

Ill., some valuable information to boilerers relative to prolonging the life of boiler is given.

Mr. J. Castell Hopkins, the editor and compiler, has sent us a copy of *The Canadian Annual Review*, for 1902, published by the Annual Review Co., Toronto. The fact of Mr. Hopkins' connection with the publication commends it at once not only to all Canadians but to all who are interested in the history of Canada and in the events which are making the history of the world. The different divisions of the book relates to the government and politics of Canada: relations of Canada with the Empire: Canada's connection with its war in South Africa; relations with foreign countries, militia, finance, transportation interests, agriculture, trade and commerce, manufacturing, mineral and other industries, the labor question, etc., and reference is also made to the Imperial and other British Governments. The book is handsomely bound, beautifully illustrated, and just the thing for the busy man who needs a comprehensive encyclopaedia close at hand under his study lamp.

"Industries," our bright, sprightly and always interesting contemporary at Durban, South Africa has sent us a Christmas souvenir "with all good wishes." "Industries" is a regular visitor at our desk, and through it we obtain much valuable information of what is transpiring in that portion of "The King's Dominion beyond the Seas."

The Jeffrey Mfg. Co. Columbus, Ohio, have sent us their circular No. 77 having reference to their "Jeffrey Grab Buckets" some of the enumerated points of excellence being, will work in ore mine-run coal, broken limestone, gravel and sand; absolutely self-filling; will excavate in clay, gravel and soft earth; will handle materials soft or cold, wet or dry, up, down, straight-along, side-wise, any size and any distance. Interested parties should write for further particulars.

The Canada Chemical Mfg. Co., London, Ont., have sent us a circular having reference to the Tri-Sodium Phosphate Boiler Compound manufactured by them. We are informed that it will remove the scale from any steam boiler, and will prevent scale from forming.

O. P. Austin Esq., Chief of Bureau of Statistics, Washington, D.C., has sent us a document entitled "Diplomatic and Consular Service of the United States," which presents a full list of the consular representatives of the United States in all parts of the world, and maps showing the location of each embassy, legation, consulate, consular agency, etc., in all parts of the world. This list of names, and especially the maps, cannot but be of great use for reference by those who are interested in foreign trade, and will without doubt, be retained for permanent reference.

D. Sleeth, Montreal, general agent for Canada for Lord's boiler compounds, has sent us a convenient desk blotting pad upon which allusions are made to the value of these compounds for the purposes indicated.

The Blue Printing & Copying Co., Toronto, are sending out a card in which is mentioned the merits of the blue print work they do, and inviting correspondence.

The Canada Foundry Co., Toronto, have begun the manufacture of the Beaver post-hole digger, the merits of which are described in a neat folder. They say of it that railway contractors and fence builders cannot afford to do without it.

The Thorn Cement Co., Buffalo, N.Y., have sent us their "Mid-Winter Pocket Reminder" in which the different points of excellence of their "Lehigh" brand of Portland cement is described.

Messrs. H. C. Baird & Son, Parkhill, Ont., manufacturers of brick and tile machinery and yard supplies, have sent us their 1904 calendar which shows a view of their Eagle Foundry and also several illustrations of the machinery they handle.

The Standard Tool Co., Cleveland, Ohio, manufacturers of twist drills, milling cutters, etc., have sent us their 1904 calendar which contains valuable and practical mechanical information.

## OPPORTUNITIES.

The following enquiries have been received at the offices of the High Commissioner for Canada in London, and at the Canadian Section of the Imperial Institute, London, England.

NOTE.—Those who may wish to correspond with any of these enquirers can obtain the names and addresses by applying to the CANADIAN MANUFACTURER, Toronto. No charge for giving information. When writing refer to the numerals opposite the enquiries, and enclose 2c. postage stamp for reply.

1172. A firm manufacturing patent paper bags of various kinds desires to be placed in communication with a first class Canadian importing house prepared to handle the goods.

1173. A London, England, firm asks addresses of Canadian shippers of black currant and other fruit pulps.

1174. A firm handling large quantities of wood acetic lime invites correspondence from Canadian producers of same.

1175. A Manchester, England, timber merchant wishes to purchase supplies of birch veneer lengths, 24, 30, 36 and 42 inches by 8 inches wide and one-thirtieth inches thick and invites quotations from Canadian firms who can furnish the article.

1176. A firm manufacturing cane and wicker furniture and also children's mail carts, etc., is prepared to appoint a suitable Canadian resident agent.

1177. A firm manufacturing picks, shovels, spades, and other implements used in railway construction asks to be placed in communication with importers of these lines.

1178. A London, England, steel and iron merchant is open to act as buying or selling agent for Canadian firms or public corporations.

1179. A firm of Australian wine importers wish to open up negotiations with

a first-class house in Canada with a view to establishing an agency for the Dominion.

1180. The makers of certain gas and electrical light fittings are making enquiry respecting the possibility of doing business with their goods in Canada.

1181. An enquiry comes from Antwerp, Holland, for iron pyrites, in lumps from Canada.

1182. A firm of paper exporters wish to get into touch with Canadian stationery houses with the object of introducing a specialty.

## LIGHTING THE WELLAND CANAL.

The Welland Canal, which is about 28 miles long, is to be equipped with 2,000 candle power series alternating current enclosed arc lamps, which are to be spaced 400 feet apart along the banks of the canal, with six lamps at each of the 27 locks. The total number of lamps will be in the neighborhood of 550. A transmission line is to be constructed along both the new and the old canal, to distribute current to the arc lamps and for power purposes.

The electrical energy for the operation of the lamps and for motor purposes will be furnished by the Lincoln Electric Light & Power Co., of St. Catharines, Ont., the supply coming from the DeCew Falls power house of the Hamilton Light & Cataract Power Co., of Hamilton, Ont.

The erection of the transmission line poles is now in progress, and tenders will shortly be called for the remainder of the construction work, also the lamps, transformers, switchboards and other apparatus which is to be installed. The amount voted by the Dominion Government for the purpose of construction work for the current year is \$100,000, and it is expected that the entire installation will be completed within two years.

The plans, specifications, details and construction of the work, as adopted by the Government, is in the hands of Mr. Roderick J. Parke, C.E.E., of Toronto.

## AN OPPORTUNITY.

Messrs. A. C. Leslie & Co., Montreal, inform us that they are in correspondence with a leading English manufacturer of a patent ice-making and refrigerating machine, made in different sizes, who wish to become in correspondence with some reliable Canadian engineering concern who would purchase the Canadian patent, or to manufacture the machines under royalty. The English company make an extensive line of such machines, which can be operated by electricity, gas, oil or steam, at prices running from \$2.50 upward. Any interested in this matter should write to Messrs. A. C. Leslie & Co. as above, for further information.

## CANADIAN ELECTRIC LIGHT COMPANIES.

The use of electric light in Canada has increased greatly during the past year. According to the report of the officers carrying out the Electric Light Inspection Act there were last year 324 plants in