

Canadian Westinghouse Co., Hamilton.—Bulletin 1109 on the Single Phase Railway System; also Bulletin 1110 on Westinghouse Catenary Line Construction. Also small booklet describing direct current motors, type R.

Westinghouse Electric and Manufacturing Co., Pittsburgh.—Bulletin 1102 describing direct current multiple arc lamp for 110 and 220 volts. Also Bulletin 1104 on portable instruments.



MISCELLANEOUS NOTES.

A. C. Leslie & Co., iron and steel merchants, Montreal, have moved to their new building at 560 St. Paul Street.

The Garlock Packing Co., of Hamilton, has removed its Montreal branch into more extensive premises, where a full supply of all packings will be kept on hand. The new address is No. 371 St. James Street.

The friends of John D. Ronald, founder of the fire engine works formerly at Brussels, and latterly of London, will be glad to hear that he is returning from California to Canada, and will take up his residence at Strathroy, Ont.

The American Radiator Company, of Chicago, known as the Radiator Trust, has purchased the old plant of the Cockshutt Plow Company, Brantford, which it will enlarge, and will make hot water boilers and radiators for Canadian trade.

The business heretofore carried on by the firm, "The Polson Iron Works," Toronto, was acquired on May 1st by "Polson Iron Works, Limited." The new company has acquired all the assets of the business and has assumed its liabilities.

The town of Campbellford, Ont., contemplates a considerable development of water power at two points on the River Trent within the control of the municipality, and has asked J. S. Fielding, consulting engineer, Toronto, to make a survey and report upon the power obtainable, and its cost.

Reports from different engineers are now being sent in to the Temiskaming Railway Commission on the question of the operating that road by electricity. These reports are being considered, and Cecil B. Smith, chief of the commission, has visited Pittsburg to enquire into the latest developments in electric haulage.

The Clarkson School of Technology, of Potsdam, N.Y., whose aim is to provide technical education of college grade, will hold a summer session beginning July 6th, and extending for six weeks. The courses include home science, as well as literature and mathematics, and a special course will be instruction in automobiles.

The Cleveland and Elyria factories of the Federal Manufacturing Company have been purchased by the Garford Company, with capital stock of \$400,000, and with Arthur L. Garford as its president. The Garford Company will continue to manufacture railway curtains and curtain fixtures and parts for pleasure automobiles and commercial power vehicles.

The Western Machine Co., lately established at 300 Arthur Street, Toronto, by A. Lowndes and George McLachlan, has turned out for J. A. Goddard, Toronto, the first automobile moving van. This vehicle is propelled by an 8 h.p. gasoline motor. The wagon box is 18 feet long by 6 feet wide and 7 feet 6 inches high, and will move at one load the contents of an ordinary eight-roomed house.

The Toronto Furnace and Crematory Company has applied to the Toronto city council for permission to establish a foundry and machine shop on Golden and Silver Avenues, and the Fairbanks-Morse Canadian Manufacturing Company, to erect a foundry on the south side of Bloor Street, west of the G.T.R. The Toronto Railway Company wish also to establish a machine and blacksmith shop at the foot of Sherbourne Street.

The Missisquoi Pulp Co., Sheldon Springs, Vt., have contracted with the Aberthaw Construction Co., of Boston, to build a concrete-steel dam across the Missisquoi river. The dam will be about 300 feet between abutments, and at all heights, from 15 feet to 38 feet. The engineers of the

dam are the Ambursen Hydraulic Construction Co., 176 Federal Street, Boston, Mass., and the work is designed to warrant the dam against the heavy ice gorges which have carried out several cribs at that point.

S. C. De Witt has been appointed sales agent for Allis-Chalmers-Bullock, Limited, Montreal, for the Maritime Provinces, with headquarters at Halifax. He is a graduate in electrical engineering of Lehigh University, Pennsylvania, and has had considerable experience in different lines of electrical work. For the past three years he was manager of the De Witt Electric Co., Ltd., with places of business at Sydney, Glace Bay, Pictou, Truro, N.S. and Fredericton, N.B. He is a son of Dr. De Witt, present mayor of Wolfville, N.S., and, being a native of the Province and well acquainted with the business in the East, will no doubt prove a valuable acquisition to the staff of the company.

E. T. Hanna, of Philadelphia, has recently been in Toronto arranging with the Canada Foundry Company, Limited, to manufacture in Canada the Canada water tube boiler, of which he is the patentee. He reports the sales of three boilers, 775 h.p., for the Toronto Water Works, and three boilers, 900 h.p., for the Chatham, Wallaceburg and Lake Erie Railroad Company. This boiler is also made at Indianapolis under the name of the Atlas water tube boiler, and is in use in fifteen States, besides Cuba, Mexico and Japan, the Japanese Government having recently installed twelve of these boilers of 400 h.p. each.

The Western Canada Flour Mills Company, comprising the A. Kelly Milling Company, of Brandon, and the Lake Huron and Manitoba Milling Company, of Goderich, will erect a 4,000-barrel mill in the vicinity of Winnipeg, together with a half million bushel storage elevator and a warehouse to hold 60,000 barrels of flour, with a complete line of new elevators throughout Manitoba, including twenty-six already in operation. The syndicate will have a total milling capacity of 6,500 barrels of flour and two hundred barrels of oatmeal daily, and will also continue the manufacture of salt in Goderich.

Ernest Brown, M.Sc., of Liverpool, Eng., the new assistant professor of applied mechanics at McGill University, graduated from University College, Liverpool, in the Science faculty of the Victoria University with first class honors in engineering, and is also master of engineering in the University of Liverpool. He has held an 1851 exhibition research scholarship. In 1900 he was appointed assistant lecturer in engineering in Liverpool, and two years ago, upon the formation of a faculty of engineering in the University of Liverpool, he was appointed lecturer in applied mechanics in that university, lecturer on strength of materials, theory of structures, hydraulics and dynamics and kinematics.

E. A. James, president of the Engineering Society of the School of Practical Science, Toronto, for 1904-5, has been appointed resident engineer for the Coldwater section of the Toronto-Sudbury branch of the C.P.R. Mr. James graduated from the School of Practical Science in 1904, and this year graduated from Toronto University in applied science, his special subjects being hydraulics and strength of materials. While still a student Mr. James did excellent work on the drainage systems of Manitoba in 1902 as engineer in charge of District No. 6, and

in 1903 as assistant engineer of the McLeod district of Alberta, where irrigation works were carried out last year.

The fourteenth annual convention of the Ontario Association of Stationary Engineers was held on May 29th in Engineers' Hall, Toronto. It was the largest meeting ever held, and delegates were present from Hamilton, London, Paris, Brantford, Niagara Falls, Kingston, Brockville, and other Ontario points. The new officers elected were as

