiles essentielles. HENRI LABBÉ. Paris, Gauthier-Villars. 1899. Pp. 108.

Le café culture—manipulation, production. HENRI LECOMTE. Paris, Georges Carré and C. Naud. 1899. Pp. vi+334. 5 fr.

SCIENTIFIC JOURNALS AND ARTICLES.

THE *National Geographic Magazine* for October opens with an illustrated article on 'Life on a Yukon Trail,' by Professor Arthur P. Dennis, of Northampton, Mass. Mr. Gifford Pinchot, the Forester of the U. S. Department of Agriculture, in an illustrated paper, 'The Relation of Forests and Forest Fires,' describes

the effect of forest fires as modifiers of the composition and mode of life of the forest. A. J. Henry, Chief of the Division of Records, U. S. Weather Bureau, contributes a study of the fluctuations in the surface level of the Great Lakes, especially interesting at the present time owing to the near completion of the Chicago drainage canal. The contents of the number also include 'Tides of Chesapeake Bay,' by E. D. Preston; 'Calculations of Population in June, 1900,' by Henry Farquhar, a paper read before Section I. of the American Association for the Advancement of Science, Columbus, August 22d; 'Peary's Work and Prospects,' by H. L. Bridgeman, Secretary of the Peary Arctic Club. There are a number of briefer articles, 'Peary's Explorations in 1898-1899,' 'The Definite Location of Bouvet Island,' and 'The California and Nevada Boundary.'

Bird Lore for October has for its opening article an account of the origin and work of 'The American Ornithologists' Union,' by J. A. Allen, accompanied by a plate showing the founders of the society, comprising some of the men whose names are familiar to every student of American ornithology. 'American Bitterns' consists of two plates of the young, one and two weeks old, from photographs by E. H. Tabor and F. W. Chapman. Henry Van Dyke contributes a poem 'The Angler's Reveille,' Robert W. Hagner an article on 'The Prairie Horned Lark,' and C. F. Hodge notes 'A Pleasant Acquaintance with a Hummingbird.' H. M. Collins describes 'A Peculiarity of a Caged Skylark,' and Anna Harris Smith and C. F. Hodge describe 'The Ethics of Caging Birds.' Isabella McC. Lemmon writes of 'Oliver Twist, Catbird,' for young observers, and there are numerous notes and book reviews. Under the section devoted to Audubon Societies the wearing of quill feathers of the eagle and pelican is justly deprecated, and fac-simile and sketch of Audubon's seal, the wild turkey, is given.

DISCUSSION AND CORRESPONDENCE.

THE PROPOSED CARD CENTRALBLATT OF PHYSIOLOGY.

TO THE EDITOR OF SCIENCE: The volume of scientific literature is increasing at a rate that