



Hats, Caps and Furs!

OPENING of the FALL AND WINTER CAMPAIGN.
New style in Men's, Youth's and Boys Hats. Scotch and Felt Caps in great variety. "Olivette," the new Corduroy Hat, at

R. W. COWAN & CO'S,
THE HATTERS AND FURRIERS,
CORNER OF
Notre Dame and St. Peter Streets.

CANADA PAPER CO.
Paper Makers and Wholesale Merchants,
374, 376 & 378 St. Paul Street.
MONTREAL, P. Q.

—AND—
11 FRONT STREET,
TORONTO, ONT.



CANADIAN PACIFIC RAILWAY.

Emory's Bar to Port Moody.

NOTICE TO CONTRACTORS.

Tender for Work in British Columbia.

SEALED TENDERS will be received by the undersigned up to NOON on WEDNESDAY, the 1st day of FEBRUARY next, in a lump sum, for the construction of that portion of the road between Port Moody and the West-end of Contract 60, near Emory's Bar, a distance of about 85 miles.

Specifications, conditions of contract and forms of tender may be obtained on application at the Canadian Pacific Railway Office, in New Westminster, and at the Chief Engineer's Office at Ottawa, after the 1st January next, at which time plans and profiles will be open for inspection at the latter office.

This timely notice is given with a view to giving Contractors an opportunity of visiting and examining the ground during the fine season and before the winter sets in.

Mr. Marcus Smith, who is in charge at the office at New Westminster, is instructed to give Contractors all the information in his power.

No tender will be entertained unless on one of the printed forms, addressed to F. Braun, Esq., Sec. Dept. of Railways and Canals, and marked "Tender for C. P. R."

F. BRAUN,
Secretary.

Dept. of Railways and Canals,
Ottawa, Oct. 24th, 1881.
19-30

40 CARDS, all Chromo, Glass and Motto, in case name in gold & jet 10c. West & Co. Westville, Ct.

THIS PAPER MAY BE FOUND ON
FILE AT GEO. F. BOWELL & CO'S
Newspaper Advertising Bureau (10 SPENCER
STREET), WHOLESALE AD-
VERTISING CONTRACTS
may be made for it in
NEW YORK.

The Scientific Canadian

MECHANICS' MAGAZINE

AND
PATENT OFFICE RECORD
A MONTHLY JOURNAL

Devoted to the advancement and diffusion of
Practical Science, and the Education of
Mechanics.

THE ONLY SCIENTIFIC AND MECHANICAL PAPER
PUBLISHED IN THE DOMINION.

PUBLISHED BY

THE BURLAND LITHOGRAPHIC CO.

OFFICES OF PUBLICATION,

5 and 7 Bleury Street, Montreal.

G. D. BURLAND, General Manager.

TERMS:

One copy, one year, including postage.....\$2.00
One copy, six months, including postage... 1.10

Subscriptions to be paid in ADVANCE.

The following are our advertising rates:—For one monthly insertion, 10 cts. per line; for three months, 9 cts. per line; for six months, 8 cts. per line; for one year, 7 cts. per line; one page of illustration, including one column description, \$30; half-page of illustration, including half-column description, \$20; quarter-page of illustration, including quarter-column description, \$10. 10 per cent. off on cash payments.

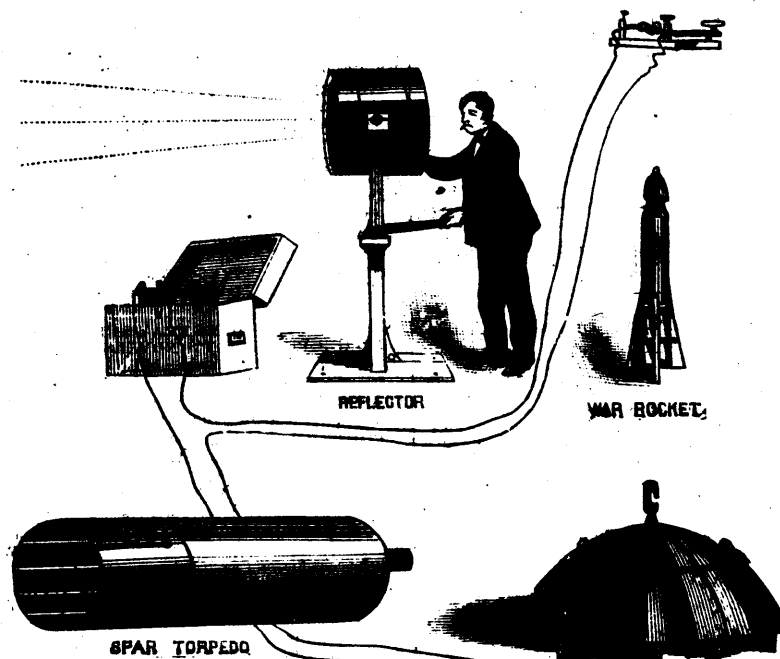
Gray's
SYRUP OF SPRUCE GUM
SOLD BY
ALL DRUGGISTS



SPAR-TORPEDOS



FISH TORPEDO



TORPEDO PRACTICE IN THE UNITED STATES.—(SEE PAGE 307.)

LIEBIG COMPANY'S

For Liebig
EXTRACT
OF MEAT
FINEST AND CHEAPEST
MEAT-FLAVOURING
STOCK FOR SOUPS,
MADE DISHES & SAUCES.

CAUTION.—Genuine ONLY with
the signature of Baron Liebig's
in Blue Ink across Label.

LEA & PERRINS' SAUCE



In consequence of imitations of THE WORCESTERSHIRE SAUCE
which have calculated to deceive the Public, Lea and Perrins have to request
that Purchasers see that the Label on every bottle bears their Signature
thus—

Lea & Perrins

without which no bottle of the original WORCESTERSHIRE SAUCE
is genuine.

Ask for LEA and PERRINS' Sauce, and see Name on Wrapper, Label, Bottle and
Stopper. Wholesale and for Export by the Proprietors, Worcester; Crapsey and
Blackwell, London, &c., &c.; and by Grocers and Oilmen throughout the World.

To be obtained of

Messrs. J. M. DOUGLASS & CO., MONTREAL; Messrs. URQUHART & CO., MONTREAL.

THE ALBERT TOILET SOAPS
ARE PURE AND THEIR
PERFUME CHOICE AND LASTING

"NIL DESPERANDUM."
GRAY'S SPECIFIC MEDICINE
TRADE MARK. The Great English MADE MARK.

Remedy. An un-
failing cure for Seminal
Weakness, Sperma-
torrhoea, Impotency,
and all Diseases
that follow as a
sequence of these
as loss of Memory,
Universal Lassitude,
Dimness of Vision, Premature Old Age, and many
other Diseases that lead to Infertility or Consumption and
a Premature Grave. Full particulars in our
pamphlet, which we desire to send free by mail to every
one. The Specific Medicine is sold by all drug-
gists at \$1 per package, or six packages for \$5, or will be
sent free by mail on receipt of the money by addressing
THE GRAY MEDICINE CO.,
Toronto, Ont., Canada.

Before Taking Pains in the Back, After Taking
Dinner of Vision, Premature Old Age, and many
other Diseases that lead to Infertility or Consumption and
a Premature Grave. Full particulars in our
pamphlet, which we desire to send free by mail to every
one. The Specific Medicine is sold by all drug-
gists at \$1 per package, or six packages for \$5, or will be
sent free by mail on receipt of the money by addressing
THE GRAY MEDICINE CO.,
Toronto, Ont., Canada.

CASTOR FLUID (Registered.)

A delightfully refreshing preparation for the hair.
Should be used daily. Keeps the scalp healthy, pre-
vents dandruff, promotes the growth. A perfect hair
dressing for the family. 25c. per bottle.

HENRY R. GRAY, Chemist.

Sole Manufacturer,
144 St. Lawrence Main Street.

BANK OF MONTREAL.

NOTICE is hereby given that a Dividend of
Four per cent. and a Bonus of One per cent.

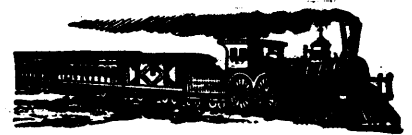
upon the paid-up Capital Stock of this Institution, have
been declared for the current half-year and that the
same will be payable at its Banking House, in this city
and at its Branches, on and after THURSDAY, the 1st
day December next.

The Transfer Books will be closed from the 10th to the
20th of November next, both days inclusive.

By order of the Board.

Montreal, 21st October, 1881.

W. J. BUCHANAN,
General Manager.



South Eastern Railway

AND

Montreal and Boston Air Line

THE DIRECT AND BEST ROUTE
TO

White Mountains,

Concord, Manchester, Nashua, Lowell,
Worcester, Providence.

BOSTON

and all points in NEW ENGLAND, also to the
EASTERN TOWNSHIPS.

On and after MONDAY, JUNE 27th, South Eastern
Railway Trains will run to and from Bonaventure Sta-
tion as follows:—

LEAVE MONTREAL.

DAY EXPRESS running through to Boston at 8.30
a.m., with Parlor Car.

LOCAL TRAINS to Knowlton and All Way Stations
this side at 5.00 p.m., on Saturdays at 2.00 p.m., instead
of 5.00 p.m., and arrive on Mondays at 8.25 a.m. instead
of 9.15 a.m.

NIGHT EXPRESS, with Pullman Sleeper, through
to Boston at 6.30 p.m., will stop only at Chambly, Gas-
top, West Farnham, and Cowansville, between St. Lam-
bert and Sutton Junction, except on Saturdays, when
this train will stop at all stations.

ARRIVE AT MONTREAL.

NIGHT EXPRESS from Boston at 6.35 a.m.

LOCAL TRAINS from Knowlton and Way Stations
at 9.15 a.m., on Mondays at 8.25 a.m., instead of 9.25
a.m.

DAY EXPRESS from Boston at 8.45 p.m.

Express Train arriving at 8.25 a.m. will stop daily at
Richelieu, Chambly, Canton and Chambly Falls.

The most comfortable and elaborate Sleeping Cars
run on the night trains that enter Bonaventure Station.

ALL CARS AND TRAINS run between Bonave-
nure Station, Montreal, and Boston WITH OUT
CHANGE. Baggage checked through to all principal
points in NEW ENGLAND.

BAGGAGE PASSED BY THE CUSTOMS AT
BONAVENTURE STATION, thus saving all trouble to
Passengers at the Boundary Line.

For Tickets, apply at 202 St. James street, Windsor
Hotel and Bonaventure Station.

BRADLEY HARLOW,
President and General Manager.

\$777 a year and expenses to agents. Outfit free.
Address P. O. VICKERY, Augusta, Me.



Q. M. O. & O. RAILWAY.

Change of Time.

COMMENCING ON

Monday, July 25th, 1881.

Trains will run as follows:

	MOND.	MAIL.	EXPRESS.
Leave Hochelaga for			
Ottawa.....	8.30 a.m.	8.15 p.m.	
Arrive at Ottawa.....	1.10 p.m.	9.55 p.m.	
Leave Ottawa for Ho- chelaga.....	8.10 a.m.	4.55 p.m.	
Arrive at Hochelaga.....	12.50 p.m.	9.35 p.m.	
Leave Hochelaga for			
Quebec.....	3.00 p.m.	10.00 p.m.	
Arrive at Quebec.....	9.55 p.m.	6.30 a.m.	
Leave Quebec for Ho- chelaga.....	10.10 a.m.	10.00 p.m.	
Arrive at Hochelaga.....	5.00 p.m.	6.30 a.m.	
Leave Hochelaga for St. Jerome.....	5.00 p.m.		
Arrive at St. Jerome.....	7.15 p.m.		
Leave St. Jerome for Hochelaga.....	6.45 a.m.		
Arrive at Hochelaga.....	9.00 a.m.		
Leave Hochelaga for Joliette.....	5.00 p.m.		
Arrive at Joliette.....	7.25 p.m.		
Leave Joliette for Hoche- laga.....	5.00 a.m.		
Arrive at Hochelaga.....	8.30 a.m.		
(Local trains between Hull and Aylmer.) Trains leave Mile-End Station ten minutes later than Hochelaga.			
Magnificent Palace Cars on all Day Passenger Trains, and Sleeping Cars on Night Trains. Trains to and from Ottawa connect with Trains to and from Quebec.			
Sunday Trains leave Montreal and Quebec at 4 p.m. All Trains Run by Montreal Time.			
GENERAL OFFICES—13 PLACE D'ARMES.			
TICKET OFFICES:			
13 Place D'Armes, 202 St. James Street, Opposite ST. LOUIS HOTEL, Quebec.			
L. A. SENECAI, Gen'l Sup't.			

CARDS. 30 Lily and Imported Glass, 10 Transparent,
200 Motto, Scroll & engraved, (in colors) in case, & 1
Love Letter, same on all 15c. West & Co. Westville, Ct.

Private Medical Dispensary.

(Established 1860, 25 GOULD STREET,
TORONTO, ONT. Dr. Andrews' Pan-
acea, Dr. Andrews' Female Pills, and all
of Dr. A.'s celebrated remedies for various
diseases, can be obtained at the Dispensary.
Circulars free. All letters answered promptly, without
charge, when stamp is enclosed. Communications con-
fidential. Address, E. J. Andrews, M. D., Toronto, Ont.