

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 ; J. LE CONTE, Geology ; W. M. DAVIS, Physiography ; O. C. MARSH, Paleontology ; W. K. BROOKS, Invertebrate Zoölogy ; C. HART MERRIAM, Vertebrate Zoölogy ; S. H. SCUDDER, Entomology ; 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, NOVEMBER 29, 1895.

CONTENTS :

<i>Meteorology in the University</i> : CLEVELAND ABBE.....	709
<i>Geologic Atlas of the United States</i>	714
<i>American Fossil Brachiopoda</i> : CHARLES SCHUCHERT.....	722
<i>Astro-photographic Work to be carried out at Columbia College Observatory</i> : HAROLD JACOBY.....	724
<i>Current Notes on Anthropology (XIII.)</i> :— <i>Ancient Metal Industry in the Caucasus ; Alleged Western Origin of Chinese Culture ; A New Theory about the Mediterranean Race ; Prehistoric Trephining in Russia</i> : D. G. BRINTON.....	726
<i>Current Notes on Physiography (XIX.)</i> :— <i>A Limestone Desert in the Alps ; Morainic Amphitheater of Ivrea ; The Deforesting of Mountains</i> : W. M. DAVIS.....	727
<i>Scientific Notes and News</i> :— <i>Winter Meetings of the Scientific Societies ; Field Work in Geology in the University of Kansas ; The Biological Experiment Station of the University of Illinois ; Snakes in Oregon ; General</i>	728
<i>University and Educational News</i>	732
<i>Discussion and Correspondence</i> :— <i>Experimental Psychology in America</i> : G. STANLEY HALL. <i>The Brehm Cuts Again</i> : ELLIOTT COUES. <i>Quaternions</i> : VICTOR C. ALDERSON.....	734
<i>Scientific Literature</i> :— <i>Harrop and Wallis' The Forces of Nature ; Houston and A. S. Kennelly's Alternating Electric Currents. The Magnetic Resurvey of Austria and Hungary</i> : L. A. BAUER. <i>Crosby's Tables for the Determination of Common Minerals</i> : LEA MCL. LUQUER. <i>Castillo's Fauna fossil de la Sierra de Catorce, en San Luis Potosi</i> : J. B. WOODWORTH. <i>An Introduction to General Biology</i> : T. H. MORGAN.....	736
<i>Scientific Journals</i> :— <i>American Chemical Journal</i> : J. ELLIOTT GILPIN	741
<i>Societies and Academies</i> :— <i>New York Academy of Sciences, Biological Section</i> : BASHFORD DEAN. <i>The Torrey Botanical Club</i> : H. H. RUSBY. <i>National Geographic So-</i>	

ciety of Washington : W. F. M. *Geological Conference of Harvard University. Academy of Science, St. Louis* : A. W. DOUGLAS.....742

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.

METEOROLOGY IN THE UNIVERSITY.*

THE atmosphere presents to us a purely material and mechanical aspect, and it is this which rivets the attention of the physicist properly so-called. He views the storm thundering over his head, the floods devastating the earth, the droughts destroying the crops, the hurricane lashing the ocean, and asks, is there not order and law in the midst of this confusion? It is for such a physicist, for the meteorologist proper, for him who would understand the daily weather map and would predict the weather from day to day on a rational basis, as the engineer predicts the performance of his unbuilt engine or the chemist the behavior of some novel untried combination, that I would plead. Such a student needs a collegiate course that shall fully recognize dynamic meteorology as one of the subjects in which candidates for the degree of 'Doctor of Philosophy' may prepare for examination. Thus you will solve the problem as to what

*An extract from a report presented in 1893 to President Seth Low, of Columbia College, recommending the establishment of courses in meteorology and a meteorological laboratory in connection with the University.