

OUR WINTER STOCK OF
AMERICAN and WELSH ANTHRACITE COAL
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M. MOREY & CO., Ltd.
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Harnessing Wireless Waves.

By ARTHUR C. BURROWS.
DIRECTOR OF PROGRAMMES, BRITISH BROADCASTING.

A Professor of the University of Moscow is said to have made the discovery that wireless waves can be caused to behave like light waves. In other words, he has discovered that these waves can be bent from their normal course and even be reflected.

I think the claim must have been misconstrued. If not, it would appear that the new conditions in Russia have placed its scientists out of touch with what has been happening elsewhere.

The fact that electrical waves travel the other can be bent and reflected has been known since 1887, when Heinrich Hertz demonstrated the similarity in behavior between these waves and those of light and heat.

A Beam to Birmingham.

What is more interesting to people in the United Kingdom is the fact that in this country there are at least two wireless stations in which electric waves, instead of being allowed to radiate in all directions like the ripples set up when a stone is cast into a pond, are actually caught within a curved reflector and projected in an almost parallel ray. These stations have been in existence for many months and have laid the foundations of a development in wireless that may have far-reaching effects.

Those who live in the London area and have passed through Hendon on their way to the aerodrome may have noticed on a piece of sloping ground a number of wires hanging in something like a semicircle from other wires suspended between steel towers. Near the centre of this peculiar arrangement is a hut which can be made to slide backwards or forwards on wooden runners.

This mysterious affair is the wireless equivalent of a searchlight. The movable hut with its wireless station takes the place of the arc-lamp and the semicircle of aerial wires the reflecting lenses or mirrors of the searchlight. The wireless waves caught by this reflector are converted into a wave beam and projected in almost a straight line towards Birmingham.

At Frankley, near Birmingham, is a similar station which projects wireless waves to Hendon. What it still more interesting, it collects the beam of rays from Hendon, and, like a concave shaving mirror, concentrates them on the receiving apparatus. Such a wireless beam provides something very nearly approaching secrecy.

The directional effect of such a station is very marked. I have walked around the Hendon station with a wireless receiver tuned to the short wave-length upon which this station works. Absolute silence prevailed until I stepped into the path of the beam; then the speech immediately came up loud. At a distance, even when in the path of the beam, sensitive apparatus fails to detect the speech, and it is only when the beam is reconstructed at the receiving end, and the signals are thereby increased about 200 times, that they again become comfortably audible.

Owing to the size of the reflectors required, developments made with reflected wireless waves have so far been confined to short wave lengths. Do you know that nearly every motor car is a wireless station with a short-wave length? With suitable apparatus, a Ford car—in fact, almost any make of car employing magnetism—can be heard by wireless two or three miles away.

It is not that there is something more than camouflage will be necessary to protect a motor-car passing along a screened road. The artilleryman, completely hidden from his objective, but having a directional wireless aerial for his gunlight, will be able to blow the motor-car sky-high. It will be up to the motor industry in those days to produce substitutes for magnetos and plugs.

The Lighter Side.

"Wonderful things, newspapers, these days, ain't they, Bill? They've got so many different kind of things in them—stories, cookery, 'ints, murders, suicides, racin'—something for everybody, in fact."

"You're right, they are, Charles."

"But what's this 'ers blank space, Bill?' pointing to the blank space left for 'Stop Press News.'"

"Oh," replied Bill, "that's for them 'rot can't read!'"

Signs in the Sky.

Be Your Own Weather Prophet.

Signs of fair or foul weather are noted very carefully by country people. Some of them are more inclined to believe in the old sayings about weather than in any readings from barometers or the predictions of weather prophets. Here are a few old saws:

Evening red and next morning grey are certain signs of a beautiful day. If the cock goes crowing to bed, he'll certainly rise with a watery head.

When black snails cross your path, black clouds much moisture hath. When rooks fly sporting high in air, it shows that windy storms are near.

When the peacock loudly bawls, soon we'll have both rain and squalls.

The Shepherd's Warning.

If at sun-rising or setting the clouds appear of a lurid red colour, extending nearly up to the zenith, it is a sure sign of storms and gales of wind.

When you see gossamer flying, be sure the air is drying. If the fog lies close to the surface of the ground until it is gradually dissipated by the sun, the day will be bright and fine.

Keep the flies from your food by using Wire Dish Covers, selling at lowest prices. See our window. BOWLING BROS., LTD., Hardware Department.—July 24, 1923.

KILL THE FLY!

The most practical and useful instrument and liquid SAN-O-SPRAY now on the market.

ELLIS & CO., Limited.
203 WATER STREET.

SAN-O-SPRAY will knock flies off the wall, and not harm paint or paper. Will keep the Kitchen, Bedroom or Verandah clear of Flies, Mosquitoes, etc., for several hours after a few sprays.

NO INSECT CAN LIVE

where SAN-O-SPRAY is used. Yet SAN-O-SPRAY is non-poisonous to human beings and can be used with perfect safety in Pantry, Kitchen, Dining Room and Cellar.

In addition, SAN-O-SPRAY is a disinfectant and germicide.

Keeps the home sanitary and free from infectious diseases. SAN-O-SPRAY.

ELLIS & CO.'Y.
Limited.
203 WATER STREET.
June 25, 1923.

Our Montreal Letter.

(From Our Own Correspondent.)
WHERE CARE WAS NOT EXERCISED.

The automobile, which since its introduction, has been instrumental in destroying more human lives than any other means of conveyance at present in existence, especially from careless and reckless drivers, has added a couple of more ways of causing disaster. A few days ago a party of six boys from an American camp at Isle Lamothé, in Vermont, came to Montreal in their automobile under the care of four Marie Brothers who are in charge of the camp. Everything went well until they were returning. About ten or twelve miles outside the city the chauffeur of the first autobus perceived his supply of gasoline was running short. He stopped at a garage and while getting the tank filled, the gasoline overflowed, ignited on the muffler and then disastrous results followed. The autobus became a mass of flames and a scramble for safety began. Brothers Henry, Gabriel and Andrew Michael who were seated on the driver's seat had a narrow escape from death. Brother Henry, owing to several obstacles being in his way could not jump to safety before his face, chest and arms were terribly burned. Brother Andrew had a better chance of escape, but not before he had his face and hands burned. The chauffeur, who was holding the hose filling the tank at the time, had his hands severely burned. Three of the boys in the autobus were also burned, but their injuries were attended to by a local doctor. The two Brothers and the chauffeur were rushed to the Hotel Dieu Hospital here. A New York paper under the heading of "Playing With Steam," has the following:—

The steam boiler, in some form, is so familiar an object that people too largely ignore its really formidable character. Perhaps, too, it has fallen in popular estimation because of the substitution of the gasoline engine or the electric dynamo for it in a multitude of cases. Few people look upon it as potentially one of the most deadly devices of our industrial civilization—until some fatal disaster reminds them of its power for destruction as well as for service.

The extraordinary tragedy on a highway near Nyack is a case in point. A steam engine, used in road repair work, had been left idle for the night, with a considerable pressure of steam still in the boiler. A passing automobile skidded against it and broke a pipe, which permitted the escape of the steam, with the result that six persons were scalded to death and two more may yet succumb to their injuries.

Censure has not yet been definitely placed. Perhaps it never can be. It may have been negligent to leave the engine with its boiler so heavily charged. It may also have been negligent for the driver of the automobile to venture upon a road which, if not actually closed against travel, was known by him to be undergoing repairs and to be traversed at the risk of the traveller. Whether the collision was the result of careless driving or was unavoidable does not appear.

What is certain is that steam boilers, whether on the highway or in the kitchen or elsewhere, should be treated with the utmost care and prudence as potentially comparable in destructiveness to packages of dynamite. The steam roller used to be dreaded chiefly for its power to frighten horses. It is much more to be feared as an object of motor car collision.

BIG SURPLUS FROM LIQUOR.

A recent issue of the Quebec Official Gazette shows the liquor revenue as follows: Ordinary receipts, \$21,524,641; expenditures, \$20,190,275; making a surplus of \$1,544,366 for the fiscal year ending June 30, 1923.

Receipts from the operation of the Quebec Liquor Act amounted to \$4,581,052, of which \$3,900,000 was made account and \$1,581,052 license from taverns, shops and restaurants, and including a five per cent. tax on brewery output.

The government revenue from the Act for the fiscal year ending June 30, 1922, was \$4,862,746, giving an increase of \$118,206 for 1923. The trade account, however, this year shows an increase of \$139,890, and the license account an increase of \$78,316.

THE CANADIAN TREASURY BEING DECEASED.

The Customs Department is after tobacco and cigarette smugglers bringing into Canada from the United States by means of which from \$60,000 to \$100,000 is being defrauded from the Canadian Treasury annually, as well as the proceeds of the Sales tax. The most of the smuggling is done by motor car and motor cycle. If the person admits having cigarettes he simply has to pay duty.

If, however, he declares he has nothing dutiable and examination shows that he has cigarettes or other tobacco in his baggage, he is condemned to pay double duty, plus the six per cent. sales tax, or have the tobacco confiscated.

IS IT SUPERSTITION?

Many people are superstitious in reference to certain things. While assisting at a cricket match at the McGill Campus lately I was seated near a colored gentleman, a member of the West Indian Cricket Club. As the day was rather hot, especially for the players exposed to the sun and continually on the move, now and then the players would take a glass of water (not two per cent. beer). One of the McGill team, Godsell, a fine

University of King's College

Associated with DALHOUSIE UNIVERSITY, Halifax, N.S.

King's College will remove at once to Halifax. The forthcoming term will open on Sept. 26th. Lectures will begin on October 1st.

The Residential System for both men and women students, which has been the feature of the College at Windsor, will be maintained under practically the same discipline and regulations.

First year Lectures will be taken entirely in King's College. Higher classes will be taken jointly with those of Dalhousie University.

The combined Faculties of Dalhousie and King's in Arts and Science, whose lectures are open to all students, constitute an exceptionally strong staff.

For all information regarding rooming, etc., apply to DR. T. S. Boyle, President, Windsor, N.S. aug 21, 1923.

THE ANNUAL BIRTH, MARRIAGE AND DEATH STATISTICS.

In 1922, in the Province of Quebec, according to the reports sent to the statisticians, 84,852 births were registered among both the Catholics and Protestants of which 78,145 among Catholics and 6,217 among non-Catholics, which gives a birthrate of 35.00 approximately, per 1,000 of population. The comparison between births registered during the five last years is as follows:

Years	Births	Per 1,000
1922	84,852	or 35.00
1921	88,749	" 37.57
1920	86,328	" 37.36
1919	80,081	" 35.04
1918	80,381	" 37.66

MARRIAGES.

In 1922, in the Province of Quebec there were 15,945 marriages, 13,239 among Catholics and 2,606 among non-Catholics, according to the acts of civil status sent by the Parish priests and Protestant ministers to the prothonotaries of the Superior Court of the Province. This figure has decreased somewhat considerably as may be seen by the following statistics:

Years	Deaths	Per 1,000
1922	15,945	or 18.839
1920	21,587	1919, 21,590; 1918, 12,975.

The number of deaths registered in the Province of Quebec in 1922, was 37,566, of which 34,448 among Catholics and 3,118 among non-Catholics. The figures for the last five years regarding deaths are as follows:

Years	Deaths	Per 1,000
1922	37,566	or 15.60
1921	33,433	" 14.15
1920	40,686	" 17.51
1919	35,170	" 15.39
1918	48,902	" 21.75

WHO'S RIGHT ABOUT THE C.N.R.?

The Montreal Star is still going strong on "The Whisper of Death." It claims that "Bankruptcy, Annexation or Repudiation" must follow the Canadian National Railways, within 25 years. The Franciscan Review steps in and says that bankruptcy will be encountered within 5 years. Sir Henry Thornton says that within 3 years he'll straighten things out. "The Montreal Herald" comes out with "The Breath of Hope," in which it hands the Star some choice bouquets. Here are a few extracts:

"We have an especial faith in the Liberal Party because they are the ELECTED CHOICE of the PEOPLE. We also have faith because they are conducting the affairs of the country in an unostentatious but effective manner, and under their administration we hope to return to the halcyon days of the late Sir Wilfrid Laurier, when the workman's pail was full, we were not so tax-ridden as to-day, and when freer trade was the accepted and sought-for aim of the Government."

"Of course, 'All is not Gold that Glitters,' but we have great faith in our Country and in our Government, not because of the statistical review of an expert statistician nor because of the Star's unspeakable illogical crusade into the realms of yellow journalism, but partly because we believe in a little news item that appeared inconspicuously on the back page of the Montreal Daily Star, a little item culled from the Mother of Parliaments, the Parliament of Great Britain—God Bless Her—which, in spite of the articles that often appear on the front page of the Star, makes us dead to 'The Whisper of Death' and cling to our original faith that there is no terrible fear of our 'Bankruptcy, Annexation or Repudiation,' but that above all there is for our own glorious future THE BREATH OF HOPE."

From the back page of the Montreal Star:

CANADA'S PUBLIC DEBT IS THE LOWEST—All Other Dominions Burdened With Heavier Rate Per Head—N. ZEALAND WORST.—Australia, Second, S. Africa third—Basis of Europeans.

LONDON, August 3.—(Canadian Press Cable).—Capt. Douglas H. Hacking, Conservative member for Chorley, replying in the House of Commons yesterday to a question, stated that according to the latest particulars available, the public debt of Canada on January 1, 1922, was \$2,336,861,000, equal to a rate per head of the European population of \$293.96. Corresponding figures for Australia on June 30th last, Capt. Hacking stated, were \$235,371,000, or \$59 per head of the European population. New Zealand's debt was \$208,241,000, or \$166 per head of the European population, on March 31, 1922. South Africa's debt on March 31, 1922, was \$180,209,000, or \$118 per head of the European population.

Who's right? The answer is: Wait and See, as time and facts alone will tell all about it.

OF INTEREST TO TOURISTS.

CASH'S TOBACCO STORE IS NOW READY FOR THE TOURIST TRADE.

The man from England or the United States or any other country when visiting our City, will find his favorite brand of Cigars, Cigarettes, Tobacco and other Requisites at Our Store.

We also carry a full line of Picture Postcards and Books of views of Newfoundland.

Our Soda Water Fountain is now in full swing. Our Ice Cold Coca Cola and other syrups are pronounced by all to be the very best in the City.

A good smoke—a cool drink and a visit to our beautiful Bowling Park will linger in your memory for many years.

Cash's Tobacco Store,
June 15, eod, ft Water Street.

Fads and Fashions.

The bustle suggestion seems to be gaining favor.

Some charming hats of velour are embroidered in chenille.

Gay little bowers of straw trim a small hat of black velour.

The deep warm grays and brown shades will hold good for fall suits.

Bright colors are noted in the velvet and suede hats for fall.

Many of the fall hats are draped with charming veils with deep borders.

Pictou Academy

PICTOU, N.S.
Founded 1816.

A Residential School for Boys. Beautiful situation, healthful surroundings, careful supervision of studies and games. Academic and Commercial branches, music, etc.

A Staff of experienced instructors, all university graduates. Dean of the Boys' Residence is nominated by representatives of the Presbyterian Synod of the Maritime Provinces.

Term opens Sept. 4. Fees moderate.

For particulars apply to C. L. MOORE, M.A., F.R.S.C., Principal.

batman who was doing good work at the wicket, was particularly dry at times. The West Indian had his eye on the drinking habit, but kept his thoughts to himself until the expected happened. Godsell at an interval came to the side and had a draught of water. On resuming play, the first ball bowled took Godsell's wicket. Then our colored friend said: "There, I knew that was going to happen. He had no business drinking during play. People think that it's superstitious, but I don't. In every case I have seen the same thing happen." In the afternoon a similar thing took place when the Torontoes were at bat, the drinking habit was prevalent and away went four wickets in quick time. So our colored friend's opinion was all to the good.

AND STILL THEY CAN GET IT.

A local paper says: One morning last week a nineteen-year-old boy appeared in police court after being discovered drinking drunk at the wheel of an automobile. His companion, a cripple, was in a similar state. Both were sent to jail, where the youth's father was serving his second term within a month for drunkenness. On the same morning three other motorists were fined and imprisoned for being intoxicated while driving, and twenty-two common drunks were fined. Well, asks the ardent uplifter, what can you expect in drink-cursed Montreal? To which the reply is that it didn't happen in Montreal, but in the bone-dry city of Buffalo, in the prohibition-blessed United States.

R. J. LOUIS SUDDHY.

Real Homemade Cake in great variety at the Blue Puttee. Nut or Raisin Cake, Layer Cakes, and Shortcake with Whipped Cream. Delicious with Hot Chocolate, Coffee or Tea.—au25,tt

Light For Everyone

It is possible to enjoy the pleasures of electric light in your home even if electricity is not available from the lines of a central station, for Westinghouse Light and Power Plant can be installed in your own home, and thus make you independent of any outside source of supply.

The Westinghouse Light and Power Plant is easy to operate and economical to install and maintain. With it your home may be lighted and you may enjoy the advantages of most electric appliances. Will you not ask us to tell you more about this wonderful plant?

WM. HEAP & CO., Ltd.
Distributors for Newfoundland

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THREE FOOTWEAR

EASE. ELEGANCE. ECONOMY.

The Ladies' Favorite?

Certainly---Because its always fashionable, always in good taste, always comfortable, always possible to get in the correct size with no delay, and lastly--its always Moderately priced.

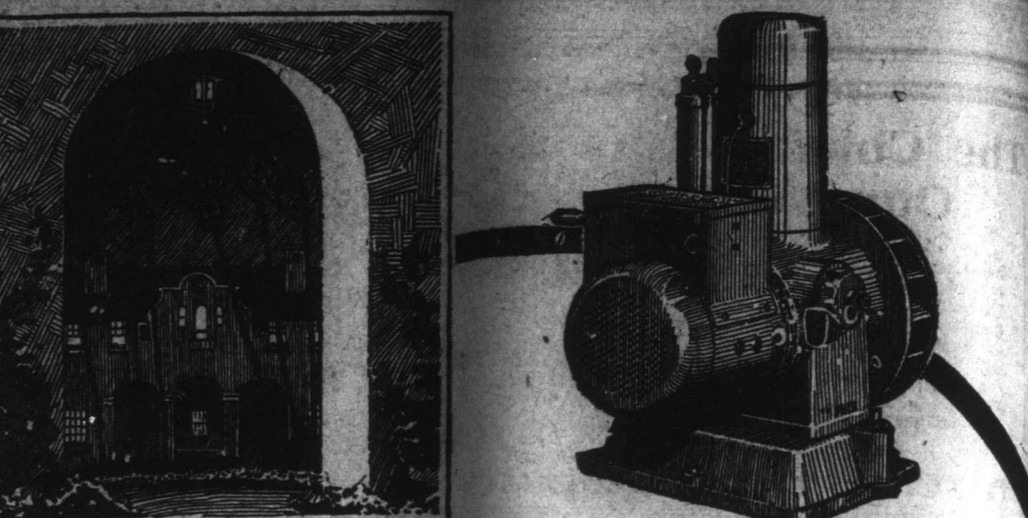
Wear Three E. E.'s. Footwear

Made by Archibald Bros. Harbor Grace

PHONE 1200

For our low price on 100 barrels of Morris & Co.'s splendid SPARE RIBS in half sheets, nice and bright and red as usual.

Harvey & Co., Ltd.



Light For Everyone

It is possible to enjoy the pleasures of electric light in your home even if electricity is not available from the lines of a central station, for Westinghouse Light and Power Plant can be installed in your own home, and thus make you independent of any outside source of supply.

The Westinghouse Light and Power Plant is easy to operate and economical to install and maintain. With it your home may be lighted and you may enjoy the advantages of most electric appliances. Will you not ask us to tell you more about this wonderful plant?

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