

SCIENCE

VOL. 80

FRIDAY, OCTOBER 26, 1934

No. 2078

<i>The Scottish School of Geology:</i> PROFESSOR FRANK D. ADAMS	365
<i>Summary Statement of the Work of the National Research Council:</i> DR. ISAIAH BOWMAN	368
<i>Obituary:</i> <i>Karl Frederic Kellerman:</i> DR. WM. A. TAYLOR. <i>Recent Deaths</i>	373
<i>Scientific Events:</i> <i>Locust Control in Africa and Asia; The American Treaty on the Roerich Pact; Soil and Crop Surveys in the Tennessee Valley; The Leonard Wood Memorial for the Eradication of Leprosy; Work of the Rockefeller Foundation in the Medical and Natural Sciences</i>	374
<i>Scientific Notes and News</i>	377
<i>Discussion:</i> <i>Reform in the System of Scientific Publication:</i> DR. MARCUS I. GOLDMAN. <i>The Mechanism of the Antidotal Action of Methylene Blue in Cyanide Poisoning:</i> DR. WILLIAM BEAN WENDEL. <i>Two Rattlesnakes Killed by a Cottonmouth:</i> ROGER CONANT. <i>Diaries of Earlier Generations in the Study of Sleep:</i> DR. DONALD A. LAIRD	380
<i>Scientific Apparatus and Laboratory Methods:</i> <i>A Kymograph Time-Interval Recorder:</i> GEORGE POUCHER, JR., and DR. C. P. HICKMAN. <i>A Mechanism for the Continuous Circulation and Aeration of Water in Small Aquaria:</i> DR. A. E. HOPKINS	383
<i>Special Articles:</i> <i>Action of Dinitro Compounds on Sea Urchin Eggs:</i> DR. G. H. A. CLOWES and M. E. KRAHL. <i>Positive Infection Trials with Elm "Wilt" Fungi:</i> ALAN S. PEIRCE. <i>An Antirachitic Derivative of Cholesterol:</i> PROFESSOR LESTER YODER	384
<i>Science News</i>	6

SCIENCE: A Weekly Journal devoted to the Advancement of Science, edited by J. McKEEN CATTELL and published every Friday by

THE SCIENCE PRESS

New York City: Grand Central Terminal

Lancaster, Pa.

Garrison, N. Y.

Annual Subscription, \$6.00

Single Copies, 15 Cts.

SCIENCE is the official organ of the American Association for the Advancement of Science. Information regarding membership in the Association may be secured from the office of the permanent secretary, in the Smithsonian Institution Building, Washington, D. C.

THE SCOTTISH SCHOOL OF GEOLOGY¹

By Professor FRANK D. ADAMS

MCGILL UNIVERSITY

THE celebration of the centenary of the Geological Society of Edinburgh must indeed be an occasion of very especial pleasure for any one who takes an interest in the development of the science of geology. For it was in this city that what has been called the Scottish School of Geology took its rise and for a brief half century, A. D. 1780 to A. D. 1825, made the city of Edinburgh one of the greatest centers of geological learning of the time.

Here it was that Hutton, who may fairly be called one of the founders of modern geology (A. D. 1726–A. D. 1797) was born, lived and wrote his epoch-making work, "The Theory of the Earth." It was here that Sir James Hall, the "founder of experimental geology," carried out his celebrated researches, which gave such valuable support and corroboration to Hutton's explanations of certain phenomena which he had observed in the field. And it was here that

Playfair, professor of natural philosophy in the University of Edinburgh, wrote his "Illustrations of the Huttonian Theory," a work on which he bestowed much time and labor and which did so much to elucidate Hutton's views and to present his theory in such a clear and attractive form that it achieved a widespread acceptance.

These were the three great leaders of the Scottish School of Geology, but there were other men associated with them who occupied less important positions and of whose work it is impossible here to make further mention. Hutton being the chief exponent of the views held by this school, his explanation of the origin and structure of the earth came to be known as the Huttonian theory.

Another circumstance which gave an additional impetus to the study of geology in Edinburgh was that about the same time that Playfair was appointed to the chair of natural philosophy at the University of Edinburgh, Robert Jamieson received the appointment of regius professor of natural history at this

¹ Address given at Edinburgh on the occasion of the centenary celebration of the Geological Society of Edinburgh, September 3, 1934.

NEW LUMMER-BRODHUN PHOTOMETER BOX

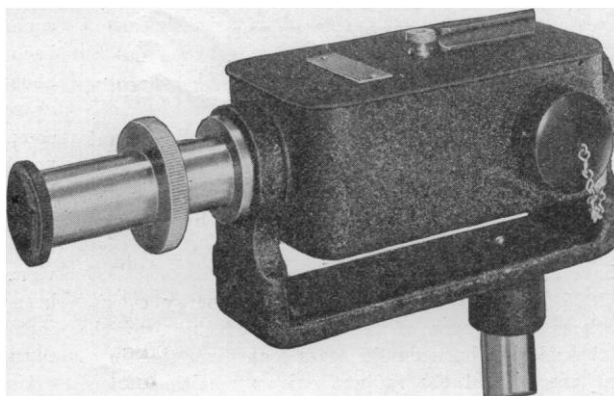
Of recently modified and improved design, this Photometer Head is the latest addition to our line of photometric equipment.

A one piece cast aluminum housing neatly finished in black baked enamel replaces the formerly supplied built-up brass box, thereby eliminating numerous screws and small parts. By this means a much more substantial and pleasing design is obtained.

The housing is mounted in bronze bearings on which it is free to rotate 180°. Dust-proof covers are provided to keep out all dust when the instrument is not in use. Greatly improved optical parts throughout assure a more efficient optical system with permanent reflecting surfaces.

Contrast glasses, the use of which increase the ease of determining the match points, are mounted on a frame and can easily be swung out of the field, in which case the instrument serves as an Equality-of-Brightness Photometer.

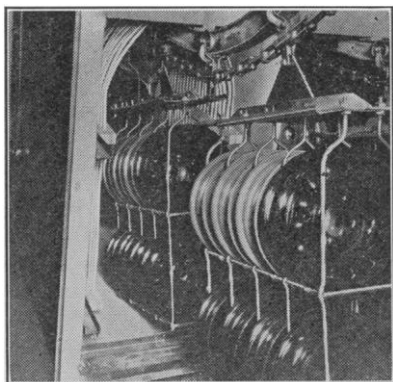
Advance information on our line of Martens Photometers and Spectrophotometers will be supplied on request.



THE GAERTNER SCIENTIFIC CORP'N
1204 Wrightwood Avenue Chicago, U. S. A.

AJAX

**NEW PROCESSI
INDUCTION DRYING OVENS**
heat metal to dry paint from inside out.



Write for Folder 946

Ajax Electrothermic Corporation
Trenton, New Jersey

G. H. CLAMER,
President & Gen. Mgr.

E. F. NORTHRUP,
V. Pres. & Technical
Adviser

CURRENT WARD PUBLICATIONS

BIOLOGICAL

- ☐ 357. Microscope Slides. Biological instruction—all phases—adequately represented for first time.
- ☐ 357. Biological Material. An amazing variety.

ENTOMOLOGICAL

- ☐ 348. Entomological Equipment and Supplies.
- ☐ 360. Life Histories and Collections.
- ☐ 349. Insect Pests—various stages of over 300.
- ☐ Indo-Australian Coleoptera.
- ☐ New World Danaidae, Ithomiidae and Heliconiidae.

North American

- ☐ Cicindelidae.
- ☐ Scarabaeidae.
- ☐ Coccinellidae.
- ☐ Cerambycidae.
- ☐ Buprestidae.
- ☐ Ants.

MINERALOGICAL

- ☐ 359. Inexpensive Minerals.
- ☐ 353. Collections of Minerals and Rocks.
- ☐ 355. Minerals Sold by Weight.
- ☐ 356. Price List of Rocks.

PALEONTOLOGICAL

Fossil Lists 1-7 inclusive

BULLETINS

Mineral Bulletin
Entomological Bulletin
Natural Science Bulletin

CHECK

desired publications. Tear out adv. and mail with return address.

WARD'S

**NATURAL SCIENCE
ESTABLISHMENT, INC.**

P. O. Box 24;
Beechwood
Station,
Rochester, N. Y.

