

# 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; HENRY F. OSBORN, Paleontology; W. K. BROOKS, C. HART MERRIAM, Zoology; S. H. SCUDDER, Entomology; C. E. BESSEY, N. L. BRITTON, Botany; C. S. MINOT, Embryology, Histology; H. P. BOWDITCH, Physiology; J. S. BILLINGS, Hygiene; J. MCKEEN CATTELL, Psychology; J. W. POWELL, Anthropology.

FRIDAY, JANUARY 12, 1900.

THE CENTURY'S PROGRESS IN APPLIED  
MATHEMATICS.\*

## CONTENTS:

<i>The Century's Progress in Applied Mathematics, I.:</i>	
PROFESSOR R. S. WOODWARD.....	41
<i>The Position that Universities should take in regard to Investigation:</i>	
PROFESSOR THOMAS DWIGHT, PROFESSOR R. H. CHITTENDEN, PROFESSOR JOSEPH JASTROW, DR. D. T. MACDOUGAL, PROFESSOR WILLIAM PATTEN.....	51
<i>American Mathematical Society:</i>	
PROFESSOR F. N. COLE.....	66
<i>Scientific Books:—</i>	
<i>Scudder on Every-day Butterflies:</i> DR. W. J. HOLLAND. <i>Ward's Elementary Meteorology:</i> M. S. W. JEFFERSON. <i>Newman on Bacteria:</i> E. O. J. LEWIS'S <i>Treatise on Crystallography:</i> DR. C. PALLACHE.....	67
<i>Scientific Journals and Articles.....</i>	71
<i>Societies and Academies:—</i>	
<i>Philosophical Society of Washington:</i> E. D. PRESTON. <i>Science Club of the University of Wisconsin:</i> PROFESSOR W. H. HOBBS. <i>The Academy of Science of St. Louis:</i> PROFESSOR WILLIAM TRELEASE.....	72
<i>Discussion and Correspondence:—</i>	
<i>Observations with the Meridian Circle:</i> PROFESSORS GEO. A. HILL and JAMES E. KEELER. <i>Dark Lightning:</i> PROFESSOR R. W. WOOD. <i>Science in the Daily Press:</i> PROFESSORS E. H. LINDLEY and WM. T. BRYAN. 'Newspaper Science': AMATEUR.....	72
<i>Botanical Notes:—</i>	
<i>A New Southern Flora; A New Botanical Journal:</i> PROFESSOR CHARLES E. BESSEY.....	74
<i>The Conferring of University Degrees by the Smithsonian Institution.....</i>	75
<i>The University of Nebraska.....</i>	76
<i>Recent Additions to the American Museum.....</i>	77
<i>Scientific Notes and News.....</i>	77
<i>University and Educational News.....</i>	80

## I.

THE honor of election to the presidency of the American Mathematical Society carries with it the difficult duty of preparing an address, which may be at once interesting and instructive to a majority of the membership, and which may indicate at the same time the lines along which progress may be expected in one or more branches of our favorite science. In partial recognition of the honor you have conferred upon me it has seemed that I could do no better than to consider with you some of the principal advances that have been made in mathematical science during the past century. But here at the outset one must needs feel sharply restricted by the limitations of his knowledge and by the wide extent of the domain to be surveyed. Especially must this be the case with one who belongs to no school of mathematicians, unless it be the 'old school' of inadequate opportunities and desultory training. On account of these conditions, I have found it essential to accept the ordinary division of the science into pure and applied mathematics and to confine my attention in this address wholly to applied mathematics. Here again, however, it is

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.

\* Address of the President of the American Mathematical Society, read December 28, 1899.

# Science

11 (263)

*Science* 11 (263), 41-80.

**ARTICLE TOOLS**

<http://science.sciencemag.org/content/11/263.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.