

Professor Bolton's Catalogue of scientific and technical periodicals. Proof-sheets have been sent to the leading libraries of the country, with the request that it should be noted what journals might be on their shelves; so that we shall have a complete list of available scientific periodicals.

—The Johns Hopkins university circular for June is given up to a statement of the work of the past year, and a programme of the courses offered for the year 1883-84.

—According to *Nature*, the emperor of Austria, on June 5, inaugurated the new Vienna observatory on the Turken Schanze, in the northern outskirts of the town. The new building has taken nine years to construct; and during that time the present director has travelled all over Europe and America in order to study the construction and equipment of the best observatories. The result is, that the Vienna observatory is probably one of the most complete in existence.

—Dr. Ph. Paulitschke's work on the '*Geographische erforschung des afrikanischen continents*' (Vienna, 1880), in which he gave a brief statement of the work of all explorers from ancient times down to the date of publication, is now supplemented by his '*Afrika-literatur in der zeit von 1500 bis 1750 n. Chr.*' (Vienna, 1882), —a work of 122 pages, with 1,212 titles. Valuable cartographic aid to study in the same direction is given in H. Kiepert's maps of the progress of African exploration from 1750 to 1873, and of the expeditions of this century, colored according to their nationality; these being published in the journal of the Berlin geographical society in 1873 and 1874, and again in the ten larger scale charts of inner Africa by Petermann and Hasenstein, issued as a supplement to the *Mittheilungen* in 1883.

—Mr. W. G. Black is preparing the index for his Folk-medicine, already in print, and to be issued immediately by the Folk-lore society. The work treats of the origin and communication of disease, and the influence in folk-medicine of charms, saints, and heavenly bodies.

The same society hopes soon to obtain for publication a collection of Zulu nursery literature, which has been in the hands of Bishop Callaway for ten years. This will be an addition to folk-lore of very great interest and value.

RECENT BOOKS AND PAMPHLETS.

Adrian, T. Ueber projectivitäts- und dualitäts-beziehungen im gebiete mehrfach unendlicher kegelschnittschaaren. Berlin, 1882. 54 p. 8°.

Ambühl, G. Anleitung zur milchprüfung. St. Gallen, Huber, 1883. 43 p. 8°.

Amunátegui, M. L. El terremoto del 13 mayo de 1647. Santiago de Chile, 1883. 620 p. 4°.

Ballard, H. H. Hand-book of the St. Nicholas Agassiz association. Pittsfield, *Axtell & Pomeroy, pr.*, 1882. 5+85 p. 24°.

Barron, A. F. Vines and vine-culture: being a treatise on the cultivation of the grape-vine, with description of the principal varieties. London, 1883. 240 p., illustr. 8°.

Bastian, A. Volkerstämme am Brahmaputra und verwandtschaftliche nachbarn. Berlin, *Dümmlers*, 1883. 70+130 p., 2 col. pl. 8°.

Béchamps. Les microzymas dans leurs rapports avec l'hétérogénéité, l'histogénie, la physiologie et la pathologie. Paris, 1883. 8°.

Behrend, G. Eis- und kälteerzeugungs-maschinen, nebst einer anzahl ausgeführter anlagen zur erzeugung von eis, abkühlung von flüssigkeiten und räumen. Halle, 1883. 8°.

Bersch, J. Die verwerthung des holzes auf chemischem wege. Die fabrikation von oxalsäure, alkohol und cellulose, der gerbstoff- und farbstoff-extracte aus rinden und hölzern, der ätherischen öle und harze. Wien, 1883. 368 p., illustr. 8°.

Bleunard, A. Le mouvement et la matière. Lectures sur la physique et la chimie. Paris, 1883. 374 p., illustr. 8°.

Branco, W., und Reiss, W. Ueber eine fossile säugethierfauna von Punin bei Riobamba in Ecuador. Mit geologischer einleitung. Berlin, 1883. 166 p. gr. 4°.

Brown, J. E. The forest flora of South Australia. part i. London, 1883. pl. f°.

Buccola, G. La legge del tempo nei fenomeni del pensiero; saggio di psicologia sperimentale. Milano, *Dumolard*, 1883. *Bibl. intern.* 15+432 p. 8°.

Buckland, F. Log-book of a fisherman and zoölogist. New edit. London, 1883. 352 p., illustr. 8°.

Candolle, A. de. L'origine delle piante coltivate. Milano, 1883. 644 p. 8°.

Cantor, G. Grundlagen einer allgemeinen mannigfaltigkeitslehre, mathematisch-philosophischer versuch in der lehre des unendlichen. Leipzig, *Teubner*, 1883. 51 p. 8°.

Cerón, S. Estudio sobre los materiales y efectos usados en la marina. Cádiz, 1883. 652 p., illustr. 4°.

Congresso geografico internazionale terzo tenuto a Venezia dal 15 al 22 settembre, 1881. vol. i. Notizie e rendiconti. Roma, *Soc. geogr. ital.*, 1882. 404 p., pl. 8°.

Cotteau, Peron, et Gauthier. Échinides fossiles de l'Algérie. fasc. i. Terrains jurassiques. Paris, 1883. 79 p., illustr. 8°.

Credner, H. Geologische profile durch den boden der stadt Leipzig und deren nächster umgebung. Leipzig, *Hinrichs*, 1883. 5+71 p., pl. f°.

Dawidowsky, F. Fabrication of glue, gelatine, cements, pastes, mucilages, etc. Translated from the German, with additions, by W. T. Braunt. Philadelphia, 1883. 275 p. 12°.

Dodel-Port, A. Illustrirtes pflanzenleben. Gemeinverständliche originalabhandlungen über die interessantesten und wichtigsten fragen der pflanzenkunde. Zürich, 1883. 490 p., illustr. 8°.

Faà di Bruno, F. Théorie des formes binaires. Turin, 1883. illustr. 8°.

Faber, G. L. The fisheries of the Adriatic and the fish thereof, with a systematic list of the Adriatic fauna. Preceded by an introduction by Günther. London, 1883. illustr. 4°.

Falkenburg, C. Neue schieberdiagramme und neue theorie der dampfvertheilung in anwendung auf die steuerung der stationären und locomotorischen dampfmashinen. Leipzig, 1883. 8°.

Faramelli, T. Descrizione geologica della provincia di Pavia, con annessa carta geologica a colori nella scala di 1 per 200,000. Milano, 1882. 104 p. 4°.

Graetz, L. Die elektricität und ihre anwendungen zur beleuchtung, kraftübertragung, metallurgie, telephonie, und telegraphie. Stuttgart, 1883. illustr. 8°.

Gross, V. Les Protohelvètes ou les premiers colons sur les bords des lacs de Bienne et Neuchâtel. Avec préface de Virchow. Berlin, 1883. 120 p., illustr. 4°.

Halphen. Mémoire sur la réduction des équations différentielles linéaires aux formes intégrales. Paris, 1883. 301 p. 4°.

Harting, J. E. Sketches of bird life from 20 years' observations of their haunts and habits. London, 1883. 302 p., illustr. 8°.

Heen, M. P. de. De la dilatabilité de quelques liquides organiques et des solutions salines. Bruxelles, 1883. 51 p., illustr. 8°.

Helderich, T. de. Flore de l'île de Céphalonne ou catalogue des plantes, qui croissent naturellement et se cultivent le plus fréquemment dans cette île. Lausanne, *Beidel*, 1883. 90 p. 8°.

Hellriegel, H. Beiträge zu den naturwissenschaftlichen grundlagen des Ackerbaues. Braunschweig, 1883. 8°.

Herbert, D., edit. Selection from the prize essays of the International fisheries exhibition, Edinburgh, 1882. New York, 1883. illustr. 8°.

Hofmann, E. Der käfersammler. Stuttgart, 1883. illustr. 8°.