

agreement with the City of Vancouver. This now gives the whole district practically an inexhaustible supply. It has been arranged that the city's mains should be tapped at various points.

PERSONAL.

G. C. McKAY, for six years city engineer of Nelson, B.C., is resigning.

GEO. G. McLENNAN, B.A.Sc., is in charge, for the contractors, the Hyland Construction Co., Toronto, of powerhouse construction at Eugenia Falls for the Hydro-Electric Power Commission.

HARRY BAYNE has been appointed general agent for Canada of the Safety Car Heating and Lighting Company, with headquarters in Montreal. For 12 years Mr. Bayne was Montreal manager for the Canadian Westinghouse Co.

C. J. TOWNSEND, B.A.Sc., Toronto, will in future carry on the business of the engineering and contracting firm of Wilson, Townsend and Saunders, with headquarters at Toronto, Mr. Townsend having taken over the interests of the retiring partners.

R. FRASER ARMSTRONG, B.Sc., has been appointed superintendent of water and sewerage at St. John, New Brunswick. He is a graduate of the University of New Brunswick, and took post-graduate work at McGill University. For several years past he has been engaged at municipal engineering and construction work in the Canadian West.

Professor ERNEST BROWN, M.Sc., M. Eng., is giving an evening course of ten lectures at McGill University, the subject being "Design in Reinforced Concrete." An explanation of principles and their application to typical problems arising in practice forms the basis of Professor Brown's addresses. The course began on February 2nd.

CHAS. J. GOLDMARK, superintending engineer for the Canadian Locomotive Company, Kingston, is severing his connection with the company and will reside in New York. Prior to his departure Mr. Goldmark was tendered a banquet by the company officials, who presented him with a loving cup, turned out in the pattern shop of the locomotive works.

W. G. McINTOSH, B.A.Sc., has recently been appointed sales-engineer for Toronto by the Herbert Morris Crane and Hoist Co., Limited. Mr. McIntosh is an honor graduate in Mechanical engineering of the University of Toronto, and has had considerable office, shop and field experience, having been formerly connected with the Otis-Fensom Elevator Co., the Toronto Power Co., the Canada Foundry Co., and the Dominion Bridge Co.

OBITUARY.

On February 6th Mr. Walter R. Strickland, a noted architect of Toronto, died at Lakefield, Ont., at the age of 74.

The death occurred in Montreal last week of Mr. John Ross, a prominent contractor in Canadian railroading. Mr. Ross was born in Scotland 70 years ago and entered the contracting business in Canada at an early age. He used to be in partnership with the late Duncan McDermott, and it was this firm that built the C.P.R. line through the Rocky Mountains and afterwards did considerable work throughout the north-west for the different railways in the early days. Ten years ago Mr. Ross became affiliated with the Ross, Harris, McRae Contracting Company, which constructed the

Toronto-Sudbury branch of the C.P.R. They also handled large contracts for work on the old Welland Canal. This firm also built several sections of railway lines through the Province of Quebec. Recently Mr. Ross had been doing sub-contracting work for the Canadian Northern and Grand Trunk Railways.

CANADIAN FORESTRY ASSOCIATION.

At the recent annual meeting of the Canadian Forestry Association the following executive officers were elected for 1915: President, F. C. Whitman, Annapolis Royal, N.S.; Vice-President, J. B. Miller, Toronto, Ont.; Secretary, James Lawler, Ottawa.

Territorial Vice-Presidents—Ontario, G. H. Ferguson, Toronto; Quebec, Justice Allard, of Quebec; New Brunswick, George J. Clark, St. Stephen, N.B.; Nova Scotia, O. T. Daniels, Bridgetown, N.S.; Manitoba, Sir R. P. Roblin, of Winnipeg; Prince Edward Island, J. A. Matheson, Charlottetown; Saskatchewan, G. W. Brown, Regina; Alberta, A. L. Sifton, Edmonton; British Columbia, W. R. Ross, Fernie; Yukon, Commissioner George Black, Dawson City; Mackenzie, F. D. Wilson, Fort Vermilion, Alta.; Keewatin, D. C. Cameron, Winnipeg, Man.; Ungava, Mgr. Bruchesi, Montreal, Que.

Board of Directors—William Little, Alex. MacLaurin, Hiram Robinson, Aubrey White, E. Stewart, W. B. Snowball, Thomas Southworth, W. C. Edwards, George Y. Chown, John Hendry, W. Charlton, W. J. Roche, George H. Perley, Sydney Fisher, R. H. Campbell, William Power, Gordon C. Edwards, Dr. B. E. Fernow, Ellwood Wilson, Senator Rostock, G. C. Piche, Mgr. Roy A. P. Stevenson, William Pearce, C. E. F. Ussher, Denis Murphy, Clyde Leavitt, Jackson Booth, William Price, J. W. Harkam, A. S. Goodeve, W. C. J. Hall, J. S. Dennis, J. B. White, E. J. Zavitz, George Chahoon, jr., R. D. Prettie, N. Curry, A. C. Flumerfelt, and H. R. MacMillan.

CANADIAN SOCIETY OF CIVIL ENGINEERS.

REGULAR MEETING, MONTREAL, FEBRUARY 4th, 1915.

The chairman, Mr. Walter J. Francis, presided at the regular monthly meeting of the Canadian Society of Civil Engineers, held at headquarters, 176 Mansfield Street, on the evening of the 4th inst. An excellent paper on "Movable Dams," by Mr. H. B. Muckleston, M. Can. Soc. C.E., Calgary, was read by Professor Brown, M. Can. Soc. C.E., of McGill University, in the absence of the author. The reading was illustrated by a number of slides showing typical structures in the various types of movable dams, and the discussion afterwards was joined in by Mr. Arthur Surveyer and others. (For an abstract of the paper, see *The Canadian Engineer*, Feb. 4th, page 217.)

After the reading of Mr. Muckleston's paper, Mr. H. H. Vaughan, M. Can. Soc. C.E., Vice-President of the Canadian Pacific Railway, gave an informal talk on "The Manufacture of Shells in Canadian Shops," illustrating his remarks more particularly by slides made from photographs taken in the shops of Messrs. Bertram and Sons and the Canadian Pacific Railway Angus shops. All the processes in the manufacture of the steel shell cases and the brass cartridge cases were graphically set forth by the speaker. At the conclusion of the address a discussion followed, in which Lieut.-Col. Lacey R. Johnson, M. Can. Soc. C.E., took an important part.

At the conclusion a hearty vote of thanks was tendered to Mr. Muckleston for his paper, to Professor Brown for