

THE EVENING TIMES AND STAR, ST. JOHN, N. B., WEDNESDAY, JULY 26, 1922

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THE HEALTH CENTRE.

As a result of the meeting of representatives of influential organizations yesterday the Health Centre for St. John Gazette. One reads with much interest the following announcement in the Montreal Board of Trade, which has been inaugurated as one means of marking the centenary of that institution, and which also is regarded as an important contribution to the interests of the Dominion and the Empire by helping to bring East and West together. In this connection an opportunity is being offered to members of the British Parliament to join the tour, and it is confidently anticipated that between twenty and thirty will avail themselves of this means of receiving information of Canada at first hand. The success of the undertaking is now assured and the tour promises to prove one of the most important journeys undertaken in the Dominion.

The maritime province reader of this centre is needed where public health nurses may be trained, as they cannot be got from other provinces or the States, and the need is urgent and will steadily become greater. Hon. Dr. Roberts made very clear the saving in overhead expense, the reduction of ever-lapping and the increased efficiency in service which would result from having one Health Centre. Hon. J. G. Forbes pointed out no less clearly that all preventive work, an economic saving as well as a saving in health. There is no sound argument against this proposal. It will be a very great community benefit, and will benefit the whole province through its training of public health nurses. The needs of the Health Centre, the Victorian Order and the Society for the Prevention of Tuberculosis may all be met at the same time by a combined appeal to the people. A decision had to be made before the first of August or wait another year. The citizens would not desire to wait another year.

THE COAL SITUATION.

The city council may have to add to its other duties that of considering what we are going to do for coal next winter. The outlook is uncertain. There is today an actual scarcity of coal in portions of the United States. Added to the falling off in production due to the miners' strike there is the inability of railways to deliver all that is available. That condition may become worse. Already industries are going on short time, trap service is being reduced and the great steel industry is threatened with a tie-up. There is a fear of trouble in the mines of Nova Scotia. Quantities of Welsh coal are coming to the United States and to the St. Lawrence, but already the price of Welsh coal has gone up. Of course there is no immediate danger of a local shortage, but what will the winter conditions be if the strike continues? That is what our people must think about, and the city council will not look about to discover means of coping with a serious situation if it should develop. If the miners are determined to go the length of crippling industry, and the railroad trouble should continue and seriously affect transportation, the chances of getting an ample supply of anthracite coal would be greatly jeopardized so far as a supply for Canada is concerned. There is no immediate cause for alarm, but good reason to be on the alert and ready to meet an emergency which may arise.

THE VOCATIONAL SCHOOL.

The vocational committee has taken prompt action on the Rutherford report. It has approved the report and its recommendations which will go to the provincial board, whose approval is assured, as it is only too willing to lend assistance and enable the province to get its full quota of the federal grant for vocational training. It is announced that a conference of the city commissioners, the county, Ontario, a graduate of the Ontario Agricultural College, former Professor of Field Husbandry in the University of Saskatchewan, and now President of the Manitoba Agricultural College, will be held to consider the matter of proceeding with the work of providing a vocational school. There should be little delay in selecting a site and getting on with the work. The sooner the new building is ready and the pre-vocational and vocational courses provided the greater will be the gain to the educational interests of St. John. Any citizens who may not be fully convinced of the need of action will have all doubts removed when they study the charts and figures in the Rutherford report. The provincial vocational board rendered the St. John good service when it brought the expert from Ontario to make a survey and put the results in clear form for all to see. We are at last to do something practical for the great majority of school children, who do not go into the professions but into industry and commerce, and for whose training along practical lines there has hitherto been no adequate provision in the schools of St. John.

Forest fires in Canada already this year have destroyed enough lumber, it is estimated, to build 100,000 homes. The loss is absolute. It can never be repaid, at all eager as yet to do more than have And yet people go carelessly about setting new fires. It is criminal folly.

FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis

Formerly Technical Electrical Expert For U. S. Government

Lesson No. 61.

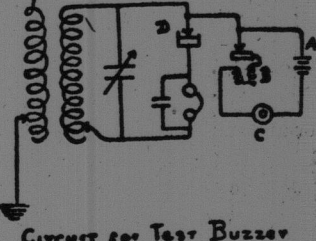
ADJUSTMENT OF THE CRYSTAL DETECTOR.

Certain types of minerals, such as galena, silicon or carborundum possess the valuable property of rectification. One of these crystals used as a detector and properly connected in a receiving circuit rectifies the high frequency oscillations, intercepted by the antenna, into pulsating direct currents. These pulsations are then converted into audible sounds through vibration of the diaphragms in the receiving telephones.

Crystals are usually mounted in a metal cup and held firmly in place by being surrounded with a metal having a low fusing point. This cup forms one terminal of the detector, the other terminal being, by the majority of cases, a pointed contact so adjustable as to be moved over the surface of the crystal until a sensitive spot is located which produces maximum audibility in the Zincke Bronte type of detector.

The value of a crystal detector rests in its property of sensitiveness to the incoming oscillations and its ability to stay in adjustment. Some crystals, of which galena is an example, although highly sensitive, are difficult to retain in adjustment due to the fact that contact is maintained by the slight pressure of a delicate wire on the surface of the crystal. Other crystals may be less sensitive but are more stable in adjustment as they require the firm pressure of a sharp point for maximum effect, when used as a detector, necessitates comparatively heavy pressure at the point of contact.

The sensitive spot on a crystal for properly receiving the incoming signals can only be located by experiment, which consists of moving the contact point over the surface of the crystal until maximum signals are obtained. By the use of a test buzzer a detector consisting of galena used in conjunction with a delicate wire, may be maintained in adjustment whether or not signals are being radiated from a transmitting station. A simple circuit for a form of test buzzer is shown in the accompanying diagram.



A small high frequency buzzer (B) is connected in series with two dry batteries (A) and a push button (C). A wire is connected from the contact side of the buzzer to the terminal of the detector (D) which supports the fine wire compact as shown in the diagram. Pressing the button operates the buzzer and the fine wire contact may be moved over the crystal until the maximum sound is heard in the receiving telephones. With this location of the contact point the crystal is in adjustment for the incoming signals.

RADIO BROADCASTING AT ARLINGTON.

Recent additions to the naval wireless station at Radio, (Va.), (Arlington) will soon provide facilities for a regular broadcasting service on a wavelength of 2650 meters. Arlington is well known as the source of radio time signals, and for some time amateurs have been hearing test calls by voices from this station to New Orleans, Norfolk Harbor and Norfolk.

With a proposed range of approximately 1,500 miles this station will enable the president and other government officials to transmit messages and speeches to all parts of the Eastern and Middle Western States.

BROADCASTING MOVING PICTURES.

The broadcasting of moving pictures by radio in a similar manner to the present method of broadcasting music and lectures, is promised in the near future, for public entertainment.

Sending pictures by radio between America and Europe has already been accomplished in the past year. These however were "still" photographs and the length of time required in transmission is too great to allow the reproduction of moving pictures by the same method.

It is reported that instantaneous transmission of photograph has been accomplished by the use of a metallic substance known as selenium. This substance exhibits the important property of changing from a non-conductor to a good conductor of electricity depending on whether it is placed in the dark or is exposed to rays of light.

This process of changing from an insulator to a conductor takes place within the interval of a minute and it may be further developed so as to transmit pictures in a minute fraction of a second.

Successful development of this form of broadcasting would permit of centrally located theatres supplying large communities with a combination of moving pictures and the necessary accompaniment of music or speech.

A WOMAN I KNEW.

I mind me of a woman that I knew,
A shadow-woman, pale and drab,
And so, as it passed had moved her not
at all.

The caravan of Life had passed her by,
And as it passed had moved her not
at all.

She moved among us almost as a ghost
Who did but peer in, through a pane,
Its melody and madness moved her not—
She had no place, not even in its strife.

Too quietly she went for Youth and Love,
Too soberly to feel Adventure's stir:
Death could not touch her whom Life
had ignored.

We spoke one day about the bitter grief
That bowed another woman—of the dead
Whom she so wildly missed, so madly
mourned.

"I envy her," the pale drab woman said.
—Roselle Merck Montgomery in the
New York Times.

LIGHTER VEIN.

Very Desirable
Miss Green—I know he's rich, but
isn't he too old to be considered
eligible?
Mrs. Wyse—My dear, he's too eligible
to be considered old.

A Tolerant Youth
"What!" said the indignant old gentleman, "you want to marry my daughter! Why, it was only a few years ago that you were caddyfing for me!"
"Yes, sir," the young man replied, "but I don't intend to let that stand in my way. I hope I have sense enough to realize that a very bad golfer may make a fairly good father-in-law."

No Expert.

Judge—"What had the defendant been drinking when you arrested him?"
Cop—"Whiskey, I think, your honor."
Judge—"You think?" You think?
Cop—"No, your honor, only a policeman."

Driven To It.

Judge—How could you be so conscienceless as to steal the watch of the doctor who had just prescribed for you?
Prisoner—Well, yer Honor, I was in a bit of a hurry. I saw his prescription read "A spoonful every hour," and I had no timepiece.—Boston Transcript.

Perfect Equality.

Father—Why is it that you are always at the bottom of the class?
Johnny—It doesn't make any difference, daddy; they teach the same things at both ends.—Western Christian Advocate (Cincinnati).

Man in the Street

It is noted that this week there was a demand at the local employment bureau for haymakers. The applicants might have been, with some success, referred by Superintendent Ryan to the ring at the armory last night.

Answers to Correspondents.

No, Clarissa; the fact that the left fender saw you home from the ball game—The outlook does not bring you within the scope of the term "fender's choice."

"If coal goes up protection ends," says headline in Toronto paper. Yes, and if it goes up any further the people of St. John will need a lot more protection from the wintry blasts than they now have.

Base takes man's cigarette for fire-ly and jumps into boat. Poor fish!

Some chap in upper Canada declares that a summer camp is a fount of pest. The last one we were at was a roving pest.

Alberta's first midsummer session of legislature convened yesterday. It should be a hot session.

"Outlook is decidedly in favor of Strike of 40,000 Canadian Railway Shopmen"—The outlook for the shopmen are the only ones in favor of it.

A sport writer suggests that the New York Yankees are slumping because they play too much golf. Before prohibition it used to be another story.

"Wild Animals I Have Known." (With apologies to Ernest Seton Thompson.)

The street car motorman on Saturday night when someone presents a \$20 bill to pay two ten cent fares.

The poor unfortunate in the dentist's chair when the drill slips.

The boss when his stenographer, who gets her mother to telephone that she is not well and won't be down.

One motorist when the other doesn't dim.

The drunk with seven dollars when the fine is eight.

The man who misses the last ferry by thirty seconds.

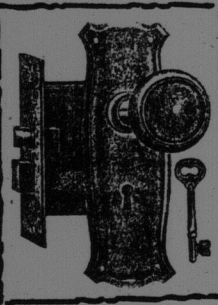
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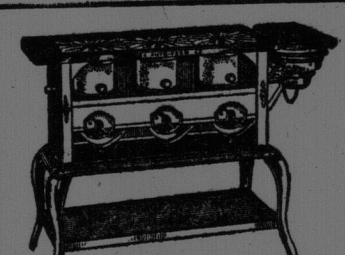
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