

FEBRUARY, 1949

Vol. XI-No. 2

Albert E. Yates, VE3BIJ
232 Benson Ave.,
Toronto 10, Ontario. 7/49

XTAL

for the
radio
amateur

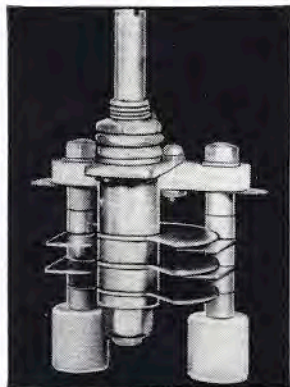


OFFICIAL JOURNAL
THE CANADIAN AMATEUR RADIO OPERATORS' ASSOCIATION
TORONTO, ONTARIO



HAMMOND

NEUTRALIZING CONDENSERS



7301—For low and medium capacity transmitting tubes. Single hole horizontal mounting or two point vertical mounting. $1\frac{1}{16}$ " long, $\frac{1}{4}$ " dia. shaft slotted for screw driver adjustment. Aluminum plates. Alsimag 196 tie bar and mounting pillars equipped with 8-32 bolts. Min. capacity 4 mmfd. Max. capacity 11.2 mmfd. Spacing 0.875 " 4200 V peak.



8602—For medium and high capacity transmitting tubes. Single hole horizontal mounting or two point vertical mounting. $\frac{7}{8}$ " long, $\frac{1}{4}$ " dia. shaft, slotted for screw driver adjustment. Rounded and polished aluminum plates. Alsimag 196 tie bars and mounting pillars equipped with 8-32 bolts. Sturdy construction. Min. capacity 7.8 mmfd. Max. capacity 21 mmfd. Spacing $.185$ " 7500 V peak.

DISTRIBUTED THROUGH LEADING JOBBERS FROM COAST TO COAST

HAMMOND MANUFACTURING COMPANY

Limited

GUELPH · ONTARIO · CANADA

Westinghouse

Special Offer SURPLUS TUBES



We are still able to offer you the following War Surplus Tubes at the very attractive price shown:

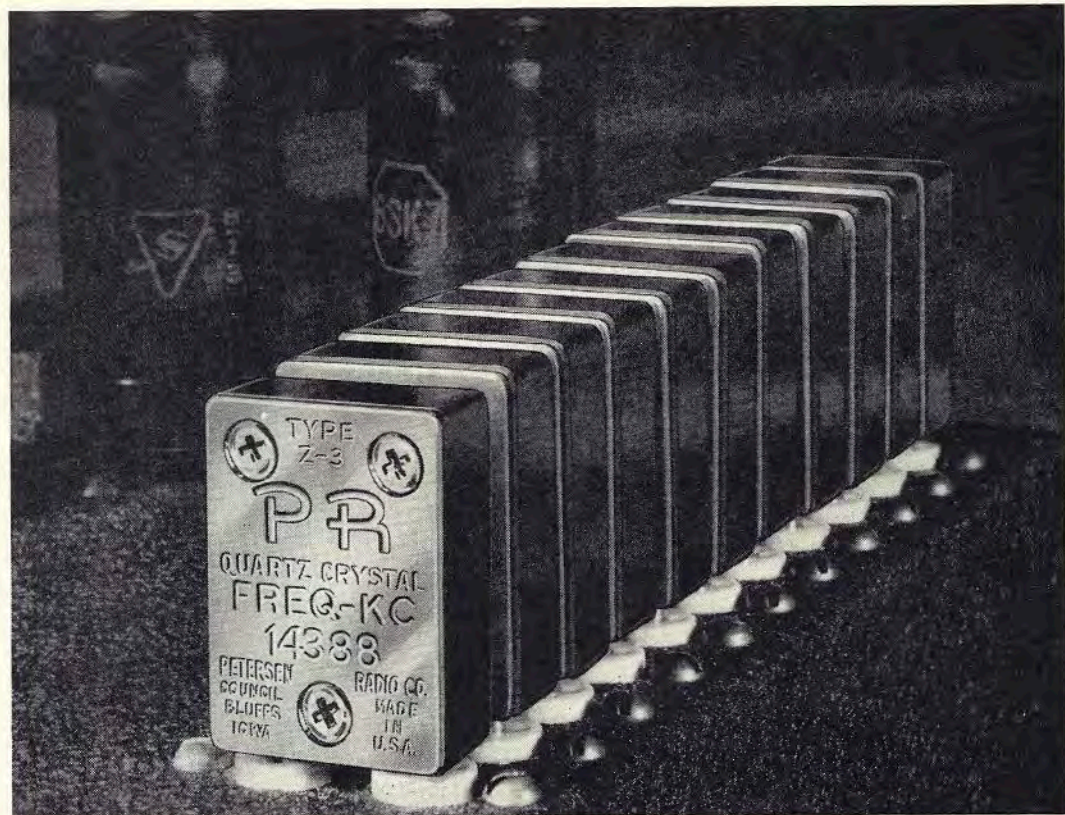
Type	Price	Type	Price
2C22/7193	\$.40	832	2.85
2V3G	1.00	837	3.00
2X2/879	.40	872A/872	3.00
3B24	.35	878A	5.00
3C23	2.00	884	.65
5API	3.00	955	.65
5BP1	3.00	956	1.00
5FP7	3.00	CK1006	.40
5GP1	3.00	E1148	.35
6AB7	.40	1291/3B7	.35
6AJ7/6AC7	.40	1299A	.35
6AC7/1852		1616	2.00
6AK7/6AG7	.40	1619	.65
6AK6	.57	1625	.40
12A6	.30	2051	.80
12DP7	4.00	8013A	3.00
FG27A	5.00	8020	3.00
EF50	.35	9004	.30
RK60	.55	9006	.30
VR105/30	.35		
VR150/30	.35		
211	5.00		
218	40.00		
304TH	12.00		
446	2.00		
801A	1.60		
803	8.00		
805	5.00		
810	5.00		
811	1.90		
813	11.00		
814	4.00		
815	2.00		
826	1.50		
832B	4.60		

Prices are subject to change or withdrawal without notice. Tubes are in condition as received from War Asset Corporation, but guaranteed operable at published ratings.

Prices include 8% Dominion Sales Tax and where applicable War Excise Tax.

Westinghouse
Radio Tubes

CANADIAN WESTINGHOUSE
COMPANY, LIMITED
Hamilton Canada



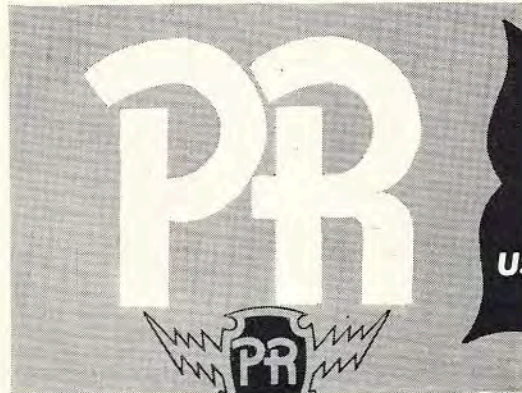
CRYSTAL CONTROLLED BUT NOT "ROCK BOUND"

Skip around as your heart desires... be a bandhopper with a vengeance... and yet retain the priceless advantages of crystal control. All you need is a half-dozen or more PRs. Multiple crystal operation is the answer to today's maddening QRM problems on phone or CW. It's most economical, too. See your jobber and select low-cost PRs from his all-frequencies stock. Be a gypsy on the band.

10 METERS, Type Z-5,

• 20 METERS, Type Z-3,

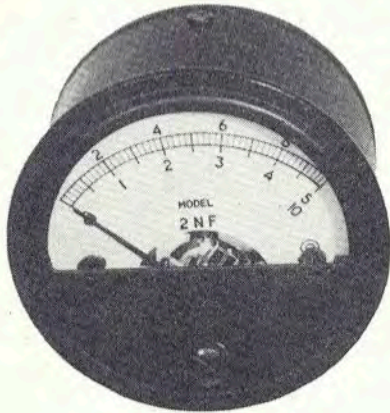
• 40 & 80 METERS, Type Z-2,



SINCE CRYSTALS 1934

**PRECISION
CRYSTALS**
USE "PR"
and KNOW where You Are!

PETERSEN RADIO COMPANY, INC., 2800 W. BROADWAY, COUNCIL BLUFFS, IOWA



2 INCH

LIMITED QUANTITY

UNIVERSAL 0-1 D. C. MILLAMETER

Only **\$3.90**

METAL CASE . . . INTERNAL RESISTANCE 100 OHMS

Dial Scale permits wide range of multiples and can be used for various milliamperes or voltage readings with proper shunt obtainable at low cost.

~~~~~  
*See Your Jobber Now!*  
~~~~~



STARK ELECTRONIC INSTRUMENTS LTD.

37 HANNA AVE.

TORONTO — ONTARIO

INCREASE your service business . . . BUILD customer confidence!

with

GENERAL ELECTRIC

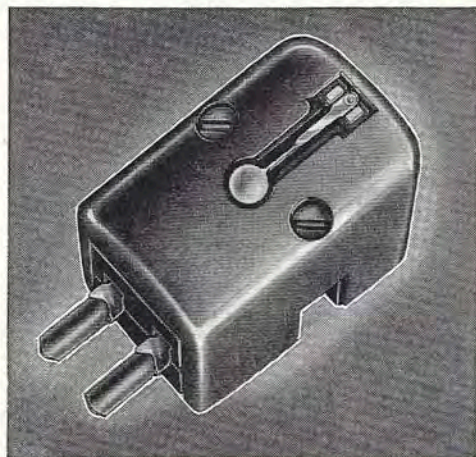
Variable Reluctance Cartridges and Speakers

By using replacement components that carry the famous G-E trademark—the faithful standby of electronic dependability—you increase customer-acceptance and safeguard your reputation for giving the best radio repair service in your locality.

To help increase repair business and build customer confidence, here are two all-new G-E products—performance engineered for customer satisfaction. They are available now from your jobber or nearest C-G-E office.

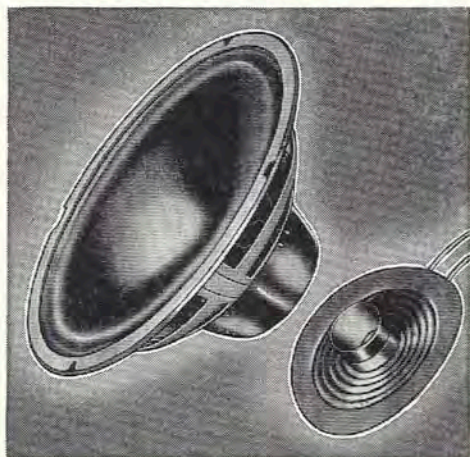
Both New!
Both Performance Tested!

VARIABLE RELUCTANCE CARTRIDGE for long-playing records



Specifically designed for the new long-playing records, the new G-E Variable Reluctance Cartridge with removable sapphire stylus can be used with standard G-E preamplifiers.

1201 SPEAKER with the famous Aluminum Foil Base Voice Coil



The G-E 1201 Speaker with the famous G-E Aluminum Foil Base Voice Coil gives unsurpassed power, sensitivity and fidelity and is designed for lasting service.

49-TU-2R

CANADIAN GENERAL ELECTRIC CO LTD

HEAD OFFICE: TORONTO . . . Sales Offices Coast to Coast



XTAL

[C R Y S T A L]

Published by

THE CANADIAN AMATEUR RADIO OPERATORS' ASSOCIATION

46 ST. GEORGE ST., TORONTO 5, ONTARIO

TEL. Midway 8235

Authorized as second class mail, Post Office Department, Ottawa.

FEBRUARY, 1949

Vol. XI

No. 2

CONTENTS

	Page
Editorial	5
VE-W Contest	7
DX News	8
B.E.R.U. Contest	9
Here's How	10
Traffic Page	11
Welcome OM	12
Dear OM	13
C. & U.S.R.S. Column	13
Club Activities	14
National Report	15



On the EDITOR'S FREQUENCY....

For some time now, we have been trying to evolve the details of a plan governing Executive Committee composition which will provide for country-wide representation and, at the same time, permit the committee to meet regularly. It was our hope to submit a definite proposal to the membership for consideration, amendment and adoption but, so far, a clear-cut workable plan in all its detail has not been fabricated.

However, we have received a suggestion from one of our District Representatives, and we have one or two thoughts of our own which, cumulatively, represent the nucleus of something or other. We are presenting those ideas on this page in the hope that you will nurture them and aid them to achieve a state of mature development.

We appreciate the fact that an election is about to be held, and we realize that the subject of these paragraphs is one which properly finds itself in the company of those matters which must receive the attention of the incoming Executive Committee rather than that of the present committee during the few remaining weeks of its term of office.

Nevertheless, our experience suggests that any helpful guidance that may be forthcoming from the membership will be warmly received by the new CAROA control. That same experience also tells us that it takes considerable time to gather an adequately representative

opinion from the membership of an association serving the extensive geography CAROA serves.

In the hope that it may be of assistance to the new committee, and in the interest of saving the committee some time, we bring the subject of Executive Committee composition before you now, optimistically hoping that by so doing we shall provoke thought and discussion leading to an expression that will aid the new committee to take appropriate steps to bring about an enactment of some sort so that the successors to that committee will be elected on a basis other than that provided by our present constitution.

The problem in connection with this matter has been stated in XTAL before, but it seems appropriate to re-state it for the purpose of this editorial. The problem is one of several complexities and its solution must provide for a number of factors of which the following are but three:

- Representation on the committee must be on a national basis.
- The committee must be able to hold regular and frequent meetings.
- The activities of the committee must be brought closer to the membership.

Factor (a) is easy of accomplishment as an individual consideration, but something of a problem is introduced when we attempt to combine (a) and (b). The difficulty can be appreciated when it is realized that the committee seldom meets less than twice monthly with weekly meetings frequently being the order of the day. Obviously members of the committee who reside many hundreds of miles from headquarters cannot find time to commute to Toronto even once a month, and

CAROA would be hard pressed to meet the expense involved.

Notwithstanding the difficulties, a solution must be found. It is at this point we take considerable pleasure in presenting the suggestion received from one of our District Representatives. We believe it to be a meritorious suggestion and one in which we have much confidence.

Our friend's suggestion is based on recognition of the fact that residents of the several call areas cannot regularly sit in at meetings of the Executive Committee, therefore, an alternative form of representation seems to be dictated. He believes this can be accomplished by the area being represented by former residents of the area who held amateur radio calls indicative of the area but who now reside in Toronto, or within the required radius, and who now hold Ve3 calls.

Let us take British Columbia as an illustration. At the moment, the number of CAROA members in an area determines the number of representatives to sit on the Executive Committee from the area. To the extent of that number, holders of Ve3 calls who formerly resided in B.C., and held calls of that area, would be elected to the committee by B.C. members. None others would vote on their election.

The suggestion seems to make possible the combining of factors (a) and (b) above. We like the suggestion because it seems to be an efficient compromise, and we like it because it somewhat parallels our previous thoughts on a "Panel of Representatives." In our previous personal thinking we did not get around to confining remote control representation to former residents of an area.

No details have been worked out, but if the basic idea is accepted, the formulation of operating details will resolve themselves into a workable plan without a great deal of difficulty. Let us have your opinions on this, and any ideas you may have for other forms of representation.

Now for factor (c). For quite some time we have been toying with the idea that the type of organizational set-up that can best serve CAROA and its members is one that will provide for a Chapter in every call area. The Chapter Executive Committee could hold quarterly meetings, and perhaps the Chapter could hold an annual general meeting. It is our idea that the Chapter President would be, ex-officio, a member of CAROA Executive Committee.

That official might not be able to attend meetings of the committee, but he could be advised, whenever possible, of matters to come before the committee for consideration so that he could forward his views. He would also receive a copy of the minutes of all meetings and, thus, would be fully informed. He would

then be in a position to keep his Chapter Executive Committee equally informed on CAROA activities.

The Chapter executive would be elected by and from CAROA members in the area. The President of each CAROA-affiliated club in the area would be, ex-officio, a member of the Chapter Executive Committee.

If we follow the liaison chain of ex officio representation on executive committees we find that the doings of the national executive are brought down through the organizational set-up to the members of affiliated clubs. We think this brings us close to a realization of factor (c).

It might well be that financial assistance to chapters could take the form of twenty-five cents out of each dollar dues received from members in the area, and perhaps a chapter could remit ten cents to affiliate clubs for each CAROA member on its books. Again, no attempt has been made to work out details.

We see great possibilities in the type of organization that provides an official coordinating liaison that links the national unit with units on the provincial level which, in turn, are linked with local units.

Matters of keen amateur interest could be thoroughly discussed by clubs with the chapter acting as an area clearing house for clubs in the area, and the national executive performing a similar function for chapters.

We have also been turning over in our mind the possibility of organizing a CAROA national trunk line for the express purpose of keeping District Representatives in closer touch with headquarters. Should the chapter idea become an established fact, some such communication link, no doubt, could be worked out.

Enough has been set out in these paragraphs to stimulate your thinking on this matter. Drop us a line, or start a radiogram telling us what you think. If you agree with these thoughts, tell us. If you disagree, tell us. If you have other ideas, give them to us. And while you are at it, tell us your views on representation to CAROA Executive Committee. Should there be just one representative from each area? Should representation be on a membership basis? Since amateur radio matters affect members and non-members alike, should representation be on the basis of the number of licensees in an area? Should it be none of these, but something else? Whatever you think, tell us.

The views expressed in this editorial represent the thinking of a D.R. and of the writer, and do not reflect the views of the Executive Committee as the matter has not been before that body except such items as were handed to the executive at the time the draft constitution was given to the committee.—R.M.

VE/W CONTEST 1949

**Begins April 28, 8 p.m., E.S.T.
Ends Midnight E.S.T., Sunday, May 1**

Object: Each Ve will work as many W stations as possible in as many United States A.R.R.L. sections (see page 6, QST) as possible. Each W will work as many Ve stations as possible in as many Canadian A.R.R.L. sections as possible (also on page 6, QST).

Time limit: Operation must not exceed a total of 20 hours (list times ON and OFF).

General call: Phone—"Calling any phone station in Ve/W contest." C.W.—"CQ Ve/W, CQ Ve/W, CQ Ve/W de (your call)."

Scoring: Preambles such as the following must be exchanged:

1. Number on contact.
2. Your call.
3. Check (report given, RST).
4. Your location.
5. Time.
6. Date.

e.g. HR NR 1 Ve1KS 589 Sackville NB 1012 pm April 29.

Each preamble sent will count one point. Each preamble received will count one point. It is not necessary for preambles to be exchanged both ways before a contact may count, but one must be sent or received before credit is claimed.

Mark each new section as it is worked.

Frequency Bands: Any or all amateur bands may be used.

Power Multipliers (final score): Under 30 watts, multiply by 2; between 30 and 100 watts, multiply by 1.5.

Operator handicap: If more than one operator participates at one station, the total score must be divided by the number of operators participating.

Awards: A Certificate of Merit will be awarded to the leader in each of the A.R.R.L. sections.

Attestation: The following certificate is requested with each log submitted: "I hereby state that in this contest I have not operated my transmitter outside the frequency bands as specified on my station license, and also that the log as submitted is current and true."

Logs must be received at CAROA HQ, 46 St. George St., Toronto, Ontario, not later than May 31, 1949.

COUPON

Please enroll me as a member of the Canadian Amateur Radio Operators Association. I am enclosing a cheque (), money order (), postal note () to the amount of one dollar which entitles me to all rights and privileges therein, and a year's subscription to XTAL magazine.

Name

Call Letters

Address

City Prov.

Licence Number

State your interest in radio if not licenced

REMIT TO: The Canadian Amateur Radio Operators Association, 46 St. George Street, Toronto, Canada.

QVE

**CAROA Official Bulletins
75 Meters Each Thursday
9 p.m. Local Time**

The undersigned stations have been appointed as CAROA Official Bulletin Stations. Be sure to listen for your district OBS for latest messages and bulletins of interest to all Canadian amateurs.

Ve1GD—3835 Kc—H. A. Garland
VE2DL—3809 Kc—R. Frenette
Ve2RM—3842 Kc—Rene Morin
Ve3QB—3835 Kc—W. B. Knowles
Ve3CP—3775 Kc—T. Hunter
Ve4EA—3820 Kc—Frank Lay
Ve5FA—3848 Kc—W. A. G. Simpson
*Ve5GA—3847 Kc—W. T. Rogers
Ve6OD—3801 Kc—E. A. Anderson
Ve7FB—3825 Kc—H. E. Savage
Ve8AS—3820 Kc—J. Spall

*—10:00 p.m.

DX NEWS OF THE MONTH

By R. D. Carter, Ve3QD

The fall season is now past and gone and was in general a very disappointing period. Dx was scarce and at no time could it compare with the previous year. We may as well face facts and reconcile ourselves that the peak is past and look forward to fewer good contacts from now on until the next cycle starts. Twenty in particular has been bad and during the season past not one real good opening was observed here. True, dx was heard and worked but the openings were always short, erratic and widely spaced. Ten has produced some good dx, but the openings here were also erratic, short and not to be compared with the previous two years. However, on the bright side is the improved conditions on both 40 and 80 and as the higher frequencies continue to decline both these bands will improve. We are daily hearing of more good dx worked on both bands and 80 has provided some very pleasant surprises for the boys. We have talked over the air with a number of the boys who have been regularly working over the pond with low power and not too good antennas. We know of at least two Ve's who only need one more continent for WAC. Forty, of course, is an old reliable dx band and it certainly is living up to past performances now. A number

of the gang have WAC'd in the past month and there will be lots more. This band is a great equalizer, as beams are the exception rather than the rule, and it isn't so hard for the average ham to compete with the higher powered stations. So keep your ears open and have yourself some fun on these bands and also don't forget to report what you see and hear.

The A.R.R.L. dx contest rules are out and gives us a bit of a break as we are allowed five stations per country per band instead of three. That will help to fill in the bleak hours when little is coming through but what has been worked.

And now the mail bag. Ve3AGX reports working on 80 G6CJ, KP4HU, HB9S, G6RB; on 40 ZS6CZ, I1PL, KH6IV, HB9EU, ZL1AJ, FESAB, and finishes up on 20 with CR6AI, CR7AF and ST2FU. Nice work, Frank. In a note from Ve6AO we learn the following; Ve6GD has worked 39 zones and only needs Zone 34 to finish it up. He is up to 139 countries and has sent in his cards for DXCC. Our congratulations, OM. Ve6TM is working some nice dx on 20 meter fone. Ve6AO himself is up to 95 countries and is well pleased with his new 3-element beam for 20. Thanks, George, for the gen, and keep it coming. Ve2AFC does all right with 60 watts and worked ZI3AB, ZI3CT, J4LGB and VU2GB, as well as a number of Europeans. Ve1EA was high Ve1 on 20 in the 47 VK test and wonders if anyone has the complete scores. He raised on 80 HP1BR, KZ5AB, HB9AW, GW3ZV, F3MS, DK3AA, PAØRE and a lot of G's. On 40 ZC1CL was the best and 20 was good for KG6DI, C1RO, ZC1CL, MP4BAB, LU1ZA, ZC8PM, VS6BA, HL1BA, ZS3B, and all on an 80-meter Zepp. Ve2WW is busy making up for lost time and raised CR6AG, ZD9AA, J9ACX, VK9NR, VS9AL, LZ1AA, UF6KAB, CT3AB, 4X4AC, UG6KAA, ZD1PW, VU2CR and MD1A. The 3-element works ok, Don. Ve2BV is trying hard to equal his Ve1 totals and coming along. The best the vertical could do was PZ1OY, ZS3B, ZE2JS, VQ8CB (Chagos islands), CR6AI, VQ4CUR and a lot of Europeans and South Ams. Ve5JV adds PZ1M, W7KMV (Iwo Jima), VP3MCB, NY4LB, YS2AG, and reports dx very scarce. Ve4RO works ZC8PM on 40, also AR1OD, LU1ZA and VP8AJ on 20, and reports 4XO active on 40 and still having good results. He also reports that 4TJ is up to 101 countries. 4RO has had two 40-meter WAC's

Station	PW	Total	Zones	1948 Total	Zones
Ve4RO	167		40	139	39
Ve7HC	165		40	145	39
Ve3QD	175		38	147	38
Ve2WW	140		38	137	38
VO6EP	131		38		
Ve1EA	134		38	92	32
Ve3IJ	140		37		
Ve1PQ	112		36	61	
Ve3AGC	129		35		
Ve3ACS	103		35	49	22
Ve3BNQ	91		35		
Ve3AVA	103		32	66	23
Ve5JV	89		31		
Ve1NE	91		32	91	32
Ve5QZ	64		29	58	29
Ve3PI	83		28	74	
Ve3AGX	72		29		
Ve1OM	79		27	70	26
Ve8AS	55		26	20	15
Ve2BV	62		26	62	26
Ve3QE	61		24	51	23

3AAZ 118, 4XO 108, 3AAX 102, 6FK 93, 3BWY 93, 3IZ 90, 7EH 77, 3TB 75, 3LJ 72, 3BBN 70.

1949 B.E.R.U. DX CONTEST

Once again comes the big opportunity for Ve's to work some rare dx. Below are the rules for the B.E.R.U. annual contest. Note especially rules regarding submission of logs, also Rule 3. Some of the best scores last year were disqualified because they did not comply with all the conditions. A good supply of entry forms is at CAROA hq. A postcard will bring one to you on request.

General Rules

1. The Event will be divided into three sections, namely:—(a) Senior (High Power) Transmitting Section; (b) Junior (Low Power) Transmitting Section; (c) Receiving Section. The three sections will be run concurrently.
2. Contest is open to all British subjects living within the British Empire and British Mandated Territories and to British Occupational Forces operating properly authorized stations, who are fully paid-up members of either the R.S.G.B. or one of the British Empire Societies listed overleaf. All entrants agree to be bound by the Rules of the Contest.
3. Entrants who are not members of the R.S.G.B. must certify in the declaration overleaf that they were fully paid-up members of their local society at the time of the contest.
4. An entrant not located in one of the prescribed Prefix Zones shall be considered as being in the Prefix Zone nearest to his station.
5. Contacts with, or reports from, ships or unlicensed stations located in countries where licenses are obtainable will not be permitted to count for points. The decision as to whether a station is to be classed as unlicensed will rest with the R.S.G.B. Contests Committee.
6. Only the entrant will be permitted to operate his apparatus for the duration of the contest.
7. A trophy will be awarded to the fully paid-up member of the R.S.G.B. scoring the highest number of points in each section of the contest. Certificates of merit will be awarded to the first three stations in each section and also to the leading station in each Prefix Zone, providing at least three entries have been received from the zone in question. In addition a second certificate will be awarded to each zone provided ten or more entries are received from that zone.
8. The declaration at the foot of the Entry Form must be signed by the operator, who will be recorded as the competitor.
9. Entrants must provide their own sheets which, together with the analysis sheet, must be legibly written or typed as set out overleaf. Incomplete entries will be disqualified.
10. All entries must be posted within seven days of the close of the contest. No entry will be accepted at

this month and says there's lots doing. Sure is, gang, so get on and see for yourself. Ve3QB has finally foresaken his 807 and runs 200 watts in the final now and finds dx easier to raise. Ve5QZ has been kept busy around home but adds three new ones with SM5CO, UF6KAB and UR2KAA. Ve3IJ is happy these days as the DXCC arrived and with it his endorsement for 110. It's framed and up on the wall for all to see. Note to all—ZC8 does not count as a separate country, nor does VK9NR on Norfolk Island yet, tho the latter will probably be so ruled later on.

Well, that's, all for this month, and still need more news to make it cover all of Canada.

Contributions to Roy Carter, 304 Brookdale Ave., Toronto 12.

R.S.G.B. Headquarters, New Ruskin House, Little Russell Street, London, W.C.1, later than June 13, 1949.

11. The judging of entries will be carried out by the R.S.G.B. Contests Committee. The President's decision will be final in all cases of dispute.

12. No correspondence can be entered into regarding any decision made by the President or Contests Committee.

13. The contest will extend from 00.01 G.M.T., Saturday, March 5, 1949, to 23.59 G.M.T., Sunday, March 6, 1949.

14. Contest operation during local hours of restrictions in the use of electricity for wireless which have been publicly announced is forbidden. The duration of any such restrictions will be recorded on the entry form.

Rules for the Transmitting Section

1. Fifteen points will be scored for the first contact on a specific band with a British Empire station located in any Prefix Zone outside the competitor's own zone. Fourteen points will be scored for the second contact on the same band with the same zone, thirteen points for the third contact, and so on, to the fifteenth contact, which contact will score one point. All contacts with that particular zone on that band thereafter will count one point each. This scoring procedure will be repeated on each band to encourage multi-band operation.

2. Only one contact with a specific station may be made on each band during the contest.

3. The contest is open for two-way A.1. (C.W.) contacts only, on the following frequency bands, viz.: 3.5, 7, 14 and 28 Mc/s., providing the input to the valve or valves delivering power to the aerial is not in excess of that specified on the competitor's license and in no case more than 150 watts in the Senior (High Power) Section and 25 watts in the Junior (Low Power) Section, and providing the entrant has permission to operate his station on the band or bands in question.

(This rule excludes the use of the 27 Mc/s. band.)

4. The conditions laid down in the entrant's transmitting license shall be observed.

5. A serial number consisting of six figures must be exchanged before points may be claimed. The serial number is made up of RST and three numerals denoting the number of the contact, the first contact being 001, and so on.

6. Entrants receiving consistent tone reports of less than T8 will be disqualified.

7. Specially appointed Band Monitoring Stations, under the auspices of the R.S.G.B., will be active during the contest. Any station reported off frequency by these checking stations will be disqualified without appeal.

Rules for the Receiving Sections

1. The scoring system will be the same as for the transmitting sections, viz.: fifteen points will be scored for the first station heard on a specific band within any Prefix Zone outside the competitor's own zone. Fourteen points will be scored for the second position heard on the same band in the same zone, and so on. This scoring procedure will be repeated on each band to encourage multi-band operation.

2. Before points can be claimed, the following information must be logged: (a) Call of station heard; (b) Call of station being worked; (c) Entrant's report on the signals of the station heard (RST); (d) The Serial Number given by the station heard to the station being worked.

3. CQ and Test calls will not count for points.

4. The same station may only be logged once on each band during the contest.

"BEAT NOTES"

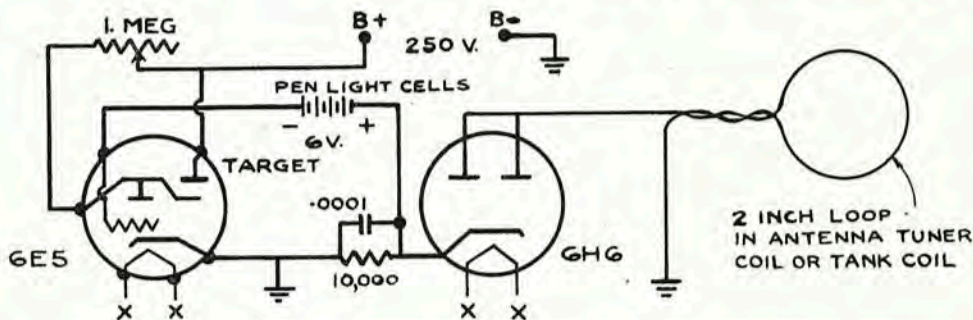
In the September 1948 issue, Ve2XR challenged anyone to beat his only transmitter for smallness in size. So far no one has come forward to contest his challenge. The entire transmitter is in a metal box measuring 8" x 9" x 10" and includes the power supply, antenna tuner, six crystals and an audio keying monitor. So, if you own a rig smaller than the above, step up and accept the challenge!



OVERMODULATION INDICATOR

By Ve3AHG, Port Rowan

This overmodulation indicator is positive, cheap to construct and uses the minimum of parts which can usually be found in the average ham's junk box. An examination of the circuit shows that a 6E5 "eye" tube is used as the modulation indicator and a 6H6 as the rectifier. Here is how it works. The 1 meg.



Last summer during celebrations in this town our 10-year-old boy decided he wanted to fly a flag and in order to get it up as high as possible he picked on one of my antenna masts. I tied a fine twine to the antenna lanyard and then let down the antenna to a point where we could grasp the end of the twine. This left us both ends of the twine at the bottom of the mast and was able to pull the antenna back up into place. Later on the flag was taken down but the twine left in place.

Last week-end the lad called me at the office to say that high winds had brought down both my long wire and dipole antennas. As this particular mast is too heavy to let down, I had visions of hiring a lineman to climb the mast and run the lanyard thru the insulator bracket at top of the mast. You can imagine my delight on finding the old flag twine still there. It was necessary only to tie a new antenna lanyard on one end of this twine and pull it back up, and in less than a half hour the antenna was in place and everything in order.

Had the regulation pulley been used, it may have been more difficult to pull this flag twine into place, but all my antenna masts are fitted with porcelain screw brackets instead of pulleys as described in my article which appeared in XTAL several months ago. These porcelain brackets have a large eye and any rope will slide easily through this smooth eye.

The moral seems to be to use porcelain brackets and run a small spare anyard through them. Both ends of this twine can be fastened to base of the mast, and any time the antenna

comes down it is a simple matter to fasten a new lanyard on to this twine.

volume control is adjusted so that the eye is closed when there is no RF in the pick-up loop, (xmitter off). Then when the xmitter is switched on the eye will open, then during modulation the eye will close. 100% modulation being achieved when the eye closes to the same position as when there is no RF, xmitter off.

Try this little gadget on your xmitter and the RI will never "nail" you without an over-modulation indicator, a so necessary piece of gear for phone operation.

One more remark, the eye works faster than a meter as there is no meter movement inertia to be overcome.

WAVE CERTIFICATES ISSUED

- 21—J. B. Lyon, W8YGR, Toledo 5, Ohio.
- 22—B. H. Stevenson, W2BXA, Cranford, New Jersey.
- 23—A. E. Wesley Street, Ve1EK, Halifax, N.S.
- 24—Harold J. Braschwitz, W8YPT, Cleveland 11, Ohio.
- 25—P. Pennell, G2PL, Wallington, Surrey, England.
- 26—Charles Bradshaw, Ve7YT, Trail, B.C.
- 27—Harry L. Strang, W3IL, Washington 15, D.C.
- 28—R. H. Guest, Ve1CU, Yarmouth, N.S.
- 30—Donald R. Dashney, Ve3RM, Ottawa, Ont.
- 29—Bertram Morgan, Ve3ACS, Black Donald Mines, Ont.

TRAFFIC HANDLERS'

PAGE

B.C. PHONE NET

A report on the "Five o'Clock Net" in B.C. has been received. All amateurs are invited to pass traffic to the net or to chew the rag. The net meets at 5 p.m., PST, on 3850 Kc. Net master is Ve7BJ, Vancouver, and the roll he calls follows:—Ve7AAZ, Ve7ABU, Victoria; Ve7ACF, Woodfibre; Ve7ACW, Port Alberni; Ve7AOB, Vancouver; Ve7AOG, Summerland; Ve7AOQ, Franklin River; W7BQS, Seattle, Wash.; Ve7BY, Vancouver; Ve7CX, Alberni; Ve7DA, Vancouver; Ve7DB, Oliver; Ve7DZ, White Rock; Ve7FB, Vancouver; W7GXI, Oroville, Wash.; Ve7HG, Alberni; W7JFB, Everett, Wash.; Ve7LC, Westbridge; Ve7LK, Prince Rupert; Ve7LX, Port Hardy; Ve7MU, Ve7PO, Victoria; Ve7PH, Ferne Ridge; Ve7PY, Port Alberni; Ve7SF, Victoria; Ve7SL, Ashcroft; Ve7SW, Ve7TZ, Victoria; Ve7US, Penticton; Ve7UT, Nelson; Ve7VG, Bamfield; Ve7WI, Abbotsford; Ve7WP, Nanaimo; Ve7XE, Brilliant; Ve7XX, Victoria; Ve7ZL, Williams Lake; Ve7ZT, Oliver.

PROVINCE OF QUEBEC NET (QEN) 3525 Kcs.

The PQN had its opening night on Dec. 6 at 7 p.m. EST on 3525 Kc. and has been in operation at the same time and on the same frequency ever since. In spite of the fact that a number of the members had no previous traffic experience, very good progress was made during the first month of operations. Net members during December were VA of St. Johns, XB of Verdun, AEH of Beloeil, LO of Drummondville, XO of Yamachiche, GM of Longueuil (NCS), and XR of Montreal who was NCS for two weeks when GM was QRT. The first month of business for PQN brought traffic totals of 85 for LO, 96 for XB, 146 for GM, 101 for XR, 18 for VA, 5 for XO and 11 for AEH. Several Ve3's and a few W1s came into the net at times to help boost the QSPs, but because the boys of the ETN (Maritimes) were on Atlantic Time, service with Ve1 was a problem that still holds hope for a solution. The Net Manager and Net Control Station, GM, wants more traffic coverage in the province, and asks all those interested to drop him a line now. Stations are urgently needed most anytime in the province, so how about lending a hand, fellows? VFO isn't entirely necessary, but of course it's a big help. If you can get

within two or three kilocycles of 3525 and would like to join in the fun, write to Bert Altherr, 268 Guilbault Ave., Longueuil. He'll be glad to send you all the particulars. See you in PQN!—(Ve2XR).

QUEBEC EMERGENCY NET (QEN) 3570 Kcs.

The QEN (formerly QPN) began operations last October as a Sunday morning 10.30 session to inaugurate Quebec's first organized emergency traffic net. The gang, consisting of XO, VA, AEH, XB and XR, all under NCS GM, have been registered with the Section (Quebec) Emergency Co-ordinator and are prepared to take over should an emergency require their services. To make their network more effective better coverage is required, therefore more stations are wanted to take part. If you are located within daylight working distance of the Montreal area, and would like to take part in the Sunday morning QEN sessions, drop a line to Bert Altherr, Ve2GM, at 268 Guilbault Ave., Longueuil. VFO is a help but not a necessity in joining up with the gang, so let's hear from you, OM.—(Ve2XR).

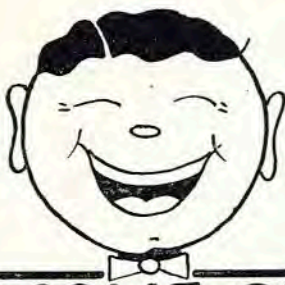
DECEMBER TRAFFIC TOTALS

2LO	85	3WK	26
2GM	146	2AEH	11
2XB	96	2XO	55
2VA	18	2BB	176
3IA	86	2XR	101
3BUR	278	3AIL	27
3DU	110	3AWJ	19
3APS	142	3BME	40
3ATR	208		

CAROA QSL BUREAU

Bert Knowles, manager of CAROA's outgoing QSL service, announces the expansion of his bureau to include all Canada. The conditions are repeated here:

1. Send your QSL cards to CAROA QSL Bureau, Lanark, Ontario.
2. Prepay first-class postage, if under one pound.
3. Enclose stamps to the amount of one-half cent for each card you wish forwarded.
4. Cards received without forwarding fee will be returned without postage.



WELCOME OM!^{2XR}

TO THE RANKS OF AMATEUR RADIO...

Ve2ADM, QSL to Ve3BJP.
Ve2ADN, D. A. H. Bentley, Fort Chimo.
Ve2ADO, L. R. Bode, Great Whale, Que., c/o Post Office, Moosonee, Ont.
Ve2ADP, A. P. M. Steinman, Koartak.
Ve2ADQ, V. Cyr, Fort Chimo, Que. Crystal #1, via Goose Bay, Labrador.
Ve2ADR., M. R. Seeley, Fort Chimo, Que., Crystal #1, via Goose Bay, Labrador.
Ve2ADS, A. H. Mascaret, Ivuyivik, Que., c/o R. Ferron, Churchill, Ont.
Ve2ADT, Guy Charette, St. Johns Baptiste, Beloeil.
Ve2ADU, Alfred Pettit, 4101 Melrose Ave., Montreal.
Ve2ADV, Douglas Casey, 757 Seigneurs St., Montreal.
Ve2ADW, R. Lajoie, 10 Chateaubriand St., Hull.
Ve2ADX, John Harper, 963 Bavaar Ave., Outrement.
Ve2ADY, Douglas Hamilton, 45 Riverview Ave., Ville La Salle.
Ve2ADZ, Frank A. Dunlop, 36 Riverview Ave., Nitro.
Ve2KW, G. Eric Marler, 1559 McGregor St., Montreal.
Ve2AFA—R. L. Duffy, 43-B Dorval Ave., Dorval.
Ve2AFB—R. Barron.
Ve2AFC—A. Desmeules, 152 Aberdeen St., Quebec.
Ve2AFD—A. J. Daoust, R.R. No. 1, Buckingham.
Ve2AFE—J. De Blois, 27 Aberdeen St., Quebec.
Ve2AFF—G. Liteplo, 1231 St. Catherine St. West (5th floor), Montreal.
Ve2AFG—E. E. Elkerton, 75 King Edward Ave., Greenfield Park.
Ve2AFH—L. C. Harris, 1395 Overdale Ave., Montreal.
Ve2AFI—D. A. Langley, 23 Belvedere St., Lennoxville.
Ve2AFJ—G. Julien, 109 St. Jacques Cartier, Donacona County, Portneuf.

Ve2AFK—Rev. A. R. Jourdain, 7106 Boyer St., Montreal.
Ve2AFL—H. E. Lamy, 4801 La Salle Blvd., Verdun.
Ve2AFM—M. Monette, 207 Mercier St., St. Johns.
Ve2AFN—J. A. Turcotte, 104-A St. Joseph St., Rimouski.
Ve2AFO—L. Langlois, 637 Royal Ave., Beauport.
Ve2AFP—J. W. Parenteau, 2 Dubord St., Victoriaville.
Ve2AFQ—W. Pender, 2154 Des Carrieres St., Montreal.
Ve2AFR—I. R. Rosenthal, 5005 St. Catherine St., West, Montreal.
Ve2AFS, G. C. Marsh, 65 Cote De Liesse Road, Dorval.
Ve2AFT, H. G. Kuhn, 10 Oldfield Ave., Montreal.
Ve2AFU—J. Lemire, Ste. Etienne des Gres County, St. Maurice.
Ve2AFV—T. H. MacDowell, 354 Cote St. Antoine Rd., Westmount.
Ve2AFW—J. R. Paquin, 35 Forget St., Ste. Therese de Blainville.
Ve2AFX—L. A. Richardet, 4283 Rosemount Blvd., Montreal.
Ve2AFY—L. J. Tetrault, 96 Drummond St., Granby.
Ve2AFZ—T. A. Hislop, Ste. Dorothee.

CHANGES

Ve2DU—Noel N. Wright, 302 Monmouth Ave., Mount Royal.
Ve2JJ—Wm. H. Pentney, 16 Latour St., Plage Laval.
Ve2ABE, Joseph A. Frechette, Bureau De La Douane, Port Alfred.
Ve2ADF, Frere Julien, Ecole Des Arts et Metiers, Port Alfred.
Ve2AEP, J. A. Dube, 74-A Boucher St., Lauzon.

LEARN CODE this easy way



• This automatic INSTRUCTION machine will teach you quickly to send and receive code (Morse or Continental).

It comes complete with code tapes and instruction book, gives clear signals as fast or slow as you wish. Low Rental plans, clockwork models, for 1, 3 or 5 months. New machines for sale, Electric Models included. Write for folder giving full details.

**Day, Night, and Home Study Courses in
Radio and Television; and in Radio
Communications.**

RADIO COLLEGE OF CANADA
54 Bloor St. W. - Toronto
Canadian Rental Hdqtrs. for over 10 Years

CHESSE BY RADIO

We are in receipt of the following letter from Osias Bain, secretary of the Chess Federation of Canada:

"On Nov. 22, I had the pleasure of playing a radio chess game with Lawrence Barrs, rodeo photographer and artist of Calgary, Alta. We played on 20 meters, from Ve2WH and Ve6AO, with Ve2AFC also taking over at intervals. Chess moves were sent without ambiguity, using the Udeman code, the game lasting two hours. Both the players and the amateurs had a most interesting evening.

"It is the intention of the Chess Federation of Canada to promote and encourage this form of chess across Canada. The organization of chess matches over the board is virtually impossible between greatly separated centres, and it is certain that radio chess is ideally suited to overcome this difficulty.

"At the same time as the chess match progresses, the two radio amateurs can exchange information. They have also the feeling of having accomplished something concrete, and often can participate in the general excitement of the match.

"The Chess Federation of Canada thus invites radio amateurs in all towns and cities wishing to co-operate in the staging of these chess matches, to send their addresses to the Secretary, Chess Federation of Canada, 52 d'Aiguillon St., Quebec, Que. This information will then be sent to the interested chess players who will contact the radio amateurs."

Editor, XTAL:

A neat moan from Sid Prior in his column in December XTAL, may I say that since reading it I succeeded in getting some U.S. surplus into Canada through the customs. I would suggest that the brethren need not all despair.

For those who do not know, this is the procedure. First of all, it is necessary to have a permit. Apply to the customs, if you live at a port-of-entry, or to the Foreign Exchange Control Branch at Ottawa, if you do not. They will give you a form to fill out in sextuplicate. Five of these are sent to Ottawa, along with a letter explaining why you want the article (make it good, and lay it on thick!) and keep the sixth copy. In due season (less than a week in my case, and via airmail) a reply comes from Ottawa, and if you are successful one of the forms you sent is returned, and it becomes a permit. Keep this, and send your order. When notified by the customs that your order is in their hands, take the permit to them to identify yourself. Now comes the catch. Seeing that items of this nature come under the quota goods conditions, it will be necessary to fill out about seven more forms, each in its own manner, though several are similar. This will take about an hour (no foolin'), and you can save time by getting a customs broker to do it for you—it will cost a dollar or two, but it will save a lot of grief, as they know the ropes. I went through all this to get a couple of tuning units costing 69c each, and the duty and sales tax was 30c! Note—in filling out the final group of papers, the value for duty is computed to the nearest dollar, in my case \$1, as the value was \$1.38. It is also necessary, in computing the value, to add the official exchange difference.

Since this transaction of mine I am informed the customs have some new regulations in force, permitting imports up to the value of \$100 at a flat rate of duty of 35%, but of this I have no details. They can be obtained from the Deputy Minister of Customs and Excise, Ottawa.

David Scholes, Ve7DY.

C.&U.S.R.S. COLUMN

By Sid Prior

Time and street cars wait for no man, and as the weeks go by the SWL Contest slowly but surely starts to wind up, and before long it will be March and the end of the contest, so, my friendlys, how are you all doing and are you receiving the necessary QSL cards in return for your SWL cards or letters?

You know some of the licensed boys are very lackadaisical in replying to the SWL's, but, in my opinion, and not necessarily the opinion of this magazine, (unquote), a true signal report comes from the SWL's, more so than a report from a QSO, because if you listen to the boys in a QSO they are so generous with the signal report, they slay me. I may get slugged for this job, but I've said it (Li).

Last month I told you I would let you know how the prizes for the contest are coming along. So far, a \$10 voucher for equipment and a 10" PM speaker have been offered by Toronto supply houses.

That's the dope, fellows, and if you have any beefs about the contest, just let me know, as I am the guy who will have to listen to them and straighten them out.

Received a couple of letters this month as follows: First from a new member to CAROA in the person of Ken Foote, 2345 Estevan St., Victoria, B.C. Ken is an SWL who is confined to his bed, so what say to an SWL card or a letter to Ken and make his life a little brighter.

And still another new member to CAROA from North Bay. May I introduce Orville Little of 140 Lake St. Orville does his SWLing on an old Silver Marshall short wave converter, with plug-in coils and a loop in his room, which he says he gets F.B. on 20-40-80.

73, SID.

Editor, XTAL:

May I through you and our publication express the sincere and heartfelt thanks of my family and myself to the numerous hams who so willingly came to our aid during the illness of my dad preceding his passing.

To Ve6HQ, whose loan of a receiver made our many skeds possible; to Ve3AXW, and Ve3AMB, who kept skeds so faithfully; to Ve7ANN, 6NW, 6NA, 6MP, 5OD, 5BF, 5VB, 5IC, 4GE and 4QD. In fact, to all and any who were responsible in assisting to handle traffic, I say a sincere thank you.

Our special thanks to the Calgary A.R.C. for their expressions of sympathy and floral tribute.

While dad never held a license, his keen interest and association with ham radio dates back to 1920, and as early as 1921 he rebuilt and shielded a three-tube job built by the writer the year previously. Having two sons and a son-in-law as hams, he was ever happiest as he talked with and to hams in various parts of the world. During his visit to England in 1947 he made personal calls on some of my ham contacts there.

Times such as we have just passed through bring out the true spirit of ham radio. Thank God for the privilege of being a ham.

Frank Meadows, Ve6AC.

C A R O A

CLUB ACTIVITIES

Station Ve7ACS, operated by the student Amateur Radio Operators' Association of the University of British Columbia, was completely destroyed by fire on the night of Jan. 29. The station was housed in one of the army huts that had been moved to the campus at the end of the war to provide space for the influx of student veterans.

Fire swept through a total of six huts before firemen brought the blaze under control. As the fire was in the early hours of the morning, no students were on the campus, and nothing was saved from the shack. The club's two transmitters, two receivers, and other equipment was a total loss. Many of the members of the club lost personal equipment of considerable value.

However, Ve7ACS is not dead, for the club expects to be back on the air within a few weeks using borrowed equipment. Prof. Kersey of the Electrical Engineering Department has located new quarters. The president of the club, Ed Hird (Ve7AGZ), has already arranged resumption of both code and theory classes for the unlicensed members.

The club asks all hams who have QSL'd with Ve7ACS to send a reissue of their QSL card, for the new shack certainly looks bare without them. And please keep your ears peeled to hear Ve7ACS calling CQ again and welcome the club back on the air.

The Loyalist City A.R.C. held its general election on Jan. 11, and the following slate of officers will serve for 1949: President, Ve1IZ, J. Malcolm Redding, 123 Cranston Ave.; Vice-Pres., Ve1GQ, Harry C. Powlie; Secretary, Ve1RQ, Malcolm R. Cobham; 164 Winslow St.; Treasurer, Ve1MR, Walter Peters; Press Rep., Ve1EE, Murray Doull; Program Director, Nelson Day; Social Convener, Sandy Scott.

The London Amateur Radio Club held their first meeting for 1949 on Jan. 13 with a record attendance. The speaker was Ross Wilson, Ve3AIX, a local amateur, who gave the boys Ohm's Law and other data in ham language. It was reported that the code classes are well under way, with the prospects of several new hams in the spring. Emergency and field day equipment was discussed, and committees were formed. Guests attending were Herb Nicolson, Ve6GK, of Oles, Alta., and William Potts, Ve3HR, of Trenton.

Amateurs in Owen Sound have organized into the "Scenic City Radio Club." There are 30 men and four women members, of which seven are licensed. The club will meet each Tuesday at 7.30 and those visting are asked to get in touch with any licensed ham or Jack Hughes at Crecine Electric on Tenth St. There will be theory instruction and code practice for all beginners. Ray Logan was elected as president and Jack Hughes, Ve3DBA, as secretary. A committee of three have charge of public relations. They are Roy Burnett, Larry Cornett and Bill Morris. Wally Murton is giving theory and Bill Fraser, Ve3BMH, is giving code.

Officers for 1949 in the Alberni District A.R.C. are as follows: President, C. Ramsay, Ve7ACW; vice-president, W. R. B. Brown; secretary-treasurer, D. Dootson, Ve7PY. Meetings will be held on the first and third Tuesday of each month at 8 p.m. in the Port Alberni Army Camp. The executive has drawn up a very interesting plan of activities which should prove of great interest and instruction to the members. Details of these activities will be given in our future reports.

Ve1GR 75-METER DX TROPHY

It was recently announced that another trophy will be available for competition. The Ve1GR 75 Meter DX Trophy, purchased by air waves friends of Harold Ward of Halifax, N.S., recently become "silent keys". The trophy will be competed for annually and awarded to the ham who has the most confirmed foreign station contacts for the year, and it is understood that the trophy will be placed in the hands of the various district radio clubs for disposition.

Shortly after Ward's death, Art Lewis, Ve1LR, started a fund for recognition of his air friend's many years devotion to ham radio. Over \$80 was contributed by pals from the Maritimes, Quebec, U.S.A., Newfoundland and England.

Amateurs contributing to the fund were: Ve1's LR, BL, TS, TR, NA, LU, DQ, US, CR, JA, IR, DP, LH, IE, QU, LM, OA, AA, CX, MA and PX; Ve2's OK, SA, BE, BR, DU, JL, JM, MG, NR, PT, SAX, AGS, SWL; GHOQ, W1SWL, W1AAH, VO6J, Ve3AOT, Ve3BNH.

C A R O A

NATIONAL REPORT

Ve2

Floyd G. Gribben, D.R., Ve2XR, 5120 Westbury Ave.,
Montreal, Que. Phone EL. 5387.

Well, gang, the month of the valentine and the annual dx contest is at hand. A time to remember the gal who tolerated (?) your radio all year long, who now tops it off by bringing you chow so's you can stay glued to the controls while you fight in the contest. And now . . . let's see what others have been up to around Ve2. FZ of Lennoxville uses the Morse on 80. UM of Westmount uses 150 watts on PP 809's on 20 and 40 that are connected to a Zepp antenna. A Marconi SMR-3 sucks in the sigs. "Hy" is QRL a commercial ticket and a modulator for the rig. 80 CW echoes to the sigs of AFI, RZ, GR and KR. TK of Ville St. Laurent rattles the brass on 40. So does DM on 20. QS of Montreal put up new 20 dipole for phone band to give ten a rest. OK of Kirk's Ferry (near Ottawa) does his phoning on 80. GH of Lachute gets on 80 phone in between radio service jobs. YE of Montreal selling entire station consisting of HRO and a phone job using PP T20's and 807's as modulators. Ken doesn't expect to be back on for several years due to new job. Lots of luck, OM. GQ of Montreal phones on 20 with FM. FL of Bourlaimaque sends in his report from the frozen north. Guy says he's having lots of fun with his Harvey-Wells TBS-50 rig. He also says one of the ex-Signal Corps lads in Val d'Or is conducting a code class to make future hams. ABS of Val d'Or is now using the rig shown in an article by Ve3RH back in May 47 XTAL. Yep, Herb bought the actual rig described and is using it on ten phone. (Thanks for news, Guy). Our St. John's reporter, JN, drops a line to say the club there is coming along nicely. AEE of St. John's built the PP 807 rig shown in August, '48, but the bugs were so bad he tore it apart and made up another rig. SG is completely at home on ten phone with his PP 814's. GD's daily commuting to Montreal lops off lots of time he could use in ham operating. WF is in the same boat. LQ has no rig as yet as he's too QRL at work. Build one at home, Sid! RF putting finishing touches to new abode and still can't keep 80 meter dipole off the ground. Boys suggest steel cable, Jean-Paul! VA, AFV, AIO and NN attend Dawson College in St. John's. JN says plenty of 19 sets around town and 144 Mc is showing signs of life. WY of Westmount takes time out from ten phone to dabble on two with a converted B unit from a 19 set. Ross uses an Abbott 5L beam on the gadget. CB of Verdun using his 3L beam on ten hooked to ACK's NFM rig and is reported raising lots of G's. W's and neighbors! KC of Montreal uses 60 watts to tickle the plate of an 809 on 20 NBFM phone. A dipole takes care of the RF and an RME-69 does the listening. A local xyl got in touch with her B.O.A.C. husband down-under through the kind efforts of UC in Pointe Ste. Charles who hooked up the couple via VP9F, HP1RD, CO2LY, etc. XB, Verdun's traffic man, threatens to tear his Bendix TA-12 apart as it has defied him and others to get it to go. He even found trouble in his BC-457 as he found, believe it or not, 110 volts AC on the antenna feeder! At the December meeting of the Montreal Amateur Radio Club, the following officers for 1949 were elected: Rupert Grant, QQ, as president; Harold Coram, NB, as vice-president; Ethel Pick, HI, as secretary; Colin Dumbrille, BK, as treasurer. The executive committee chosen were as follows: Fred Looker, TY; Monty, KG; Bill Oke, XM; Gerry Hudon, KG; Herman Eberts, XP, and John Pavey, KH. The club's annual prize draw was an exciting affair. Pop Payette drew the lucky numbers. The first drawn gave JJ of Plage Laval (formerly Montreal) a shiny new National NC-57 receiver to go with his RCA GR-10 inhale box. (Later a deal went through and Bill sold his receiver and held on to his GR-10—hi.) The second prize, a National all-band tank unit, went to AEN, who was in the maritimes on biz. The third main prize went to the youngest club member, Eric Marler, who just got his call at the end of the year. A small lad with the big call of KW took home the Triplet type 666 tester. Eric will be heard on 20 CW with a McMurdo-Silver 701 job using

an 807 final. He'll be able to hear you on a NC-173. Welcome to the mob, Eric. A heap of filter condensers went as prizes to other lucky ones. The ladies who came along with the boys took home chocolates and Christmas tree light sets. Everyone there got a free instruction book for a 19 set! (Anyone giving away 19 sets?) Yep, M.A.R.C.'s last 1948 meeting was eventful as well as entertaining. GM of Longueuil, net manager for PQN (3525 Kc) paid long visit to Quebec for Christmas and New Year's, but excess celebration distracted him from lining up a few of the boys there to join the net. XR of Montreal took over net control for the two weeks GM was QRT. LO of Drummondville was added to PQN when his rock for the net frequency arrived from the U.S. John says a 4,000-volt power line, plus more vacuum cleaners per square yard than anywhere in Canada, gives him a high QRN level on 80. VT of Matane (across from Baie Comeau) dropped into the PQN several times with traffic. Hope to see you on often, Paul. MO of St. Lambert has new rig with Clapp osc. and 807 final. Get in the PQN, Tom! DL of Montreal is back at the rig and his C.A.R.O.A. official broadcasts after long business session in maritimes. Rene's 10 water puts out a signal that shows the high-power boys a thing or two and works VO-land on 80 phone to prove it. WK's operating is more comfortable now due to xyl presenting him with upholstered chrome chair. AEH of Beloeil uses his 19 set on 80 CW and is a regular in the PQN and QEN nets. Pierre is considering 144 Mc very shortly. ACI, the belle of Chicoutimi as well as our Chicoutimi correspondent, has the red carpet rolled out in her honor by lining up herself as well as the following new C.A.R.O.A. members: RA, TV, QD and ACC, all of Chicoutimi; WV of Rang St. Francois Jonquiere and ADF of Port Alfred. Nice going, gang. From Verdun we get another new member. He's ACK. From Montreal to join C.A.R.O.A. is AFB (ex-GSRN). Welcome to the gang, fellows. CI of Montreal is proud of his new homemade frequency standard. ACM of Valois is casting mouth-watering glances at a new 304TH to add to things around his garage-shack. KD of Montreal parted with his RK-39 ten phone rig but still has his Marconi PV-500 PP 810 rig on the selling list. ZF of Montreal replaced his 811's with 814's in his 10 and 20 phone rig and reports better results. HG of Montreal has new phase modulated VFO from Nov., '48, QST hooked to his new 500-watt final on 10 phone. BO of Mt. Royal says his year-long silence will be broken soon as he debugs his new rig. DU of Mt. Royal parted with his former homemade rig and now has his first factory made job. It's one of those delectable Collins 32-V rigs. Noel has an attic-strung indoor doublet on it and surprises the boys with an fb signal. He hears you all on an NC-173. LU moved his 500-watt job to Strathmore six months ago and hopes to get time to clean up his haywire receiver. HM of Montreal operates portable on 80 fone from his snow-bound hideout near St. Sauveur. HY of Montreal West uses a portable BC-694A on 80 phone that comprises a recvr and 10 watt transmitter in one unit that runs on a storage battery. AX of Hampstead has been playing with a CW man's dream . . . a new Mon-Key! MM of Beloeil has a Marconi PV-500 on 80 and 20 fone. ADT also of Beloeil works 80 CW and is now busy on a new six meter rig. Our Drummondville reporter sends in his regular news. John, who has always operated on 40, got on 80 and was initiated into the PQN by being hooked to QSP from a Ve3 net to the tune of a real bagful of messages! Nice work, John. AGG, also of Drummondville, finished his new VFO and part of his new super rig. In the meantime his 35-watter is doing well. John hopes the landlord will let him put up a new clothesline for RF soon. TD, also of the same town, uses his 300 watts on 40 and is improving his fist. AA of Drummondville still hesitating about getting back on the air due to the fact that hi-fi amplifiers have him daff. (Thanks for the news, John). BEEF DEPT. . . . QRM from other stations is by far the biggest headache we hams have to contend with during our operating periods. This nerve-wrecking mess can be segregated into two distinctive classifications. One can be labelled as the "Incurable QRM" which is the result of too many stations operating

on too few frequencies! Forward steps to reduce this type of interference have been successfully made by using super-selective IF channels which largely eliminate adjacent channel QRM, but two stations, or more, operating on the same frequency, cannot be separated! The second type of interference can be called the "Curable QRM." This variety of far-flung nuisance is readily recognized by such needless antics as on the air key adjusting, tuning the final, chasing parasites, swishing the VFO, determining deviation, checking voice and/or carrier quality or showing Joe the RF arc obtained with a lead pencil. All of which need not, and should not, be radiated! Luckily this type of QRM can be eliminated, and by such simple means! Yet simple means to an end are often overlooked just because of their simplicity! Such is the case of the elimination of the "Curable QRM"! There isn't one of you who hasn't cursed from here to Lower Sidebandia, the fellow who radiates the "Curable QRM." Then, dag nab it, you're up to the same blamed tricks yourself at one time or another! Let's cut out this darned foolishness, fellows, and really do something about it, and let's stop cursing the other lad until we've put our own shack in order. Get right down to business and cut out all needless radiations by rigging up a non-radiating dummy antenna that you can switch in when you want to do any testing. It can be done so cheaply that it is a wonder more of us haven't thought of building one up long ago. Ordinary electric lamps, rigged up to suit the power output of your rig, will work out nicely, and they'll give you a good indication of the power you're getting from your final amplifier. Get out that Handbook and start planning that dummy antenna now! You'll find it a very worthwhile undertaking because it's a sure-fire killer of that "Curable QRM," done the quickest and cheapest way! It will be a treat to all our ears too, for the next time you're testing, we won't even hear you! Wuddia say, OM? The Dec. 29 meeting of the Westham Radio Club (west end Montreal) was a session of hilarious hams long to be remembered. Outside of the bar, the highlights of the evening consisted of MK's enactment of considerable deviation! Other humorous incidents were the lighted match held to the tightened jeans of the secretary, with most obvious results! And the three blasts of the CO-2 fire extinguisher towards the fiddle player with no quieting affect! The meeting was the longest on record for it continued well into the following day! The club's first meeting of 1949 was held on Jan. 5 and discussions were held to plan items of interest to the members for the new year. AEG of Montreal is taking time out from ten fone to give 80 CW a workout.

AEL of Montreal uses a McMurdo-Silver 701 rig with an 807 final on 40 and 20 CW and on ten fone. John listens on a Marconi AR-2 revcr. BF of Montreal still hasn't been on postwar and blames his small apartment. If you really want to get on, it's not that tough a problem, Tom. Well, there you have it, gang. By the way, won't you drop a little news this way sometime soon? I'd like to hear from those who never get in the news. It only takes a few minutes to make out a post-card or to give me a phone call. The full address and phone number is at the top of this column. How about it, you guys! XTAL will only grow through your efforts supporting mine. So long for now, fellows, and I'll be snoopin' around Ve2 for more news. 'Til we meet here again in the March issue. 73—Floyd.

**Votre chroniqueur français: Marc Cimon, Ve2WV,
2156 Blvd. Laurier, Québec—Tél. 7-1168**

Ce mois-ci, j'ai reçu plusieurs lettres très intéressantes de la part d'OM's me donnant un résumé de leurs activités et de celles de leurs amis. Je remercie tous ceux qui m'ont écrit et je les invite à le faire encore. LF, de Verchères, nous dit qu'il aime beaucoup expérimenter et construire. Anselme travaille actuellement au montage d'un "panoramic" muni d'un écran de 5 pouces; de plus il annonce qu'il viendra bientôt en téléphonie sur 75 et il a bien hâte d'y rencontrer ses amis. En attendant, il se contente de les écouter avec son S-40 dont il a beaucoup augmenté le rendement par de petites améliorations. A bientôt, Anselme!—3BJP d'Ottawa, qui opère aussi dans le Québec sous l'indicatif 2ADM, nous fait part d'une foule de renseignements des plus intéressants. Il nous déclare que le signal le plus frappant à Ottawa est celui de RM qui traverse le QRM le plus inextricable avec son petit pouvoir. AV utilise à la fois A1 et A3 "avec l'aisance qui dénote le professionnel" et il en est de même pour plusieurs autres voix bien connues sur la bande de 75. ADM exprime toutefois le regret que de trop nombreux amateurs ont abandonné complètement le CW. UP a, paraît-il, eu des inquiétudes au sujet de son tempo mais il est maintenant rassuré et produit un bon signal. UU utilise le système "super-modulation" avec des 507 et il obtient de très bons résultats. ADM termine

en nous disant qu'il emploie actuellement un ARC5 mais qu'il mettra bientôt dans l'air un PP810; il exprime le désir de se joindre aux réseaux de trafic en CW. ADM est le fils de ZL, une des voix les plus sympathiques de la bande de 75. HO nous écrit de Pleissville. Gaston utilise un transmetteur, TA-12C, un 19 et un SX-24. Il aime beaucoup correspondre en français sur 80 en CW. Son second opérateur, ZQ, est présentement malade à l'hôpital. Nous lui exprimons nos meilleurs souhaits pour un prompt rétablissement. SV se fait entendre sur 75 en A3 avec 3 watts input sur une 35L6GT en final. Son signal passe parfois d'une façon surprenante. AFC nous fait part d'une expérience pour le moins originale. Alex a syntonisé son poste sur 10 mètres en employant une série de lumières d'arbre de Noël comme antenne. Avec cette installation, il a été entendu avec plusieurs dBS au dessus de S9 en Louisiane. Croyez-le ou non, cela s'est passé dans le temps des Fêtes! AB, de Québec, a installé un "Monitone" dans sa station et il a beaucoup d'activités en CW. Merci à 3BAJ pour son encourageant message. Fred est un OM de langue anglaise mais il assure qu'il aime bien lire quelques mots de français dans le XTAL. J'espère que ce mois-ci encore, je recevrai plusieurs lettres de la part des lecteurs de cette chronique. Lorsque vous écrivez, votre geste est apprécié de tous vos camarades car votre collaboration contribue à rendre ce rapport plus intéressant. 73—Marc.

Ve3

W. Bert Knowles, D.R., Lanark, Ont.

Ve3UO, Bill the Barber, has again been taken in for a free haircut, this time by Ve3AHS. Who will be the next lucky (?) one. There are numerous rumors floating around about ALU—who has the right one? Moreover via the grapevine we find that Theodore (ALU) has a new mike, and sounds more angelic. Your D.R. has at last found time to put the new final on the air and is receiving some nice reports. The O.A.R.T.A. put on a splendid chicken supper early in December. Amongst the many splendid prizes was a Hammond ten-meter beam which was won by JW. RU is using a BC459 as a VFO. BQP has his beam working and is after WAC. BWK is on 7 Mc with a BC459. AEG is back on 40 CW after a short stay on 10 fone. AIU has 102 countries. BVC, AWI and BOG are on 10 fone. G3FT, xyl and twin daughters arrived in St. Thomas Dec. 29. St. Thomas extended them a hearty welcome and assisted them in getting located. 3OT is relief dispatcher for C.N.R. NX skeds Ve3PH on Nottingham Island. BSW worked his first dx on 10 fone—a ZL3. BIS is trying to screen modulate 807's on 75 fone. BIQ is on 80 CW with 60 watts. BNC is getting the bugs out of a new VFO. How would DDT work? BLT, using 304TH's, is having BCI on 80 CW. AOH using 100 watts to PP807's is getting out fb on 75 fone. BGD is on 75 fone and also ten with a three-element beam. The six-meter boys in Hamilton have been working out fb. BHS with 60 watts worked HL1AE, BXV has a 19 set and an NC81X revr. BPE has 10, BTE 11, and QE 22 countries. We believe this to be on 40, CW of course. BIK and QE (ex-BHX) are now WAC holders, and AQA has WAS. AGB came on to 75 fone to wish the gang a Merry Christmas. IX has been promoted to wing commander. MB had his call bootlegged on 75 fone, and the bootlegger gave his QTH as 75 miles from Kirkland Lake. The bootlegger was worked by Ve2DX.

It is with deep regret that we record the passing of another amateur. On Jan. 1, Ve3ARG, Everette J. Millet, of Sudbury, met his death in a highway accident. Everette walked into the side of a passing car and was then thrown into the path of a bus. He was 43 years of age.

Ve4

Jerry Walsh, Ve4GW, D.R., Marion St., St. Boniface.

KF made the Winnipeg papers recently when a local family had a QSO with their daughter in New Zealand via KF's station. Nice going, Frank. It is things such as these that give ham radio a boost in the eyes of the public. TX is temporarily QRT while rebuilding his new final. VK is on 10 and 20 fone. IC, an electrical engineer with TCA, spends a great deal of time out of town. Currently Ivor is experimenting with a new compressor in his speech amp. CC is going all out on the new dream rig which will incorporate all the latest in the audio end and a pair of 304TL's in the RF end. DL plugged in the bug and worked all continents in 13 hours on 20 meters. BR's xyl gave him a Meissner signal shifter for Christmas. (Like to trade for some ties, Barney?) DE is trying to knock off the last few states for his WAS, as he is leaving for Ve3-land in the spring. HP is going to rock 40 meters shortly with a new #00 watt final. RO is working some swell dx on 40 these days. HB came

on recently with an 807 exhaler and a TRF inhaler. DO in St. Boniface is running up the light bill with 700 watts to a pair of 813's. Bob is waiting for the spring to put up a super deluxe antenna system. KX is very pleased with his new electronic key. IU and WF are on 20 fone.

MC has his new super deluxe home-brew receiver working. Hugh had some trouble lining it up due to the presence, in the next room, of a 250-watt commercial FM transmitter. MP and CE are on 20 CW. ML frequently works in conjunction with LT to knock off some very 2b stuff on ten fone. ML is building a 300-watt, single 813 final. DG is a crystal grinding expert. Doug, is currently inactive due to the pressure of university studies. FU is doing a lot of experimenting on converters. NT is building a 100-watt rig and a four-element 10-meter rotary. SH is a regular on ten fone.

ND is looking for a Collins receiver. CG is building a super-duper scope. Don is also laying out the green stuff for the components for a new rug. DY is going to use a pair of 809's modulated by 807's in his new QRM factory. KW will have more time for ham radio once he graduates from Electrical Engineering this spring. LF is on 10 fone with a pair of 807's and a three-element job. AF is experimenting with high frequency electronic heating. EA's Spanish accent is the result of the swell signal that Frank puts into South America. QG is working on a new VFO. CA is moving to a different part of Winnipeg. The rig at present incorporates a pair of 807's though bigger things are in the offing. GW has cut down operating activity due to University studies (and trying to get news for this column). NX is going to try his patience on a cubical quad. DQ at Kanuchuan Rapids works into Wpg, quite regularly. Carman is represented on 40 by OS. EL is running 20 watts to an 815 and using what he describes as super modulation. The W.A.R.C. is going great guns. One of the projects is to sell v-fb monitoring scope kits, at cost, to its members. AT is building a high-powered final for each band. FK is now on 20 fone using screen modulation. A sked was recently arranged between GQ and a W6 so that a local family could talk to one of their relatives in Fresno. However, on the date of the sked GQ was taken aback by the influx of 12 people into his already crowded shack. YL, the only licensed y-l in Man., is on 80 with a 6L6 osc. transmitter. JB at Binscarth operates 40 quite consistently. RP has installed a ten-meter beam over his present 20. MW, a 10-meter regular, is now in the process of building a 300-watt final with a pair of 812's. TV recently installed the necessary filters in a neighbor's set to eliminate fone BCL. However, a radio service man later removed the filters. That was the last straw for Herman and now he's sticking to CW. RM is on 10 fone with an 807. ER operates 40. GB at Seven Sisters Falls is on 20 CW with an fb three-element beam. Charley will be on fone as soon as the new modulator is ready. NG worked NZ for the first time in 11 years via FK's rig. BE is on two meters with 15 watts to an 832. WG will make his appearance on 20 CW shortly with a pair of 807's. LM in Brandon is on 40 with a single 6L6. CL is on 20 fone with 250 watts to TZ40's. CX has his new VFO perking fb. WK is using NBFM on 20. CU is on 40 with an 807 and tuned doublet. An S2OR (Christmas present) now graces the operating table. BM's new rig incorporates a pair of 814's at 200 watts. ZK with 150 watts to a beam puts out a whale of a signal on 10 and 20 fone. SR is building a ten-meter mobile rig for his car. Well, fellows, that's all for now. How about some reports for the next issue, especially from the country points. 73—Jerry.

Ve5

A. C. Cox, Ve5BF, 237 5th Ave. N., Saskatoon.

The Saskatchewan Net has been functioning now for several weeks and for the most part with good results. There are some that feel that the operation should be more snappy. That is the opinion of your reporter, who, while not in the net, has listened in fairly steadily to its operation. 5RB, the mighty twelve watter at Windthorst, was the moving spirit behind the formation of the net, and 5WG, 5BU, 5LU, 5EE, 5EV and others have acted as controller on different nights. Quite a fair amount of traffic had been handled, but on one or two nights other stations outside the net, apparently unacquainted with the net operation, have parked on the frequency, making it very difficult for the net to operate satisfactorily. I would like to put in a plea to all stations not operating in the net to keep the net frequency of 3530 Kc clear from 7 p.m. till the net is through, which with a clear channel will take far less time. Some argument is going on about whether the

controller should call the roll call first, clearing traffic after the roll call is completed, or whether traffic should be cleared from each station as it reports. My own opinion is that the roll call should be completed first, which will allow those without traffic, and not concerned with receiving traffic to drop out if they wish. Due to BCI it is impossible for your reporter to operate AM at that time of the evening, and the nasty FM is not good enough.

I was hoping to receive some more information from Prince Albert about the formation of the Northern Radio Club, but so far none has arrived. Who is going to keep P.A. on the map?

The Saskatoon Club last met in a room provided by the O.C. of H.M.C.S. Unicorn, whose co-operation we gratefully acknowledge, and an Xmas party was held at the Kibitz Inn, which was attended by about 35, and very much enjoyed 5RJ, 5FY and the xyl of 5JB performed on piano and fiddle to the great enjoyment of everyone. The classical selections by 5FY and Helen were much appreciated, and well as the syncopated rhythm for dancing by 5RJ on the piano. Outside of 5BF losing his car keys there were no casualties.

5FL is still working the G's and putting across traffic. 5FY has a 75-meter portable with flea-power in car, and is figuring on adding ten meters to it. 5AN is not heard much lately, so is apparently still enjoying bugs. Sometimes hear him working 5CJ, who is now going great guns with 70 watts to his 807 cathode modulated. When he calls 'em he gets 'em. 5FG has been vacationing in the East, but should be back by now to get his heap perking. 5MQ and 5UZ have not been on much lately, as they are busy with their studies at U. 5UC has been under the weather, but is feeling better now. 5AJ has got a hot sig. on 20 with the Hammond beam, and is working into Europe with good reports. BW has been on occasionally, and we believe he is now using a twin triplex beam. CR is either on or just about ready. DO was in hospital, which will delay him to some extent. DP has built a converter for six and ten. It's perking fine on ten, but not quite lined up on six yet. EE is still struggling with the 814's on ten and twenty. Has 'em partly trained on 75. Haven't heard much of EW but believe he is around. FD is on now and then, and is building another converter which is going to be the cats whiskers. GB has not completed his rig yet. GG is batting away on CW on forty. GR would build a rig if he could keep away from FY long enough to get his ideas jelled. JB is busy with Betatron at the research building. JF is working on six with about 90 watts to an 815, working 5BF also on six with an 832. Neither have made any outside contacts yet, but hopefully waiting for an opening. JF is also blueprinting a 25-tube sooper-doooper receiver which will have everything you ever thought you needed in a receiver. KQ is busy with the Army. LG is busy. MX is heard on CW. OB is on the net and working out fine on ten. RC, what has happened to that six-meter rig of yours.

5AQ and 5BU at Rosetown are heard quite regularly, although AQ is mostly on ten working the dx. 5WG is on 75, and one of the net members is also 5BZ of Zealandia. 5HS of Butchannan (hi) is on the net with 5DI, 5LY, 5LV and 5LU. 5MA was on emergency work when his town of Wadena suffered a bad fire, part of the time slinging water on the fire and part of the time handling messages.

We hear 5GA of Regina Beach and 5FA of Nokomis on 75 once in a while, in fact we hear 5GA on 20 short skip sometimes, and have worked 5LM and 5GU on short skip twenty. EVA down at Morse is on 75, and Fred Ward, 5OP, reports from Moose Jaw that 5FW was injured in a motorcycle accident about a month ago. We all hope that he is progressing favorably. The Moose Jaw Amateur Radio Club, represented by 5OM and 5HB, recorded a program that went on the air over CHAB to demonstrate to the general public how the emergency net works. OM and HB demonstrated amateur procedure in handling traffic when all lines of communication are out. A nice job, boys. JS is now a grandpoo. Watch your over-modulation indicator, Steve. OW, EP, and OM had a nice technical talk on NBFM and other phone modulating systems in the early morning hours. How about some of this at the club, fellows. It would help along fine.

5BJ up at Lac LaRonge is heard occasionally when the QRM lets him get through.

Best wishes for the New Year from the Moose Jaw Club, and that goes for the Saskatoon Club too, and make it a new year's resolution to send monthly reports to the D.R. and the S.C.M. at the end of the month. Put a reminder on the wall in front of your operating position.

73—Gus.

Bliley CRYSTALS

TYPES
AX2-AX3

The only plated
amateur crystal

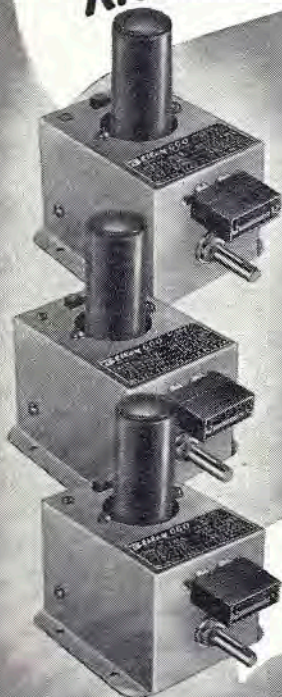
Drift less than
.0002% /°C

Precision
calibrated

Peak
performance



**FOR BEST RESULTS
USE THE
RIGHT COMBINATION!**



CCO-2A

Packaged crystal
control for
2-6-10-11 meters

Efficient VHF
performance
with proven
design

Bliley
CRYSTAL
CONTROLLED OSCILLATORS

BLILEY ELECTRIC CO. • UNION STATION BLDG. • ERIE, PA.
SOLD THROUGH ALL LEADING RADIO DISTRIBUTORS
CANADIAN REPRESENTATIVES

ASTRAL ELECTRIC CO., 56-58 WELLINGTON STREET EAST, TORONTO
C. M. ROBINSON CO., 207 SCOTT BLOCK, WINNIPEG, MANITOBA

Ve6

W. R. Savage, Ve6EO, 329 15th St., N. Lethbridge.

Ex-4GM is now 3BQG. It's been a long time since we heard from you, Bill, and we hope to have an fb QSO soon, so look out for the Ve6 boys. WZ has a lot of trouble trying to keep pencils and paper in the shack; his jr. op. keeps taking them. NA has to QRT from a good fone QSO to go on for CW practice. CI is working on 20 CW with about 30 watts but expects to be on with more power soon and is thinking about a ten-meter beam. EY is on 75 fone and is talking about building preselectors. GK is getting ready to go down east for a visit and come back with a new car. I wonder if it might be a y! he is interested in, as we heard some Ve8 gal is interested in him. GJ is on 75 fone now and is having some trouble. VN is really having troubles with his modulator. He comes on with a nice signal and before he is finished the transmission he is way down in the mud. MP gets an electric blanket for Xmas. Now we know Glen won't be able to work any dx when Maud has it turned on. LZ is busy playing around with a time meter on his rig. OD is very busy riging up a new type of illumination for his transmitter. LQ goes on NBFM to get away from BCI. OD is now working on 20 meter fone and seems to be getting out very nicely. AO is always talking messages and making skeds with ZSIM for yours truly but they never seem to work out. We hear through the grapevine. NW really did the New Year up in good style. JK gets down to brass tacks and sends in envelopes for his cards and I think he was surprised with the ones he received. TT, the Terrible Termite, is looking for a ZL card. Sorry, John, no luck. SR seems to be very busy lately making up four tube converters and he says they work. CD is busy on 80 CW. ZI seems to be very active on 20 fone. PP is heard giving out with some English poetry on 75 fone and doing an fb job of it, too. KU and TA have been doing recordings for the C.B.C. on portable and mobile radio communication. Well, it was a job getting material this month, what with everybody filling themselves with turkey and all the trimmings. This will be rather late, but I wish everyone a very prosperous 1949 with lots of dx and 100% QSO's. Thanks to all of you who have sent in information for this column for the past year, and to those who did not, you have a splendid chance this year, so don't be so scarce, send in some remarks. 73—Ernie.

Ve7

Ernie Savage, Ve7FB, 4553 12th Ave. W., Vancouver

After the raid on 7JB's shack by the executive committee of V.A.R.C., whom he invited, John says o.k., come now and see a shack that's a shack. "To all radio amateurs who provided such a marvellous service for our community during recent times of crisis . . . and to all of you everywhere who have done such noble service in the Fraser Valley and in other parts of Canada, Radio Station CJAV, of Port Alberni, B.C., wishes to extend the compliments of the season and the very best of everything in 1949. May your listening be clear, and your signals strong. (Signed) Chuck Rudd, manager; Tom Rannie, chief announcer." Thanks, CJAV. Bill, who was 7AFC, built himself a new shack and decided to make a new start for '49, so new call Ve7WM, William McCarter. Let's hear you after all this. 7PO, Clarence, sent Ernie his '49 Happy New Year picture, and what a happy new year if you saw that on the TV. 7PH, Doug., is back on from Ferne Ridge, absent over a year. 7VG, George, has been spending some time in hospital but is back on again. 7AOB, Bob, is still building. 7PY, Dave, has aggravated BCI. Is that bad? 7XW, Hedie, who has just finished putting through five new amateurs for V.A.R.C., received from the club a very fb knife and has started on a new batch. Wonder if "Mickey the Kid" will make it this time. 7HJ, the Happy Scot, of Alberni, is back from his trip to Victoria. He met most the gang there and now he no doubt has more ideas. 7HE, Ted, who is like the bears, has gone into hibernation at his mansion on Sproat Lake, except, I bet, to eat up Doris's good cooking. 7KE Ivan is heard on 75 but likes 20 and 40 CW. 7CX, Stan, is heard off and on. 7ACF, Adam, has broken the silence and has been heard on 75 phone. Wonder how we can find out what is doing in that place. 7AMY is heard on 80 CW, having great time. 7XW, Hedie. 7WM, Bill, Don and 7EV, Gordie, and others are attending 7ID, Ralph's night school on TV and it has been said that Smalley's is sold out re that TV gear. East Kootenay is forming a club net, 1800 hrs on 3995 Kc. The purpose is really for pleasure but can operate in cases of emergency (Ve7FL, 7IZ, 7ALV, 7AAV, and of course there will be others). 7ALA, Bob, was in QSO with 7NI, the Blind School, and some of the students

had their first taste of sending CW and hearing their replies come back. Thanks, Bob, for both QSO and QSL. Ve6CG, Barrie, was in town. 7DO, Art, was heard. Who said that the OM was done for? Twenty meters must be out; the 20 hounds are heard on 75 again. Hi ya, 7OT, Marv and 7MQ, Archie. Also the CW gang has gone up to 40. We are still looking for operators for Ve7NI, and there is a sheet posted at R.S.S. for March. How about it? 7TS, Ken, has finished his converting of the U.S.N. job and will be on soon now, that is if he can raise the chesterfield high enough to tuck the power supply under without the xyl noticing it. Last issue I made a mistake again and received a letter from Britannia Beach—7AKB. But no news from there. 7ABQ, Charlie, has one of this walky talkies and we did have fun working him mobile. Come on, gang, there are only four helping us. Just one stinky little card each month. Thanks. That's all. 73—Ernie.

A BOOKLET WORTH GETTING

For those who want the best little booklet in the business covering dope on traffic and emergency operating, by all means write to the A.R.R.L. and ask for their Publication No. 4 of the Radio Amateurs' Library. It won't cost you anything if you're an A.R.R.L. member. Otherwise, send them a dime. In any event, if you're interested in traffic or emergency work, etc., by all means send for this dandy booklet now.—Ve2XR.

HAM-ADS

Copy for Ham-Ads must be received before the tenth of the month preceding issue. Rate is 25 cents per line.

HALLICRAFTER SX28A receiver, as new, with speaker. Lou. Wasser, 1362 Bathurst St., Toronto; KE. 3644.

QSL Cards Printed—1,000 1 colour, \$6.00; 1,000 2 colour, \$8.00. W. J. Wiskin and Co., 105 Princess St., Kingston, Ont.

FOR SALE—HRO 6.3 v. glass tube model, band-spread coils, A1 shape, good noise limiter added, 8" speaker and power supply included. Best offer over \$200. or will make deal for HQ-120 or NC-173. All enquiries answered. M. Wood, Box 3078, Winnipeg, Man. VE4MW.

FOR SALE—New 75 watt modulator, 6SJ7, 6J5, 6F6, PP 807's, 2-VR150's. Quality parts. Less tubes, \$42. F.O.B. Ve3AXB, Cliff Crest Dr., Scarboro Bluffs, Ont.

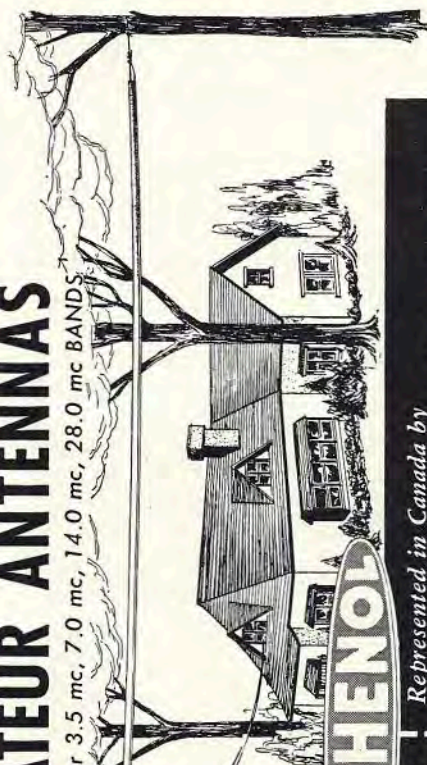
FOR SALE—Assorted ham gear. Tubes, transformers, chokes, xtals, etc. Original value \$160. First offer \$75. takes. E. A. Smith, Stewiacke, N.S.

SELL—Code practice standard portable instructor-graph, nearly new, with ten tapes. Best offer. B. Allard, 10629 Chambord St., Montreal.

QSL's for discriminating hams. Distinctive! Colorful. Highest quality! \$1.50 per 100. Samples 10 cents. Ve3QS Print, 344 Pape Ave., Toronto.

TWIN-LEAD Folded Dipole AMATEUR ANTENNAS

For 3.5 mc, 7.0 mc, 14.0 mc, 28.0 mc BANDS



READY cut to your choice of four bands—a real inexpensive and rugged DX Antenna. The folded dipole antenna section is Amphénol Twin-Lead No. 14-022. Conductors are "copper-clad" steel for strength to withstand wind, ice-loading, etc. The 75 foot lead-in is Amphénol 300 ohm Twin-Lead No. 14-056. It affords a perfect match, and is joined to the antenna with a weatherproof molded polyethylene jacket.

AMERICAN PHENOLIC CORPORATION
1830 SO. 54TH AVENUE • CHICAGO 50, ILLINOIS

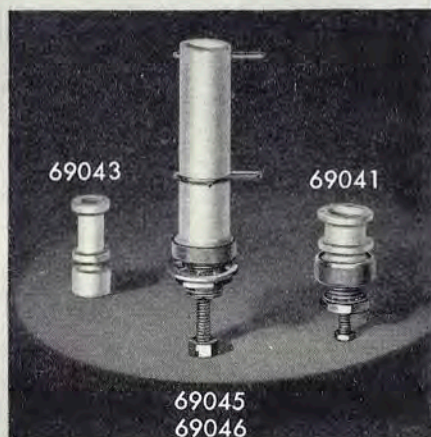
Represented in Canada by

J. R. LONGSTAFFE LTD. • 349 CARLAW AVE., TORONTO, ONT.
GRAS. L. THOMPSON LTD. • 744 W. HASTINGS ST., VANCOUVER, B. C.

Designed for



Application



**The No. 69040 Series
of
PERMEABILITY TUNED
CERAMIC FORMS**

In addition to the popular shielded plug-in permeability tuned forms, 74000 series, the 69040 series of ceramic permeability tuned unshielded forms are available as standard stock items. Winding diameters and lengths of winding space are $\frac{13}{32} \times \frac{7}{32}$, $\frac{1}{4} \times \frac{3}{8}$, and $\frac{1}{2} \times 1\frac{1}{8}$, for the 69041, 69043 and 69045 respectively. Nos. 69043 and 69046 have powdered iron slugs while Nos. 69041 and 69045 have copper slugs.

**JAMES MILLEN
MFG. CO., INC.**

MAIN OFFICE AND FACTORY
**MALDEN
MASSACHUSETTS**



WANTED—R-5/ARN7 Compass Receiver, untouched. Box 138, Three Hills, Alta.

FOR SALE—Millen Exiter 90800. Tubes, coils for 80, 40, 20, 10. \$40.00. Ve3GR J. Staley, 93 Hanna Rd., Leaside, Ont.

FOR SALE—Complete combination 10-20 beam described in January, 1947, QST, has aluminum elements, 100 feet RG8U co-ax with co-ax relay; propellor pitch rotator and transformer; \$50 takes the lot. Write C. L. Skelding, Chateaugay Village, P.Q.

FOR SALE—Hallicrafters SX42 receiver, used 1 year. Will take smaller receiver that can be used with batteries as part payment. No reasonable offer refused. Lionel O'Byrne, Ve5LU, Rowatt, Sask.

STATION FOR SALE—VE-Transmitter described in April, 1947, XTAL (30-watt 10-meter phone job). Also broadband converter described in June, 1947, QST, and 9-tube communications receiver. All in Hammond rack 26 x 19. Complete with mike, ready to operate. Excellent condition. \$200 takes everything. Ve3ATE, 56 Manning, Toronto, AD. 5508.

BARGAIN—1155 receiver, completely converted, excellent condition, with cabinet containing power supply and speaker, only \$100. For details write: C. Gutman, 4415 Esplanade, Montreal.

HAMS—Do you want the best QSL cards? Attractively designed, \$2.00 per 100. Al Pearsall, Ve3BCB, 204 Ranleigh Ave., Toronto.

FOR SALE—One R1155 receiver with power supply and unmounted speaker. Converted to 110 AC 60 cycle. Good condition. \$55. H. M. Dale, Ve7NH, 3304, 34th St., Vernon, B.C.

FOR SALE—Prop Pitch Motors, \$15 each. M.P. 28B 25w 807S Power Modulators, \$10 each. 0-5 Mill-meter L.H. reading for tuning, \$3 each. SCR 274N Modulators (no tubes or dynamotors), \$5 each. VHF Antenna with coaxial fittings, complete, \$3 each. Westmount Electronics Regd., Westmount, Quebec.

FOR SALE—Complete 10-Metre phone transmitter, crystal and VFO. AM and NFM, output stage 65 watts input, 25-cycle power supplies. \$100. or best reasonable offer. Would sell AM modulator separately; will modulate 815 or 829B, \$40. This equipment homebuilt but good commercial appearance. R1154 transmitter, \$10. Miscellaneous tubes, unused, reasonable. VE3XJ, 89 Southvale Drive, Toronto 17, phone HU. 1266.

**JAMES MILLEN MFG. CO.
INC., Products are represented in Canada by**

**ASTRAL ELECTRIC CO.
56 Wellington E., Toronto, Ont.**

WAR SURPLUS TUBES

*2x2	.40	211	5.00
5BP1	3.00	304TH	12.00
5CP1	3.00	801A	1.60
5GP1	3.00	803	8.00
*6AB7	.40	805	5.00
*6AJ7/6AC7	.40	810	5.00
*6AK7/6AG7	.40	*811	1.90
*6AK6	.57	813	11.00
*6C4	.45	814	4.00
12A6	.30	815	2.00
FG27A	5.00	826	1.50
*RK60	.55	837	3.00
955	.65	872A	3.00
956	1.00	884	.65
446A (light house)	2.00	EK1006	.40
2051	.80	E1148	.35
7193	.40	845	3.40
9003	.30	1619	.65
9004	.30	1625	.40
*VR105	.35	*832	2.85
VR150	.35	9006	.30
		830B	4.60

*These types available only while our present stock lasts. Many other types running low.

ORIGINAL REPLACEMENT TYPE TUBES

For R1155 Receiver

Type	Similar To	Your Cost
VR99	6K8G	.49
VR100	6K7G	.49
VR101	6R7G	.49
VR102	6F8G	.49
VI103	Eye Tube	.49

MEISNER

13-7624—13 Channel RF Tuner for Television	38.50
13-7626—Video IF Strip	39.85
13-7625—Audio IF Strip	33.00

TUBES

10BP4—10" Television Tube	46.00
809	5.40
812A	5.45
866A	2.65
2E26	5.20
8005	10.00
1626	2.50
203Z	12.85

OHMITE POWER TAP SWITCHES

Ideal for changing Taps on Transformer Primary.

111-3—Three tap, 150 volt, 10 amp AC	2.70
--------------------------------------	------

212-3—Three tap, 150 volt, 15 amp AC 6.76
 Model 111 Switches can be supplied from 2 to 11 contacts.
 Model 212 Switches can be supplied from 2 to 12 contacts.
 Heavier current types available.

HAMMOND

23621—0.8 Hy Choke for speech clippers	1.35
22067—3.75 Hys Choke for clipper circuits	1.30
23310—Fil Xformer, pri 115V, 25 cycle, sec. 126V 3A C.T., 5V 3A C.T., for fils AC conversion of SCR 522	4.80
22737—Power Xformer, pri 115V, 25 cycle, sec. 115V, 30 MA DC for B supply of C2 freq. meter. CKT supplied	1.70

NATIONAL

SA-4842—A 456 Kc Discriminator Transformer for NBFM. Circuit supplied. See Nov., 1947, QST for descriptive article	6.00
AR-2—High Frequency Coil for 75-220 Mc	2.25
AR-5—High Frequency Coil for 37-110 Mc	1.95
XR-50—Slug Tuned Mica filled form only	1.20
XO5-3—Miniature heavy type Shield for miniature tubes with 2 inch body	.65
MCN Dial—2 $\frac{3}{4}$ " high by 3 $\frac{7}{8}$ " wide	3.60
SCN Dial—4 $\frac{7}{16}$ " high by 6 $\frac{1}{4}$ " wide	4.00
ACN Dial—5" high by 7 $\frac{1}{4}$ " wide	4.40
ICN Dial—5 $\frac{1}{8}$ " high by 7 $\frac{1}{4}$ " wide, similar to ACN but illuminated	8.00
All the above type Dials employ the 5:1 ratio velvet Vernier mechanism, has 0-100 calibration and space for direct calibration to be made.	
NPW-O—Micrometer Dial, similar to that used on HRO Receiver, together with gear box, drive shaft perpendicular to panel	12.00
B—Velvet Vernier Dial	3.60
BM—Velvet Vernier Dial	2.80
N—Dial, ideal for freq. meters, etc.	6.00

QSL Cards, per 100	1.50
Samples on request.	

FREE LOG BOOK WITH EACH \$5.00 ORDER
Be Sure to Ask for Yours — Supply Limited

LEADING WHOLESALE DISTRIBUTORS OF AMATEUR SUPPLIES IN CANADA

CANADIAN ELECTRICAL

SUPPLY CO. LTD.

MONTREAL
 275 Craig St. W. PL. 3421

MI. 2481 TORONTO
 543 Yonge St.

GET
ALL
3

Why be satisfied with less? Insist on radio batteries that give *more* hours of *better* listening at *lower* cost per hour! Three good reasons why value-wise Canadians buy more "Eveready" Radio Batteries than all other brands combined!

"Eveready" is a registered trade-mark of
CANADIAN NATIONAL CARBON COMPANY LIMITED
805 Davenport Road, Toronto 4, Canada

RF548

EVEREADY

TRADE-MARK

RADIO BATTERIES