

# SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE, PUBLISHING THE  
OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION  
FOR THE ADVANCEMENT OF SCIENCE.

FRIDAY, JANUARY 29, 1904.

## CONTENTS:

<i>The American Association for the Advancement of Science:—</i>	
<i>Section A, Mathematics and Astronomy:</i>	
PROFESSOR LAENAS GIFFORD WELD.....	161
<i>Section G, Botany:</i> PROFESSOR FRANCIS E. LLOYD .....	165
<i>Geography in the United States, II.:</i> PROFESSOR W. M. DAVIS.....	178
<i>Karl Alfred von Zittel:</i> PROFESSOR HENRY FAIRFIELD OSBORN .....	186
<i>Scientific Books:—</i>	
<i>The Moth Book:</i> DR. L. O. HOWARD. <i>Ver-worn's Allgemeine Physiologie:</i> PROFESSOR FREDERIC S. LEE.....	188
<i>Scientific Journals and Articles.....</i>	190
<i>Societies and Academies:—</i>	
<i>The Academy of Science and Art of Pitts-burg:</i> FREDERIC S. WEBSTER. <i>Wisconsin Academy of Sciences, Arts and Letters:</i> E. B. SKINNER. <i>Northeastern Section of the American Chemical Society:</i> ARTHUR M. COMEY .....	191
<i>Discussion and Correspondence:—</i>	
<i>Convocation Week:</i> PROFESSOR E. L. NICHOLS, PROFESSOR W. LE CONTE STE-VENS, PROFESSOR J. S. KINGSLEY. <i>The Scintillations of Radium:</i> PROFESSOR R. W. WOOD .....	192
<i>Special Articles:—</i>	
<i>The Occurrence of Zinc in Certain Inverte-brates:</i> HAROLD C. BRADLEY.....	196
<i>Atmospheric Nitrogen for Fertilizing Pur-poses .....</i>	197
<i>Missouri Lead and Zinc Regions visited by the Geological Society of America:</i> PRO-FESSOR A. R. CROOK.....	197
<i>Scientific Notes and News.....</i>	198
<i>University and Educational News.....</i>	200

MSS. intended for publication and books, etc., intended for review should be sent to the Editor of SCIENCE, Garrison-on-Hudson, N. Y.

## THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. SECTION A, MATHEMATICS AND ASTRONOMY.

*Vice-President*—Otto H. Tittmann, Superin-tendent U. S. Coast and Geodetic Survey, Wash-ington, D. C.

*Secretary*—Professor Laenas G. Weld, Univer-sity of Iowa, Iowa City, Iowa.

*Member of Council*—Professor Ormond Stone.

*Sectional Committee*—Dr. G. B. Halsted, Vice-President, 1903; President C. S. Howe, Secretary, 1903; Superintendent O. H. Tittmann, Vice-Presi-dent, 1904; Professor L. G. Weld, Secretary, 1904-1908; Professor W. W. Beman, one year; Dr. J. A. Brashear, two years; Professor J. R. Eastman, three years; Professor Ormond Stone, four years; Professor E. B. Frost, five years.

*General Committee*—Mr. Philip Fox.

Professor Alexander Ziwet, of the Uni-versity of Michigan, was elected vice-presi-dent for the next meeting.

The Chicago Section of the American Mathematical Society and the Astronomi-cal and Astrophysical Society of America met in affiliation with Section A. The pa-pers presented before these affiliated socie-ties will be noticed elsewhere. Those read before Section A were as follows:

*A New Treatment of Volume:* Professor GEORGE BRUCE HALSTED, Kenyon Col-lege, Gambier, Ohio.

In September, 1902, Poincaré wrote in his review of Hilbert's 'Grundlagen der Geometrie': "The fourth book treats of the measurements of plane areas. If this measurement can be easily established without the aid of the principle of Archi-medes, it is because two equivalent poly-gons can either be decomposed into trian-gles in such a way that the component tri-

# Science

**19 (474)**

*Science* **19** (474), 161-200.

**ARTICLE TOOLS**

<http://science.sciencemag.org/content/19/474.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.