

TORONTO STREET RAILWAY ANNUAL MEETING.

The seventeenth annual report of the Toronto Street Railway Company has just been issued. This company was incorporated in 1892, and according to the terms of its franchise the company is obliged to make the following payments to the city of Toronto. For each mile of single track \$800 per year, and for each mile of double track \$1,600 per year, and in addition a progressive percentage of the gross receipts of the company as follows:—8 per cent. of the gross receipts until they reach \$1,000,000; 10 per cent. between \$1,000,000 and \$1,500,000; 12 per cent. between \$1,500,000 and \$2,000,000; 15 per cent. between \$2,000,000 and \$3,000,000, and 20 per cent. of all gross receipts over \$3,000,000 in any one year.

The capital stock of the company is \$8,000,000, and on this they paid 7 per cent. dividends for the year 1908. During the same year the gross receipts were \$3,566,493.72, and the maintenance and operating expenses \$1,889,046.62, making the per cent. of the operating expenses to gross earnings 52.9 or 1 per cent. less than last year.

The following comparative statement is of considerable interest, and comparing the percentage of expenses to earning and passengers travelled, will bring out interesting result. One noticeable increase is in the number of transfers collected and also that accompanying an increase of over one million in revenue since 1904, there has been a falling off of almost 6 per cent. in expenses, while with an increase of almost two and a half million since 1898 in revenue, there has been an increase in expense ratio of some 5 per cent.

The company operate 114 miles of track in a city of 350,000 population, and collect on an average 4.001 cents per passenger carried. Fares charged are:—Children, 10 fares for 25 cents; limited hour tickets, 8 for 25 cents; regular, 6 for 25 cents; Sunday tickets, 7 for 25 cents; cash fares, 5 cents; night fares, 10 cents.

Comparative Statement.

	1908.	1907.	1904.	1901.	1898.
Gross Income	3,610,274.98	3,511,197.86	2,444,534.24	1,661,917.50	1,210,618.24
Operating Expenses	1,889,046.62	1,893,236.41	1,424,179.54	857,612.16	578,857.26
Net Earnings	1,721,228.36	1,617,961.45	1,020,354.70	803,405.40	631,760.98
Passengers carried	89,139,571	85,574,788	60,127,460	39,848,087	28,710,388
Transfers	32,700,576	31,370,825	20,480,270	13,759,038	9,287,239
Percentage of operating expenses to earnings	52.9	53.9	58.2	51.6	47.4

SOCIETY NOTES.

American Institute of Electrical Engineers, Toronto.

The Toronto Section of the American Institute of Electrical Engineers met for the regular monthly meeting on January 22nd, in joint session with the Society of Chemical Industry.

Previous to the meeting, forty-three members of the two societies enjoyed an informal luncheon in the St. Charles Café, after which at 8 p.m., the meeting was called to order at the Engineers' Club, with seventy-six members present.

Mr. J. C. King, of the Willson Carbide Company, St. Catharines, Ont., presented an original paper entitled "Electro-metallurgical Processes." The paper covered the subject very fully and traced the development of the Electro-metallurgical industry from the very earliest dates. The paper was accompanied by a number of drawings of recent designs in electrical furnaces with a full description of each type and present day practices.

The paper was one of great interest to all present which was demonstrated by the very active discussion which followed the reading of the paper. This discussion being participated in by the following gentlemen; Vice-Chairman Vanderlind, Prof. Lash Miller, Messrs. S. Dushman, Young, E. B. Merrill, Zimmerman, ex-Ald. Thomas Davies, Messrs. F. Smallpiece, E. M. Ashworth, W. Almon Hare, J. E. F. Wyse, W. H. Eisenbeis, Prof. Lang, Prof. Bain, Dr. Ellis, and Dr. Heebner.

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BOOK REVIEWS.

[Books reviewed in these columns may be obtained from the Book Department of the Canadian Engineer.]

Report of the Mining and Metallurgical Industries of Canada, 1907-8, Issued January, 1909.—This report has been issued to meet the increasing demand of the Department of Mines for information on the mining and metallurgical industries of Canada; not only in the Dominion, but from all parts of the world; and at the same time is in compliance with the requirements of "The Geology and Mines Act, 1907," (see introductory statement by Dr. Eugene Haanel, Director of Mines, p. 15). The work comprises 936 pages of text, descriptive of all the metallic and non-metallic mineral mines; and metallurgical and clay industries in the Dominion, from the Atlantic to the Pacific; illustrated by some 144 engravings and drawings, and mineral maps of the respective provinces. The maps alone render the report a valuable acquisition to the desk of every business man in the country; since not only are they up-to-date as regards the topography of Canada, but the locations of known metallic ore and commercial mineral deposits being worked, are marked thereon.

A brief historical sketch prefaces the industrial review of each province, and a description of the magnitude, equipment and mode of operation of every important mine and plant mentioned is given, together with the capitalization and personnel of each organization or company. In the copious index, some 1,500 names of owners, or companies are recorded, alphabetically.

While the report is actually a directory of the mining and mineral industries of the Dominion, it differs from all such hitherto published on the American continent, in the fact that it is not a mere inventory, but has attractive features interesting to everyone engaged in trade and commerce, and eager for the industrial progress of Canada; since in addition to the specification of the many mines and industrial concerns, it contains valuable historical notes, essential geological monographs, analyses of materials, descriptions of equipment, and reliable statistical tables.

The demand for the volume is already large, and promises to exceed the supply. And inasmuch as the production of the report has been costly, the Department has seen fit to publish the work at one dollar, which ensures its getting into the hands of those for whom it is intended, namely, those directly interested in the practical development of the metal and mineral resources of Canada.

Every business man desirous of knowing the extent, magnitude and importance of the mining and metallurgical industries of Canada, should possess a copy of this valuable report; just issued by the Dominion Government, at a time when the country is on the threshold of great industrial development. All communications with regard to the report should be addressed to Dr. Eugene Haanel, Director of Mines, Ottawa.

The Science Year Book and Diary for 1909.—Published by King, Sell and Olding, Limited, 27 Chancery Lane, London, W. C. Pages, 400. Size, 6 x 9. Price, \$1.25. Edited by Major B. F. S. Baden-Powell, who is the author of many popular books, this volume contains valuable astronomical, physical and chemical tables, together with a summary of progress in science, by E. Sharpe Grew, which deals generally with astronomy, bacteriology, botany, geography, heredity and physics. One section gives a glossary of recently introduced scientific terms and names, while a useful directory which embraces scientific and technical periodicals, public