# The Canadian Engineer

ESTABLISHED 1893

VOL. 17.

TORONTO, CANADA, JULY 23rd, 1909.

No. 4

## The Canadian Engineer

lesued Weekly in the interests of the

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

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Present Terms of Subscription, payable in advance:

Canada and Great Britain :

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32.00 One Year 1.25 Six Months 0.75 Three Months

\$2.50 1.50 1.00

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PRINTED AT THE OFFICE OF THE MONETARY TIMES PRINTING Co., LIMITED, TORONTO, CANADA.

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Copy and cuts for changes of advertisements must be in our hands by the Monday preceding date of issue. If proofs are to be submitted, changes should be in our hands at least ten days before date of issue. When advertisers fail to comply with these conditions, the publishers cannot guarantee that the changes will be made.

### THE RAILWAY AND THE STATE.

"If the State cannot control the railways, the railways will control the State," was an Englishman's way of expressing the relation of the railway and the State.

Railways are for public service, and it is right that they should be operated in the public interests, but it is yet to be proven that public ownership of railways, which in theory is good, is for the general good. Public servants have allowed public works and public franchises to be run, not in the interest of the country at large, but in the interest of those sections or communities which could bring the greatest pressure to bear.

The history of the railway situation in various lands is not without lessons.

In Australia all the railways are State-owned, built by the different State Governments. In some instances they were not a success under State control, but when placed under a commission they became successful financial ventures, and public sentiment is so strong for public-owned roads that it is not likely that there will be any serious development of private lines.

Belgian railways were State-built because the nation feared foreign capital would control the transportation highways.

Switzerland nationalized her railways in a fit of patriotism, French and German capital having controlled the Swiss railways for years.

Italy, after the union of 1870, acquired the railways and leased them to three companies to operate. But the trouble over capital for new lines, extensions and betterments became so acute that they were compelled to cancel the lease, and now Italy has Governmentoperated lines.

Holland bought up the private railways, unified the systems, and then leased them to two companies, whose lines have access to all the principal towns and ports.

Each country appears to have developed a system to suit its own particular fancy, but the history of railway operation does not appear to point to any great tendency towards absolute State ownership and State control.

#### DANGEROUS STRUCTURES.

In many municipalities the city engineer and his department are responsible for building permits, and for this reason we feel that a discussion of the matter is justified in these columns.

There are two classes of persons to be consideredthe occupants of the building and those who, while not occupants, are within the danger zone. Both must be protected. In some cases those in the first class feel they are being protected against themselves. This is neces-

It is not intended that this article should deal with safe design of new buildings, but rather to call attention to some of the danger points of completed and longstanding buildings that should be examined.

Street signs are a frequent source of danger, and their size and condition should be more carefully regulated than is the case in many municipalities. If overhanging street signs were prohibited, no great hardship would result. There are so many safer and saner methods of advertising than hanging out signs of crude