this slight error in our facts; but can not withdraw our specific allegation, that the electrical energy available for furnace work is miserably deficient. Dr. Stansfield's letter emphatically confirms this. He says:—

> Even 30 kilowatts is, however, too little for a satisfactory test on the electrical production of crucible steel, and a transformer of at least 50 kilowatts fitted for delivering the current to the furnace at a suitable voltage would be needed.

Of a truth, this is evidence "strong as holy writ," that our criticism and plea was well timed.

When wealthy men in Canada are looking around for a worthy object on which to place a rich endowment, we can point to one, that would bring forth fruit a thousand fold, namely, the metallurgical department of McGill University, Montreal.

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Important Foundry Enterprise at Fort William.

In March we closed our biographical sketch of Mr. T. J. Drummond, "the leading pioneer in the enterprise of iron-making in the Dominion," as follows:—

> "We are on the threshold of great things in iron and steel, and, reasoning from the known to the unknown, we fear not to predict, that Thomas Joseph Drummond—whose worthy business record we have briefly told, will play an important part in the industrial development of Canada."

On Tuesday morning, October 4, Mr. Drummond, as Vice-President of the Canadian Iron & Foundry Company, turned the first sod at Fort William, Ont., for the erection of large modern foundries for the manufacture of railway car wheels and general castings: including cast iron, water, and gas pipes. At a recent meeting of the Engineers' Club, Toronto, we openly declared that one of finest openings out west was for a modern pipe founding plant; and lo, here comes the announcement, that one is to be built straightway at the "gateway of the west!" The promoters are to be congratulated upon this fine stroke of industrial policy. The time is most opportune, and the place selected ideal: cheap electric power from Kakabeka Falls, 16 miles away, and pig-iron from the fine modern blast furnace now in course of erection at Port Arthur, near by, while as a distributing centre for the west it is the most strategic point in the Dominion.

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BOOKS RECEIVED.

Bentley Publishing Company, Halifax, England.
By Wallace Bentley, M. I. Mech. E.

Machine Shop Companion.—Comprising practical notes, rules and tables for everyday workshop use, with chapter on screw-cutting. Size 3¾ x 5¾, pp. 98. (Price, 1s.) net.

Practical Workshop Mechanics.—Size, 3⅞ x 5⅞, pp. 50. (Price, 6d. net.)

Questions in Applied Mechanics.—With answers and illustrations. Size, 4¾ x 7⅛, pp. 36. (Price, 6d. net.)

Questions in Machine Construction and Drawing.—For the use of students preparing for engineering examinations, etc. Size, 4⅞ x 7⅛, pp. 41. (Price, 6d. net.)

Rules and Definitions.—Specially arranged for the use of students in engineering subjects. Size, 4⅝ x 7⅛, pp. 42. (Price. 6d. net.)

Sketches of Engine and Machine Details.—Size, 5¾ x 8½, pp. 103. (Price, 3s., net.)

The Economics of Railroad Construction.—By Walter Loring Webb, C. E., New York: John Wiley & Sons. Size, 5¾ x 8¼, pp. 339.

The Principles and Practice of Surveying.—By Charles B. Breed and Geo. L. Hosmer, Instructors in Civil Engineering, Massachusetts Institute of Technology, New York: John Wiley & Sons. Size, 6¼ x 9¼, pp. 526. Price, $3 net).

Problems in Surveying, Railroad Surveying and Geodesy, with an appendix on the adjustment of the engineer's transit and level. By H. C. Ives, and H. E. Hilts, University of Pennsylvania, New York: John Wiley & Sons, 1906. Size, 4¼ x 7, pp. 136. (Price, $1.50 net).

American Stationary Engineering.—Facts, rules and general information gathered from thirty years' practical experience as running, erecting, and designing engineer. By W. E. Crane, New York: The Derry-Collard Co., 1906. Size, 5¾ x 8, pp. 285. (Price, $2 net).

Reed's Iron and Steel Founding.—By Claude Wylie, London: Thomas Reed and Co., Limited. Size, 5 x 7½, pp 376. (Price, $1.10 net).

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NEW PUBLICATIONS.

The Electrical Plant of the Ontario Power Co. being a paper presented by V. G. Converse, at the 16th annual convention of the Canadian Electrical Association, Niagara Falls, June 19-21, 1906. The paper deals principally with the electrical features of the Power Company's plant. Size, 6¾" x 9¾", pp. 24.

Street Railway Journal.—This year's Convention Souvenir is one of the handsomest and most noteworthy issues of a technical paper that has ever been published. It contains over 500 pages ,and weighs some 5 pounds. The occasion celebrated is the Annual Convention of the American Street and Inter-urban Railway Association at Columbus, Ohio. Published by the "Street Railway Journal," 114 Liberty St., New York.

American Mining Congress.—The papers and addresses of the eighth annual session of the American Mining Congress, held at El Paso, Texas, 1905. Published by the Congress, at the Office of the Secretary, Denver, Col. Size, 6" x 9¼", pp. 214.

Michigan College of Mines.—The year book of the college for 1905-06 has just been issued. It contains all particulars in connection with the college, and gives a report of the season's work. Accompanying this is a book of very excellent views taken at the college. Copies may be obtained by addressing the Michigan College of Mines, Houghton, Mich. Size, 5¼" x 7¼", pp. 132.

Zinc Resources of British Columbia.—The report of the Commission appointed by the Dominion Government to investigate the zinc resources of British Columbia, and the conditions affecting their exploitation, has been published at Ottawa, by the Mines Branch of the Department of the Interior, under the direction of Eugene Haanel, Superintendent of Mines. Size, 6¾" x 10", pp. 399.

Automobile Manufacturers.—Bulletin No. 18, published by the Association of Licensed Automobile Manufacturers; gives the new standard for hexagon head screws, castle, and plain nuts, as adopted by the Association, in order to overcome the confusion, inconvenience and expense that has been caused by the use of various standards. Copies may be obtained from the Association at 7 East Forty-second Street, New York, N. Y. Size, 8¼ x 10¾, pp. 14.

Canadian Society Civil Engineers.—Vol. XIX., part I., of the transactions of the Canadian Society of Civil Engineers from January to June, 1905. Size, 6 x 9, pp. 248.

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CATALOGUES AND CIRCULARS.

Water Wheel Governors.—The Lombard-Replogle Engineering Co., Akron, Ohio. Bulletin "A" presents the water-wheel governor manufactured by this company, the Bulletin sets forth the general principles of the governor, and gives particulars of the various types and sizes manufactured. Size, 6 x 9½, pp. 4.

Padlocks.—Yale & Towne Manufacturing Co., 9 Murray St., New York, N.Y. "Suggestions for selling Yale padlocks" is the title of a booklet, which gives many bright ideas that may be used by the retailer of the above company's goods. It describes and illustrates the different kinds of stationary which they are always pleased to send out to their customers. Size, 3½" x 7¾", pp. 30.

Arc Lamps.—Packard Electric Company, St. Catharines, Ont. A neat circular received this month describes the Jandus Interchangeable Arc Lamp, for public and private arc lighting. It is suited to all circuits and is perfectly interchangeable. Size, 3½" x 6", pp. 2.

Direct Current Dynamos and Motors.—Canadian Westinghouse Co., Limited, Hamilton, Ont. Circular No. 1,068, July, 1906, sets forth, by description and illustration, type S, Dynamos and Motors, for direct current. Size, 7" x 10", pp. 14.