

by J. M. Buckley, LL.D.; National Agencies for Scientific Research, by Major J. W. Powell, Ph.D., LL.D.; The Bureau of Animal Industry, by George W. Hill; Highbinders, by Frederic J. Masters; Our Ships on the Lakes and Seas, by Samuel A. Wood; The Present Position of German Politics, by George Wheeler Hinman, Ph.D.; Spain, Cuba, and the United States, by Rollo Ogden; How a Bill Presented in Congress Becomes a Law, by George Harold Walker; The Balkan States and Greece; Strawberry Hill, by Eugene L. Didier; The Woman's Congress, by Isabel Howland; Legal Domestic Relations, by Mary A. Greene, LL.B.; Making and Testing Flour, by Emma P. Ewing; Opportunities for Women in Washington, D.C., by Mrs. Emily L. Sherwood; Daughters of the Fatherland, by Miss E. S. Braine; How to Restore Health, by Hermine Welten; What Next in Women's Societies? by Margaret W. Noble; Seawomen, by Margaret B. Wright. The editorials treat of The Ethics of Story Telling, Republican South America, and How to Live with Others. There are the usual departments devoted to the Chautauqua Literary and Scientific Circle.

— P. Blakiston, Son, & Co., Philadelphia, have nearly ready a reprint of Gower's (W.R.) "Manual of Nervous Diseases," second edition, issued here by special arrangement with the author. They have just published Greig Smith's "Abdominal Surgery," fourth edition; Muskett's "Prescribing and Treatment in Diseases of Children;" Blair's "The Organic Analysis of Potable Waters."

second edition; and will issue very shortly "A Manual of Autopsies," by Dr. Isaac Blackburn, a revised edition of Naphey's "Therapeutics," and a volume on "Diseases of the Throat, Nose, and Ear," containing a large number of colored wood engravings printed with the text, by E. P. McBride, F.R.C.P., Edinburgh.

— Ginn & Co. announce "Outline of Lessons in Botany, for the Use of Teachers, or Mothers studying with Their Children," by Jane H. Newell, Part II.: "Flower and Fruit." The course begins early in March with the crocuses and other early bulbous plants, and continues with lessons on some common house plants, in order that the pupil may be familiar with the ordinary botanical terms before taking up the spring wild-flowers. Spring flowers are then studied, in the order of their blooming, together with the forest trees, the blossoming fruit-trees, and some of our common weeds. These studies are not analytic only, but deal with the life-habits of the plants, their adaptations for fertilization, dissemination, and protection. Lessons on the stamens, the pistil, inflorescence, the fruit, and other topics are given in connection with the flower studies. The book aims to encourage habits of correct observation, and suggests points for the class to investigate. The book will be found valuable to persons studying by themselves, as it contains copious references to the literature of the subject, as well as original studies. The book contains a classification chart including sixty families.

CALENDAR OF SOCIETIES.

Women's Anthropological Society of America, Washington.

Jan. 9.—Alice C. Fletcher, A Talk on Folk Lore.

Publications received at Editor's Office.

- CARUS, DR. PAUL. Homilies of Science. Chicago, Open Court Pub. Co. 12°. 327 p. \$1.50.
- CHAMBERS'S ENCYCLOPAEDIA. New edition, Vol. viii. Passant to Roumelia. Philadelphia, Lipincott. Royal 8°. 828 p. \$3.
- EARDLEY-WILMOT, CAPT. S. The Development of Navies during the last half-century. New York, Scribner. 12°. 311 p. \$1.75.
- HART, ALBERT BUSHNELL. Epoch Maps, Illustrating American History. New York, Longmans. 8°. Paper. 50 cents.
- HELEN KELLER. Souvenir of the first summer meeting of the American Association to Promote the Teaching of Speech to the Deaf. Washington, Volta Bureau. 4°. 16 p.
- HOPKINS, G. IRVING. Manual of Plane Geometry on the Heuristic Plan. Boston, D. C. Heath & Co. 187 p. 12°. 75 cents.
- HUIDEKOPER, RUSH SHIPPEN. Age of the Domestic Animals. Philadelphia, F. A. Davis. 8°. 225 p. \$1.75.
- HUNT, THOMAS STERRY. Systematic Mineralogy. New York, The Scientific Pub. Co. 8°. 409 p.
- MASTERPIECES OF AMERICAN LITERATURE. Boston, Houghton, Mifflin & Co. 12°. 470 p.
- MAYCOCK, W. PERRIN. A First Book of Electricity and Magnetism. London, Whittaker & Co. 16°. 147 p. 60 cents.
- MINERALS: a monthly magazine. Vol. i. No. 1. New York, The Goldthwaites. 8°. Paper. 30 p. \$1 per year. 10 cents a copy.
- NEW YORK STATE REFORMATORY. Sixteenth Year-Book, containing the annual report of the Board of Managers for the year ending Sept. 30, 1891. Elmira, N. Y. S. Reformatory Press. 8°. Paper.
- NISSEN, HARTVIG. A B C of the Swedish System of Educational Gymnastics. Philadelphia, F. A. Davis. 12°. 116 p. 75 cents.
- OHM, G. S. The Galvanic Circuit Investigated Mathematically. Trans. by William Francis. New York, Van Nostrand Co. 18°. 269 p. 50 cents.
- POWELL, J. W. Tenth Annual Report of the U. S. Geological Survey, 1888-89. Part i., Geology. Part ii., Irrigation. Washington, Government. 2 vols. 4°. pp. 792, 131.
- SCHOOL AND COLLEGE: devoted to secondary and higher education. Edited by Ray Greene Huling. Vol. i. No. i. Jan., 1892. Boston, Ginn & Co. 8°. Paper. 64 p. \$1.50 a year; 20 cents a number.
- SCOTT, ALEXANDER. An Introduction to Chemical Theory. Edinburgh, A. J. C. Black. 12°. 274 p. \$1.25.
- SEXTON, SAMUEL. Deafness and Discharge from the Ear. New York, J. H. Vail & Co. 12°. 89 p.
- THE PHILOSOPHICAL REVIEW: bi-monthly. Edited by J. G. Schurman. Vol. i. No. i. Jan., 1892. Boston, Ginn & Co. 8°. Paper. 128 p. \$3 a year; 75 cents a number.
- WILD, H. Annalen des. Physikalischen Central-Observatoriums. Jahrgang, 1890. Theil i. St. Petersburg, Kaiserlichen Akademie der Wissenschaften. 4°. Paper.

Wants.

Any person seeking a position for which he is qualified by his scientific attainments, or any person seeking some one to fill a position of this character, be it that of a teacher of science, chemist, draughtsman, or what not, may have the "Wants" inserted under this head FREE OF COST, if he satisfies the publisher of the suitable character of his application. Any person seeking information on any scientific question, the address of any scientific man, or who can in any way use this column for a purpose consonant with the nature of the paper, is cordially invited to do so.

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WANTED.—Science, No. 178, July 2, 1886, also Index and Title-page to Vol. VII. Address N. D. C. Hodges, 874 Broadway, New York.

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Exchanges.

[Free of charge to all, if of satisfactory character. Address N. D. C. Hodges, 874 Broadway, New York.]

Wanted to buy or exchange a copy of Holbrook's North American Herpetology, by John Edwards, 5 vols. Philadelphia, 1842. G. BAUR, Clark University, Worcester, Mass.

For sale or exchange, LeConte, "Geology;" Quain, "Anatomy," 2 vols.; Foster, "Physiology," Eng. edition; Shepard, Appleton, Elliott, and Stern, "Chemistry;" Jordan, "Manual of Vertebrates;" "International Scientists' Directory;" Vol. I. *Journal of Morphology*; Balfour, "Embryology," 2 vols.; Leydy, "Rhizopods;" Science, 18 vols., unbound. C. T. MCCLINTOCK, Lexington, Ky.

For sale.—A 6½ x 8½ Camera; a very fine instrument, with lens, holders and tripod, all new; it cost over \$40; price, \$25. Edw. L. Hayes, 6 Athens street, Cambridge, Mass.

To exchange Wright's "Ice Age in North America" and LeConte's "Elements of Geology" (Copyright 1882) for "Darwinism," by A. R. Wallace, "Origin of Species," by Darwin, "Descent of Man," by Darwin, "Man's Place in Nature," Huxley, "Mental Evolution in Animals," by Romanes, "Pre-Adamites," by Winchell. No books wanted except latest editions, and books in good condition. C. S. Brown, Jr., Vanderbilt University, Nashville, Tenn.

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—Saxon & Co., London, will publish in March an English edition of Félix Régamey's "Japon Pratique," an explanation of the Japanese modes of working in wood, metal, lacquer, porcelain, and stuffs, accompanied by more than a hundred designs.

—Macmillan & Co. announce for early publication a new volume of the Library of Philosophy, entitled "The Philosophy of Aesthetics," by Bernard Bosanquet, A.M., author of "Logic; or, the Morphology of Knowledge," and translator of Lotze's "System of Philosophy."

—Longmans, Green, & Co. announce a new edition of "A Hand-book of Florida," by Charles Ledyard Norton.

—The opening article of the February *Popular Science Monthly* will be on "Personal Liberty," by Edward Atkinson and Edward T. Cabot. It bears chiefly on the labor question, giving the results of an exhaustive examination of the decisions of the courts concerning restrictions on hours and modes of labor, regulation of

the method of payment, etc. The pottery articles in the industrial series will be followed by two on another attractive subject—the making of musical instruments, by Daniel Spillane. The first of these, to appear in February, is devoted to "The Piano-Forte." It describes the precursors of this instrument, and recounts the steps of improvement by which this country has reached its present high position in the piano manufacture. The article is illustrated. President David Starr Jordan of Stanford University will have an account of how the hot-springs and lava-cliffs of the Yellowstone Park were formed, and what adventures have befallen the finny inhabitants of its lakes and streams. The article is called "The Story of a Strange Land," and it will be illustrated with several full-page and smaller views. "Urban Population" is the subject of the fourth of the Lessons from the Census, by Hon. Carroll D. Wright. It shows just how much ground there is for the current apprehension in regard to the increase of the slum population of cities. This paper also will appear in the February number.

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IV. THE CHEROKEES IN PRE-COLUMBIAN TIMES. By CYRUS THOMAS. 12°. \$1

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