Important To Have Lightning Protection

Prof. W. H. Day Gives Interesting Talk on Result of His Investigations.

The Shinn Mfg. Co. of Canada, whose factory and head office is at Guelph, Ontario, is holding a two day convention of its Maritime dealers at the Royal Hotel, St. John. The company's specialty is protection against lightning. The convention is in charge of Mr. W. H. Day, secretary and manager of the company, who for sixteen years was professor of Physics at the Ontario Agricultural College, Quelph, and who during that time conducted extensive investigations regarding lightning rods to determine in a practical way whether they really are effective in protecting buildings against lightning. The results of his investigations are contained in Bulletin 220, issued by the Ontario Department of Agriculture, and which may be had on application to the department.

The convention opened at 11 o'clock yesterday morning, when a study was made of the 1920 business and the lessons to be derived from it. The method of manufacturing Shinn flat cable and fixtures was also fully explained.

In the afternoon at 1.30, Professor Day outlined his investigations while at the O. A. C. They began in 1901, when it was found that no statistics were to be had either in America or Europe by which the efficiency of lightning rods could be determined. It became necessary, therefore, to collect original data through the College organization. In ten years' time they had detailed reports regarding 600 buildings that had been struck by lightning, and of these 319, or 53.6 per cent, were burned. Among the six hundred there were 16 rodded, some of which were improperly rodded; still only three of them, or 16 2-3 per cent, were burned. Thus the protected buildings, even though the installations were poor, had only one-third as high a percentage burned as the unprotected ones.

Although this saving seems considerable, yet it was not yet considered sufficient ground for the college to advise the general adoption of lightning rods.

However, studying the problem from the scientific side, the Professor became convinced that according to the laws of electricity, good lightning rods properly installed, should really prevent lightning from striking the buildings that were so protected. This phase of the problem came under the vestigation in 1906, but for several years little progress was made, as several false clues were struck in devising a feasible scheme for collecting data from all parts of the province. Finally in 1912 he succeeded in persuading eighteen insurance companies in different parts of Ontario to keep special records for him. From their reports it was found that out of every 7,000 unprotected buildings insured by them, 37 were struck by lightning, of which about half were burned. But among the rodded buildings it was different, for out of every 7,000 that were equipped with rods only two were struck instead of 37, thus showing that the rods prevented flashes in 35 cases out of an expectancy of 37, which amounted to 94½ per cent. This showed such a high efficiency that it was not thought wise to publish these figures until verified by further results. In 1913 the investigations showed an efficiency of 92 per cent. In September 1913 a visit was made to Iowa and Michigan, where data was obtained from which the efficiency of lightning rods in those states could be calculated, and they proved to be fully as effective as in Ontario. With all these data at hand the results of the investigations were published in March, 1914, and since then they have been verified by several American investigators and also by The Fire Marshals' Department of Ontario, established in 1916.

A study has been made of the few cases where rodded buildings have been damaged and in every case studied the damage has been traced to improper installations either in equipment or workmanship. But where the laws of electricity have been observed in selecting the type of conductor, designing the protective system, and installing the same, damage to the building so rodded, is practically unknown. The Fire Marshal of Ontario has become so strongly convinced of the efficiency of lightning rods that he is urging the rodding of all country buildings, and at least the more important city buildings. The Lightning Rod Act drawn up by him to standardize lightning rod equipment and installation has already passed its second reading in the Ontario Legislature.

While in Michigan in 1913, Prof. Day found that a number of mutual insurance companies were keeping their rodded buildings in a separate class from the unrodded ones and assessing each class for its own losses, the result being that the rate on unrodded buildings was about 35 per cent greater than on the rodded buildings. In Ontario the efficiency of lightning rods has become so fully recognized that the Board of Underwriters passed a regulation that all their members, that is all the tariff companies, must give a preferred rate of 25 per cent in favor of rodded barns and outbuildings, and this preferred rate is now in force. And many of the mutual insurance companies give similar preference on both barns and houses. In Quebec, owing to the great damage on churches, the province passed a law that any church properly rodded should have the advantage of a 12½ per cent discount in the premium rate. This has resulted in many churches being rodded and the lightning damage being correspondingly reduced.

Later in the afternoon Prof. Day spoke on Electricity as Applied to Protection Against Lightning, and this evening he is instructing the dealers on how to design proper systems of protection for different types of buildings.

The convention is being attended by representatives of the city fire department and the Fire Underwriters' Association.

MARINE NEWS

Moon's Phases.

First Quarter	April 16
Full Moon	April 23
Last Quarter	April 29

	Sun rises.	Sun sets.	High water, a. m.	High water, p. m.	Low water, a. m.	Low water, p. m.
Tues.	5.44	7.05	2.06	2.29	8.35	8.44
Wed.	5.42	7.06	2.51	3.19	9.16	9.36
Thurs	5.40	7.07	3.42	4.18	10.09	10.31
Fri.	5.39	7.09	4.43	5.23	11.06	11.31
Sat.	5.37	7.10	5.52	6.30	12.00	12.00
Sun.	5.35	7.11	7.02	7.35	12.37	1.17
Mon.	5.34	7.12	8.09	8.36	1.48	2.24

PORT OF ST. JOHN, N. B.

Wednesday, April 13, 1921.

Arrived Tuesday.

Coastwise—Str Grand Manan, 179, Hersey, Wilson's Beach; str Granville III., 64, Calkins, Annapolis Royal.

Cleared Tuesday.

Coastwise—Str Empress, 612, McDonald, Digby; str Granville III., 64, Calkins, Annapolis Royal; str Grand Manan, 179, Hersey Wilson's Beach.

Caraquet Sails Saturday.

R.M.S.P. Caraquet will sail for Halifax Saturday morning to take on passengers, mail and cargo for Bermuda and the West Indies. Wm. Thomson & Co., are local agents.

Manchester Shipper.

S.S. Manchester Shipper is expected to sail Friday for Norfolk to complete cargo.

Away Tuesday Morning.

The steerage passengers from the C.P.O.S. liner Victorian, numbering 390 left Sand Point Tuesday morning in two special trains enroute to their destinations throughout the dominion. The cabin passengers went forward Monday night in a special train.

Arrived at London.

C.P.O.S. freighter Bosworth arrived at London from St. John on April 7.

Canadian Hunter Due Saturday.

S.S. Canadian Hunter is due here about Saturday from Glasgow via Halifax, to discharge here.

Sails Tomorrow.

Canadian Rancher sails Thursday for London with general cargo.

With The Steamers.

S.S. Canadian Victor arrived at Buenos Ayres from Halifax via Montevideo on April 5.

S.S. Lord Strathcona sailed from Cardiff for Sydney, C. B., on April 9.

S.S. Fotinia passed Gibraltar on April 7 enroute to Genoa with grain from St. John.

S.S. Artagam-Mendi arrived at Gibraltar on April 7 enroute to Italy with grain from St. John.

S.S. Manchester Importer arrived at Manchester on April 7 from St. John. Furness, Withy & Co. are local agents.

Three More C P O S Boats.

Two large C.P.O.S. liners, the Empress of France and the Tunisian are due here on Friday. The former sailed from Liverpool on April 8 with 126 saloon passengers, comprising 119 British and seven continentals; 581 cabin passengers, comprising 570 British and Scandinavians, ten continentals and one Italian; 762 third class passengers, comprising 672 British and Scandinavian, eighty-nine continentals and one Italian.

The Tunisian sailed from Glasgow on April 6 with 218 cabin and 684 steerage passengers all British subjects.

The Melita is the only other passenger sailing of the C.P.O.S. to St. John. She is due here sometime next week, but no advices have as yet been received regarding her passenger list.

Provincial Schooners at New York.

Two provincial schooners due at New York are the Minas Princess, of Parrsboro, and the Ada A. McIntyre, of St. John. The former is a month out from Tampico and the latter ten days out from Bermuda.

Tired of Job.

A number of the steamship companies operating vessels for the account of the United States Shipping Board have curtailed their services. At the present time it is known that some of the liners are debating whether they will entirely suspend a number of the trade routes which were established when the board was seeking to expand its services and set up a network of commercial lines to all parts of the world.

Immigrants From Ireland.

The greatest number of immigrants into Canada during 1920 came from Ireland. Landing at Halifax, St. John, Quebec and Montreal, Ireland sent 61,112; England, 49,248, and Scotland 19,496. The total immigration from 64 countries in 1920 was 147,502, of which 98,636 entered via ocean ports and 48,865 from the United States. Each of the immigrants from the United States brought with him an average wealth in cash and effects of $371.77. The total wealth of United States imigration for the twelve months was $18,166,962.

Talked it Over.

Passenger and freight agents of the Eastern Steamship Lines, from the principal points in the company's territory, met in conference one day last week in the main dining saloon of the steamer Camden at India wharf Boston to discuss matters of policy, including the coming opposition lines to Halifax this summer by Furness-Withy steamers and those of Canada Steamships, Limited.

Venice, April 3 — Arvd, Absirtea (Italian), St John, N B.

Southampton, April 10—Arvd Scandinavian (Br) St John, N B.

Liverpool, April 11—Arvd, Celtic, New York.

Liverpool, April 11—Arvd, Minnedosa (Br), St John, N B.; Canada (Br), Portland, Me, via Halifax.

CANCELL SHIP SAILING.

London, April 12.—The Cunard Steamship Company has cancelled the sailing of the steamship Berengaria, formerly the Imperator, from Southampton, which was scheduled for April 16th.

Furness Line
FROM LONDON
March 30 .....Ariano

Manchester Line
From Manchester To Manchester
Mar. 6—Man. Mariner.....April 15
March 24—Man. Shipper....April 27
Via U. S. Ports
April 12—Man. Merchant ....April 30

Passenger Ticket Agents for North Atlantic Lines.

FURNESS, WITHY & CO., LIMITED
Royal Bank Building,
Tel. Main 2616. St. John, N. B.

EASTERN STEAMSHIP LINES, INC.

During the winter months and until the International Line Service is resumed between Boston and St. John, freight shipments from the United States, especially from Boston and New York, destined for St. John or other points in the Provinces can still be routed in care of the Eastern S. S. Lines, and same will be forwarded promptly each week via Yarmouth and S. S. Keith Cann to St. John. This is a weekly service and shipments leaving Boston Thursdays will reach St. John Mondays. Heavy machinery and perishable freight not accepted. Rates and information on application.

A. C. CURRIE, Agent,
St. John, N. B.

RMSP TO THE WEST INDIES
FORTNIGHTLY SAILINGS
FROM HALIFAX
TO
Bermuda, Montserrat, Barbados
St. Kitts, Dominica, St. Vincent
Antigua, St. Lucia, Grenada
Trinidad and Demerara
RETURNING TO
St. John, N. B.
MAILS. PASSENGERS. FREIGHT.
The most attractive Tourist Route available to the Canadian traveller.
LITERATURE ON REQUEST
The Royal Mail Steam Packet Co.
HALIFAX, N. S.

NOTICE TO MARINERS

Notice is hereby given that the light on Blonde Rock Gas and Whistling Buoy is reported not burning. Will be relighted at first opportunity.

J. C. CHESLEY,
Agent, Marine Department.

Skilful Robbery of French Artist

Mme. Astruc-Ponsard Locked up While Burglars Looted —No Clue Yet.

Paris, April 12.—After they had locked up Mme. Astruc-Pansard, a well-known painter, and her maid, two burglars spent the night in her kitchen, made a meal of bacon and eggs and wine and departed at their ease at daylight.

Mme. Anstruc-Ponsard, who is a flower painter, had just gone from Paris to her country house on the Marne to begin some studies of cherry blossams. She was living alone with only her maid for attendant, and this fact was evidently known to the burglars. Then men arrived at midnight, clad, according to the maid's story, in jerseys and wearing masks, rubber gloves and sandals. Visiting the woman's rooms in turn, they bound them both under menace of instant death from their revolvers. When they found that Mme. Anstruc-Ponsard was too weak from fear to resist they loosened her bonds. When they demanded money she gave them 1,000 francs, but they refused to believe that it was all she had. She had to produce 2,000 more and jewels worth 35,000 francs.

With a parting injunction that the disclosure of the robbery, even in confession, would be avenged by death, the two men then retreated to the kitchen and spent the rest of the night making themselves a good meal.

So carefully was the whole affair accomplished that not a single mark can be found by the police which would lead to the identification of the robbers, and the suspicion is that the crime was planned and carried out by youths better read in expert "Raffles" literature than are the majority of the criminal class.

THE MYSTERY SOLVED

Indiana Harbor, Ind., April 12.—Mysterious robberies have puzzled the owner of a soft drink parlor at 3612 Beach street for the past month. Finally he placed $92 in a cigar box and turned to make change for a customer. When he came back the box was empty. A policeman lined up everybody in the place and searched them. None had as much as $20. The policeman searched the garret and cellar and was about to give up when he heard a squeak from a rafter. He found a nest made of $103 in bills. Twelve baby rats were nibbling at the edges of the $92 roll. They had eaten about $1.65 worth before he rescued it.

Business Cards

AUTO STARTING AND IGNITION
MODERN ELECTRIC CO., 64 Sydney St.—Auto Starting, Lighting and Ignition Trouble Repaired. Motor and Generator Work Timing. Armature Winding. Violet Ray and Electrical Vibrators Repaired. M. 263.

AUTOS (USED CARS)
NEW BRUNSWICK AUTO EXCHANGE. 178 Marsh Road—High-Grade, Guaranteed Likes of Used Cars. All Makes and Models. Agents Briscoe Autos. Repairs, Accessories, etc. M. 4078. Res. M. 512-11.

DOCTOR OF CHIROPRACTIC
DR. R. ARTHUR WESTRUP, Health Ray Institute, 9 Coburg St., Spinal adjustments which will move the cause of Disease. M. 4267.

MARRIAGE LICENSES
MARRIAGE LICENSES issued at Wasson's, Main St.

OIL COMPANY
REVENUE SUPPLY CO., 14 North Wharf. Absolute High-grade Lubricating Oil for Autos and Motor Boats. Many Satisfied Users. Satisfaction at Less Cost. Call or Write for Full Particulars. M. 4017.

VIOLINS, MANDOLINS
And All String Instruments and Bows Repaired.
SYDNEY GIBBS, - - 81 Sydney Street

G. G. MURDOCH, M.E.I.C.
Established 1870
Civil Engineer and Crown Land Surveyor,
74 CARMARTHEN STREET
Phones M. 61 and M. 655

For Reliable and Professional Optical Services, call at
S. GOLDFEATHER,
639 Main (upstairs). Tel. M. 3113-11.

W. Simms Lee, F. C. A. George H. Holder, C. A.
LEE & HOLDER,
Chartered Accountants
QUEEN BUILDING, HALIFAX, N. S.
Rooms 19, 20, 21. P. O. Box 723
Telephone, Sackville, 1212.

PATENTS
FEATHERSTONHAUGH & CO.
The old established firm. Patents everywhere. Head Office, Royal Bank Building, Toronto; Ottawa offices, 5 Elgin street. Offices throughout Canada. Booklet free.

BINDERS AND PRINTERS
Modern Artistic Work by Skilled Operators.
ORDERS PROMPTLY FILLED
THE McMILLAN PRESS
98 Prince Wm. Street. Phone M. 2740.

FRANCIS S. WALKER
Sanitary and Heating Engineer
No. 14 Church Street.

Signs, Extension Ladders and Trestles
H. L. MACGOWAN & SON
HOUSE AND SIGN PAINTERS
'Phone Main 697. 79 Brussels St.
ST. JOHN, N. B.

Bags and Suit Cases.
We have a large assortment which we are offering at moderate prices.
H. HORTON & SON, LTD.
9 and 11 Market Square.
'Phone Main 448.

ELEVATORS
We manufacture Electric Freight Passenger, Hand Power, Dumb Waiters, etc.
E. S. STEPHENSON & CO.,
ST. JOHN, N. B.

FARM MACHINERY
OLIVER PLOWS
McCORMACK TILLAGE AND SEEDING MACHINERY
J. P. LYNCH, 270 Union Street.
Get our prices and terms before buying elsewhere.

POYAS & CO., King Square
JEWELERS
Full lines of Jewelry and Watches. Prompt repair work. 'Phone M. 2965-11

AUTO INSURANCE
Ask For Our New Policy.
FIRE, THEFT, TRANSIT, COLLISION.
All in One Policy.
Enquiry For Rates Solicited.
Chas. A. MacDonald & Son,
Provincial Agents. 'Phone 1536.

Western Assurance Co.
Fire—Marine—Automobile
Riot—Strike—Explosion
The leading Canadian Fire and Marine Company. Agents wanted.
R. W. W. FRINK & SON,
St. John, N. B.

— THE —
QUEEN INSURANCE CO.
Offers the Security of the Largest and Wealthiest Fire Office in the World.
C. E. L. JARVIS & SON,
Provincial Agents.

"Keep cheerful is the watchword." Sure; throw the burden on the other fellow as cheerfully as you can.

SPEAR Millinery Co.
177 Union Street, St. John, N. B.

ROYAL HOTEL
King Street
St. John's Leading Hotel.
RAYMOND & DOHERTY CO., LTD.

W. F. O'CONNOR, K. C.
OTTAWA
Legal Counsel
Practice in Court confined to Courts of Dominion jurisdiction.

VICTORIA HOTEL
Better Now Than Ever.
87 KING STREET, ST. JOHN, N. B.
St. John Hotel Co., Ltd.
Proprietors,
A. M. PHILLIPS, Manager.

A. M. ROWAN
'Phone M. 398. 331 Main St.
Paints, Oils, Glass, Mill Supplies, Dry and Tarred Paper, Cutlery House Furnishing Goods.

Colwell Fuel Co., Ltd.
Bituminous, Anthracite and Bunker Coal.
'Phones West 90—17.

Designs and Estimates prepared to Customer's Requirments.
EMERY'S
CABINETMAKERS, UPHOLSTERERS
125 Princess Street
St. John, N. B.
Reproductions of Eighteenth Century Furniture.

DOMINION COAL COMPANY Limited
"DOMINION" and "SPRINGHILL"
BITUMINOUS STEAM and GAS COALS
GENERAL SALES OFFICE
112 ST. JAMES ST. MONTREAL
R. P. & W. F. STARR, LIMITED.

ALL SIZES OF
Hard Coal
now in stock.
R. P. & W. F. Starr, Ltd.,
49 Smythe St. 159 Union St.
'Phone Main 9.

TENDERS FOR COAL.

SEALED tenders, addressed to the undersigned and endorsed "Tender for Coal for the Dominion Buildings, Maritime Provinces," will be received at this office until 12 o'clock noon, Wednesday, April 27, 1921, for the supply of coal for the Dominion Buildings throughout the Maritime Provinces.

Combined specification and form of tender can be obtained from the Purchasing Agent, Department of Public Works, Ottawa, and from the Caretakers of the different Dominion Buildings.

Tenders will not be considered unless made on the forms supplied by the Department and in accordance with the conditions set forth therein.

Each tender must be accompanied by an accepted cheque on a chartered bank, payable to the order of the Minister of Public Works, equal to 10 p.c. of the amount of the tender. War Loan Bonds of the Dominion will also be accepted as security, or war bonds and cheques if required to make up an odd amount.

By order,
R. C. DESROCHERS,
Secretary.
Department of Public Works,
Ottawa, April 9, 1921.

CLASSIFIED ADVERTISING

Two cents per word each insertion.
Minimum charge twenty-five cents.

SALESMEN WANTED

SALESMAN — A self-respecting salesman, whose ambition is beyond his present occupation, might find more congenial employment with us and at the same time double his income. We require a man of clean character, sound in mind and body, of strong personality, who would appreciate a life's position with a fast-growing concern, where industry would be rewarded with far above average earnings. Married man preferred. Apply to Mr. Mercer, second floor, 167 Prince William street.

GOODS FOR SALE

CLOTH, CLOTH, CLOTH! Do your women folks need materials in good qualities for their dresses and suits? We have thousands of yards that will be sold as low as $2.75 per yard, 1-2 regular price, in goods 54 to 56 inches wide. This is an excellent opportunity to get materials in better qualities than usually found in women's fabrics and also take care of the children needs. Call at our store address, 28 Charlotte St., ENGLISH & SCOTCH WOOLEN CO.

WANTED.

TRAVELLER with three years experience in Nova Scotia wants position. Twelve years previous experience in general store. Box 11, Upper Port La Tour, Shelburn Co.

LOST.

LOST—Fountain pen on Prince William, Duke, Germain or Queen streets. Finder kindly leave same at Standard office.

"MUNICIPAL AND REAL ESTATE FINANCE IN CANADA."

The pamphlet entitled "Municipal and Real Estate Finance in Canada," just issued by the Commission of Conservation touches upon some of Canada's most difficult financial problems. It is a clear and convincing statement by Mr. Thomas Adams, Town Planning Adviser to the Commission, regarding housing, land speculation and high taxation, resulting from municipal waste and mismanagement.

No national problem in Canada is of greater importance than that which has to do with the conservation of human and financial resources in our cities and towns. This publication emphasizes the fact that until we employ saner methods in developing our community life any efforts being made to conserve our natural resources must be nullified as a result of the careless way in which the wealth derived from these resources is dissipated by bad forms of land development.

This pamphlet may be obtained free on application to the Commission of Conservation, Ottawa.

SOME EASTER EGG.

Regina, Sask., April 12.—A Regina hen must have heard of the record made by a sister in Kansas recently, for on Easter Sunday the industrious bird produced an egg eight and a half inches long, six inches in narrow circumference and only one-eighth of an ounce short of a pound by weight. The Kansas egg exceeded this by only one-eighth ounce in weight and fell short of it in dimensions.

FEMALE HELP WANTED

WANTED—Second or third-class teacher for balance of term, South Musquash School. Apply stating salary to Burton M. Wenn, South Musquash.

AGENTS WANTED

PORTRAIT Agents desiring Prints, Finishes and Frames. Write United Art Company, 4 Brunswick Ave., Toronto, Ont.

AGENTS WANTED

in unrepresented districts. Salary or commission. Apply N. B. Branch The National Life, offices Union Bank Bldg., St. John, N. B. W. W. Titus, Provincial Manager.

AGENTS REQUIRED

SPORTING ENTERPRISE.
Ex-Service Men whole or spare time
LIBERAL REMUNERATION.
Apply by letter, CAPT. HAMMOND
45, CHANCERY LANE, LONDON, E. C. 2.

FOR SALE

FOR SALE—Steel Range, Hot water fittings, Kitchen Utensils. Bargains, 176 Adelaide Street, upstairs.

All Uncalled for suits and overcoats from our 30 branches throughout Canada will be sold at $14.00 each. Odd trousers $3.95. In many cases this price is less than 1-3 their actual value. Merchants buy these goods for resale to their customers. Wise men will buy 2 or 3 suits and an overcoat at this price. For sale at 28 Charlotte St., ENGLISH & SCOTCH WOOLEN CO.

STEAM BOILERS

We offer "Matheson" steam boilers for immediate shipment from stock as follows:

NEW

1.—Portable on wheels, 50 H. P., No. 10, 48" dia., 16'-0" long, 135 pounds, W. P.

1.—Portable on wheels, 40 H. P., No. 9, 44" dia., 16'-0" 125 pounds, W. P.

2.—Verticals, 30 H. P., 36" diameter, 100" high, 125 pounds, W. P.

USED

1.—Vertical Marine, used one season, 72" dia., 8'-0" high, 135 pounds, W. P.

Write for farther details and prices.

I. MATHESON & CO., LTD.
Boilermakers
New Glasgow, - - Nova Scotia

SANTAL CAPSULES MIDY
Easy to Take—Quick to Relieve
CATARRH of the BLADDER
Safe, Successful
Each Capsule bears name MIDY
Beware of counterfeits

SOFT COAL
ORDER NOW
McGivern Coal Co., Main 42 1 Mill St.

SHIPPING AS USUAL
JOHN J. BRADLEY
208-210 McGill Street
P. O. Box 1479
Montreal, Quebec

WILLIAM E. McINTYRE, LTD.
34 St. Paul St. West
Montreal. P. O. Box 1990.

FOR SALE | FOR SALE | FOR SALE

Are You Building or Repairing?
If so, you will want to hold down your cost.
WE CAN HELP YOU
All Widths in 2" and 3" Merchantable Stock
A good grade of Number 2 in many building sizes.
BOARDS, LATHS AND REFUSE
Write, wire or phone at our expense.
SOLLOWS COMPANY - HAMPTON, N. B.