

# 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; JOSEPH 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; WILLIAM H. WELCH, Pathology; J. MCKEEN CATTELL, Psychology; J. W. POWELL, Anthropology.

FRIDAY, FEBRUARY 8, 1901.

THE ENDOWMENT OF RESEARCH.

CONTENTS:

<i>The Endowment of Research</i> : PROFESSOR EDWARD C. PICKERING.....	201
<i>Research Work for Physics Teachers</i> : PROFESSOR EDWARD L. NICHOLS.....	202
<i>On Eclipse Photography</i> : PROFESSOR FRANCIS E. NIPHER.....	208
<i>The Probable Successors of Certain North American Primates</i> : DR. J. L. WORTMAN .....	209
<i>The American Psychological Association</i> : DR. LIVINGSTON FARRAND.....	211
<i>Iowa Academy of Sciences</i> : PROFESSOR L. H. PAMMEL.....	214
<i>The Nebraska Ornithologists' Union</i> : PROFESSOR ERWIN H. BARBOUR.....	216
<i>The Kansas Academy of Science</i> : PROFESSOR E. H. S. BAILEY.....	217
<i>The Stanley-McCormick Hopi Expeditions</i> : DR. GEORGE A. DORSEY.....	219
<i>Scientific Books</i> :—	
<i>An Atlas of Representative Stellar Spectra</i> : PROFESSOR EDWIN B. FROST. <i>Bureau of Steam Engineering of the U. S. Navy Department</i> : PROFESSOR R. H. THURSTON. <i>Geology of Texas</i> : DR. ROBT. T. HILL. <i>Books of Reference. Books Received</i> .....	222
<i>Scientific Journals and Articles</i> .....	227
<i>Societies and Academies</i> :—	
<i>Science Club of the University of Wisconsin</i> : PROFESSOR WM. H. HOBBS. <i>The Texas Academy of Science</i> : PROFESSOR FREDERIC W. SIMONDS. <i>The Engineering Association of the South</i> : H. M. JONES. <i>The Vermont Botanical Club</i> .....	228
<i>Discussion and Correspondence</i> :—	
<i>A Bibliographic Catch Title for Ever and Ever</i> : F. A. BATHER. <i>A Further Appeal to all Lovers of Birds</i> : ABBOT H. THAYER and OTHERS.....	230
<i>Shorter Articles</i> :—	
<i>The Proper Name of the Alpine Chough and of the Egyptian Crocodile</i> : WILLIAM J. FOX. <i>The Wood Buffalo</i> : DR. OTTO J. KLOTZ.....	232
<i>Current Notes on Meteorology</i> :—	
<i>The 'Boom' Population of Kansas; The Meteorology of Lower California; The Harvard Meteorological Stations in Peru; Recent Publications; Notes</i> .....	233
<i>The United States Naval Observatory in Congress</i> ....	234
<i>Scientific Notes and News</i> .....	236
<i>University and Educational News</i> .....	240

Is investigation in the physical sciences now limited by the lack of men or money? In other words, is it limited by the insufficient number of investigators capable and ready to do work of the highest grade, or are they unable to secure the means needed to carry on such work? The income of several funds is available for aiding such investigation. In 1797, Count Rumford gave to the American Academy the sum of \$5,000, for awarding gold and silver medals for discoveries in light and heat. Until recently, so little use has been made of its income that this fund now amounts to \$58,000. The annual income, which exceeds \$2,500, may be used for researches in light and heat. The Elizabeth Thompson fund, amounting to \$26,000, according to the last circular issued, may be used for investigations in all departments of science. Seventy-one grants have been made from the income of this fund, generally in sums not exceeding \$300. Several funds, held in trust by the National Academy of Sciences, show unexpended balances equal to the income of several years. Thus, at the beginning of the present year, the Henry Draper fund of \$6,000 had an unexpended balance of more than \$2,000 available for investigations in astronomical physics, and no applications had been received for it. In 1886, the writer attempted to secure the sum of \$100,000, the income to be used for