

in diameter and was read to single seconds of arc by two micrometer-microscopes. The graduations on the circle were microscopic and were seen easily in the reading microscopes. The telescope was provided with a small vertical circle $6\frac{1}{4}$ inches in diameter and reading by verniers to single minutes. The instrument was arranged for observations on Polaris for azimuth work.

J. F. KEMP, *Secretary*.

THE WISCONSIN ACADEMY OF SCIENCES, ARTS
AND LETTERS.

THE Wisconsin Academy of Sciences, Arts and Letters held its Summer meeting, on June 6th to 8th, 1895, at Milwaukee, Wis., under the auspices of the Natural History Society of Wisconsin, and the Presidency of Professor Charles R. Van Hise. In addition an address by President C. K. Adams and a number of other historical and sociological papers, the following were presented:

Address of Welcome: GEORGE W. PECKHAM, President of the Natural History Society of Wisconsin.

Opening address, 'Reforms in Germany after the Napoleonic Wars': C. K. ADAMS, President of the University of Wisconsin.

The relation of pooling to some phases of the transportation question: A. M. SIMONS.

The legal aspects of trusts: EDGAR F. STRONG. Read by title.

The forms spontaneously assumed by folk-songs: J. COMFORT FILLMORE.

Negro suffrage in Wisconsin: J. G. GREGORY.

Some Observations on the Lateral Moraines at Devil's Lake: D. P. NICHOLSON.

Geology of Mts. Adam and Eve, Orange County, N. Y.: G. L. COLLIE.

Certain Uses of Topographical Maps: G. L. COLLIE.

The Production of Electrical Energy Directly From Carbon: A. J. ROGERS.

A Contribution to the Mineralogy of Wisconsin: WILLIAM H. HOBBS.

Some New Occurrences of Minerals in Michigan and Montana: WILLIAM H. HOBBS.

On a Diamond from Kohlsville, Wisconsin: WILLIAM H. HOBBS.

From Pinene to Carvacrol: EDWARD KREMERS.

A Dredge for Collecting Crustacea at Different Depths: C. DWIGHT MARSH.

Method of Determining the Coefficient of a Plankton Net: E. A. BIRGE.

The Pelagic Crustacea of Lake Mendota During the Winter and Spring of 1894-1895: E. A. BIRGE.

The Biological History of 'inia Hyalina, Leydig': E. A. BIRGE.

The Periodic System as a Didactic Basis: EDWARD KREMERS. Read by title.

Observed and Computed Precession: D. P. BLACKSTONE. Read by title.

THE TEXAS ACADEMY OF SCIENCE.

The Law of Hypnotism: PROF. R. S. HYER.

County Roads: CHARLES CORNER, C. E.

On the Glycerine Method of Preserving Specimens for the Anatomical Museum: DR. WM. KEILLER, F. R. C. S.

Texas Soils; a Preliminary Statement and Classification: E. T. DUMBLE.

Simultaneous Quadratic Equations: I. H. BRYANT.

NEW BOOKS.

Geological Survey of Michigan. LUCIUS L. HUBBARD, State Geologist. Vol. v. 181, 1893. pp. x+179. xxiv+100.

The Theory of Light. THOMAS PRESTON. 2nd Edition. London and New York, Macmillan & Co. 1895. Pp. xvii+566. \$5.00.

A Monograph of the Order of Oligochaeta. FRANK EVERS BEDDARD. Oxford. Clarendon Press, New York, Macmillan & Co. 1895. Pp. xii+769. \$12.50.

Report of the International Meteorological Congress Held at Chicago, Ill. Part II. Edited by OLIVER L. FASSIG. Washington, Weather Bureau. 1895. Pp. xvi+583.