

of Faith of a Man of Science, by Dr. Ernst Haeckel; *Life at the Zoo*, by C. J. Cornish; a new edition of S. Thompson's *Electricity and Magnetism* and *Mental Development in the Child and in the Race*, by J. Mark Baldwin.

SOCIETIES AND ACADEMIES.

THE NEW YORK ACADEMY OF SCIENCES.

J. A. MATTHEWS, *Notes on Carborundum*.

BASHFORD DEAN, *On the collections of Fossil Fishes at Berea, New London and Delaware, Ohio*.

L. McI. LUQUER, *The Relative effects of Frost and Sulphate of Soda Efflorescence as shown by Tests of Building Stone*.

J. F. KEMP, *Secretary*.

THE TORREY BOTANICAL CLUB.

B. D. HALSTED, *Abnormalities in Plants Due to Fungus Parasites*.

HENRY H. RUSBY, *Secretary*.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.

LUDWIG GUTMANN, *On the Production of Rotary Magnetic Fields by a Single Alternating Current*.

In the absence of the author, the paper will be presented in abstract by Dr. M. I. Pupin.

A meeting of Western members will be held the same evening at Chicago, where the paper will be read by the author.

RALPH W. POPE, *Secretary*.

SCIENTIFIC JOURNALS.

THE AMERICAN NATURALIST.

Quaternary Time Divisible in Three Periods, the Lafayette, Glacial, and Recent: WARREN UPHAM.

The Homologies of the Uredinea (The Rusts): CHARLES E. BESSEY.

On the Evolution of the Art of Working in Stone; a preliminary paper by J. D. McGuire: CHARLES H. READ.

Zoölogy in the High School: CLARENCE M. WEED.

Editorials; Recent Books and Pamphlets; Recent Literature.

General Notes:—*Petrography; Geology and Paleontology; Botany; Zoölogy; Entomology; Archeology and Ethnology*.

Proceedings of Scientific Societies.

THE PHYSICAL REVIEW.

Frontispiece: portrait of Professor von Helmholtz. Studies of the Lime Light: EDWARD L. NICHOLS and MARY L. CREHORE.

A Study of the Residual Charges of Condensers and their Dependence upon Temperature: FREDERICK BEDELL and CARL KINSLEY.

A General Theory of the Glow-Lamp II.: H. S. WEBER.

Minor Contributions; Notes; New Books.

BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

On the Group of Holoedric Transformation of a Given Group into Itself: E. HASTINGS MOORE.

On the Non-Primitive Substitution Groups of Degree Ten: G. A. MILLER.

Briefer Notices; Notes; New Publications.

NEW BOOKS.

Popular Lectures and Addresses. Vol. II., *Geology and General Physics*. SIR W. THOMPSON. London and New York. Macmillan & Co. 1894. Pp. x., 599.

Light. Elementary text-book; theoretical and practical. R. T. GLAZEBROOK. Cambridge University Press. New York. Macmillan & Co. 1894. Pp. vii., 213. \$1.00.

Manual of Physico-Chemical Measurements. By WILHELM OSTWALD. Trans. by JAMES WALKER. London and New York. Macmillan & Co. 1894. Pp. xii., 255. \$2.25.

Electricity One Hundred Years Ago and To-day. EDWIN J. HOUSTON. New York. W. J. Johnson & Co. 1894. Pp. 199. \$1.00.