

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, C. HART MERRIAM, Zoology; 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, APRIL 23, 1897.

THE INHERITANCE OF ACQUIRED CHARACTERISTICS.*

CONTENTS:

<i>The Inheritance of Acquired Characteristics</i> : E. D. COPE	633
<i>Organic Selection</i> : J. MARK BALDWIN.....	634
<i>What is a Type in Natural History?</i> CHARLES SCHUCHERT.....	636
<i>The Fauna of Central Borneo</i> : GEORGE R. STETSON.....	640
<i>Sermon on the Monotremes</i> : J. H. MCG.....	643
<i>Notes on French Geography</i> : F. P. GULLIVER.....	644
<i>Current Notes on Physiography</i> :—	
<i>Is Green River Antecedent to the Uinta Mountains?</i>	
<i>Santa Catalina Island, Cal.</i> ; Notes: W. M. DAVIS.....	647
<i>Current Notes on Meteorology</i> :—	
<i>Winter Storms on the Coast of China: The 'Iltes' Typhoon; Angot's 'The Aurora Borealis.'</i> R. DEC. WARD.....	649
<i>Current Notes on Anthropology</i> :—	
<i>The Jewish Physical Type; On Wampum Records; The Otomis</i> : D. G. BRINTON.....	650
<i>Notes on Inorganic Chemistry</i> : J. L. H.....	651
<i>Scientific Notes and News</i>	651
<i>University and Educational News</i>	656
<i>Discussion and Correspondence</i> :—	
<i>Mr. Lovell's Observations of Mercury and Venus</i> : EDWARD S. HOLDEN. <i>Further Considerations on the Systematic Position of Tarsius</i> : CHARLES EARLE. <i>The Coming Ice Age</i> : C. A. M. TABER. <i>The Smithsonian Table at the Naples Station</i> : CHARLES WARDELL STILES.....	656
<i>Scientific Literature</i> :—	
<i>Scott's Introduction to Geology</i> : H. S. WILLIAMS. <i>Russell's Glaciers of North America</i> : HARRY FIELDING REID. <i>Meteorological Reprints</i> : R. DEC. WARD. <i>Goodman on Archaic Maya Inscriptions</i> : D. G. BRINTON.....	659
<i>Scientific Journals</i> :—	
<i>The American Chemical Journal</i> : J. ELLIOTT GILPIN. <i>Terrestrial Magnetism; The American Physical Educational Review</i> : G. W. F.....	664
<i>Societies and Academies</i> :—	
<i>The Scientific Association of the Johns Hopkins University</i> : CHARLES LANE POOR. <i>The Biological Society of Washington</i> : F. A. LUCAS.....	667
<i>New Books</i>	668

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.

PROFESSOR COPE'S defense of the doctrine of the inheritance of acquired characters was selected from the evidence contained in his book, 'The Primary Factors of Organic Evolution.' He referred especially to the history of the moulding of the articulations of the vertebrate, and especially of the mammalian skeleton, of which such complete series has been furnished by paleontology. The forms of the articulations he believed to be the result of their movements, for the reason that they could be formed artificially, as the result of experiment, or in consequence of luxations. He believed that the resulting forms have been inherited, because they are found in the embryo before the animal has had an opportunity of developing the structure for himself by interaction with the environment.

He admitted the justice of Dr. Minot's demand for an explanation of this phenomenon. He stated that the preformationists offered no explanation, and, indeed so far as he could see, none was possible from their point of view. The epigenesis-ists could, on the contrary, appeal to the

* Abstract of Professor Cope's part in the discussion by Professors Minot, Macfarlane, Cope and James before the Boston meeting of the American Society of Naturalists, prepared at the request of the editor by the late Professor Cope.

Science

5 (121)

Science 5 (121), 633-668.

ARTICLE TOOLS

<http://science.sciencemag.org/content/5/121.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.