

# 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.

EDITORIAL COMMITTEE: S. NEWCOMB, Mathematics; R. S. WOODWARD, Mechanics; E. C. PICKERING, Astronomy; T. C. MENDENHALL, Physics; R. H. THURSTON, Engineering; IRA REMSEN, Chemistry; CHARLES D. WALCOTT, 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; WILLIAM H. WELCH, Pathology; J. MCKEEN CATTELL, Psychology; J. W. POWELL, Anthropology.

FRIDAY, APRIL 4, 1902.

## CONTENTS:

<i>The American Morphological Society:</i> DR. M. M. METCALF.....	521
<i>Twenty Years of Section H, Anthropology:</i> DR. GEORGE GRANT MACCURDY.....	532
<i>College Work for Agriculturists:</i> PROFESSOR R. H. THURSTON.....	534

## Scientific Books:—

<i>Roozeboom on Die heterogenen Gleichgewichte, Ostwald's Analytic Chemistry:</i> PROFESSOR WILDER D. BANCROFT. <i>The Engineering Index:</i> PROFESSOR MANSFIELD MERRIMAN. <i>Sanderson on Insects Lujurious to Staple Crops:</i> F. H. CHITTENDEN.....	537
<i>Scientific Journals and Articles</i> .....	541

## Societies and Academies:—

<i>Science Club of the University of Wisconsin:</i> C. K. LEITH. <i>Philosophical Society of Washington:</i> CHARLES K. WEAD. <i>Anthropological Society of Washington:</i> WALTER HOUGH. <i>The Geological Society of Washington:</i> ALFRED H. BROOKS. <i>New York Academy of Sciences: Section of Anthropology and Psychology:</i> DR. R. S. WOODWORTH. <i>Section of Astronomy, Physics and Chemistry.</i> DR. F. L. TUFTS. <i>The Academy of Science of St. Louis:</i> PROFESSOR WILLIAM TRELEASE. <i>The Colorado Academy of Science:</i> WILL C. FERRIL. <i>The Elisha Mitchell Scientific Society:</i> PROFESSOR CHAS. BASKERVILLE. <i>New York Association of Biology Teachers:</i> G. W. HUNTER, JR.....	542
--	-----

## Discussion and Correspondence:—

<i>Movements toward Union among Geographers:</i> DR. W J MCGEE. <i>Baldwin's Social and Ethical Interpretations:</i> DR. GUSTAVO TOSTI. <i>Carnegie Institution</i> ....	549
--	-----

## Shorter Articles:—

<i>Discharge from Hot Platinum Wires:</i> PROFESSOR C. D. CHILD.....	553
--	-----

## Paleontological Notes:—

<i>North American Elephantids:</i> F. A. L....	554
<i>Current Notes on Meteorology:—</i>	
<i>The Dust Storm of March 9-12, 1901;</i>	
<i>Meteorological Charts of the Great Lakes;</i>	
<i>The Seismograph as a Sensitive Barometer:</i>	
PROFESSOR R. DEC. WARD.....	555
<i>Scientific Notes and News</i> .....	557
<i>University and Educational News</i> .....	560

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.

## AMERICAN MORPHOLOGICAL SOCIETY.

### I.

At the annual meeting of the American Morphological Society, held at the University of Chicago December 31, 1901, and January 1 and 2, 1902, the following papers were presented:

*The Physiological Zero and the Index of Development for the Egg of the Domestic Fowl, Gallus Domesticus:* CHARLES LINCOLN EDWARDS.

From the study of 238 eggs distributed in 23 incubations of about six days each, and from the measurement of 59 unincubated eggs the following conclusions were derived:

1. The physiological zero, or the temperature below which there is no development, previously given by most authors at 28°, and by one at 25°, is established at the degree included between 20° and 21°.

2. The index of development is given for temperatures from 20°-21° to 30.75°.