

# New Books.

**HAND-BOOK OF CANADIAN GEOLOGY.** By SIR WILLIAM DAWSON, F.R.S., Principal of McGill University. Montreal: Dawson Brothers.

This purports to be a complete manual of the geology of Canada, and, while valuable as a scientific work of reference, is of no little interest to the average reader of ordinary intelligence. No living writer is more competent than the author to deal with this subject, and there is no subject that the author himself is more competent to deal with than Canadian geology.

**THE WORKING AND MANAGEMENT OF AN ENGLISH RAILWAY.** By GEORGE FINDLAY, Assoc. Inst. C.E., General Manager London and North-Western Railway. London: Whittaker & Co., and George Bell & Sons.

The magnitude of the subject embraced in the title of this book has not prevented the writer entering into a thousand and one of the little details of railway management, which, while of special interest to railway men, are also of absorbing interest to the general reader. There is probably no railway in the world that cannot learn, that has not learnt, something from the London and North-Western. There is no living man more intimately acquainted with the working of that line and with railway matters generally than Mr. Findlay. Although the work originally took the form of a lecture delivered before the Royal Engineers at the School of Military Engineering, Brompton, and treats particularly of the use of railways for military purposes, there is hardly a branch of railway business ignored. The general public will find the book full of interesting revelations about railway organisation, and the training, discipline, and experiences of the various grades of railway employes. Railway officials in Canada will doubtless be much interested in comparing the methods in vogue on Canadian and American railways with those described by Mr. Findlay. Not the least surprising revelation in the book is the chapter which deals with railways from a military point of view, and which shows unexpected perfection in the preparations made under Government control for utilising the railways of the United Kingdom for defensive purposes in case of invasion. Bismarck is credited with a grim *bon mot* to the effect that he knew of five ways of an enemy getting into England, but not one of getting out again. The English railways will probably not be of much service to the enemy in either operation.

**ENCYCLOPÆDIA BRITANNICA.** Montreal: Canadian Subscription and Publishing Co., 647 Craig Street.

This is a cheap enough edition (\$3 per volume) of the acknowledged first and greatest of encyclopædias; a reprint published by the Henry G. Allen Company, in twenty-four volumes. While the best possible edition of a work of this kind can be none too good, these cheap reprints bring the book within the reach of a very numerous class of students to whom the authorised English edition is unattainable. This reprint is a marvel of cheapness.

**THE PATENTS, DESIGNS, AND TRADE MARKS ACTS, 1883 TO 1888.** By WM. NORTON LAWSON, M.A., o Lincoln's Inn. 2nd Edition. Published by Butterworths.

This work does not claim to deal with the whole subject of the law of patents, but as an interpretation of the English Acts from 1883 to 1888, will be found exceedingly useful, and is not without practical interest and suggestiveness to patent experts in this country. The subjects specifically treated are:—(a) How to obtain Letters Patent; (b) Oppositions to the Grant; (c) Amendments of Specification; (d) Oppositions to Amendments; (e) Compulsory Licences; (f) Prolongations; (g) Actions for Infringement; (h) Action to restrain Threats; (i) Revocation proceedings.

**TRANSACTIONS OF THE AMERICAN INSTITUTE OF MINING ENGINEERS.** Vol. XVII. Published by the Institute, New York.

This bulky volume covers the transactions of the Institute, and papers read before it, from May, 1888, to February, 1889, inclusive. It contains, besides a full report of the annual proceedings, a copy of the rules of the Institute, with a full list of the various orders of members, and other information of general interest to them. The papers included cover a vast mass of facts and a great variety of subjects of profound interest to practical scientists. The papers have the advantage of having been revised by their authors since they were first printed.

The volume is sent free to members of the Institute, and is also for sale. All communications should be addressed to—R. W. Raymond, Secretary, P.O. Box 223, New York City.

We also beg to acknowledge receipt of the following pamphlets, issued by the Institute, for November, 1889, some of which detailed reference will be made to later on:—

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| BLOW:       | The Geology and Ore Deposits of Iron Hill, Leadville, Colorado.                    |
| CHAUVENET:  | The Iron Resources of Colorado.  |
| GOODALE:    | Notes on the Additional Diaphragm in the Howell Roasting Furnace.                  |
| SCHWARZ:    | The Ore Deposits of Red Mountain, Ouray County, Colorado.                          |
| ASHBURNER:  | The Coal Trade and Miners' Wages in the United States for the year 1888.           |
| OLMSTED:    | The Distribution of Phosphorous in the Hudson River Carbonates.                    |
| FIRMSTONE:  | Note on the Form of Crater Produced by Exploding Gunpowder in a Homogeneous Solid. |
| DUDLEY:     | The Wear of Rails as Related to Their Section.                                     |
| KEEP:       | Aluminum in Cast-Iron.   |
| PROCEEDINGS | of the Fifty-fifth Meeting, Ottawa, Ont., October, 1889.                           |
| GILPIN:     | The Geological Relations of the Principal Nova Scotia Minerals.                    |
| RANDOLPH:   | Notes on the Republic of Colombia, S.A.  |
| RAYMOND:    | Biographical Notice of Wm. H. Scranton.  |
| NEWBERRY:   | Notes on the Geology of the Aspen Mining District.                                 |