

SCIENCE.

EDITORIAL COMMITTEE : S. NEWCOMB, Mathematics ; R. S. WOODWARD, Mechanics ; E. C. PICKERING, Astronomy ; T. C. MENDENHALL, Physics ; R. H. THURSTON, Engineering ; IRA REMSEN, Chemistry ; JOSEPH LE CONTE, Geology ; W. M. DAVIS, Physiography ; O. C. MARSH, Paleontology ; W. K. BROOKS, Invertebrate Zoölogy ; C. HART MERRIAM, Vertebrate Zoölogy ; N. L. BRITTON, Botany ; HENRY F. OSBORN, General Biology ; H. P. BOWDITCH, Physiology ; J. S. BILLINGS, Hygiene ; J. MCKEEN CATTELL, Psychology ; DANIEL G. BRINTON, J. W. POWELL, Anthropology.

FRIDAY, MAY 10, 1895.

CONTENTS :

<i>Current Notes on Physiography (VI.)</i> : W. M. DAVIS	505
<i>Notes on Agriculture (II.)</i> : BYRON D. HALSTED	509
<i>Lagoa Santa</i> : ERWIN F. SMITH	510
<i>The Progress of Paronymy</i> : BURT G. WILDER	515
<i>The Marine Biological Laboratory</i>	516
<i>The Generic Names of the Three-toed Echidna</i> : T. S. PALMER	518
<i>Correspondence</i> :—	519
<i>Spectroscopic Observations of Saturn at the Allegheny Observatory</i> : JAMES E. KEELER. <i>A General Subject-Index to Periodical Scientific Literature</i> : EDWARD S. HOLDEN.	
<i>Scientific Literature</i> :—	522
<i>Rothpletz' Ost-Alpen</i> : ANDREW C. LAWSON. <i>Yokoyama's Mesozoic Plants</i> : WM. M. FOUNTAINE. <i>Arnold's Chemistry</i> : EDWARD H. KEISER. <i>Gray's Botany</i> : N. L. B. Botanical: JOSEPH F. JAMES.	
<i>Notes and News</i> :	528
<i>Societies and Academies</i> :—	531
<i>The Biological Society of Washington</i> ; <i>The Boston Society of Natural History</i> .	
<i>Scientific Journals</i> :—	532

MSS. intended for publication and books, etc., intended for review should be sent to the responsible editor, Prof. J. McKeen Cattell, Garrison on Hudson, N. Y.
Subscriptions and advertisements should be sent to SCIENCE, 41 N. Queen St., Lancaster, Pa., or 41 East 49th St., New York.

CURRENT NOTES ON PHYSIOGRAPHY (VI.)

SURFACE CURRENTS OF THE GREAT LAKES.

A REVISED edition of the atlas of 'Surface Currents of the Great Lakes,' as deduced from the movements of bottle papers during the seasons of 1892, 1893 and 1894, by Professor M. W. Harrington, has lately been issued as Bulletin B of the Weather Bureau.

The text describes the method of study, and gives tables of the prevailing winds of the lake-port stations and a list of recovered bottles, 672 being found out of nearly 5000 floated. The chief drifts are: eastward along the south side of Superior, westward along the north side; south along the west side of Michigan and Huron, north along the east side; generally eastward in Erie and Ontario. Many irregular movements are noted, especially near shore. Local and transient currents, formed during severe gales, are sometimes strong enough to drag vessels from their moorings. "There also occurs, occasionally, on the Great Lakes a phenomenon which may be called a *seiche*, namely, a wave of considerable height which travels unaccompanied by other waves, and is seen by navigators as a white wall approaching and rapidly passing them." Following the use of the term *seiche* on the Swiss lakes, where it originated, it would be more properly applied to the rise and fall of the water on the shore, in periods of generally less than an hour; these being well known at our Lake ports, but as yet very little studied. These white-walled waves also call for investigation.

BUCHAN'S CHALLENGER REPORT ON OCEANIC CIRCULATION.

THE latest volume of the Challenger reports contains thirty-eight pages of text and sixteen maps, prepared by Dr. Alexander

Science

1 (19)

Science 1 (19), 505-532.

ARTICLE TOOLS

<http://science.sciencemag.org/content/1/19.citation>

PERMISSIONS

<http://www.sciencemag.org/help/reprints-and-permissions>

Use of this article is subject to the [Terms of Service](#)

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title *Science* is a registered trademark of AAAS.