

would sell for say 8c. Now you use coal to heat it, labor to draw it out, shape it, and finish it off. Figure that all out and then look up the price of a spanner purchased. When you find that you can buy two spanners at the cost of making one out of a crank pin, you will likely say the whole business is a farce. But you would be wrong, it is not a farce, but some people go at anything wrong; they start out without sufficient knowledge, they see one end only. And that is why I say this is a man's game, an all-round man, a man who can see both ends and the middle, and still has a mind open to learn every day. Such men must be both born and made; they must have a natural bent toward economy and saving, and must have years of training on top of that. That is why I say we have few men today who are fitted for the job. But while we may laugh at some of the men who have got off on the wrong foot in the race, we must do so in all good nature, for after all they are the fellows

who have the right idea and will learn by their own mistakes. They are at least ahead of the man who does nothing, and there is a lot to be done.

To quote once more from my paper of 1912 on the conservation of waste: "This has been the age of steam; the signs of the times point to the fact that we are entering the age of electricity. I see on every side indications that we are going to repeat in the electrical age the same kind of mistakes we made in the age of steam. Must we do this? Can we make no advance without waste, fearful waste? Perhaps not, but we can at least try. Let us sound the warning in season and out of season. Let us learn the meaning of conservation and keep it before us always. Remember, it is not a fad; it is anything but that. It has come to stand for the life of the individual, the life of the railways, and the life of the nation."

The foregoing paper was read before the Canadian Railway Club recently.

## Birthdays of Transportation Men in October.

Many happy returns of the day to:—

E. W. Beatty, K.C., Vice President and General Counsel, C.P.R., Montreal, born at Thorold, Ont., Oct. 16, 1877.

L. S. Brown, Superintendent, Truro, Sydney and Oxford District, Intercolonial Ry., New Glasgow, N.S., born at Nelson, N.B., Oct. 19, 1864.

R. A. Burford, cashier, C.P.R. ticket office, New York City, born at Brooklyn, N.Y., Oct. 4, 1878.

Lieut.-Col. G. E. Burns, ex-Freight Claims Agent, Eastern Lines, C.P.R., Montreal, now District Intelligence Officer, Military District No. 4, Montreal, born at St. Thomas, Ont., Oct. 6, 1863.

K. J. Burns, Assistant General Freight Agent, Great Northern Ry., Vancouver, B.C., born at Rochester, Eng., Oct. 11, 1878.

F. F. Busteed, C.E., formerly Engineer in charge of C.P.R. revision and second tracking, west of Calgary, Kamloops, B.C., born at Battery Point, Que., Oct. 10, 1858.

J. M. S. Carroll, District Manager, Canadian Consolidated Rubber Co., Montreal, born at Ballarat, Australia, Oct. 22, 1877.

C. E. Cartwright, M.Can.Soc.C.E., ex-Division Engineer, C.P.R., Vancouver, B.C., born at Toronto, Ont., Oct. 13, 1864.

A. F. Dion, Traffic Manager, Quebec Harbor Commission, Quebec, born at L'Islet, Que., Oct. 1, 1871.

L. V. Druce, Commercial Agent, G.T.R. and G.T.P.R., Vancouver, B.C., born at London, Eng., Oct. 20, 1873.

C. E. Dewey, Freight Traffic Manager, G.T.R., Montreal, born at Cheshunt, Eng., Oct. 2, 1873.

C. E. Friend, General Auditor, Canadian Northern Ry., Winnipeg, born at Brighton, Eng., Oct. 12, 1871.

W. P. Fitzsimmons, Commissioner of Industries, G.T.R., Montreal, born at Detroit, Mich., Oct. 27, 1868.

G. Hodge, Assistant to General Manager, C.P.R., Montreal, born there Oct. 2, 1874.

J. H. Hughes, Assistant Superintendent, District 4, Eastern Division, C.P.R., Ottawa, Ont., born at Charlottetown, P.E.I., Oct. 7, 1865.

H. Irwin, M.Can.Soc.C.E., Consulting Right of Way and Lease Agent, C.P.R., Montreal, born at Newgrove, County Down, Ireland, Oct. 27, 1847.

J. W. N. Johnstone, General Passenger Agent, Reid Newfoundland Co., St. John's,

Nfld., born at Campobello, N.B., Oct. 4, 1878.

W. M. Kirkpatrick, ex-Assistant Freight Traffic Manager, Eastern Lines, C.P.R., Montreal, now on active service, born at Kingston, Ont., Oct. 8, 1874.

W. B. Lanigan, Assistant Freight Traffic Manager, Western Lines, C.P.R., Winnipeg, born at Three Rivers, Que., Oct. 12, 1861.

J. W. Leonard, General Manager, Toronto Terminals Co., Toronto, born at Epsom, Ont., Oct., 1858.

Sir William Mackenzie, President, Canadian Northern Ry., Toronto, born at Kirkfield, Ont., Oct. 30, 1849.

C. Malcolm, chief clerk, Auditor of Stores and Mechanical Accounts, Alberta Division, C.P.R., Calgary, Alta., born at Tatamagouche, N.S., Oct. 18, 1881.

W. T. Marlow, Import Freight Agent, C.P.R., Montreal, born at Limerick, Ireland, Oct. 25, 1872.

R. Marpole, General Executive Assistant, C.P.R., Vancouver, B.C., born in Montgomeryshire, Wales, Oct. 9, 1850.

C. R. Moore, Assistant to Vice President, Construction, Operating and Maintenance, G.T.R., Montreal, born at Hamilton, Ont., Oct. 12, 1867.

Hugh Paton, President, Shedden Forwarding Co., Montreal, born at Johnstone, Renfrew, Scotland, Oct. 5, 1852.

J. W. Porter, Chief Engineer, Hudson Bay Railway, Winnipeg, born at Aberdeen, Scotland, Oct. 15, 1877.

D. Pottinger, I.S.O., ex-Assistant Chairman, Government Railways Managing Board, Moncton, N.B., born at Pictou, N.S., Oct. 7, 1843.

T. F. Rahilly, acting Trainmaster, Algoma Central & Hudson Bay Ry., Sault Ste. Marie, Ont., born at Diorite, Mich., Oct. 6, 1892.

H. G. Reid, Master Mechanic, District 3, National Transcontinental Ry., Transcona, Man., born at Pembroke, Ont., Oct. 27, 1863.

A. G. Richardson, District Passenger Agent, C.P.R., Winnipeg, born at Rockford, Ill., Oct. 16, 1880.

W. S. Rollo, joint agent, G.T.R., and Central Vermont Ry., St. Johns, Que., born at Dundee, Scotland, Oct. 8, 1852.

J. K. Savage, Superintendent, District 1, Saskatchewan Division, C.P.R., Regina, born at Forreston, Ill., Oct. 5, 1876.

Lord Shaughnessy, K.C.V.O., President, C.P.R., Montreal, born at Milwaukee,

Wis., Oct. 6, 1853.

T. Duff Smith, Fuel Agent, Grand Trunk Pacific Ry., Winnipeg, Man., born at Barking, Essex, Eng., Oct. 2, 1868.

F. Stamelen, Night Locomotive Foreman, C.P.R., Winnipeg, born at Chatham, Ont., Oct. 16, 1863.

E. Sterling, Superintendent, Districts 2 and 3, British Columbia Electric Ry., New Westminster, born at Thornbury, Ont., Oct. 3, 1875.

C. E. Stockdill, Assistant to Vice President and General Manager, Western Lines, C.P.R., Winnipeg, born at London, Ont., Oct. 25, 1881.

E. N. Todd, Division Freight Agent, Eastern Division, C.P.R., Montreal, born at Huntington, Que., Oct. 17, 1879.

J. H. Valteau, Secretary-Treasurer, Thousand Islands Ry. and Oshawa Ry., Gananoque, Ont., born at Selby, Ont., Oct. 14, 1889.

A. W. Wheatley, President, Lima Locomotive Corporation, Lima, Ohio, born at Ashford, Kent, Eng., Oct. 12, 1870.

## Canadian Pacific Railway Mileage.

Following are the mileages as at June 30:—

Included in C.P.R. traffic returns	12,993.6
Other lines worked	383.6
	13,377.2
Minneapolis, St. Paul & Sault Ste. Marie Ry.	4,228.3
Duluth, South Shore & Atlantic Ry.	627.7
	4,856.0
	18,233.2

## Canadian Pacific Railway Pension Fund.

Following is a statement as at June 30, 1916:—

Balance to June 30, 1915	\$585,548.13
Contributed by company for year	125,000.00
Received as interest	43,609.82
	\$754,157.95

Payment of pension allowances for year	240,222.94
Balance in cash and investments	\$513,935.01

NUMBER ON PENSION ROLL, JUNE 30, 1916.	
Under 60 years of age	60
Between 60 and 70 years of age	445
Over 70 years of age	329
Total	834

**Pacific Great Eastern Ry. Investigation.**—H. C. Brewster, leader of the Liberal party, which carried the British Columbia provincial election recently, is reported to have said in a press interview:—"We will investigate the Pacific Great Eastern Ry. finances and have a strict accounting of every dollar of public money that has been spent in connection with that road, with the idea of recovering as much as possible of all that has been mis-spent."

**The Traveling Engineers' Association's** annual convention, which was to have been held at Chicago, Ill., Sept. 5 to 8, was postponed to Oct. 24 to 28, the Secretary, W. O. Thompson, Cleveland, Ohio, issuing a circular stating that on account of the serious labor conditions in progress with the four brotherhoods, the executive committee deemed it wise to postpone the meeting.

**Protection for Car Men from the Weather.**—The Regina, Sask., Trades and Labor Council has passed a resolution calling upon the Trades and Labor Congress of Canada, to take up with the Board of Railway Commissioners the protection of railway car men from the inclemency of the weather.