

# The Canadian Engineer

WEEKLY

ESTABLISHED 1893

VOL. 18.

TORONTO, CANADA, JANUARY 21st, 1910.

No. 3

## 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	\$3.00	One Year	\$3.50
Six Months	1.75	Six Months	2.00
Three Months	1.00	Three Months	1.25

Copies Antedating This Issue by Two Months or More, 25 Cents.

ADVERTISEMENT RATES ON APPLICATION.

HEAD OFFICE: 62 Church Street, and Court Street, Toronto, Ont. Telephone, Main 7404 and 7405, branch exchange connecting all departments.

Montreal Office: B33, Board of Trade Building. T. C. Allum, Editorial Representative, Phone M. 1001.

Winnipeg Office: Room 375, Nanton Building. Phone 8142. G. W. Goodall, Business and Editorial Representative.

London Office: 225 Outer Temple, Strand, T. R. Clougher, Business and Editorial Representative. Telephone 527 Central.

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.

TORONTO, CANADA, JANUARY 21, 1910.

### CONTENTS OF THIS ISSUE.

#### Editorials:

Ottawa	45
Collingwood Schreiber	45
The Engineer and Boards of Health	46

#### Leading Articles:

Canadian Society of Civil Engineers	47
N. J. Ker	50
Ottawa Civic Works	50
The Great Chaudiere Dam	53
Ottawa Electric Railway	59
R. W. Farley	61
Hull's Power House	62
Construction News	64
Market Conditions	67

THE TWENTY-FOURTH ANNUAL MEETING OF THE CANADIAN SOCIETY OF CIVIL ENGINEERS WILL BE HELD IN OTTAWA, ONT.,

JANUARY 25th, 26th, 27th, 1910.

IT WILL BE A VERY LIVE MEETING.

YOU WILL THOROUGHLY ENJOY IT.

THE FIRST DAY WILL BE DISCUSSION.

THE SECOND DAY EXCURSIONS AND RECEPTIONS.

THE THIRD DAY MORE DISCUSSION.

### OTTAWA.

The selection of the city of Ottawa as the meeting place of the twenty-fourth annual meeting of the Canadian Society of Civil Engineers makes that city, for a week at least, a place of particular interest to engineers, whether members of the society or not.

Ottawa is an important city, not only because of her fifty odd millions of assessment and her eighty thousand population, her one hundred and fifty miles of street and one hundred and seventy-three million dollars clearing house returns, but also because she is the centre of great water power possibilities; is beautifully situated on the banks of the Ottawa River; is the seat of the Government of the Dominion of Canada, and is an educational, legislative and judicial centre.

Built upon high ground, amid picturesque surroundings, with wide, well-kept streets, attractive houses, parks and squares, it is inviting to the traveller, no matter whether business or pleasure bent.

The manufacturer also has an interest here. He finds this city convenient to large forest areas, the centre of rich mineral deposits, the neighbor of large water falls—some harnessed—and a city well provided with transportation facilities. The Ottawa River and the Rideau Canal offer water transportation facilities—limited, it is true—yet sufficient. The railways—all of them—reach Ottawa. North, south, east and west, they radiate from this legislative hub.

Ottawa must soon become a manufacturing and commercial centre. Cheap power, sufficient raw material and adequate transportation facilities are good cause for growth.

### COLLINGWOOD SCHREIBER, C.M.G.

The council of the Canadian Society of Civil Engineers honored itself when it honored Mr. Collingwood Schreiber by electing him honorary member of the society.