

west end of the city was decided upon, together with a central station in the centre of the city. Under the existing agreement with the Street Railway Co., the city may use the street car lines, according to arbitration, for municipally owned railways. It was decided that a separate freight line should run through the northern section of the city. The direct route of the Hamilton to Lake Erie branch is to be settled by special committee.

### PERSONAL.

J. M. McARTHUR has been appointed acting superintendent of the Lethbridge sub-division of the Canadian Pacific Railway, succeeding Mr. F. Walker, who has been granted leave of absence owing to ill health.

C. C. JOHNSON, B.A.Sc., has been appointed resident engineer at London, Ont., for Messrs. Chipman and Power, consulting engineers, Toronto. Mr. Johnson succeeds Mr. A. E. MacGregor, B.A.Sc., who has enlisted for active service.

MERVYN J. K. ALLEN, who has been for three years manager of Rocmac Roads, Limited, Toronto, has resigned to accept another position. Mr. Allen is a graduate in engineering of Trinity College, Dublin, and was for about nine years assistant engineer in the roadways section of the city of Toronto.

### OBITUARY.

The death occurred in Toronto last week of Mr. Thomas J. Walsh, of the waterworks staff of the city. The deceased had been employed for the past fifteen years as chief operator at the high level pumping station.

We record the death of Mr. Abraham Knechtel, forester of the Parks Branch, Department of the Interior, Ottawa, who passed away on December 10th at the age of 58.

### ROAD CONVENTION AT WORCESTER, MASS.

At the road congress held in Worcester last week Mr. W. A. McLean, provincial highway engineer of Ontario, officially represented the province. Mr. U. H. Dandurand, honorary president of the Canadian Good Roads Association, similarly represented the province of Quebec. The former read a paper on "The Development of Improved Roads in Canada and What it Means to the Dominion." Mr. Dandurand's paper touched upon the highway system of the province of Quebec and also upon the attractions the Dominion has for motorists.

### OTTAWA BRANCH CANADIAN SOCIETY OF CIVIL ENGINEERS.

The third meeting for the season of the Ottawa Branch of the Canadian Society of Civil Engineers was held on December 16th, Mr. John Murphy, chairman, presiding. The speaker was Mr. S. Fortin, Mem. Am. Soc. C. E., structural engineer, Department of Public Works, Canada, who presented a paper entitled "Novel System of Foundations Used in Connection with the Federal Legislative Palace, Mexico City."

The paper described the method employed in designing the foundations; the assumption being that the resistance of the subsoil instead of being uniform as usually

assumed is increasing from the centre towards the perimeter of the building as the co-ordinates of an ellipse. A good attendance of the Ottawa members was in evidence.

A. B. Lambe, who has acted as secretary-treasurer for the last three years, was presented with a very handsome silver loving cup as a token of appreciation. The presentation was made by the past chairman, Mr. St. Laurent, assistant deputy-minister, Department of Public Works.

### REGINA BRANCH CANADIAN SOCIETY OF CIVIL ENGINEERS.

As will be noted in the personnel of the officials of the various branches of the Canadian Society of Civil Engineers, as presented in our page of "Technical and Municipal Societies," the officers of the Regina Branch are as follows: Chairman, O. W. Smith; secretary-treasurer, J. N. de Stein. The monthly meetings of the branch are held on the first Thursday of each month.

### MONTREAL MEETING, CANADIAN SOCIETY OF CIVIL ENGINEERS.

The December meeting of the Canadian Society of Civil Engineers was held on Thursday, the 16th instant. Dr. H. T. Barnes gave an informal talk, illustrated by lantern slides, on the "Development and Principles of Construction of the Submarine." An interesting discussion on structural details followed the instructive address.

### COMING MEETINGS.

AMERICAN FORESTRY ASSOCIATION.—Annual meeting to be held at Boston, Mass., January 17th and 18th, 1916. Secretary, P. S. Ridsdale, Washington, D.C.

CANADIAN NATIONAL CLAY PRODUCTS ASSOCIATION.—Fourteenth annual convention to be held at Toronto January 18th to 20th, 1916. Secretary, G. C. Keith, 32 Colborne Street, Toronto.

AMERICAN WOOD PRESERVERS' ASSOCIATION.—The Twelfth Annual Convention to be held in Chicago, January 18, 19 and 20, 1916. Chas. C. Schnatterbeck, chairman, Committee on Publicity and Promotion, American Wood Preservers' Association, Baltimore, Maryland.

CANADIAN SOCIETY OF CIVIL ENGINEERS.—The Thirtieth Annual Meeting to be held in Montreal, January 25, 26 and 27, 1916. Secretary, Prof. C. H. McLeod, 176 Mansfield Street, Montreal.

AMERICAN ELECTRIC RAILWAY ASSOCIATION.—To be held in Chicago, Ill., February 4th, 1916. Joint dinner that evening with American Electric Railway Manufacturers' Association.

AMERICAN CONCRETE PIPE ASSOCIATION.—Annual Convention to be held in Chicago, February 17 and 18, 1916. Secretary, E. S. Hanson, 538 S. Clark Street, Chicago, Ill.

CANADIAN LUMBERMEN'S ASSOCIATION.—At Ottawa, February 18th, 19th and 20th, 1916, annual convention. Frank Hawkins, secretary, Ottawa.

CANADIAN AND INTERNATIONAL GOOD ROADS CONGRESS.—At Sohmer Park, Montreal, March 6th to 10th, 1916. Geo. A. McNamee, secretary, New Birks Building, Montreal.