

the temperature variation is very slight. On this account it would be an ideal spot for a power pipe, as there is a remote possibility of severe changes in temperature causing trouble to the pipes. The beginning of the new pipe will be at the dam just out from Dufferin Islands, and it will be carried almost to the brink of the Falls, then it will swing over to this side, and from here the waters will drop to the turbine house at the foot of the Falls.

Montreal, Que.—A new invention to detect the origin of noises heard at sea was tried out on the Allan liner "Victorian" on the last voyage. The ringing of bells, shouts and other noises, when heard at sea with a fog prevailing or in the darkness, are often hard to locate. The new instrument is the invention of Messrs. W. & T. G. Hodgkinson, of London. The latter gentleman sailed on the "Victorian" in order to give device a thorough testing under deep sea and ocean liner conditions. It worked well on the voyage, and he was fully satisfied with what he learned. The machinery consists of a huge drum so arranged that sound waves may reach it freely from every side. These are automatically recorded, and from this the direction from which they come is calculated. Two ships fitted with the device are at present running on the Mersey with excellent results.

Quebec, Que.—A provincial highway between Levis and Montreal, going through Sherbrooke and the Eastern Townships, is the last move decided upon by the Gouin Government. The announcement was made recently to a delegation of about one hundred representatives of all the counties on the proposed road who had assembled in the Prime Minister's office for the special purpose of presenting their views to the Cabinet. The construction of the highway was certain, explained Sir Lomer Gouin, but the government did not promise that work would be started at once, as the constructive power of the road department was already taxed to its capacity by the construction of a provincial highway on the North Shore, between Quebec and the Canadian metropolis. The proposed highway on the South Shore would, Sir Lomer added, be 250 miles long, with a link from Sherbrooke to Richmond connecting with the International road between Montreal and the United States boundary, and another link between Sherbrooke and Granby, via Magog and Waterloo. In the course of his remarks the Premier said if the government came to the conclusion that it needed more than \$10,000,000 for the betterment of public roads in this province, he would be willing to borrow more money or to ask the Federal Government to increase again the provincial subsidies, which it could easily do with the enormous revenue now coming in. The Hon. J. E. Caron declared that the road department had only two skilled engineers at this time on the construction of good roads in this province, while about fifty would be required. He promised, though, that his staff would be completed and working before the end of the season.

Victoria, B.C.—Investigation of the water power resources of British Columbia, which was begun three years ago by the Commission of Conservation at Ottawa, is being continued during the present summer, Arthur V. White, of Toronto, consulting engineer on water powers for the Commission, having recently arrived in Victoria to supervise the work. Engineering parties are being placed in the field to canvass, first of all, portions of the mainland coast and the territory tributary to the Grand Trunk Pacific Railway. The party undertaking this work, according to Mr. White, will probably outfit at Hazelton. "One of the chief objects which the Commission has," stated Mr. White, "is to draw attention to the various natural resources by publishing inventories and descriptions of such resources in its various publications. The Commission has in course of preparation a report which will deal with the water powers of Western

Canada. A great deal of space in this report will be devoted to the water powers of British Columbia, and, as the reports are widely distributed throughout the world, attention is directed to such a resource in a manner perhaps that would not otherwise be attained. The present work of the Commission in British Columbia, since its inception, has had the sympathy and practical support of the Provincial Government, and through the Department of Lands has received financial and other assistance, which has contributed much to facilitate the furthering of the data desired. The gathering of information in British Columbia is the most difficult work of this kind which the Commission has undertaken," said Mr. White. "No province of Canada has so many difficult problems to solve connected with the administration of its water resources, involving as it does irrigation, mining, logging, water powers and other interests. But, while this is true, the efforts made by the province through special legislation and regulations are unique, so far as Canada is concerned." Mr. White has with him on his expedition two engineers, C. J. Vick and Napier Simpson, both of Toronto, and other men will be engaged from time to time as is necessary.

PERSONAL.

Mr. THOMAS B. LEE has recently been appointed chief clerk of Robert W. Hunt & Company, Limited, in their head office at Montreal.

Mr. J. S. McLACHLAN has been appointed, by the Department of Public Works at Ottawa, a member of the corps of expert engineers to take charge of the construction of the drydock at Esquimalt, B.C.

Mr. W. A. DUFF, until recently assistant chief engineer of the Transcontinental Railway, has been appointed chief engineer of bridges of the Intercolonial Railway. Mr. Duff is a graduate in engineering of the University of Toronto.

Mr. ROBERT J. THOMAS is the newly-elected president of the American Waterworks Association. Mr. Thomas has been superintendent of waterworks at Lowell, Mass., for the past twenty-three years, and was president of the New England Waterworks Association in 1909.

ARTHUR V. WHITE, Toronto, consulting engineer on water powers for the Commission of Conservation at Ottawa, will supervise the investigation of the water power resources of British Columbia, and left recently for Victoria for that purpose. Mr. White is also consulting engineer to the International Joint Commission.

Dr. J. W. S. McCULLOUGH, chief officer of health for the Province of Ontario, will leave this week for Great Britain to obtain an expert knowledge of the treatment and disposal of sewage according to the most scientific methods known. His study will take him through all the larger cities of England, France, Germany and other countries where the same problems as those affecting Ontario are to be found.

A. N. TALBOT, of the University of Illinois, has been elected president of the American Society for Testing Materials. Professor Talbot was born in Illinois, October 21st, 1857, and graduated from the University of Illinois, civil engineering department, in 1881. He was engaged in railroad work for some years, but in 1885 returned to the university, with which he has been connected ever since. The testing of materials has been Professor Talbot's particular field for some years, and it is largely through his efforts that the materials testing laboratory at Illinois University has grown to be one of the best equipped in the country.