

The Canadian Engineer

WEEKLY

ESTABLISHED 1893

VOL. 15. TORONTO, MONTREAL, WINNIPEG, VANCOUVER, MARCH 6th, 1908. No. 10

The Canadian Engineer

ESTABLISHED 1893

Issued Weekly in the Interests of the

CIVIL, MECHANICAL STRUCTURAL, ELECTRICAL, MARINE AND MINING ENGINEER, THE SURVEYOR, THE MANUFACTURER AND THE CONTRACTOR.

Editor—E. A. JAMES, B.A. Sc.

Business Manager—JAMES J. SALMOND.

Present Terms of Subscription, payable in advance:

Canada and Great Britain:		United States and other Countries:	
One Year	\$2.00	One Year	\$2.50
Six Months	1.25	Six Months	1.50
Three Months	0.75	Three Months	1.00

ADVERTISEMENT RATES ON APPLICATION.

HEAD OFFICE: 62 Church Street, and Court Street, Toronto
TELEPHONE MAIN 7404.

Montreal Office: B 32 Board of Trade Building. T. C. Allum, Business and Editorial Representative. Phone M 2797.

Winnipeg Office: 330 Smith Street. Amalgamated Press of Canada, Limited
Phone 5758

Vancouver Office: Representative: A. Oswald Barratt. 619 Hastings Street.

British Representative: A. Webster, 84 Chancery Lane, London, E.C.

Address all communications to the Company and not to individuals.

Everything affecting the editorial department should be directed to the Editor.

NOTICE TO ADVERTISERS:

Changes of advertisement copy should reach the Head Office by 10 a.m. Monday preceding the date of publication, except the first issue of the month for which changes of copy should be received at least two weeks prior to publication date

Printed at the office of THE MONETARY TIMES PRINTING CO., Limited,
TORONTO, CANADA.

A reader is anxious to secure copies of the Canadian Engineer for December 6, 1907 and January 3, 1908. Perhaps some of our subscribers can accommodate him. There is three months' extension of subscription in it.

TORONTO, CANADA, MARCH 6th, 1908.

CONTENTS OF THIS ISSUE.

Editorial:	Page.
Dominion Surveyors	145
Professional Ethics	145
Public Accounts of Ontario	146
Leading Articles:	
Toronto Electric Light	147
General Manager Canadian Pacific Railway	147
The Railway Commission	153
Reinforced Concrete Building	155
Re-forestry and Our Timber Resources	157
Observations for Azimuth	160
Reinforced Concrete Bridge	161
Mulhouse Turbine Plant	165
Westmount Electric Light Plant	166
Practical System of Reinforcing Concrete	173
Ontario Land Surveyors Convention	162
Correspondence:	
Railway Ties	148
Canadian Society of Civil Engineers	148
Sewer Ventilation	149
Railway Survey Over Height of Land	149
Society Notes	150
Book Reviews	175
Construction News	177
Railway Board Orders	179
Market Conditions	180

DOMINION SURVEYORS.

The criticism of the amendments to the Dominion Survey Act by the President of the Ontario Land Surveyors' Association should lead to a more careful consideration of the measure, and, it is to be hoped, to some better understanding among the various Provincial Land Surveyors' Associations.

Any change in the Dominion Act to make it more easy for surveyors from the colonies to practise in Canada should have been preceded by a clause encouraging the formation of a body, membership in which would entitle a member to practise surveying in all the territories and Provinces of Canada.

The present arrangement, or want of arrangement, which requires a Dominion land surveyor or a Provincial surveyor, moving into another Province, to take a full examination, looks like what is often called a "hold-up."

The only excuse that can be offered for the continuation of this provincialism is that each Province has its own method of making surveys, in some according to well-defined systems; in others, according to methods that do not lend themselves to examination. A man with the mathematical training and experience which makes him capable of doing survey work in one locality does not by moving lose that knowledge. If he shows himself familiar with the Survey Act for the new Province he should be allowed to follow his profession as a surveyor. The new Association of Dominion Land Surveyors have a splendid opportunity to show their usefulness, broad-mindedness and public spirit by conducting a campaign which has for its object reciprocity between the Provinces in land surveyors. This rearrangement should take place before any encouragement is given to surveyors from other parts of the Empire.

If surveyors from other British possessions are allowed partial examinations, so should our Provincial surveyors. Nothing is to be gained by allowing outsiders privileges Canadians do not possess. Nothing is to be gained by making it appear that other countries require a higher standard than does Canada. Already some of the Provincial Boards require a higher standard than do our Dominion Board. Let Provincial Boards agree on a standard and then arrange that those measuring to those requirements may practice in any Province in the Dominion. The land surveyors are the pioneers in a country's expansion. May they be the pioneers among the close corporations to leave provincialism and become national.

PROFESSIONAL ETHICS.

"Do as you would be done by" is a familiar phrase, and states a doctrine we all profess to live by, but when it is the other fellow who does it, how hard it is for us to believe he is acting according to this rule. It is one thing to persuade ourselves we did right, but it is an entirely different matter to persuade us that someone else acted fairly.

We may prepare codes of professional ethics; we may prepare long essays on professional responsibility; we may even legislate where and when a man may practise his profession, but it will all come to naught