

SAYS NORTHERN ATLANTIC ROUTE IS SAFER THAN THAT TO NEW YORK

Dr. H. T. Barnes, Authority on Ice, Lectures in St. John.

A lecture of engrossing interest and of particular applicability to hydraulic engineers was delivered last night in the assembly hall of the N. B. Telephone Co., Ltd.'s building by Dr. Howard T. Barnes, D. Sc., F. R. S., of Montreal, before a number of the St. John branch of the Engineering Institute of Canada. H. F. Bennett, A. M. E. I. C., was in the chair.

Many beautiful pictures, all taken by Dr. Barnes in the course of his research work on the St. Lawrence and elsewhere, were projected on a screen. Especially artistic among them were pictures of ice crystals. The ice crystal reflects the rays of the sun in much the same manner as does a prism.

Dr. Barnes' subject was "Ice Formation and Prevention," and it was handled as only one perfectly familiar with the study of ice for many years could deal with it.

Although the lecture was somewhat technical, it held general interest in the fact that it dealt with problems which in their indirect effect have an enormous influence upon the public at large, such for instance as the effect of ice on modern power plants, and ice barriers causing spring and winter floods in rivers.

At the outset the lecturer described his early experiments carried out in 1896 on temperature variation in the water and the relationship between a small variation and the behavior of ice in the St. Lawrence River. The far-reaching result of this work was exemplified, he said, in the design of modern power houses, and ice handling machinery and the development of ice preventive methods.

The lecturer described the three varieties of ice such as frazil, or needle ice, anchor or ground ice and surface ice. Frazil accumulations under the surface ice caused, he said, the immense dams and ice barriers which formed so rapidly in a river partly open and partly frozen over. Such barriers were called ice bridges, and he said were the cause of many floods during the winter and spring. Anchor ice, he said, grew on the bottom of an open river, and sometimes lifted the river right up, out of its bed and caused floods. This variety, he said, resembled the weeds seen growing on the bottom of a river during the summer.

Effect of Temperature. In dealing with surface ice, the lecturer referred particularly to the fact that air temperature and average water temperature governed the thickness of the ice in any locality. The lecturer described the conditions under which surface ice could be prevented from forming and illustrated how the work of the ice-breakers of the Canadian government were now preventing the serious floods on the St. Lawrence River between Montreal and Quebec. Artificial heating methods for preventing ice and the construction of icebergs were considered.

The speaker traced the formation of icebergs from the fjords of Greenland and of their slow movement of 10 to 80 miles a day in their southern trip and occasionally of bergs becoming grounded and taking two years before reaching Newfoundland. By means of a chart in which the area covered by icebergs became gradually wider to its southern extremity in the Atlantic Ocean below Newfoundland he argued that the northern route, by requiring a shorter distance through the danger zone of bergs, was safer than the route to New York and American ports, which some attempted to prove the safer route.

Further north there were fewer icebergs, and they were larger and easier to see and confined to a comparatively narrow path, whereas as the icebergs moved southerly they disintegrated into smaller pieces which were largely below the surface, and, scattered over a larger area, were more dangerous to navigation.

He expressed a willingness to debate the advantages of the northern route to Canadian ports as being safer than the southern route used by ships for American ports. Speaking of overcoming ice conditions on the St. Lawrence mention was made of the good work done by the "Mikula," formerly the "J. D. Hazen," and of her being the most efficient ice-breaker available for the Gulf of St. Lawrence. The lecturer mentioned the several steps necessary to maintain an open channel in the St. Lawrence for navigation throughout the year, as closing off the ice flow from the Great Lakes and other lakes, employing ice-breakers, injecting steam at certain strategic points where bad ice conditions prevailed, constructing dams to draw out rapids and practically make a ship channel canal of the St. Lawrence.

A vote of thanks was moved by F. P. Vaughan, M. E. I. C. and seconded by A. Gray, M. E. I. C., and extended to Dr. Barnes on behalf of those present.

Dr. Barnes has just completed a tour of the maritimes, during which he addressed the engineering institutes in Moncton, Halifax and Sydney. He left this morning for Fredericton where he will address the student body of the University of New Brunswick.

WEDDINGS

Monroe-Gulliver.

A pretty wedding was solemnized on Wednesday, Jan. 30, at the home of the bride's aunt, Mrs. Elizabeth Wallace, Sussex, when her niece, Miss Hazel Swan Gulliver, daughter of the late Joseph Gulliver, Rockville, was united in marriage to Mr. Clarence James Monroe, of St. John. The ceremony was performed by Rev. A. V. Morash. The house was nicely decorated with cut flowers and plants and presented a pleasing appearance.

The bride, who was given in marriage by her brother, Mr. Harry Gulliver, was charmingly gowned in rose ash Canton crepe and carried a bridal bouquet. After the ceremony a delicious supper was served.

The bride was a popular member of the District Superintendent's office of the C. N. R., Moncton, from which she received a beautiful chest of silver. Mr. and Mrs. Monroe will reside in Los Angeles, Calif.

DEATHS

Dr. P. H. Warneford.

Dr. Percy H. Warneford died at his home in Hampton Village yesterday afternoon and his death will be sincerely mourned by very many throughout the province. As a doctor he had won a well merited regard and as a highly esteemed member of the community his place will be difficult to fill. He was a son of the late Rev. E. A. Warneford, the beloved Anglican rector of Norton for many years.

After graduation from the Provincial Normal School, Dr. Warneford taught in the Hampton Village school for a time and then entered upon his studies at McGill University. He graduated from McGill in 1887 and for a time practiced his profession in Canterbury, York county, before taking up his residence in Hampton, where he entered into partnership with the late Dr. George L. Taylor, M. P. P. After Dr. Taylor's death, Dr. Warneford carried on the practice unaided.

For many years he was ship's physician for the R. M. S. P. boats sailing from St. John to the West Indies. A few years ago he gave up his practice because of failing health. His fatal illness was of short duration, however, lasting but five days.

His wife, who was Miss Allison, of Windsor, N. S., died in 1906, and he is survived by two sons, Harry, of Hampton, and Eric, of Kingston, Jamaica, and one brother, Rev. Charles Warneford, of Windsor, England. The funeral will take place on Friday afternoon at 2 o'clock from his late residence at Hampton to the Church of the Ascension in Lower Norton.

Miss Sophia Longmaid. At the age of 91 years Miss Sophia Longmaid died yesterday at Glen Falls after a comparatively short illness. She was a teacher in the primary department of the Central Baptist church for more than 40 years, being a charter member of the old Brussels street church, which later became amalgamated with the Lennox street Baptist, which merged into Central church as it is now constituted.

Miss Longmaid was the daughter of the late John Longmaid, of Her Majesty's Customs, and Mrs. Longmaid. Mr. Longmaid died in the cholera plague on 1848 in this city. He came from England in 1830, just a few years after the Loyalists landed in St. John and might be considered a pioneer. Many of the adult members of the Central Baptist church and at other Baptist churches in the city recall the instruction received from Miss Long-

maid. She is survived by four nephews, F. E. Holman, P. B. Holman, Allan D. Barbour, of this city, and L. A. Holman, of Boston; three nieces, Mrs. A. C. Curry, Mrs. H. B. Spears, of this city, and Mrs. George D. Pope, of Summerside, P. E. I.

Miss Longmaid was the last of seven children. One of her sisters died last year at an advanced age. She was Mrs. Holman, brother of F. E. Holman. R. N. Longmaid, formerly of Her Majesty's Customs, was a brother. Mrs. John R. Calhoun, who died a short time ago, was also a sister.

The funeral service will be held at the residence of her nephew F. E. Holman, 262 St. James street, on Thursday afternoon at 2.30 o'clock.

Simple Application That Dissolves Blackheads

No more squeezing and pinching to get rid of those unsightly blemishes, blackheads. There is one simple, safe and sure way to get them out, and that is to dissolve them. Get about two ounces of peroxide powder from your druggist—sprinkle a little on a hot, wet cloth—rub briskly over the blackheads for a few seconds—wash the parts, and every blackhead will be gone. Pinching and squeezing out blackheads make large pores, and you cannot get all of the blackheads out this way—while this simple application of peroxide powder and water dissolves every particle of them and leaves the skin and pores in their natural condition.

From the day I first knew her she has been an inspiration and the greatest helpmate of my life. Health is the first essential of every woman who wants to be a successful wife and to have the love and admiration of her husband. If a woman finds her energy flagging and dark circles appearing under her eyes, she has lack of blood, nervousness and the "blues," she should take Lydia E. Pinkham's Vegetable Compound, the medicine which holds the record of helping 98 out of every 100 women who try it. There is nothing better.

RECEIVE WEDDING GIFTS. Two teachers of the Portland Metropolitan Sunday School, Mrs. Glenn Cunningham and Mrs. Archibald Luck, who were married last summer were specially honored at last night's quarterly meeting of the board of management of the Sunday school at the parsonage, 111 Paradise Row. Wedding gifts of silver cake baskets were presented to Mrs. Cunningham and Mrs. Luck. The presentations were made by R. T. Hayes, M. L. A., honorary superintendent. S. A. Kirk, the superintendent, presided at the meeting and William Atherton offered prayer. Fifty officers and teachers were present. A brief outline of the finances was given by Allen Lingley, the treasurer, showing the school to be in a flourishing condition. A short address was given by Rev. H. A. Goodwin, the pastor, and Miss Elsie Spence sang a solo. At the close of the meeting a pleasant social time was enjoyed and refreshments served. Heartily thanks were extended to Mr. and Mrs. Goodwin for their hospitality.

Rev. Dr. MacDonald. Antigonish, N. S., Feb. 12—Rev. Donald MacDonald, D. D., aged 89, died at St. Martha's Hospital here today following a brief illness. Dr. MacDonald, who was a native of North Side, East Bay, Cape Breton, was apparently in his usual health on Sunday when the morning he celebrated mass and in the evening officiated at Benediction.

He was formerly vice-rector of St. Francis Xavier University, pastor of the parish of Lakeville, Antigonish, pastor of Margaree and of recent years he has been chaplain of Bethany, the mother house of the Sisters of St. Martha at Antigonish.

SECRET OR HIS SUCCESS. One of the most noted, successful and richest men of this country in a recent article said, "Whatever I am and whatever success I have attained in this world I owe it all to my wife."

One Piece Pillow Shams

Hemstitched or embroidered. 30 x 58 in. Sale \$1.25 ea. Pure Linen Huck Towels: hemstitched 12 x 35 in. Sale 45c ea. Large Turkish Towels: superior quality. Sale \$1.00 ea. (Linen room—ground floor)

Stores open 9 a. m.: Close 6 p. m. daily, during winter months.

Week-End Bargains Throughout The Store

Commencing Thursday Morning, Special Price Attractions in Many Departments Make Week-end Shopping Genuinely Profitable. Arrange to be Here Early Enough to Look Over the Assortments at Their Best.

Bargains in Children's Wear

Chambray Rompers in assorted colors. For ages 1 and 2 yrs.—65c garment. White Drill Middies. In regulation style. For ages 6 to 14 yrs.—Sale \$1.15. Black Sateen Bloomer Dresses with various trimmings. Splendid for play frocks. For ages 1 to 4 yrs.—95c ea. Pull-Over Sweaters. In scarlet and buff. For ages 14 and 16 yrs.—Sale \$2.35 ea. Chambray Aprons. With gingham trimmings. For ages 2 to 4 yrs.—Sale 50c ea. (Children's shop—2nd floor)

Sale of Whitewear

Night Dresses—a nice variety including white nainsook, butterfly crepe and pink cambric. All dainty styles and prettily trimmed. Sale \$1.15, \$1.25, \$1.69. Envelope Chemises—in white cambric with colored stitching; also lace trimmed. 98c and \$1.10 gar. Chemise prettily trimmed with lace insertion. Shoulder strap style. A very special value at \$1.50. Princess Slips—in double panel style. Made from white cambric and nainsook. Regulation and opera cuts. Sale \$1.25 and \$1.50.

Curtain Materials

Crossbar Marquisette in white, cream and beige. 36 in. wide. Only 30c yd. Madras Muslin in ivory shade. Good quality. 36 in. to 45 in. wide.—Sale 38c yd. Curtain Nets in new designs. A number of patterns to choose from. 40 in. wide.—Sale 38c yd. Printed Marquisette and Moolah Cloth; colored for overcurtains. 36 in. wide.—Sale 28c yd. Lace Curtains, 2 1/2 yds. long. Three Big Bargain Prices—50c, \$1.00, \$1.25 pr. New Flat Extension Curtain Rods. 28 in. to 48 in.—Sale Price 25c ea. (Germain St. entrance)

Hosiery You'll Like—Very Low Priced

Women's All Wool English Hose. Wide Ribs. Showing in fawn, brown, navy, grey, coating, etc. Very Fine Value at—75c, \$1.00, \$1.25 pr. Women's Plain Heather Hose with clocks. Big Value. \$1.50 pr. Women's Pure Thread Silk Hose with clocks. Showing in black white, brown white, grey black, white black. Your choice, \$1.10 pr. Children's Wide Rib Wool Hose. Fawn and brown only. Only 45c pr. (Hosiery—ground floor)

Cluny Lace Work

Slightly Soiled. Selling at Half Price. D'Oyleys—Sale 50c, 75c, 95c ea. Runners—Size 18 x 36 in.—Sale \$3.50 ea. Size 18 x 45 in.—Sale \$4.50 ea. Sample Handkerchiefs. In lawn and linen. Women's sizes. Sale 3 for 50c; 3 for 75c; 3 for \$1.00. (Ground floor.)

Children's Stamped Dresses

For ages 3 to 5 yrs.—Sale \$1.25 ea. Embroidered Cushion Slips in natural linen.—Sale \$1.50 ea. Stamped Linen Centres in white only. New designs.—Sale Price 50c ea. \$1.00. (Ground floor.)

Week-End Bargains Throughout The Store

Commencing Thursday Morning, Special Price Attractions in Many Departments Make Week-end Shopping Genuinely Profitable. Arrange to be Here Early Enough to Look Over the Assortments at Their Best.

Knitted Sets. Consisting of Sweater and Pull-Over Panties. White with blue or pink trimmings. Tots sizes only.—Sale \$2.45 set. Fine White Nainsook Dresses—Edged with pink or sky picoting. 1 and 2 yr. sizes.—Sale 75c and \$1.25 ea. Infant's Long Dresses. In fine nainsook with lace edged neck and sleeves.—Sale 89c ea. Infant's Long Dresses with round hemstitched yoke.—Sale \$1.00 ea. Baby's Rubber Pants; medium and large sizes. Good quality.—Sale 35c garment. (Children's shop—2nd floor)

Step-In Sets—consisting of chemise and step-ins. Trimmed with applique and hemstitching. Made from pink batiste. Bargains at \$1.25 and \$1.98 set. Step-In—made from cross barred muslin or butterfly crepe.—Sale 60c and 95c. Pongette Bloomers. Special \$1.00 gar. Pink Brocade Bloomers. Special 85c gar. (2nd floor)

Wonderful Value in Pretty and Practical House Dresses

Assorted gingham and chambrays in checks, stripes and self colors. Many of these have trimmings of organdy. Styles are very attractive and you'll find practically all sizes in the assortment. Three Special Prices—\$2.15, \$2.50, \$2.95. Big Underskirt Values

Plain and Flowered Sateens in proper widths and lengths for spring frocks and skirts. Your choice, 95c and \$1.25 ea. Extra Large Sizes in Black and Colored Sateens. Only \$1.50 ea. Sleeveless Sweaters

Newest Varieties with fancy brushed wool fronts and plain backs. Plain and checked effects. Many colors and styles to choose from. A Bargain at \$2.95 ea. (Costume dept.—2nd floor)

Pretty Collar and Cuff Sets

In linen, net, lace and organdy. Week-end sale, 85c set. Swiss Collars in white and colors; also Pique Sets or separate Collars. Your choice, 45c.

Neckwear—ground floor)

Manchester Robertson Allison Limited

KING STREET GERMAIN STREET MARKET SQUARE

1924-AMOUR'S BARGAIN BULLETIN, No. 20-1924

SPECIALS FOR THURSDAY

- Boys' Coat Sweaters, - - 59c
- Boys' P. O. Sweaters, - - 79c
- Boys' Golf Hose, - - 49c
- Men's Mufflers, regular \$1.50, 69c

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Spanish Drapes in Afternoon Frocks



New creations to make and maintain social success! Three high lights of fresh fashioning—and then you come to color.

Four divergent Silk Crepes: from filmy Crepe Romaine on to Canton, next your heavy Rosh-anara and so to Crepe Satin.

Charm and sweep of design. The advent of the Spanish inspiration—so now you, too, may wear a costume with the world admired elat of a maid of Spain. Deep fringed drapes curving down across from the left hip. Many Daniel Dresses now capture the romance of Old Madrid, whence came costume brilliance to classic operas.

Shirred drapings in turn—elaborate metallic ribboning—allover steel beading toned to the hue of the garment. For instance, a Burnt Orange with Old Gold Beading. The ornamenting of the new Daniel Dresses varies with your desire.

Your color—Madonna Blue and others—Grays you never beheld before—the Black that holds away where Fashion becomes Fashion—variegated Browns and many of the new shades and tints. Your price—mainly between \$34.75 and \$24.75

Come to know what's new. DANIEL CORNER KING LONDON HOUSE

GENTLEMEN—it removes dandruff

7 SUTHERLAND SISTERS SCALP CLEANER (SHAMPOO)

LADIES—it keeps the hair soft and clean.