

# 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; C. E. BESSEY, N. L. BRITTON, Botany; HENRY F. OSBORN, General Biology; C. S. MINOT, Embryology, Histology; H. P. BOWDITCH, Physiology; J. S. BILLINGS, Hygiene; J. MCKEEN CATTELL, Psychology; DANIEL G. BRINTON, J. W. POWELL, Anthropology.

FRIDAY, JUNE 10, 1898.

ON COLOR BLINDNESS.

## CONTENTS:

<i>On Color-blindness</i> : PROFESSOR OGDEN N. ROOD.....	785
<i>The Opening of the New Laboratory for Physical Chemistry in Leipzig</i> : DR. HARRY C. JONES.....	786
<i>Wireless Telegraphy</i> .....	791
<i>Current Notes on Meteorology</i> :—	
<i>Physiological Effects of Humidity; Electric Searchlights as Weather Signals; Civil Service Examinations for Positions in the Weather Bureau; False Dew; Notes</i> : R. DEC. WARD.....	793
<i>Current Notes on Anthropology</i> :—	
<i>Languages of Honduras; The Ruins of Mexico; Ethnography of Cuba</i> : PROFESSOR D. G. BRINTON.....	795
<i>Astrophysical Notes</i> : E. B. F.....	795
<i>Notes on Inorganic Chemistry</i> : J. L. H.....	796
<i>Scientific Notes and News</i> :—	
<i>Lord Playfair; The Imperial Institute; Tests of Seeds by the U. S. Department of Agriculture; General</i> .....	797
<i>University and Educational News</i> .....	801
<i>Discussion and Correspondence</i> :—	
<i>A Precise Criterion of Species</i> : DR. J. A. ALLEN.	
<i>A Necessary Correction</i> : G. F. ANDREWS.....	801
<i>Scientific Literature</i> :—	
<i>Suess on 'La face de la terre.'</i> J. B. WOODWORTH.	
<i>Pilsbry's Catalogue of the Land Shells of America</i> : T. D. A. COCKERELL.	
<i>Bibliographia Geologica</i> : F. B. WEEKS.....	803
<i>Scientific Journals</i> .....	809
<i>Societies and Academies</i> :—	
<i>Geological Society of Washington</i> : DR. W. F. MORSELL.	
<i>Torrey Botanical Club</i> : E. S. BURGESS.	
<i>Section of Geology and Mineralogy of the New York Academy of Sciences</i> : HEINRICH RIES.	
<i>Botanical Seminar of the University of Nebraska</i> .....	810
<i>New Books</i> .....	812

*On the Application of the Flicker Photometer to the Quantitative Study of Color Blindness.*

IN the previous number of this JOURNAL, I gave a short account of one of the forms of certain flicker photometers devised by myself, and now will still further illustrate its use by detailing some experiments that were made with it on persons more or less color blind to red. The mode of proceeding was as follows: Plates of deep red and violet-blue glass were placed on opposite sides of the prism and one of the lamps allowed to remain stationary; the blue glass was next to it. On the side of the movable lamp the red glass was placed. In case, then, the patient was more or less blind to red light it would be necessary for him to move up the lamp which furnished the red light nearer to the prism, in order to cause the flicker to disappear, than would be the case in normal vision. This experiment having then been repeated by a person with normal vision, the joint result furnishes the means of measuring the amount of red color blindness, it being, of course, assumed in this procedure that the eyes of the two experimenters are normal for blue light. This determination being finished, I replaced the red glass by green, the blue glass remaining in its old position next to the stationary lamp, and new measurements were made as before by both persons in order to test for green color blindness.

MSS. intended for publication and books, etc., intended for review should be sent to the responsible editor, Professor J. McKeen Cattell, Garrison-on-Hudson, N. Y.

# Science

**7 (180)**

*Science* 7 (180), 785-812.

**ARTICLE TOOLS**

<http://science.sciencemag.org/content/7/180.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.