

— That most enterprising of our scientific societies at the west, the Davenport academy of natural sciences, is about to complete the third volume of its 'proceedings' by the publication of the memoir on Solpugidae nearly completed by its late president, J. D. Putnam, a young naturalist of rare promise and industry. The publishing committee, with commendable enterprise, are endeavoring to procure sufficient subscribers to the number to pay the cost of publication, and have already secured 140 of the 180 required. Mr. Putnam's paper is edited by Prof. H. Osborn, of Ames, Iowa; and its four plates engraved under the superintendence of Dr. H. A. Hagen of Cambridge. A portrait of Mr. Putnam will accompany the paper.

— At the meeting of the Biological society of Washington, Feb. 2, an adjourned discussion of the presidential address took place; Dr. Elliott Coues read a paper on Zoölogical nomenclature applied to histology; and Prof. O. T. Mason, on the Human fauna of the district of Columbia.

— The January number of the Harvard university bulletin, recently issued, commences a new volume. We miss the 'notes' which formed such an admirable feature of the last volume, but are glad to know that they will again be resumed. Two pages and a half are given up to the accessions to the University library in science, in which we note a collation of the copies of the several volumes of Wilkes's exploring expedition in the libraries of Cambridge and vicinity. Of interest to scientific men are Mr. Bliss's classified index to the maps in Petermann's mittheilungen (six pages more of which are given), and Mr. Winsor's commencement of a bibliography of Ptolemy's geography.

— No. 4 of the Library of Cornell University for January contains fourteen additional pages of the valuable classed list of the rich collection of works relating to mathematics in that institution, making forty-five pages so far published. Both main and subordinate topics are arranged alphabetically; and the present instalment completes astronomy, and gives, in addition, calculus, engineering, functions, etc., and enters geometry.

RECENT BOOKS AND PAMPHLETS.

Acadian scientist (The): published in the interests of the Acadian science club. vol. i., no. 1. Wolfville, N. S. 1883. 8 p., m. 4°.

Baltet, C. De l'action du froid sur les végétaux pendant l'hiver 1879-80. Paris, *Masson*. 1882. 340 p. 8°.

Boston. — Archaeological institute of America. Bulletin, i. Bost., *Williams*. 1883. 40 p. 8°.

Cohn, F. Die pflanze. Vorträge aus dem gebiete der botanik. Breslau. 1882. 8°.

Crowther, J. The unwritten record; a story of the world we live on. With an introductory note by J. R. Macduff. Lond., *Sunday School Union*. 1883. 178 p. 8°.

Delattre, C. Étude sur les gisements français de phosphate de chaux; note sur la décomposition du phosphate bicalcique par l'eau. Paris, *imp. Davy*. 1882. 80 p. 8°.

Delaunier, E. Essai d'une théorie générale supérieure de

philosophie naturelle et de thermochimie, avec une nouvelle nomenclature binaire notative pour la chimie minérale et organique. Fasc. i. Paris, *imp. Lahure*. 1882. 82 p. 8°.

Dunman, T. Talks about science; with a biographical sketch by C. Welsh. *New ed.* Lond., *Griffiths*. 1883. 250 p. 8°.

Dreyfus-Brisac, E. De la liberté d'enseignement. Paris, *Masson*. 1882. 46 p. 8°.

Geikie, A. Geological sketches at home and abroad. Lond., *Macmillan*. 1882. 8°.

Harting, J. E. Essays on sport and natural history. Lond., *Cox*. 1883. 490 p. 4 illustr. 8°.

Madison. Washburn observatory. Publications. Vol. i. Madison. 1882. 8°.

Middletown. — Museum of Wesleyan university. Eleventh annual report of the curator. Middlet., *Pelton and King, pr.* 1882. 13 p. 8°.

Moleschott, J. K. R. Darwin. Denkrede gehalten im collegio romano zu Rom. Giessen. 1883. 47 p. 16°.

Miller, S. A. The American palaeozoic fossils: a catalogue of the genera and species, with names of authors, dates, places of publication, groups of rocks in which found, and the etymology and signification of the words, and an introduction devoted to the stratigraphical geology of the palaeozoic rocks. Cincinnati, *Author*. 1877. 16 + 246 p. 1883. P. 247-334. 8°. P. 247-334 form a supplement.

Morel, C., et Duval, M. Manuel de l'anatomiste. Paris, *Asselin*. 1883. 14 + 1152 p. illustr. 8°.

Nadaillac, marquis de. L'Atlantide et les oscillations de l'écorce terrestre. Paris, *Gervais*. 1882. 24 p. 8°.

Noack, Ernst. Ueber die phenylester der phosphorigen säure. Inaug. diss. Tübingen, *Fries*. 1882. 42 p. 8°.

Oppolzer, T. von. Lehrbuch zur bahnbestimmung der kometen und planeten. 2. aufl. i bd. Leipzig, *Engelmann*. 1882. 12 + 683 p. 8°.

Pasch, M. Vorlesungen über neuere geometrie. Leipzig. 1882. 8°.

Quenstedt, F. A. Die schöpfung der erde und ihre bewohner. Stuttgart. 1882. 59 p. 8°.

Questions controversées de l'histoire et de la science. 3e série. Paris, *Tardieu*. 1882. 333 p. 8°.

Rehm, H. Ascomycetes lojkani lecti in Hungaria Transsylvania et Galicia. Budapest. 1882. 4 + 70 p. 8°.

Reinsch, P. F. Mikrophotographien über die strukturverhältnisse und zusammensetzung der steinkohle der carbon, entnommen von mikroskopischen durchschnitten der steinkohlen. Leipzig, *Weigel*. 13 p., 13 pl. 4°.

Richthofen, F., freiherr von. China. Ergebnisse eigener reisen und darauf gegründeter studien. 1. u. 2. bd. Palaeontologischer theil. Berlin. 1883. illustr. 4°.

Ruszn, Karl. Die sprechenden papageien. Berlin, *Gerschel*. 1882. 16 + 404 p. 8°.

Simony, Friedrich. Gletscherphänomene. Wien, *Hölzel*. 1883. 24 p., pl. 8°.

Stitzenberger, E. Lichenes helvetici eorumque stationes et distributis. Fasc. i. St. Gallen, *Köppel*. 268 p. 8°.

Strasser, H. Zur lehre von der ortsbewegung der fische durch biegungen des liebes und der unpaaren flossen, mit berückichtigung verwandter locomotionsformen. Stuttgart. 1882. 8°.

Sydney, N. S. W. — Observatory. Results of double star measures made at the observatory, 1871 to 1881, under the direction of H. C. Russell. Sydney. 1882. 68 p. 8°.

Thomas, Cyrus. A study of the manuscript Twano; with an introduction by D. G. Brinton. (U.S. geogr. geol. surv. Rocky Mt. region. — Contrib. Amer. ethnology v.) Wash., *Government*. 1882. 37 + 237 p., 9 pl. 4°.

Thomsen, Jul. Thermochemische untersuchungen. ii. bd., metalloide. Leipzig, *Barth*. 1882. 14 + 506 p., pl. 8°.

U.S. — Light house board. Annual report for the year ending June 30, 1882. Wash., *Government*. 1882. 8°.

Vaile, O. E. Pro and con of spelling reform. Ed. by Eliza B. Burnz. N.Y., *Burns*. 1882. 16 p. 12°.

Vogt, C. et Yung, E. Traité d'anatomie comparée pratique. Livr. i. Paris, *Reinwald*. 1883. 80 p. 8°. To be completed in 12 parts.

Vogt, K., and Specht, F. Die säugetiere in wort und bild. Lief. i. München. 1882. illustr. f°.

Wake, C. S. The origin and significance of the great pyramid. Lond., *Reeves*. 1883. 98 p. 8°.

Wright, L. Light: a course of experimental optics, chiefly with the lantern. London. 1882. illustr. 8°.

Wood, T. Practical lessons on insect life. Lond., *Hughes*. 1883. 172 p. 12°.