

amount of power generated in central electric stations in Canada, and the public is left at a loss to know which report is the more accurate.

PERSONALS

GEORGE A. MOUNTAIN, chief engineer of the Board of Railway Commissioners, Ottawa, has been nominated as a director of the American Railway Engineering Association.

ERNEST OLIVER, of Toronto, has been officially appointed superintendent of the Toronto, Niagara & St. Catharines electric railway by the Board of Directors of the Canadian National Railways.

J. R. W. AMBROSE, chief engineer of the Toronto Terminal Railways Co., has been elected president of the Engineers' Club, Toronto. Mr. Ambrose was born in 1878 in Wisconsin, and graduated in 1902 with the degree of Engineer of Mines from the University of Minnesota. Joining the staff of the Minneapolis and St. Louis Railway as an instrumentman, he rapidly worked his way through the construction departments of the Minneapolis, Dakota and Pacific; Chicago, Milwaukee & St. Paul and the Iowa Central. Then he returned to the Minneapolis & St. Louis Railway as Division Engineer on Maintenance of Way, which position he retained until 1907, when he was offered and accepted the position of Assistant Engineer of Construction, Grand Trunk Railway. The following year he had charge of construction of the



Grand Trunk Railway System's magnificent hotel, the Chateau Laurier, and of the Central Station, Ottawa. He was next connected with the Montreal and Southern Counties electric railway enterprise, and in 1910 was appointed Resident Engineer of Grade Separation at Toronto by the Grand Trunk Railway, in charge of the extensive changes in grade between Union Station, Toronto and the western entrance to the city. When the Toronto Terminal Railways Co. was organized in 1914, Mr. Ambrose was appointed chief engineer and has been in charge of the construction of the new Union Station at Toronto. He is a councillor of the Engineering Institute of Canada and a member of the nominating committee of the American Railway Engineering Association. In 1909 he became a naturalized Canadian citizen.

LOUIS W. GAY has joined the sales engineering staff of the Texas Co., of New York, and will "cover" Ontario and western New York State, with headquarters at Buffalo. Mr. Gay resigned last summer from the late firm of John Baker, Jr., who were formerly the sales agents for the Texas Co.'s asphalts and road oils.

Auguste Tessier, M.P.P., will ask the Quebec Government to appropriate a large sum of money for the prospecting and development of Ungava. Mr. Tessier declares that some day the water powers of Ungava will be harnessed and their power transmitted far abroad, even to Europe. He quotes no engineering authority for this statement, however.

ELECTRIC GENERATION IN CANADA

UNDER the title of "Electric Generation and Distribution in Canada," the Commission of Conservation has issued a 300-page directory compiled and written by Leo. G. Denis, hydro-electric engineer of the Commission. The book is 6 3/4 by 9 3/4 ins., paper bound, and illustrated by many photographs and 12 diagrams and maps.

The data, which is confined entirely to central electric stations, is divided according to provinces and is arranged alphabetically under each province. In each case data is given regarding the ownership of the station, the price at which power is sold, complete information regarding the equipment of hydraulic plants, steam plants and sub-stations, power rates, distribution lines, etc.

Seven tables at the end of the volume tabulate the data as follows:—

Summary of power plants, giving ownership (whether municipal or private), horse-power and kind of prime movers, capacity of generators, maximum load, service conditions and general remarks regarding head, load factor, etc.

Summary of transmission lines, giving voltage, cycles, size of mileage of conductors, value, lightning protection, etc.

Consumption and rates for lighting and power, street lighting, number of consumers, power taken, etc.

Number and capacity of plants and whether hydro-electric, steam or gas, tabulated by provinces.

Ownership, prime movers and generators, with capacity, by provinces.

Load, service, etc., giving the maximum load, type of service, storage and ice conditions, etc.

Transmission lines and distribution, giving the total mileage of lines, capacity of transformers, connected load, etc.

A comprehensive index, occupying nearly 12 pages, adds to the value of the book as a work of reference.

CITY OF GUELPH

TENDERS FOR SEWER PIPE

Sealed tenders addressed to the City Clerk, Guelph, Ontario, will be received up until noon, Thursday, March 13th, for the supply of approximately the following quantities of reinforced concrete pipe, or segmental vitrified sewer block:—

	1,000 Lin. Feet 48-inch pipe
430	" " 45 " "
550	" " 42 " "
410	" " 39 " "
390	" " 36 " "
250	" " 24 " "
1,200	" " 21 " "
2,880	" " 18 " "

Separate bids will also be received for the supply and delivery of smaller sizes of vitrified sewer pipe required by the Corporation of the City of Guelph for the year 1919.

Specifications and all information may be had on application to the City Engineer. A marked cheque for 5% of the tender must accompany the bid. No tender is necessarily accepted.

F. McARTHUR,
City Engineer.

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WANTED

GRADUATE CIVIL ENGINEER, to act as assistant to city engineer. Must be good surveyor and draftsman. Applying experience and salary expected, to F. McArthur, City Engineer, Guelph, Ont.

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