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 Holodric 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.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

RALPH W. POPE

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