

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, Paleon-
tology; 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; WILLIAM H. WELCH, Pathology;
J. MCKEEN CATTELL, Psychology.

FRIDAY, AUGUST 21, 1903.

THE NEW OPPORTUNITY FOR SECONDARY
SCHOOLS.

CONTENTS:

<i>The New Opportunity for Secondary Schools:</i> PROFESSOR C. M. WOODWARD.....	225
<i>Ten Years of American Psychology, 1892-1902. II:</i> PROFESSOR EDWARD FRANKLIN BUCHNER	233
<i>Scientific Books:—</i>	
<i>Oudin's Polyphase Apparatus and Systems;</i> <i>Hobbs on the Arithmetic of Electrical</i> <i>Measurements:</i> PROFESSOR W. S. FRANKLIN	241
<i>Scientific Journals and Articles.....</i>	242
<i>Discussion and Correspondence:—</i>	
<i>Additional Facts concerning the Bath</i> <i>Furnace Meteoric Fall:</i> PROFESSOR A. M. MILLER. <i>The Protective Function of</i> <i>Raphides:</i> THOS. H. KEARNEY.....	243
<i>Shorter Articles:—</i>	
<i>Carboniferous Fossils in 'Ocoee' Slates</i> <i>in Alabama:</i> PROFESSOR EUGENE A. SMITH.	244
<i>Botanical Notes:—</i>	
<i>Two Interesting Parasitic Plants; The</i> <i>Study of Galls:</i> PROFESSOR CHARLES E. BESSEY	246
<i>'Graphics of Thermodynamics':</i> PROFESSOR R. H. THURSTON.....	247
<i>Exhibit of the U. S. National Museum at</i> <i>St. Louis:</i> F. A. L.....	248
<i>Memorial to Sir William Flower.....</i>	249
<i>The International Commission of Archeology</i> <i>and Ethnology</i>	250
<i>Scientific Notes and News.....</i>	252
<i>University and Educational News.....</i>	256

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

PROFESSOR G. G. RAMSEY, of the Univer-
sity of Glasgow, said last November in an
address on 'Efficiency in Education,' while
speaking of the need of new definitions and
new standards in education:

"It is not merely that new subjects have
been introduced for which a place must
be found; but also that the demand for
higher education of some sort, and of the
best sort available, is being made on behalf
of a much wider and larger class than
formerly. It is no longer a select class,
consisting of those destined for professions
and the higher walks of life, whose needs
demand attention; the nation has at last
been roused to the necessity, which many
of us have been preaching all our lives as a
matter of national concern, of training to
the utmost the brain power of the com-
munity, and of bringing within the reach
of every capable mind, in every class,
the benefits of a liberal education. There
is," he adds, "at this moment a boom on
amongst us in this matter of higher edu-
cation; and it is of the greatest consequence
to the country that this boom should ex-
pend its force in the most promising direc-
tions."

In the course of his address, this eminent
'professor of humanity' frankly admits
that, 'the highest literary and classical edu-