

construction of the embankment. The seawall is expected to cost about \$30,000 and the bath-house an equal amount. Many changes and improvements are planned for the grounds surrounding the beach, chief among which is a fill of 2 to 4 ft. that will be necessary immediately east of the northern portion of the beach. Though the board will be forced to forego much of the work this year, it will commence the clearing up of the west end of the beach, now strewn with rocks, and the piling up of those rocks preparatory to building the seawall at that section. The filling of the other section of the park, now undeveloped, must be proceeded with before permanent improvements can be performed there; and for this work, the park board expects to get the sand to be dredged out of English Bay in connection with the harbor work in False Creek.

PERSONAL.

JAMES E. WILSON, superintendent of the sewer department for the city of Calgary, has recently tendered his resignation. Mr. Wilson is leaving the city's service to engage in private contracting.

E. A. CLEVELAND, of Cleveland & Cameron, Vancouver, B.C., gave an illustrated lecture on the Panama Canal to the Vancouver Branch of the Canadian Society of Civil Engineers at its meeting on January 7th.

C. E. CARTWRIGHT and C. M. ODELL addressed the Mining Section of the Canadian Society of Civil Engineers at its meeting in Montreal on the 8th instant. The former's paper was entitled, "The Outlook for Mining in British Columbia." Mr. Odell spoke on "Initial Proceedings in Opening Up a Coal Mine."

JOHN R. FREEMAN, consulting engineer of New York, is at present conducting an investigation into the condition of the Montreal water supply conduit, before and after its collapse, for a body of prominent citizens. According to a statement he will report upon the advisability of installing a high pressure water system independent of the present waterworks plant.

J. H. HOUGH, president of the Hughes Owens Company, Limited, of Montreal, has just returned home after an extended trip to Europe and the West Indies. Mr. Hough well deserved this vacation, his first in fifteen years, during which time he has built up his business from a one-room affair to the present large company, owning valuable buildings in Toronto and Montreal, with three other important branches.

C. R. MURDOCH, B.A.Sc., has discontinued his services as waterworks engineer for Edmonton, Alta. Since August last Mr. Murdoch has been designing a filtration plant for the city, and has recently completed his work. He also had charge of the repair of the waterworks intake, which is nearing completion. Through a change of policy the position of waterworks engineer is being discontinued, the department being placed directly under the control of the City Engineer.

T. C. FORD, B.S., Ch.E., A.M., formerly chief chemist for the American Asphaltum and Rubber Company, has joined Messrs. Pullar & Enzenroth, engineering chemists of Detroit, Mich., and the firm will be known in the future as the H. B. Pullar Company. Mr. Ford has been closely associated with Mr. Pullar for the past five years, Mr. Pullar having been assistant general manager of the American Asphaltum and Rubber Company until about a year ago. Mr. Ford is not only familiar with the testing of bituminous materials, but has had wide experience in the actual building of roads and pavements. He was one of the first four engineers to complete the special post-graduate course of highway engineering at Columbia University.

REGINALD W. BROCK, Director of the Geological Survey of Canada, has been appointed Deputy Minister of Mines, to succeed DR. A. P. LOW, resigned. Professor Brock has been director of the Survey for the past twelve years, during which time his ability has been well recognized by the geological and mining authorities of the Dominion and abroad. He was previously a professor at the School of Mines, Kingston. He received his technical education at Ottawa Collegiate Institute, Queen's University, the University of Toronto, and Heidelberg. He was born in Perth forty years ago.

TORONTO BRANCH—CANADIAN SOCIETY OF CIVIL ENGINEERS.

The annual meeting of the Toronto Branch of the Canadian Society of Civil Engineers will be held on Wednesday, January 21st, 1914, at 8 o'clock p.m., in the lecture room at the Engineers' Club, 94 King Street W. Election of officers for the coming year and the presentation of annual reports will be included in the proceedings of the meeting.

COMING MEETINGS.

AMERICAN SOCIETY OF ENGINEERING CONTRACTORS.—Annual Convention to be held in New York City, January 16th, 1914. Secretary, J. R. Wemlinger, 13 Park Row, New York City.

CANADIAN SOCIETY OF CIVIL ENGINEERS.—Annual meeting will be held in Montreal, Que., January 27-29, 1914. Secretary, Prof. C. H. McLeod, 176 Mansfield Street, Montreal, Que.

AMERICAN CONCRETE INSTITUTE.—Tenth Annual Convention to be held in Chicago, February 16th to 20th, 1914. Secretary, E. E. Krauss, Harrison Building, Philadelphia, Pa.

NATIONAL CONFERENCE ON CONCRETE ROAD BUILDING.—Meeting will be held in Chicago, Ill., February 12th to 14th, 1914. Secretary, J. P. Beck, 72 W. Adams Street, Chicago, Ill.

AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS.—Annual Meeting to be held in New York, January 21st to 23rd, 1914. Secretary, E. A. Scott, 29 W. 39th Street, New York City.

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