

nsarc

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March 1984

To

VE3CRK
DAY RALPH
454 HOLCAN AVE.
OSHAWA, ONT.
L1G 5X6

NORTH SHORE AMATEUR RADIO CLUB NEWSLETTER

March 1984

OFFICERS AND EXECUTIVE

President	Bill Sutton	VE3MLW	623-2846
Secretary	Terry Shortt	VE3GTS	579-9730
Treasurer	Mac McFarlane	VE3XI	723-8484
Director	Joe White	VE3IHS	623-4069
Director	Bill Fortune	VE3NTI	986-5656
Registrar	Keith Wyard-Scott	VE3GDF	723-5758
Get-well cards	Ted Erant	VE3ADD	668-3561
Editor	Charlie Bissett	VE3IBO	668-7481
Editor	Neil McAlister	VE3KSF	668-4161

CLUB STATION VE3NSR

CLUB REPEATER VE3OSH 147.72 in
147.12 out

CLUB NETS

2-meter net each and every Thursday at 19:30 local time, on the club repeater, VE3OSH. Net control is Roy, VE3AAF.

10-meter net every Sunday morning at 10:00 local time, on 28.200 MHz, plus or minus beacon.

THE NEXT MEETING

... will be held on Tuesday, March 13th at O'Niel Collegiate in the cafeteria at 19:00 local time.

*attention! * attention! * attention! **

To all recipients of this March '84 newsletter -- PLEASE check your membership card to be sure it is up-to-date, so that this will not be the last issue that you receive! Thanks!

- Ed.

THE PREZ SEZ ...

I regret to report that the "Valentine" Dance was a financial flop. However, the 6 members and the 5 guest couples (22 people) enjoyed a very pleasant evening.

At the Feb. meeting I delegated certain members to fulfil our committment to the Flea Market operation. These delegated members have been advised of this unusual procedure by letter. It appears that this procedure is acceptable, as I have received no complaints from any member selected.

I recently received some input regarding smoking during Club Meetings. In consideration of this feedback, I've arranged for smoking and no smoking areas at the March meeting at O'Neil Collegiate. I hope that this will alleviate some of the inconvenience for those concerned.

Once again, fellows, remember the Flea Market. This is our only means of substantial financial income. So, whether delegated or not, please give your Flea Market committee all the help you can. I would suggest you contact Ralph Day, VE3CRK, at 576-8738, and find out what his requirements are.

See you at the March meeting. 73s de Bill Sutton, VE3MLW

FROM THE DIRECTORS

Just a few encouraging words concerning the Amateur Radio Operators' Advanced Certificate examinations of Feb. 8, 1984. This was under the new TRC 24 regulations dated Oct./83.

Regarding the theory: The questions were in a number of cases the same as for previous exams. [A selection of example questions is listed on another page of this newsletter, to test your knowledge, and also to confirm this impression.]

The code receiving is now marked by the character -- that is, for each incorrect character, you lose one point. Muff a five-letter word, you lose 5 points. The same goes for sending. The material for sending is given by the Department. It was mentioned by the R.I. that if a mistake should occur in sending, and the sender uses an eight-dit error identification, then makes his correction, the correction is accepted and no points are lost.

From here on, the exams will include the diagram and its three-part question, or a two-part question as in the example Number 6, shown elsewhere in this bullettin. So, let us not become down-hearted over the new TRC 24. Keep hard at it, and we will be sure winners.

de VE3IHS, an upcoming candidate

THE 2-METER NET ON VE3OSH

We'd like to start by saying "thank you" ever so much to Roy, VE3AAF, for doing a superlative job on Thursday night nets. Thanx also to Bill, VE3FOF, for his good-natured remarks while filling in for Roy. And we must not forget Bernie, VE3ATI, for excellent code practice sessions, helpful for all concerned,

A member of the executive will be in attendance on Thursday night nets, at the suggestion of Roy, VE3AAF.

THE 10-METER NET

... is alive and well, operating on 28.200 MHz plus or minus beacon on Sunday mornings at 10:00 local time. On Feb. 26, 1984 we heard VE3s LLE, LLZ, MLW, CUI, and IND. There may have been others. 73s es gud operating de VE3IHS Joe White

News flash! On Sunday March 4/84 the 10-meter net was active, with VE3CUI Eddy acting as net control. There were 11 -- count 'em! -- checkins, so it appears that this net is really growing, after all. Nice work, guys. We look forward to publishing great things about this net in future.

FROM OUR "FOREIGN CORRESPONDENT" KA2KNZ

Now that spring is in the offing it's time to look into events that lead to the discovery of several things of interest to amateurs.

Thomas A. Edison, whose winter home and laboratories were in Ft. Myers, made many interesting discoveries regarding lightning and, as you know, these concepts were revolutionary in the late 1800s. In 1883, while searching for an answer to discoloration in his early light bulbs, he discovered an electric current in the vacuum of the bulb. This was the beginning of electronics, since it lead to the vacuum tube and the radio. Two years later, he was granted a patent on a ship-to-shore wireless radio. Remember, this was 100 years ago.

This lead to the development of the nickel-iron and alkaline battery, widely employed for maritime and industrial uses. It was also used by Edison on his own electrically-powered launch, "Reliance", powered by one of his electric motors, where the batteries were tested and developed. It became widely used by the US Coast Guard, replacing kerosene navigation lights on rivers and other bodies of water with battery-powered lights.

More to follow if you're interested ... de KA2KNZ

NOTES FROM TCA MAGAZINE FOR MARCH, 1984

G.R.S. 900 MHz band: Apparently the DDC is working on a proposal for the GRS operators in the 900 MHz band. They propose using two segments of 4 MHz each, between 898 and 902 MHz. This is adjacent to the Amateur allocation of 902-908 MHz. The new Personal Radio Service, PRS, would use FM with 25 KHz channel spacing.

License fees up! By now you know the Amateur Radio License fees have increased by another 50 cents, applicable to the upcoming fiscal year 1984-85. But this could only be the beginning of greater future increases ...

CANADIAN NEWSFRONT

See elsewhere in this newsletter a copy of the CRRL "five year plan" copied from the March 1984 QST magazine.

FROM THE EDITORS DESKS

Yes, folks, we said "desks" because there are now two of us fledglings who will try to keep you up-to-date on happenings in NSARC Inc. VE3IBO, Charlie, and VE3KSP, Neil, are your news-nuts for the time being. Please excuse our ham-fisted typing (no pun intended!) and the dot-matrix printer of our IBM-PC word processing system. A letter-quality printer is soon expected at VE3KSP's work QTH, which should improve appearances somewhat.

Charlie, VE3IBO, has been a licensed amateur since Jan. 1950, and has held several calls since that time: VE3CBL, VE2BAD, and VE3DIZ. He says that he hasn't been as active as he would have liked, but hopes to remedy that in the near future. He's done a lot of home-brewing on equipment, including a receiver from the 1948 handbook -- 6 tubes with plug-in coils, and a 6C4/807 Tx at 15 watts.

Neil, VE3KSP, was licensed in 1978 -- but got his first rig in 1982! (Tsk!) Since then, he's been active mostly on 15 m cw. His interests outside hamming include microcomputers.

Enough about us. Down to business: First off, we solicit items of interest to other hams. Please send your copy either typed or printed in block letters, because it can be "a bit" of a problem deciphering handwriting (as we have discovered from trying to read each other's!), and we would not want to be accused of mis-quoting someone because we couldn't read the manuscript properly.

Please remember that this is YOUR newsletter, and that YOU supply the articles that make it a success. Success is not a one-man (or even a two-man) achievement. If it is important to get something published in a hurry, please send in articles by the end of the month preceeding publication. In that way we'll have a better chance of getting it into the newsletter before meeting night.

REMEMBER THE CLUB MOTTO FOR 1984 ...

Not, What can the Club do for me?
But, What can I do for the Club?

We look forward to hearing from you soon! 73s de VE3IBO es VE3KSP.

Canadian NewsFronts

Conducted By Harry MacLean VE3BRO



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Counsel: B. Robert Benson, Q.C., VE2VW

That Five-Year Plan

There's been a lot of change in CRRL. Four years after incorporation, CRRL is a far cry from the old Canadian Division of ARRL. Now there's a seven-man elected CRRL Board, Canadian training materials, a complete CRRL incoming and outgoing QSL service, a CRRL news service, and a CRRL headquarters office prepared to supply materials and process League memberships in Canadian funds. All this and more has been provided by *volunteers* located in all parts of Canada. We think it's quite an accomplishment.

Now, more changes are on the way. The framework for these changes is contained in what has come to be called the Five-Year Plan. There's nothing secret about this plan. Reference to it has been made in both ARRL and CRRL Board minutes. Let's see what's in the plan.

First year: (1) Replace the term "Canadian Division" with "CRRL" or "Canada" in *QST* and other League publications. (2) Conduct Canadian Section Manager elections entirely within Canada. (3) Begin shipping *QST* to Canada in bulk for placing in the Canadian postal system, to improve delivery. (4) Implement section-level restructuring, modifying it to meet Canadian needs.

Second year: (1) Develop a CRRL affiliated-club program. (2) Change the ARRL bylaws so the CRRL President automatically becomes the ARRL Canadian Director, and the CRRL Vice President automatically becomes the ARRL Canadian Vice Director (at present, the reverse is true); conduct elections for these positions entirely within Canada.

Third year: Have CRRL collect and retain all dues from Canadian members in Canada; CRRL would then purchase *QST* and other services from ARRL.

Second to fourth years: Have CRRL begin to administer nets and emergency-preparedness activities in Canada (NTS would continue on a bi-

national basis, with ARRL and CRRL support).

Fifth year: Eliminate Canada as a "division" of ARRL. One scenario would have the CRRL President sit on the ARRL Board as an observer; the ARRL President would sit on the CRRL Board as an observer. Other scenarios are possible.

Several provisions of this plan have already been implemented. You'll rarely see the term "Canadian Division" in *QST* anymore. The recent election of the Maritimes-Newfoundland Section Manager was conducted entirely in Canada. Most Canadian Section Managers have established good working relationships with their CRRL regional directors and regularly call on the CRRL headquarters office in London, Ontario, for support materials. The new ARES Canada Net is now in operation, and work has begun on a National Emergency Plan. One first-year provision that has not happened is the mailing of *QST* from Canada. CRRL did apply for a Second Class mailing permit, but Canada Post rejected the application and all subsequent appeals. Apparently, this is not because *QST* is published in the U.S.; it's because *QST* is lacking in "scientific content"!

So where would all this leave us in five years? There would certainly be a proper CRRL headquarters office, but not necessarily located in London, Ontario. Members would pay dues to CRRL rather than to ARRL and, first and foremost, be members of CRRL. CRRL membership would continue to include nominal membership in ARRL, and members would continue to receive *QST* and support and share in many ARRL services. These would include the Technical Information Service, insurance programs, WIAW, and printed materials such as operating aids and public information materials. What would be supplied by ARRL Hq. and what would be supplied by CRRL Hq. would depend on what was the most cost-effective way of

delivering a service to CRRL members.

Will all this happen — in five years? That depends on a number of factors. One is the extent to which CRRL must continue to rely on volunteers who now do their League work in the context of commitments to jobs and families. This will begin to change this year. CRRL budgets will provide for one full-time employee (or equivalent in part-time employees) and rental of office and storage space. Another factor is the speed with which CRRL can acquire some assets. CRRL will soon need a proper computer system, some typewriters, a copying machine and more. The most important factor, however, is *you*.

There's a general feeling among Canadian League members that we ought to do more for ourselves and not depend so much on our friends to the south. That's why what's been done so far has met with fairly enthusiastic response. For more changes to happen, that response has to continue. Both CRRL and ARRL will be monitoring CRRL membership reaction to the changes as they are implemented. Whatever develops must represent the wishes of CRRL members.

Some of us hope that all CRRL members will someday share in a dream that some of us now have: for CRRL to acquire some property and set up a real CRRL headquarters, with a couple of offices, some work rooms and a CRRL headquarters station — something that could become a focus for Canadian Amateur Radio just as ARRL Headquarters is the focus for Amateur Radio across North America, and something that Canadian amateurs could visit and be proud to call their own. That would require a leap of faith by many CRRL members, a fund-raising campaign and, likely, a few generous gifts from some individual Canadian amateurs. Perhaps, someday. The Five-Year Plan is a start.

How do you feel about all this? We'd like you to contact your CRRL regional director and let him know. It's your League.

CRRL NEWS

- Don Welling, VE1WF, is new manager of the CRRL Outgoing QSL Bureau. When you use this bureau, be sure to pre-sort your cards in alphanumerical order, include a mailing label from a current *QST* and ship them to the proper address (see above). Don will confirm their arrival via NTS, do the additional sorting and forward them to their destination. Remember: This service is free, but for CRRL members only.
- CRRL is offering a new service for Canadian amateurs seeking licencing in foreign countries. CRRL now has information sheets and licence application forms for over 150 countries, and more are on their way. Many of these countries do not have reciprocal-licencing agreements with Canada, but may still be worth a try. Send inquiries to Naralon Thorn, VE3LRU, at the CRRL headquarters office in London, Ontario.

DOC NEWS

- DOC will hold Amateur Radio examinations across Canada on April 18. If you plan to write, submit an

application before March 21. Other dates for DOC examinations this year are June 20 and October 17.

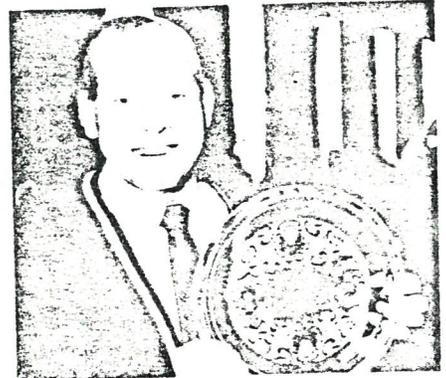
- DOC has informed CRRL of new third-party-traffic and reciprocal-operating agreements with Antigua, V2A. These agreements became effective on November 15.
- Fees for Amateur Radio station licences will be going up, from \$13 to \$13.50 a year, effective this year.

NOTES FROM ALL OVER

- Congratulations to John Henry, VE2VQ, of Alymer, Quebec, who was re-elected to the AMSAT Board of Directors.
- Devere Worrall, VE3AJN, of Kemptville, Ontario, was one of several amateurs named by U.S. Senator

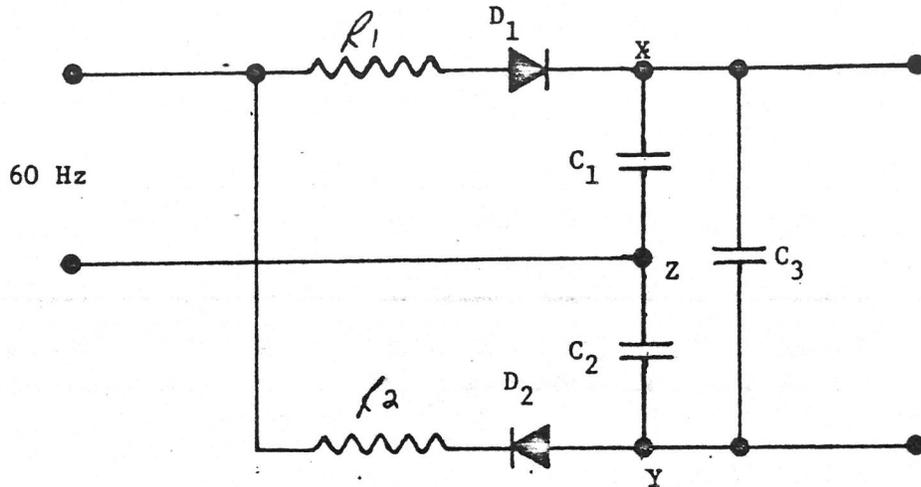
Bill Gillespie, VE6ABC, is 1983 CRRL Amateur of the Year. Bill holds down several League appointments, runs the Alberta Tube Bank and a depot for CRRL books and supplies, and provides on-the-air code practice that has helped hundreds of Western hams get their tickets. — (VE6AW photo) —

Barry Goldwater, K7UGA, in a speech delivered in the U.S. Senate commending Amateur Radio operators for their role in the Grenada intervention. 951



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SAMPLE QUESTIONS FROM "ADVANCED" EXAM —



With reference to the above circuit;

Se reporter au circuit ci-dessus.

(a) describe the circuit action through one full cycle of input voltage.

(a) décrire le comportement du circuit durant un cycle complet de la tension d'entrée.

(b) in relation to the input voltage, what would be the voltage between points Y and Z?

(b) quelle serait la tension entre les points Y et Z par rapport à la tension d'entrée?

(c) what would be the voltage polarity at X with respect to Y.

(c) quelle serait la polarité de la tension au point X par rapport au point Y?

6. (a) Why is it desirable to impress the modulation on a low frequency stage of a FM transmitter?

6. a) Pourquoi est-il souhaitable d'appliquer la modulation sur un étage à basse fréquence d'un émetteur FM?

(b) How is it possible to amplify an FM signal using Class C amplifiers without introducing distortion?

b) Comment est-il possible d'amplifier un signal FM à l'aide d'amplificateurs de classe C sans introduire de distorsion?
