making notation in the time book, "Time transferred to (home station) on transfer form," at the same time instructing the employe to report himself to the home station. station timekeeper immediately on arrival.
The timekeeper at home station takes up the form, checks up the departure and ar-Tival hours, records the travelling time and transfers all the time from the form to the time book. a distribution of this time, are promptly forwarded to the home station time office and taken to account in the labor accounts of that office. This form permits of a proper supervision over an employe whilst tayelling the proper supervision over an employe whilst travelling, eliminates the possibility of his time overlapping, and removes the necesoverlapping, and removes the street overlapping, and removes the street overlapping an employe more than once upon the same set of pay rolls, which is very desirable. All certificates, etc., covering time not recorded on the clocks are numbered in consecutive rotation and entered into the time voucher register before being credited to the employe affected in time book, after which they are fyled away in numerical order.

From the foregoing the advantages of the mechanical register in the settlement of disputes arising in regard to the allow-arident. Every employe becomes his own the clock borne out by his signed declaration on his time-card, and the check of the keeper.

As in the case of time registration, there are various methods in vogue of taking up and distributing shop labor to the accounts upon which it is expended. The first method that I experienced was that of time distribution. tibution clerks making the rounds of the shops with the time distribution books once per day on the time distribution of day and taking up the distribution of time the day and taking up the distribution of the was assigned to each man, the description of the was assigned to each man, the description of the work performed and number of hours, etc., recorded in the column headed up for purpose. By this method a competent distribution clerk could take up the distribution of, on an average, 250 men. Baring clerical errors and lapses of memory in part of employes, this method should live a correct distribution of the pay roll, give a correct distribution of the pay roll, but to describe the description of the pay roll, but to draw off the distribution and assemble to the individual jobs entailed a great deal of clerical work at the close of the month or at any time when it might be required to know the at any time when it might be required by know the cost of any specific job to date. By a reversal in the headings of the time distribution book, that of assigning a page or pages to the job instead of the man, the distribution clerks' capacity was increased decreased 50%, and the assembling operation difficulty regarding cost of any job to date was largely obviated. Still, these methods was largely obviated. Still, these methods the questial together satisfactory; whenever the not altogether satisfactory; whenever the question of apparent excessive shop costs came up to excuse the canne up, the opportunity to excuse the distribution of apparent excessive snop costs the shop management at the expense of the distribution clerks was always open, and in inet inet inet was probably well founded. instances the excuse was probably

By the time-card system the responsibility forval be conscientiously shifted. The apsiven by the foreman of the distribution must be the men upon their time-cards by the men upon their time-cards ity of the distribution clerks is increased cards of from 1,200 to 1,500 men. I have the method of collecting the and rates from the boxes, how the hours cation as are checked, and how the verification that the accuracy of the distribution that the time office, after receiving the signature of the foreman, they are handed over

to the distribution clerks, who compute the value of the distributed hours by the wage rate on the card, transferring the distribution in dollars and cents into distribution sheets to the various jobs. This method removes the necessity of drawing off and assembling the distribution; as a matter of fact, a weekly progress report, or, in other words, a daily or weekly distribution of the pay roll, can be reported inside of 24 after the completion of the period, providing, of course, that there are no delays in the handling of the cards to and from the shops. Further, by following out the system in all its details, an absolute distribution can be obtained barring the possible value of cards delayed under investigation or the changing of an employe's rate during a broken period, and of which change the time office has not received the necessary approval. Periodical checks are made upon the distribution clerk's work by tabulating the value of the cards against the sum total of the entries upon the distribution sheet for any given period. At the large plants a check of the men at their work is taken care of by shop constables or watchmen, whilst at the smaller plants where the distribution clerk's time is not entirely occupied with the cards, he makes the rounds of the shops.

It is argued that the system of the workman writing up his own card is more costly than that of the distribution clerk making the rounds of the shops, and that too much time is lost. If time is never lost to a better advantage than in giving a company an accurate accounting for the wages paid, there might be grounds for the contention. From my own personal experience I question very much if any more time is taken up by the men in making up their cards than in giving their time verbally to a timekeeper, and the incidental delays thereto. For instance, in the machine shop it very often necessitates the stopping of a machine; in the blacksmith shop the smith will let his heat cool or fire die down, whilst in the boiler shop it often happens that a whole gang has to be silenced before a timekeeper can get a hearing, and so on. coupled with the discussion of various matters of mutual interest, causes a loss of time over which the shop management has little or no control.

The method by which employes doing

The method by which employes doing contract work record themselves on and off duty, and that of reporting the distribution of their time, is the same as if working day work with the additional check of the contract timekeeper. Whilst it is very undesirable that an employe should work both day and contract work, it cannot always be avoided, and to meet this contingency the foreman is required to initial the time-card at the time the change is made from contract to day work, or vice versa.

The foregoing paper was read at a meeting of the Canadian Railway Club recently.

Recent British Columbia Legislation.

The B.C. Legislature at its current session has passed the following acts affecting railways:

Flathead Valley Ry.—Act of incorporation.
Meadow Creek Ry.—Act of incorporation.
South-east Kootenay Ry.—Extending the time for construction.

Victoria and Barclay Sound Ry.—Act of incorporation.

We are advised that the Temiskaming and Northern Ontario Ry. officials, though keeping in touch with the matter of dispatching trains by telephone, have not as yet decided to supersede the telegraph system.

Government Expenditures on Railways.

During the year ended Mar. 31, 1908, the total railway expenditure made by the Department of Railways and Canals was \$35,495,196.37; of which \$23,684,005.25 was charged to capital, \$2,215,895.69 to income, and \$9,595,295.43 to revenue. The expenditure on capital included \$18,910,449.41 for the National Transcontinental Ry.; the expenditure on income included \$2,037,-629.30 paid as subsidies to railways other than Government roads, and \$123,679.22 for the Board of Railway Commissioners. The expenditure on the Intercolonial Ry. was \$13,597,491.55, of which \$4,328,494.01 was on capital account, and \$9,157,435.53 on revenue account. On the maintenance of the Windsor branch \$37,912.11 was expended on revenue account. The expenditure on the Prince Edward Island Ry. aggregated \$700,-409.62, of which \$390,461.83 was charged to capital, and \$399,947.79 to revenue. revenue from the Government railways was \$9,534,569.04. The total Government expenditure on railways prior to and since Confederation up to Mar. 31, 1908, on capital account was \$185,734,462.04, which includes \$25,000,000 granted to the C.P.R. for its main line. In addition there has been expended from the consolidated fund \$179,021,681.56, which includes \$37,616,-131.84 paid as subsidies to railways in ada total expenditure of \$364,756,143.00. Of this amount \$13,881,460.55 was expended prior to Confederation on the construction of portions of what is now the Intercolonial Ry. system.

The total revenue derived from Government railways from July 1, 1867, to Mar. 31, 1908, was \$128,614,808.72. The gross earnings of the Government railways for the year ended Mar. 31, 1908, was \$9,534,569.04; and the working expenses \$9,595,-295.43, showing a loss of \$60,726.39. The I.C.R. working expenses were \$9,157,435.53, and earnings \$9,173,558.80, showing a profit of \$16,123.27. The Windsor branch maintenance expenditure was \$37,912.11, and the Government earnings \$56,430.41, leaving a profit of \$18,518.30. The Prince Edward Island Ry. working expenditure was \$399,947.79, and its earnings \$304,579.83, the loss being \$95,367.96.

The subsidies paid to railways on account of construction during the fiscal year were:

Atlantic and North West Ry	\$ 186,000 CO
Atlantic, Quebec and Western Ry	64,000.00
Canadian Northern Ontario Ry	244,224,00
Canadian Northern Quebec Ry	256,870,40
Canadian Pacific Ry	3,424.00
Central Ontario Ry	76,861.36
Colchester Coal and Ry. Co	12,800 00
Edmonton, Yukon and Pacific Ry	91,200,00
Halifax and Southwestern Ry	316.567.73
Kettle River Valley Ry	97,771.52
Klondike Mines Rv	101,184.00
Midland Rv. (Ltd.)	31,892,40
Minudie Coal Co	18,544.00
Napierville Junction Ry	173,440,00
Nicola, Kamloops and Similkameen Ry.	190,208,00
Orford Mountain Ry	24.128.00
Ottawa Northern and Western Ry	4,243.20
Quebec Central Ry	55,638,69
Quebec and Lake St. John Ry	73,472,00
York and Carleton Ry	14,560.00

\$2,037,629.30

The Pullman Co. paid \$2,040.15 taxation to the Ontario Government for the year 1908.

R. G. Price, Car Foreman, Quebec Central Ry., Sherbrooke, Que., writes: "Find enclosed renewal subscription to your valuable paper, which I find very instructive."

A. E. Edwards, District Passenger Agent C.P.R., Detroit, Mich., wrote, Mar. 12, 1909: "I receive The Railway and Marine World every month regularly, and find it very interesting."