

ture of the family and of society; 2°, *customary*, or in harmony with the habits and sentiments of every-day life and law; 3°, *impartial*, affording to both sexes equal opportunities for culture; 4°, *economical*, using school-funds to the best advantage; 5°, *convenient* both to superintendent and teachers in assigning, grading, instruction, and discipline; and, 6°, *beneficial* to the minds, morals, habits, and development of the pupils. The pamphlet concludes by observing that "both the general instruction of girls, and the common employment of women as public-school teachers, depend, to a very great degree, on the prevalence of co-education, and that a general discontinuance of it would entail either much increased expense for additional buildings and teachers, or a withdrawal of educational privileges from the future women and mothers of the nation."

— Mr. Charles B. Dyer, a well-known collector of Cincinnati fossils, died at his home on Wednesday, July 11, after a painful illness of over three months' duration. He was for many years engaged in amassing one of the finest collections of local paleontology in the country, which now reposes in the Agassiz museum in Cambridge. His rarest fossils were collected by himself, and his industry in the pursuit of new and fine specimens was untiring. In connection with Mr. S. A. Miller, Mr. Dyer issued a few years ago, at his own expense, a pamphlet with two plates, containing descriptions of new forms from his collection, entitled 'Contributions to paleontology.' Thirty years ago Mr. Dyer retired from business with a moderate fortune, and devoted all his time to collecting. He was an eccentric man, with strong feelings, but a fast friend and a pleasant companion. He was in the seventy-eighth year of his age, and had lived in Cincinnati for over fifty-five years. His name is attached to one of the commonest crinoids of the Cincinnati rocks, *Glyptocrinus Dyeri*, and to several very rare and beautiful forms discovered by him.

— The Imperial geographical society of St. Petersburg has awarded its great gold medal to H. W. Abich for his researches into the geology of the Caucasus. The Lütke medal was received by W. K. Döllen of the Pulkova observatory for improvements in astronomical instruments; Vitkoffski, Barsoff, and Krasnoperoff have received medals for ethnographic and statistical works; Oshanin, for travels in Turkistan, etc. Silver medals were awarded to Brunoff for meteorological researches, and to Lessar, Schultz, Gladisheff, Kiseleff, Rodionoff, and Slovtsoff for surveys and journeys, chiefly on the Asiatic frontier of Russia.

— The observatory at Moscow was among the establishments of the northern hemisphere which cooperated with Mr. David Gill, Her majesty's astronomer at Cape Town, in securing observations of the small planet Victoria, at its late opposition, for a new determination of the solar parallax. The ninth volume (livraison i.) of the *Annales* of this institution contains the results of these observations, together with several papers by its director, Dr. Bredichin, relating to comets and allied subjects.

RECENT BOOKS AND PAMPHLETS.

* * * *Continuations and brief papers extracted from serial literature without repagination are not included in this list. Exceptions are made for annual reports of American institutions, newly established periodicals, and memoirs of considerable extent.*

Hospitalier, E. Formulaire pratique de l'électricité. année I. 1883. Paris, 1883. 280 p., illustr. 12°.

Huxley, T. H. Il gambero. Introduzione allo studio della zoologia. Milano, 1883. 352 p. 8°.

Johnston's Botanical atlas; with explanatory text. 2 vols. (i. Phanerogams; ii. Cryptogams). London, 1883. 52 pl. 4°.

Jónas, J. Studien und vorschläge auf dem gebiete des lebensversicherungs-geschäftes. Berlin, 1883. 83 p. 8°.

Kloeber, C. Der pilzsammler. Genaue beschreibung der in Deutschland und den angrenzenden ländern wachsenden speiseschwämme nebst zubereitung für die küche, sowie kultur-anweisung der champignonzucht. Quedlinburg, 1883. illustr. 8°.

Kobelt, W. Iconographie der schalentragenden europäischen meeresconchylien. heft I. Kassel, Fischer, 1883. 16 p., 4 lith. 4°.

Krok, O. B., och S. Almqvist. Svensk flora för skolor. i. Phanerogamer. Stockholm, 1883. 26+198 p. 8°.

Le Monnier, G. Dix leçons de botanique. Paris, 1883. 124 fig. 12°.

Lepsius, R. Das Mainzer becken, geologischer beschreibung. Darmst., 1883. illustr. 4°.

Luhmann, E. Die fabrikation der dachpappe und der anstrichmasse für pappdächer in verbindung mit der theerdestillation nebst anfertigung aller arten von pappbedachungen und asphaltirungen. Wien, 1883. 256 p., illustr. 8°.

Magaud, L. Les oiseaux de la France. Première monographie: corvidés. Histoire naturelle et particulière des passe-reaux déodactyles cultri-rostrés observés en France. Paris, 1883. 4°.

Medical era. vol. i., no. 1. Chicago, Gross & Delbridge, July, 1883. 8+32 p. 8° m.

Mina-Palumbo, F. Monografia botanica ed agraria sulla coltivazione dei pistacchi in Sicilia. Palermo, Lauriel, 1883. 272 p., 28 pl. 8°.

Nazzari, I. Trattato d'idraulica pratica. vol. i. Milano, Hoepli, 1883. 646 p. 8°.

Patouillard, N. Tabulae analyticae Fungorum. Descriptions et analyses microscopiques des champignons nouveaux, rares ou critiques. cent. i. Poligny, 1883. illustr. 8°.

Pattison, M. M. Chemists. London, 1883. (Heroes of science.) illustr. roy. 8°.

Petermann, A. Recherches de chimie et de physiologie appliquées à l'agriculture. Analyses de matières fertilisantes et alimentaires. 1872-82. Bruxelles, 1883. 448 p. 8°.

Peters, P. Darstellung elliptischer functionen durch flächen. Königsberg, 1883. 32 p. 4°.

Pucci, E. Fondamenti di geodisia. vol. i. Milano, Hoepli, 1883. 403 p. 8°.

Rovelli, C. La teoria delle funzione potenziale di Green applicata allo studio dei fenomeni della gravitazione universale. Como, Franchi, 1883. 96 p. 8°.

Saint-Lager. Des origines des sciences naturelles. Paris, 1883. 134 p. 8°.

Sauvage, H. E. La grande pêche (poissons). Paris, 1883. illustr. 8°.

Slack, J. H. Practical trout-culture. New York, 1883. illustr. 8°.

Strasser, H. Zur kenntniss der funktionellen anpassung der quergestreiften muskeln. Stuttgart, 1883. 115 p. 8°.

Targioni-Tozzetti, A. Ortotteri agrari. Firenze, 1882. illustr. 8°.

Toula, F. Geologische karte von Oesterreich-Ungarn nebst Bosnien und Herzegovina. Wien, 1882. f°.

Vallot, J. Études sur la flore du Sénégal. fasc. i. Paris, 1883. 80 p., pl. 8°. [To contain 6-8 fasc.]

Vélain, Ch. Cours élémentaire de géologie stratigraphique. Paris, 1883. 316 p., illustr. 12°.

— Excursion géologique dans le Morvan. Paris, 1883. 129 p., illustr. 4°.

Vielle, J. Cours de physique. tome i. Physique moléculaire, partie I. Paris, 1883. 511 p., 259 fig. 8°.

Wernicke, A. Grundzüge der elementar-mechanik. Braunschweig, 1883. 448 p., illustr. 8°.

Zoltz, A. de. Principii della eguaglianza di poliedri e di poligoni sferici. Milano, Breda, 1883. 48 p. 8°.