

A dynamo and a number of lamps have been supplied by the Royal Electric Company to the Soulanges Canal.

Wood Bros., Brantford, Ont., have recently bought from the Royal Electric Company a 70 h.p. synchronous motor.

The Montmorency Power Company, Quebec, has bought a 600 K.W. "S.K.C." generator from the Royal Electric Company.

C. E. Campbell, Weymouth, N.S., has been supplied with a direct-connected lighting plant by the Royal Electric Company.

A 300 K.W. "S.K.C." synchronous motor has been bought from the Royal Electric Company by the Golden Cache Mining Co., B.C.

The contract for building the Canadian branch of the Carborundum Works, Niagara Falls, Ont., has been secured by James Harrison. The structure will be frame 30 x 60 feet.

The B. C. Bullion Extracting Co. has made a contract with the Canadian General Electric Co. to supply a 100 horse-power synchronising motor, and a 50 horse-power induction motor for their works, which are about a mile and a half from Rossland, B.C.

John Forman, importer of electrical supplies, 644 Craig street, Montreal, has recently issued catalogue "B," which contains a great deal of useful information for all users of electrical apparatus of any kind. Edison lamp, Ericsson telephones, Anchor switches, and a great many other standard appliances, as well as numerous novelties, are always carried in stock.

J. R. Scott, an enterprising citizen of Napanee, has closed a contract with the Canadian General Electric Co. for a 100 K.W., 4,000-volt three-phase generator of the revolving field type, for the purpose of supplying light and power to Napanee from a water-power eight miles distant. He will also supply light and power to intermediate points such as Napanee Mills, Camden East, and Newburgh.

A meeting was held at the Halifax Hotel, Halifax, N.S., April 12th, 1898, at 3 p.m., for the purpose of organizing an association of all those interested in the electrical industries in the Maritime Provinces. The following gentlemen were present: John Starr, C. E. Harris, Jas. Waddell, N. L. Ross, J. H. Winfield, L. A. Somers, J. D. Briggs, P. Mosher, A. Miller, John Griffin, J. A. Anderson, P. R. Colpitt, F. A. Bowman, E. T. Freeman, I. H. Smith.

The West Kootenay Power and Light Co. is rapidly completing its power plant at Bennington Falls. The poles are set and two wires are stretched between the falls and Rossland, a distance of 31 miles. The line goes into Rossland over the Monte Cristo Mountain, and it is the intention of the company to stretch another wire so that in case of accident there will be no interruption of the current. The first cost of the plant is placed at \$125,000, but it is said that the expenditure upon it may be extended to half a million.

A Dominion charter has been granted to the North Shore Electric Railway Company, the applicants being: Wm. Owens, Westmount; V. W. Larue, Quebec; Wm. Strachan, R. Prefontaine, Thos. Gauthier, and Albert J. Corriveau, Montreal. Mr. Corriveau says that it is intended to use power generator at the Shawenegan Falls. The railway is to start at Three Rivers, and general powers are given for the counties on the north shore of the St. Lawrence. Privileges are conferred similar to those granted to Montreal and Southern Counties Railway Company.

E. A. C. Pew's project to produce water power by the construction of a channel from the river Welland, east of Wellandport, to the river Jordan, although remaining in abeyance for some time past is coming to the front again. The works will be gone on with if satisfactory contracts can be made for disposing of the power when generated. Wm. Pearson, C.E., Oswego, has, it is said, pronounced the scheme a feasible, safe and practical one, pointing out that the great source of expenditure in connection with the development of power at Niagara Falls—the construction of wheel pits and tail race—will not be necessary in this project. The principal expense will be the excavation.

Barrie, Ont., is advertising for tenders on an electrical installation to consist of a street lighting plant of 65 arc lamps

of 2,000 candle power, an alternating current plant to supply 2,500 incandescent lamps for private lighting, and a direct current 500-volt power plant to furnish cheap electrical motive power to manufacturing establishments. An up-to-date electrical fire alarm system will also be installed. The estimated cost of the entire equipment is placed at \$35,000, and as quality of machinery and apparatus will be made a first consideration before prices, the town will, no doubt, obtain a very complete and high-class installation. Tenders will be opened on June 6th next, but the awards will not be made before the rate-payers have voted the necessary moneys. Roderick J. Parke, of Montreal, is the consulting engineer for Barrie.

The C.P.R. copper telegraph line, from Montreal to Vancouver, is now building. The line passes via Vaudreuil and the Short Line to Ottawa, and thence by the main line to the coast. It will be strung under the general superintendency of W. J. Camp, the C.P.R. electrician, in three divisions. The first one will reach from Montreal to Fort William, and will be conducted by Jos. Townsley, with about 100 men, working simultaneously in four gangs. The next division will reach from Fort William to Donald, B.C., and will be under B. S. Jenkins, Supt. of Telegraph, Winnipeg, with three gangs of men. The final division will reach from Donald to the coast, and will be under the charge of J. Wilson, Supt. Telegraph. A great deal of trouble has been experienced by telegraphic companies, through wires coming in contact with each other, through the breaking of the glass insulators by which the wires are attached to the poles. A test was therefore made at McGill University with a view to ascertaining the comparative resistancy of glass and porcelain insulators, with the result that it was found that porcelain resisted much heavier, and a greater number of blows, than the glass. Tests were also made with a thirty-two calibre revolver from a distance of eight feet. The glass flew to pieces at nearly every shot, while the porcelain frequently showed no mark, save the lead from the bullet, and when they did break it was in such a way that, had they been attached to the pole, the wires would not have been affected. The testing of the wire is also going on at the Applied Science Department of McGill, under the care of Mr. Drinkwater. Each day he selects at random a sample of wire from each lot of ten bundles being turned out by the Dominion Wire Mfg. Co., and subjects them to tests in order to insure that they come up to the requirements of the contract. The wire must be .137 of an inch in diameter; one one-thousandth of an inch only of a variation being allowed above or below this gauge. It must be perfectly cylindrical and weigh 300 pounds to the mile; four pounds of a variation being allowed in this distance. Frequent electrical tests are made upon pieces one one-hundredth of a mile in length, to determine the purity of copper used, which must be 97 per cent. Each bundle weighs 170 pounds, and the wire must be in one continuous length, without joint or break. Each six inches of wire must be capable of being twisted thirty times at a uniform speed of one twist a second. The tests show that it will stand forty to fifty twists before breaking. It must stand six close turns around another wire of equal diameter and be unwound without breaking. It must also stand an average breaking strata of 975 pounds, and before breaking it must have stretched at least one per cent. When completed there will be a length of about 2,900 miles of wire.

Personal.

H. M. Bolger, secretary of the Richelieu and Ontario Navigation Co., Montreal, was married a short time ago to Miss Mills, of Quebec.

P. Kennedy, employed in the C.P.R. car shops, Perth, Ont., had his head crushed between two cars, and was instantly killed, May 13th.

R. G. McConnell, of the Dominion Geological Survey, and J. B. Tyrell have left for the Yukon, and will spend the entire season in that district.

H. C. Landon, C.E., Cornwall, Ont., has removed to Austen, Pa., where he will have charge of a section of the Buffalo and Susquehanna Railroad.

Frederic Nicholls, manager, director of the Canadian General Electric Co., sailed on the "Campana" recently for a visit to England and the continent.