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# Radio Broadcasting

Seventh of a Second

the question worrying a numher of professors in Oslo since cerain mysterious ecnoes of radio waves have Been heard at unusua! intervals.

Scientists were for a time at a oss to explain how long distance radio transmission was possible since they believe radio waves travelled in straight lines and consequently left the earth at a tancomparatively short distance from

The existence of an electrica: conductive layer in the upper air to 100 miles above the earth's surface was then suggested by the late Dr. Oliver Heaviside. This layer, which came to be known as the Heaviside layer, was believed to prevent the waves from wander ing off into illimitable space and to reflect them back to earth. The theory involved the idea that it was impossible for waves to penetrate the Heaviside layer. The reception of echoes of cersent out at Hilversum, Holland, at Oslo and Eindhoven, Holland, last

March, however, put a dent in the the rate of 136,000 miles per secception of such echoes at intervals one, two or even three-sevenths a second, corresponding to the time it takes the waves to go ground the earth, one, two or ee times, is not uncommon. But the echoes of the Hilversum sigwere received at intervals of rom 3 to 15 seconds, indicating ey had travelled from 560,000 to 000,000 miles. To do this they Margot Asquith (Lady Oxford)

gested the waves may have arrived on their honeymoon at soprano. bint beyond the moon's orbit. The un is in a position to produce a litable reflecting medium in February and March and in Octo-This might explain the fact at the mysterious repetitions ere heard only in March and stations have made special prepa- exclaimed: rations to try to pick up such echoes in March of this year. should it be proved that the -- Pearsons.

lies in a direction perpendicular to KOMO PROGRAM the earth's axis as in March and October, it would explain their absence at other times. To the objection that if waves penetrate the Heaviside layer to reach a re-Around Earth in One- flecting surface beyond the moon wireless communication between Europe and Australia would be OSLO, Norway, March 5 .- (By mpossible, Prof. Stormer replies Canadian rress)-Where ra that the echoes are only produced To waves go when they leave home by a particular wave length of sufficiently great energy and dians. emitted in a particular direction.

## SWEDISH SCHOOLS ARE USING RADIO "The Harmonists."

STOCKHOLM, March 5.-Ra-Shield" Symphony with dio has invaded the Swedish Joint with KGW, Portland. schools. After a series of exhausgent, passing off into space at a live tests the Swedish board of ed-readings. ucation in connection with the the transmitting station. A the- government - owned broadcasting Program. ory that the waves were diffracted service has just announced a series of lectures to be given by earth's surface had to be aban- leading writers, pedadogues, etc., doned because it was found the to be relayed to all schools equipstrength of the signals as received ped with receiving instruments. at long distances was thousands The programs will be put on the times greater than could have air four times a week for half and been had the waves been dif- hour each and will probably be- tions. come permanent features of the national broadcasting service.

Radio Fans Had a Treat Last Male Quartet. Night and Were Able to Hear Many Points

After two weeks during which tone. tain short wave length signals the reception has been generally poor, radio fans last night enjoyed being able to get almost any station they wished. There was theory. As radio waves travel at a rather long fadeout early in the evening, but the remainder of the and they go around the earth in time good concerts could be obone-seventh of a second. The re- tained from any one of a dozen stations. Chicago came in well and practically all the coast stations were available.

Complaints were made of a steady tapping noise throughout the evening which proved rather annoying

## AND IT DID

she has ever heard:

en reflected on striking elec- Monte Carlo. Upon their first ons emitted by the sun at a night they strolled down to the Brass Band. Joint KHQ, Spobeach in the moonlight and sat kane; KGW, Portland. there gazing out over the water. Presently the man quoted: "Roll on, thou dark and deep

blue ocean, roll!" Whereupon the young bride Organ. tober. A number of wireless grasped her husband's arm and

"Oh, Richard, dear, look-how wonderful you are-it's doing it!"

# RADIO INSPECTOR

Tuesday, Marcr 5

6:00-Eveready Hour.

7:00-Clicquot Club Eskimos.

8:00—Jonsey & Mabel.

8:30-Don Amaizo. 9:00-Longines Correct Time.

9:30 — Schwabacher's

10:30-Concert Orchestra with 11:00-Radio-Keith Orpheum

12:00-News Flashes.

## Wednesday, March 6

5:00-Kiddies' Program. 5:30-Stock and bond quota-

5:45—News Flashes. 6:00-Concert Orchesara with

6:30-Palmolive Hour. 7:30-Gold Strand Program.

8:00-Roads to Romance. 8:30-Longines Correct Time.

8:30-Imperial Candy Company's "Alice in Candyland."

10:00-Little Symphony Male Quartet. 11:00-Conert Orchestra baii experimental.

y1:30-News Flashes. 11:45-Fifth Ave. Theatre Or-

## Trursday, March 7

5:00-Kiddies' Program. 5:30-Stock and bond quota-

5:45-News Flashes. 6:00 Seiberling Transcontinen-

tal Broadcast.

6:30-Spanish Orchestra with spanish soprano. 7:30-Standard Symphony hour.

8:30 Longines Correct Time. 8:30-KHQ, Spokane; Crescent must have pierced the Haviside offers this as the funniest joke Old Time Band and Singer. Joint with KGW, Portland. rof. Carl Stormer of Oslo has A young man and his bride 9:30-Novelty Trio with mezzo

10:00—Associated Oil Co.'s

11:15-Novelty Trio.

11:30-News Flashes.

## Friday, March 8

5:00-Land O' Health. 5:15-"The Harmonists." 5:30-Stock and bond quota-

5:45-News Flashes.

6:00-Wrigley Review. 6:30-Philco Hour.

7:00-Hudson-Essex Challen-

7:30-KGW Studio program. Joint KOMO, and KGW, Portland. 8:00-R.C.A. Hour.

9:00-Longines Correct Time.

9:00-"A Night in Japan."

9:30—"Evensong." 10:00-News Flashes.

10:15-Mixed Quartet. 10:30-Olympic Hotel Orches-

11:30-Mixed Quartet. 11:45-Fifth Avenue Theatre Organ Recital.

## Thomas a female Saturday, March 9

5:00-Organ recital by Lew

5:30-Marimba Orchestra with Mildred Hunt.

6:00-General Electric Pro-7:00-Lucky Strike Dance Hour. 8:00-Concert Orchestra with

mezzo soprano. 9:00-Longines Correct Time. 9:00-Puget Sound Navigation

Co. Program. 9:30-Concert Orchestra with

10:00-Puget Sound Power & Light Co.'s "Big Show."

12:00-News Flashes. 12:15-Studio Program.

# LEAVING VICTORIA

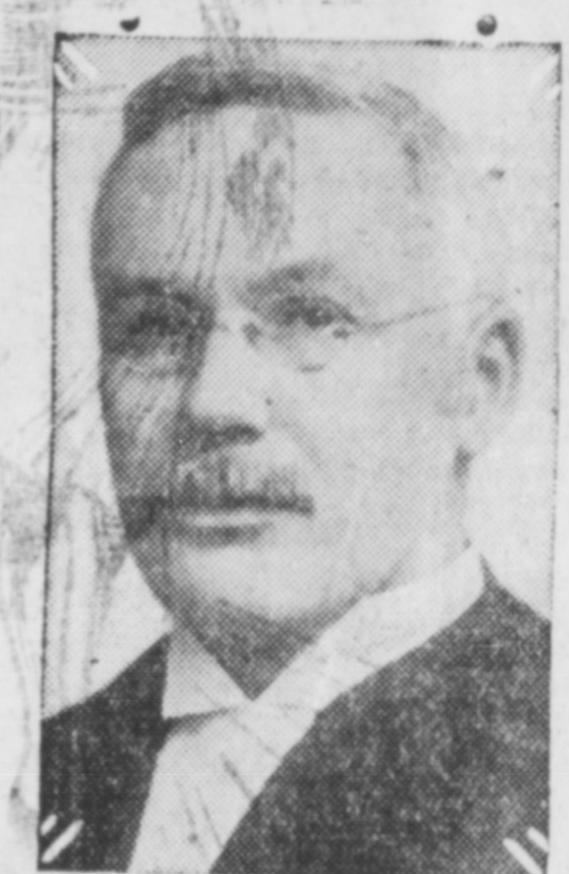
FOR PRINCE RUPERT radio department is expected to the chairmanship of Ald. Brown, leave Victoria for Prince Rupert, this year was handling relief stopping off en route. He should work more effectively and with arrive here within a week and less discrimination than at any 7:30-Fueshman Orchestra-doubtless the radio association will take him in hand and give him

the local radio interference. noying last night, might be located 9:00-Concert Orchestra with by Mr. Gray and some of the other Ald. Brown, for its endeavor to noises which interfere with good meet the situation as effectively "Gold reception may be eradicated as possible. It was pointed out, through his help.

purchased licenses.

## FEW ARE TURNING THEIR ATTENTION TO

of the local radio fans restive and received no assistance from fedinterested in short wave reception. which can be obtained during daylight and also from much longer the matter up with Indian Agent distances. The drawbacks seem Collison. to be that short wave sets are not much more difficult to tune and ainst and had only had eight 9:00-Concert Orchestra with are not as numerous or as regular turned out, however, that Mr. with people are using the short wave, until recently in the city enginwhich is at present more or less eer's office.



Judge H. A. Robson, Liberal leader in Manitoba, who, it is Guest-May I have a morsel 11:00-Alaska School Program. rumored, will enter the Bracken more chicken to finish my de-Government in a union of farmers licious salad with? and Liberals to avert the threat- Small Boy-May I have a bit 11:45-Fifth Avenue Theatre ened defeat of the Ministry over more of everything to finish my the Seven Sisters Falls revela- delicious salt with?-Teaching

Compliment Paid Ald. Brown For Manner in Which Situation is Being Met

Even Ald. Prudhomme admitted This is the day on which In- at last night's council meeting spector A. L. Gray of the federal that the Board of Works, under time in the past. There was a! general discussion of the unema chance to investigate some of ployment situation and general The tapping, which was so an-compliment was paid the public works department, particularly however, that the resources of It is also expected that Mr. the city in this regard were lim-Gray wil make it interesting for ited and it was impossible that those radio fans who have not yet distress could be completely allayed through work the city had

Joe White, a native, asked if more work could not be provided for the Indians. Members of the ouncil took the view that the In-SHORT WAVE RADIO dian Department should take the responsibility for the natives. Mr. eral government. Nevertheless, Acting Mayor Collart will take

J. W. Hefferman claimed that as reliable and constant and are he had been discriminated agalso that the broadcasting stations days work in four months. It and dependable. Several local Hefferman had not registered

Ald. Brown, chairman of the Loard of Works, stated that all the names were registered and the work given out in rotation. Work could not be obtained by men who were not registered. Relief work was amounting to about two days a week for married men and ! one day for single. Married men should be the first care of the city, Ald. Brown, declared.

Ald. Macdonald told of efforts that were being made to allay the unemployed situation and complimented Ala. Brown for his work in this connection. Ald. Collart also added to the tribute to Ald. Brown. Ald. Prudromme agreed that Ald. Brown was "making an honest to God effort" to keep the men working. Possibly, however, not everything had been brought to his attention.

## ONE WAY

## West Has Priceless Heritage



and a love of melody. Folksong is intimately linked up with handicraft, for it is to the accompaniment of folksong that the spinning wheel turns and the beautiful homespun fabrics are woven. These duplicated by the factory-made article, and the efforts of the Canadian Handicrafts' Guild to find and retain a market for the craftwork which can be done during the winter months on the farms of Western Canada is therefore well worthy of support. This Guild is preparing a handicraft exhibit in connection with the Folksong and

represent an inherent

love for beautiful things

Folkmusic Festival Saskatchewan might be termed which the Canadian Pacific is the epitome of Canada's Great organizing to be held at Regina, West. No other Province has a more | March 20-23rd, as the inauguration interesting population, for the fabric of a Saskatchewan Branch. out of which that population has The main idea of this Great West been woven contains threads of festival is to help Canadians to so many racial cultures. Of the realise the priceless heritage which eight hundred and seven thousand they possess in the traditional souls recorded in the census of 1926, melodies which have been brought

three-fourths are of British descent to this country by immigrants, and with English and Scots blood pre- in some cases have been composed dominating. Over half a million in this country by early settlers. The were born in Canada, and of these field of folkmusic is so immense that a small but notable sprinkling are only a glimpse of it can be secured of French-Canadian descent. Nine- in the four days of this particular ty-eight thousand were born in the festival, but some of the greatest British Isles. Continental Europe artists of the continent will render has added twenty-two racial strains interpretations and it promises of which the larger groups may be summarized as Slavonic (55,000), color. Poul Bai, the Danish baritone Scandinavian (20,000), Teutonic will feature in Norse music, Charles (20,000) and Romance (14,000). The Marchand in the French-Canadian aboriginal Indian population num-bers about 13,000. Each of these folksongs and almost every nation racial groups can contribute some- will be represented in handicraft thing to Canadian art and music, as in song. Above is seen a Slovak for each has its traditions of handi- weaver who will remove his pipe eraft and folksong, traditions which and sing to his handiwork.

# OLSTER RADIO

THE NEW HOME MAKER

ARE GREATEST OF ALL ENTER-TAINERS AND EDUCATORS

KEEP FAMILY AT HOME

The radio is becoming almost generally used in this northern country. Many in the homes and camps are now enjoying entertainment that even a few months ago was not thought of as in the realm of probability.

The Radio is one of the best means produced to keep the young people at the home fireside at night. It also keeps "the old man" in at night and home life is coming back.

The Radio is not only a great entertainer—it is also a great educator. Every home should have a radio, particularly in this part of the country where reception is improving, and where many forms of musical and educational programs are few and far between.

The family sit in their easy chairs near the fire and music, play or lecture comes in over the air; no effort is required to enjoy the program.

The Radio is a real service and source of enjoyment-ask any owner.

Kolster Radio is recognized as one of the best on the market. The period of rather poor reception, with some nights nothing at all on the air, has made some at all on the air, has made some received no assistance from fed-KOLSTER DEALERS

Victor

Radin BANAME



NORE resonance of tone! The famous Victor Lowboy, the season's most popular model, now equipped with Victor Electro-Dynamic Speaker, brings to radio further richness of tonesweeter treble-more booming bass!

> Of the present Victor Lowboy owners, 80 % were guided infallibly in their choice by its beautiful tone. The inclusion of the electro-dynamic speaker will see opinion even more preponderantly in favour of the Lowboy-for

the electro-dynamic speaker brings new vitality and depth to a tone which was already superlative.

80% of present owners bought Victor Radio Victor Jone! Victor Reputation! Victor Appearance!

'R B-12

Featured here is the electro-dynamically equipped Lowboy in all its unmistakable beauty of line. Specially designed for authorized Victor Radio Dealers, it is offered to you, equipped with the New Victor Radio, Victor Electro-Dynamic Speaker, seven tubes, rectitying tube, and complete plug-in cord, for only - - - \$310

Or with Regular Victor Speaker-\$285. Victor Talking Machine Company

Licensed under patents of the Radio Frequency Laboratories Inc.

VICTROLAS AND MCRae Bros.

VICTOR RADIO

Daily News' Ads. Bring Results



owboy with magnetic speaker .....\$285.00 owboy with electro-dynamic speaker ......\$310.00

A survey made of the purchasers of Victor Radio throughut Canada revealed the fact that

1 OUT OF EVEYY 5 BOUGHT VICTOR RADIO because of Victor Tone quality. -because of Victor Reputation.

-because of Victor Appearance. To these reasons we would add that if reception is to be you will get it on Victor FIRST. Also, nothing ever goes Wrong with Victoria Radio or Victor Orthophonic. Further, of the biggest selling Radio in Canada today. THERE'S A REASON.

SOLD ON EASY MONTHLY PAYMENTS