

RADIO TALK

A SURVEY OF THE FIELD OF RADIO COMMUNICATION

The transmission of signals by means of unguided electric waves was introduced in 1894 by Guglielmo Marconi. Three years later signals were successfully transmitted without wires between Dover, England and Boulogne, France—a distance of thirty-two miles. Rapid strides have been made since that time until today, it is entirely practicable to establish communication between New York and Honolulu, Paris, Tokyo, and any place on the earth which is inhabited and equipped with the proper instruments without the use of wires between the points.

At first the efforts of scientists were confined to signaling by means of the dot and dash method, but gradually progress was made in the science which enabled people to talk with each other the same as they could on an ordinary telephone. In fact, one thing has been accomplished by means of the radio telephone which finds no counterpart in wire telephony, namely, the human voice has been heard around the world, the

Crystal Detector And How to Use It

This article is not so much for the benefit of those amateurs who have been using crystal detectors for years as for those who have suddenly found themselves desirous of hearing the broadcast at a minimum of expense.

Instructions for the use of simple and the receivers are often lacking in detail in regard to use of the detector.

First, when buying the galena (lead sulphide) it is well worth the extra expense to buy a mounted tested crystal.

Second, do not under any circumstances touch the surface of the galena; handle the lead mounting, there is always a certain amount of natural oil on the fingers which will coat the crystal and on account of its insulating properties spoil its sensitiveness.

If the crystal has been handled and lost its sensitiveness, buy half an ounce of carbo disulfide and wash the crystal with it, using a small soft brush as comes in "school paints." A bit of rag on the end of a match will serve. If carbon disulfide is unavailable, commercial chloroform or ether will serve almost as well.

Third, tested galena requires only the highest pressure on the whisker. One strand from flexible electric light cord works beautifully; No. 30 copper or brass wire.

Now about the buzzer test; an ordinary buzzer will work, but it is more noticeable if the armature spring and armature are wedged with pieces of a soft eraser. When properly done, the buzzer will give a tone which is easily distinguished in the phones. The placing of the rubber must be by experiment, usually under contact of the buzzer and the magnets on the ground of the set; only one connection is necessary. To test the crystal with the buzzer set in operation, respond to the buzzer with the whisker, find the spot which gives the loudest response, then "tune" to the broadcast. The sensitive spot on the crystal is of microscopic dimensions, hence great care is necessary in this particular.

RADIO—A PERMANENT UTILITY

Probably no scientific development ever took such a hold on the public as radio has. In the past ten months the number of stations which have been installed has increased by leaps and bounds until now the only thing which limits the number seems to be the inability to obtain the required apparatus and material.

The Government radio inspectors are flooded with applications for licenses for transmitting stations and receiving stations which, of course, require no license, are growing like mushrooms. The supply houses can not get the material inside their doors fast enough. As an example, one of our contributors told me that last week he secured around to fifteen large supply houses, whose service has heretofore been all that one could desire and was compelled to be satisfied with forty per cent of the material he wanted to purchase. One manufacturer who concentrates on two items, one of which is vacuum tube sockets, informed me yesterday that the machines in which these sockets are moulded have not been cooled at any time in the last forty-five days, and that even with the enormous output which his plant has, his service department is swamped with telegrams and mail from distributing houses, begging him for supplies.

The practical application of radio is just beginning to be utilized. The farmer no longer has to wait for the next morning's paper to see how the produce market is going. After the "chores" are cleared up for the day, all he has to do is step to a corner of the house, put on a pair of head receivers turn a switch and get the latest selling and bid prices for live stock, grain and other commodities. No longer is it necessary for a public speaker to travel from town to town.

Summer Radio Slump To Precede Greater Interest In Fall

Look for a drop in radio enthusiasm during the summer. Then a recurrence of interest in fall, even greater than ever.

That's the prediction of radio engineers and officials who are following the radio situation keenly.

The loss of interest in radio during summer will be due mainly to two causes: heat and static.

Heat will drive radio fans out of their attics. Outdoor sports will break into the interest in wireless.

But even those who will insist on

ARE YOU INTERESTED IN RADIO?

While the inductive interference in St. John caused by the issue of high tension wires is an annoyance in many sections of the City, residents in out-of-town districts enjoy the very best conditions for the satisfactory operation of radio receiving sets. For suburban homes, and in towns and villages where it is possible to secure an aerial location at some distance from high powered wires, the very best results are obtained. With the receiving set which we are now distributing the enthusiasts may sit at home and listen to the beautiful concert programmes given each evening from the principal broadcasting stations in the Eastern States. After the first investment there is no outlay for these receiving sets other than the cost of re-charging the storage battery about once a month. And until such time as local broadcasting stations are established, this outfit is the only efficient one on the market that will give satisfaction. Write for information and particulars.

H. V. MACKINNON,
Secretary Commercial Club,
Box 203, St. John.

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Ready May 25th

Five Different Sets ranging from a practical crystal detector set to a high quality loud-speaker of exceptional merit.

FULL LINE of Radio accessories and parts, including rheostats, couplers, etc.

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GREAT INDUSTRIAL MERGER FORCAST

Represents Capital of Over \$8,000,000—Deal to Be Consummated This Month.

Port, Arthur, Ont., May 19.—The Port Arthur Shipbuilding Company is to be included in what is believed to be one of the biggest industrial mergers since the formation of the British Empire Steel Corporation, it is learned today.

The merger represents a total capital of over \$8,000,000 and takes in three of the largest steamship companies on the Great Lakes, including the two shipbuilding plants, an elevator and coal dock.

The companies included are the Playfair interests, the Glen Transportation Company, Great Lakes Steamship Company, Midland Elevator, Midland Coal docks, Midland Shipbuilding Company and the Port Arthur Shipbuilding Company.

Negotiations have been under way for several weeks and the deal is expected to be consummated before the end of the present month.

Some women attract attention simply because they make no effort to attract it.

Communist Party Has Monopoly On Legality

No New Political Parties Can Be Legalized for a Term of Years.

Moscow, April 24.—(By Mail).—No new political parties can be legalized in Russia for a number of years and the Communist party must continue to keep its ranks closed except to those strictly sympathetic to the dictatorship of the proletariat, G. E. Zinovieff told the last session of the All-Russian Communist Party Congress.

Zinovieff is head of the Third International, president of the Petrograd Provincial Soviet, one of Premier Lenin's closest friends and the author of Lenin's biography. He is a fiery, revolutionary crusader and in the Soviet regime virtually has been dictator of Petrograd.

"Our party has the monopoly of legality," he said. "The danger of this monopoly is that a number of people are getting into the party who would go into the petty bourgeois parties if such existed."

"They are not coming into the party with bad intentions, and are honest enough, but bring in bourgeois views. They are an active part of the population who like to participate in the economic and political life of the country. We shall surely be the monopolists of the legality of any party in this country for a number of years to come."

Mr. Zinovieff said it would be difficult to clear out this element of the party but, as the labor class must "do it" the bourgeoisie, the party's difficulties, no matter how great, in restoring Russia, should not permit any unripe measures that would lead to the restoration of the Menshevik, or other bourgeois.

More serious attention must also be paid to the press, Mr. Zinovieff declared as the bourgeoisie writers are trying to get an independent press and even journalists registered as employees of the newspapers now permitted to operate (all government controlled) are mostly of the old intelligentsia class.

LOCKOUT OF COTTON WORKERS AVERTED

Striking Workers at Royton and Middleton Returned to Their Duties.

Manchester, England, May 19.—The threatened lockout of operatives in the cotton spinning trade, to the number of 140,000, has been averted, it was announced today. The dispute was over the workers at Royton and Middleton, in the Old Hill district, who were on strike against a new wage cut, the Master Cotton Spinners' Federation deciding to lock out the other workers unless the strikers returned. Today announcement was made that the strike had been settled, and that the men resume work Monday.

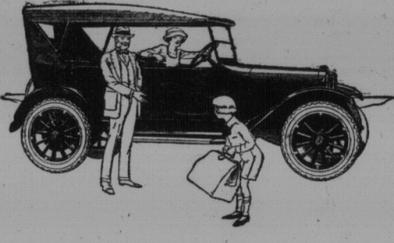
Filtration is the froth on top of the wine of love.

Dye Old Wrap, Skirt, Sweater, Curtains In Diamond Dyes

Each package of "Diamond Dyes" contains directions so simple any woman can dye or tint her old worn, faded things new. Even if she has never dyed before, she can put a rich, fadeless color into shabby skirts, dresses, waists, coats, stockings, sweaters, coverings, draperies, hangings, everything! Buy Diamond Dyes—no other kind—then perfect home dyeing is guaranteed. Just tell your druggist whether the material you wish to dye is wool or silk, or whether it is linen, cotton, or mixed goods. Diamond Dyes never streak, spot, fade or run.

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THE FIRST McLAUGHLIN-BUICKS

built fourteen years ago were accepted then as the standard of value in motor cars of that day.

Each succeeding McLaughlin-Buick model has done its share in maintaining this reputation.

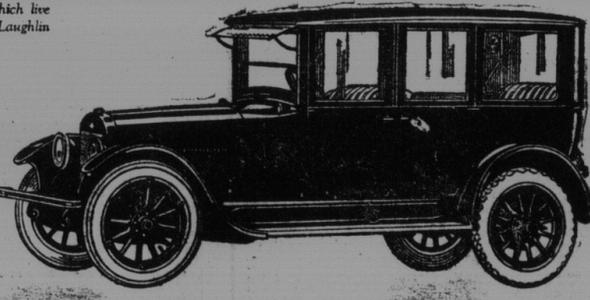
McLaughlin-Buick progress has been steady, consistent, sure—not spasmodic, up one year and down the next. Each year has shown sure improvement over preceding years—no unproven, freakish or extreme innovations have been tried. Changes in construction, equipment or finish have been tried, tested and proven before being made a part of standard models.

The 1922 McLaughlin-Buick Models mark one more step forward in this steady progress towards perfection. More firmly still are these Canadian built cars established in their position as "Canada's Standard Car."

McLaughlin Motor Cars are built—not merely assembled—in Canada. Ask about the G.M.A.C. Purchase Plan which provides for deferred payments. **McLAUGHLIN MOTOR CAR CO., Limited** Subsidiary of General Motors of Canada, Limited OSHAWA, ONT.

ST. JOHN BRANCH HOUSE 140-144 UNION STREET

Pride of the First McLaughlin Factory
In the Ennisville Plant where McLaughlin vehicles were first made in 1879. Ideals of Quality were born, which live to-day in the mammoth McLaughlin institution.



BETTER CARS ARE BEING BUILT—AND McLAUGHLIN IS BUILDING THEM

McLAUGHLIN-BUICK

tinkering with their receiving sets in spite of the weather, will find static an obstruction as great as and sometimes greater than the heat.

Worst interference.

Static does its worst during summer. At times it becomes so bad that it endangers the construction of the telephone receivers.

Combination of both these obstructions wireless practically all year round, makes the earth where radio is impossible. A powerful set which in the temperate zones can send and receive signals to 500 and even 750 miles distant, could hardly be used as close as ten miles away near the equator.

While heat and static will keep the radio fan from his set during summer, engineers and officials of the large radio perfecting the instruments in preparation of greater interest in the science next fall.

Broadcasting System.

Already plans are under way for a nation-wide system of broadcasting stations by which concerts and other forms of entertainment will be sent out by radio under the control of a central station.

The American Telephone & Telegraph Company in connection with the Radio Corporation of America and other large radio firms, will be the leader in this enterprise. Although nothing definite has been said about such plans, it is understood work is progressing toward the development of a national broadcasting system under control of these concerns.

In fact, an officer of one of these concerns has predicted the use of such a system in connection with the wired telephone lines over the country. With the immense central station now being erected on Long Island, New York, as main source, concerts and other programmes will be sent over the wired lines to the twenty or more substations scattered about the country, from which they could be broadcast locally.

BATTERY—A high-voltage battery, usually dry, giving 15 to 22½ volts current. It is used to furnish current to the plate in the detector and amplifier.

FORD RUNS 57 MILES ON GALLON OF GASOLINE.

A new automatic Vaporizer and De-carbonizer, which in actual test has increased the power and mileage of Fords from 35 to 50 per cent, and at the same time removed every particle of carbon from the cylinders, is the proud achievement of John A. Brennan, 305 South Main Street, Pukwana, South Dakota. A remarkable feature of this simple and inexpensive device is that its action is governed entirely by the motor. It is slipped between the carburetor and intake manifold and can be installed by anyone in five minutes without drilling or tapping. With it attached, Ford cars have made from 40 to 57 miles on one gallon of gasoline. Mr. Brennan wants to place a few of these devices on trees in this territory and has a very liberal offer to \$400 to anyone who is able to handle the business which is sure to be created wherever this simple device is demonstrated. If you want to try one on your car, or if you want to see how it works, send him your name and address today.

CHEATING THE BOSS.

"As the Youngwolds are going to spend the winter in the 'back' after cooking, I understand, she entered the dining room one day and found him feeding the dog with one of the 'bosky' stew. He made a dash for the door, but she was quick to give up a dog biscuit in exchange."—Boston Transcript.