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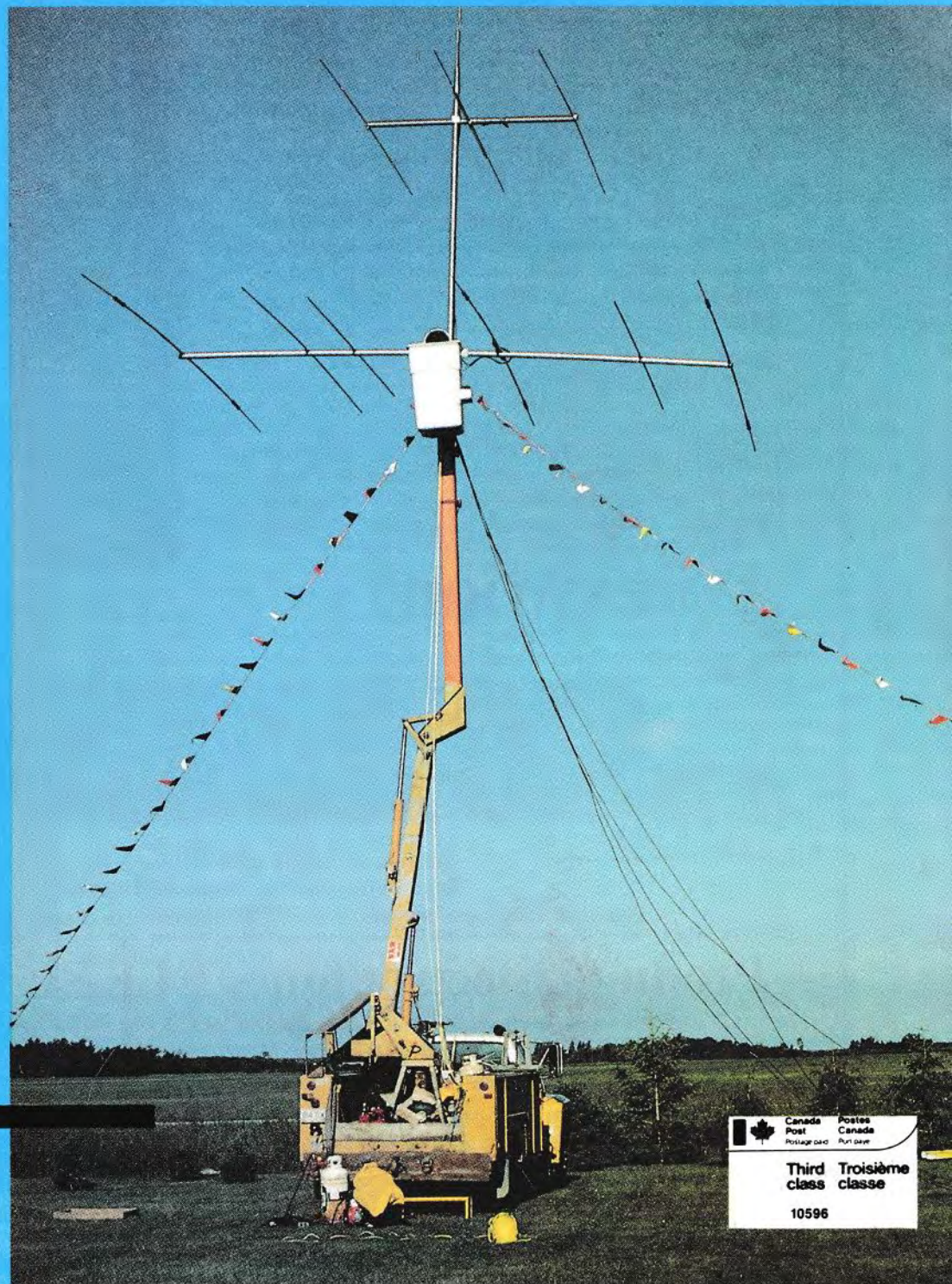
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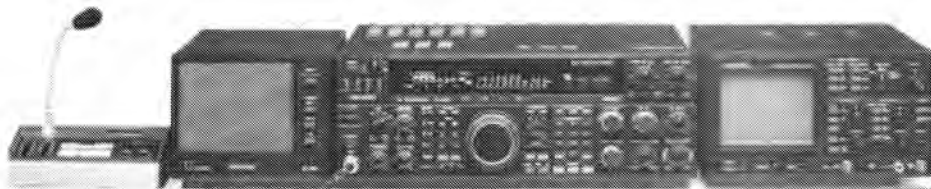
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ABOUT THE COVER



Bet you didn't have a nice tower like this for this year's Field Day. Bruce Johnson, VE4KQ and the group pressed a cherry picker into service to support a Classic 36 tribander and a Telrex 10-metre beam—along with a Telrex 6-metre beam and a Ringo Ranger that didn't quite make it into the picture. (VE4KQ photo) ■

It Seems to Us.../Il nous semble...

Operating for the Newcomer

With all the new calls being heard on the air these days, there's no doubt that Canada's restructured licensing policy has been a roaring success—at least if numbers are the criteria. But some old-timers have been grumbling about the quality of the new operators in our midst.

Is this just a case of old fuddy-duddies clinging to the past, or could there really be something to their ruminations? Are today's breed of amateurs up to the mark? Do they meet the lofty standards—real or imagined—of their predecessors?

Not easy questions to answer! We do need to remember that Amateur Radio has never been unchanging and immutable. From the very beginning, it responded to innovative developments in a flexible way—from the early days when experimenters took to the airwaves with no licensing to a highly regulated licensing structure to today's no-code exam. And just as there have been changes in the way that amateurs have come to be, there have been changes in the way that amateurs communicate and get to know each other.

But the purpose of this discussion is not to answer the unanswerable—are today's amateurs as good as yesterday's? (Is Wayne Gretzky as good as Howie Morenz?) Rather, we'll try to point out some of the things now being heard on the air and explain how newcomers can sound more like radio amateurs.

It is obvious that many newcomers the Amateur Radio bands have come from what we in Canada call the General Radio Service—Citizen's Band or CB. The explosive growth of CB in the 1960s and 70s brought with it a terminology and language all its own. Some of it resembled what was heard on the amateur bands, but much of it quite different. Many of today's new amateurs had their first exposure to two-way radio on CB, and they learned much if not all of their radio procedure there. Understandably, some of that procedure and some of that terminology and language now appears on the amateur bands. And this is what is bothering the old-timers.

The old-timers feel, not without some justification, that CB grew into something less than originally intended. With the growth of CB came a lot of unfavourable publicity. Unfortunately, in the minds of the public, the distinction between CB and Amateur Radio was blurred. As a result, when people confused CB and Amateur Radio—it happened all the time—Amateur Radio suffered. The old-timers simply want to restore the distinction between Amateur Radio and CB. Using Amateur Radio language can help.

So what are some of the things being said on the air that now raise the old-timers' hackles and label some operators as refugees from the CB band? Here are some examples:

"The personal here is....": A definite carry-over from CB. Amateurs would say, "The name here is....," or "My handle is...."

"You're pushing S-9," or *"You're giving me S-9."*: Another no-no. The amateur way is, "Your signal is S-9," or even, "You're S-9."

"My numbers are....": A dead giveaway. Amateur don't have numbers. They have call signs.

"I have a good copy," or *"Do you have a good copy?"*: Generally, amateurs use "copy" as a verb, not a noun, as in "I copy you OK," or "Do you copy?"

"Back to you." (at the end of a transmission): Amateurs usually say "over". On repeater systems, it's not even necessary to say that. Many repeaters have a beeper sound to signify the end of a transmission. The beep is used by many operators as the "over" signal.

"Come on.": A variation of "back to you" and a dead giveaway. Use "over".

"What is your A-D?" or *"My A-D is...."*: "A-D" is the CB abbreviation for "address". Amateurs speak about their "location" or their "QTH".

"Threes to you," or *"I'll pass along the good numbers."*: Amateurs simply use the old telegrapher's term, "73" at the end of a contact. It means "Best regards."

There are probably other CB terms in use on the amateur bands, terms I haven't heard yet. It behooves all of us who have been around for a while to gently point out the differences in terminology. Amateur Radio is built on a great tradition of courtesy and consideration to all who use the frequencies. Continuing Amateur Radio traditions will ensure new operators a place beside the old-timers. —Jack Columbus, VE1XT, Sydney River, NS

IT'S RAC!

This was the last page we typeset and we've got a bit of room, so we'll tell you here! CRRL and CARF are pleased to announce that the name of the new, single national Amateur Radio organization for Canada will be *Radio Amateurs of Canada* (*Radioamateurs du Canada*) or RAC. CARF and CRRL are co-sponsors of RAC and are working towards merging the assets and services of CRRL and CARF into RAC in the near future. —Harry MacLean, VE3GRO ■

All letters are considered carefully. Letters are edited for clarity and may be condensed in order to have more information and readers' views presented. The publishers of *QST Canada* assume no responsibility for statements made by correspondents.

STERBA CURTAINS

I read the antenna article in May *QST Canada* and I wanted to share my experience with Sterba Curtains. During a warm spell last December, I put up a six-element Sterba for 10 metres. It was about 50 feet high and oriented to radiate east and west. It worked so well that I expanded it to ten elements. Then I began thinking about the ARRL CW DX Contest in February. I built another Sterba, six elements, and oriented it to radiate north and south.

These antennas are killers! Not only are they band-openers on 10, but they also work on 12 metres—even though the pat-

terns aren't "textbook" on 12. They have all the advantages of cubical quads. They have lots of capture area and they are nearly impervious to snow static. We get lots of that here in Connecticut.

In the contest, I made more than 1200 contacts for a third-place finish in the single-band 10-metre category. The two stations that beat me used large stacked-yagi systems—nothing like my "hundred dollar special"! I had a higher contact total than most of the multi-transmitter stations in the contest, and I didn't even run the legal limit—just a single 3-500Z.

The Sterbas hear things that just aren't

there on my Butternut vertical. Now to get enough height to enlarge my Sterbas so they'll be ready for 15 metres and the next contest season! —*Jim Cain, KITN, Senior Editor, QST*

Calendar



Attention: Deadline for items is the 20th of the second month preceding month of publication. For example, information should reach *QST Canada* by January 20 to be included in a March issue.

Boissevain, MB: 28th Annual Hamfest, July 12–14 at the International Peace Gardens on the Manitoba/North Dakota border. Camping, amateur and non-amateur activities, fleamarket and dance. For more information, contact David Snydal, VE4XN, 25 Queens Cr, Brandon, MB R7B 1G1, Tel (204) 728-2463.

Brantford, ON: Annual Fleamarket, August 17 at Woodman Park Community Centre, 419 Grey St. Sponsored by Brantford ARC. Door prizes, refreshments, auction sale. Opens at 0800, 0700 for vendors. Admission \$3, children under 12 free. Tables \$4. Talk-in on VE3TCR, 147.15 MHz (+) and 443.025 MHz (+), and on 146.52-MHz simplex. For more information, telephone Doug Dreier at (519) 426-3905, or write to Eric Levison, VE3DSL, 37 Magnolia Dr, Paris, ON N3L 3M9.

Charlottetown, PEI: Annual Fleamarket, July 13, at Cornwall United Church Hall. Cornwall is about five miles west of Charlottetown on the Trans-Canada Highway. Sponsored by Charlottetown ARC (CARC). Opens 0900. For more information, contact Bill Sargent, CARC, Box 2056, Charlottetown, PEI C1A 7N7.

Gander, NF: VO Amateur Convention, July 13–14. Sponsored by Amateur Radio Club of Newfoundland (ARCON). Seminars on digital modes, repeaters and linking, net operation, ARES, RFI, current issues. Commercial exhibits, banquet. For more information, contact Mac Moss, VO1AT, 52 Raynham Ave, Gander, NF A1V 2N2.

Glacier-Waterton Park, MT: Annual Glacier-Waterton Hamfest, July 19–20, at Three Forks Campground, 10 miles east of Essex, MT, 16 miles west of East Glacier, MT. Sponsored by Calgary ARA (CARA). Friday night pot luck, Saturday dinner, Sunday breakfast. QCWA meet, CW contest, swap 'n shop, transmitter hunt. For more information, contact CARA, Box 592, Calgary, AB T2P 2J2.

Milton, ON: 17th Ontario Hamfest, July 6, at Milton Fairgrounds. Sponsored by Burlington ARC. Fleamarket, contest, displays, food, drink, camping. Opens at 0900. Admission \$5. Fleamarket sites free. For more information, contact Fergus Kyle, VE3LVO, 3037 South Dr, Burlington, ON L7N 3H1, Tel (416) 634-4156.

Prince Albert, SK: 1991 Saskatchewan Hamfest, July 19–20. Sponsored by Northern Saskatchewan ARC. Fleamarket; transmitter hunts; CW, photo and QSL card contests; meetings; XYL program and more. Register early. For more information, contact Gordon Chappell, VE5JH, nightly on 3.753-MHz, 761–4th St East, Prince Albert, SK S6V 0K4.

Sud de Québec, PQ: Association Radio Expérimentale du Sud de Québec Hamfest 1991, à l'Aréna, St-Romuald, et le Parc Champigny, St-Jean Chrysostome. Marché aux puces, exposants commerciaux, kiosques d'information, lancement ballon avec émetteur balaise 144,34 mHz, chasse à l'émmeteur, déjeuner, activités régulières de FESTIVENT 91. Ouverture 09h00, 06h00 pour exposants. Inscription pour la journée 5\$. Espace 10\$. Envoyez à Hamfest 91, CP 35, St-Jean Chrysostome, PQ G6Z 2L3, ou HAMFES @ VE2SJC.PQ.CAN.NA.

The Canadian Radio Relay League, Inc La Ligue Canadienne de la Radio Amateur, Inc



The Canadian Radio Relay League (CRRL) is a noncommercial association of radio amateurs organized for the promotion of Amateur Radio communications and experimentation, for the establishment of networks to provide communications in the event of disasters or other emergencies, for the advancement of the radio art and the public welfare, for the representation of radio amateurs in legislative and other matters, and for the maintenance of fraternalism and a high standard of conduct.

CRRL is incorporated under the Canada Corporations Act. Its affairs are governed by a seven-member Board of Directors elected every two years by the CRRL general membership. CRRL is noncommercial, and no one who could gain financially by the shaping of its affairs is eligible for membership on its Board.

CRRL is the Canadian member-society of the International Amateur Radio Union (IARU). "Of, by and for the Canadian Radio Amateur", CRRL numbers within its ranks the vast majority of active amateurs in the nation and has a proud history of achievement in amateur affairs.

A bona fide interest in Amateur Radio is the only essential requirement for membership. An Amateur Radio licence is not required, although full voting membership is granted only to licensed amateurs in Canada.

Membership inquiries and general correspondence should be directed to CRRL Headquarters, Box 56, Arva, ON N0M 1C0 Tel (519) 660-1200.

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*Voting member, CRRL Board of Directors

How to Win a Contest

The voice of experience...

By Dave Woodhouse, VE3BI
96 Division St
Guelph, ON N1H 1R6

Here are some thoughts on radio contests. They represent my experiences over 18 years of Amateur Radio. I really feel that these notes can help you have a better contest score and they will certainly help you get more satisfaction from contesting.

Be realistic!

What results can you expect? You are about to enter your first CW contest and your code speed is a shaky 13 wpm. You are going to have a tough time down at the bottom end of 20 meters at midnight on Saturday night. You might have a better chance at the top end of the CW portion on 15 meters. If you are running a barefoot transceiver with no extra IF or audio filters into a dipole at 15 feet, you are not going to have one of the BIG GUN signals on the band unless your call is VKØBI. A rare call is always worth at least four S-units.

Remember, there are lots of ways to win a contest. You can win the contest outright, or you can beat all the guys in your category, beat all the other VEs or the just other VE3s, beat the other guys in the club or just get your call in QST. Next year, you can always beat your previous score.

What can you really do? There used to be something called sprint contests. These were four- or eight-hour contests that required a fairly small commitment of time and effort. Sprint contests are not popular anymore. Contests are now at least 24 hours long and some are longer. If you cannot be ready to go at 8 p.m. on Friday night and you cannot go until Sunday afternoon at 4 p.m. with about four hours off, you will have problems being competitive. Maybe you cannot win the contest, but you will not be surprised when you don't.

One word of caution. If you enter a contest, send in a log. This is absolutely imperative, even if you only make 50 or 100 contacts. When contest organizers check the logs of all the entrants, they do cross-checks. If they reduce an entrant's score by more than 10%, the entrant is disqualified. If your log is not in there, contest organizers cannot verify a contact with you, and you've just added to another entrant's chances of getting all of his or her efforts thrown out. You don't want to do that.

Be prepared!

Find out about the contest. Know exactly what the contest period is. How much of the contest period are you

allowed to operate? Can you work all bands, all modes? Are multioperator stations allowed? Are there categories for all-band stations and single-band stations?

If time permits, write the contest sponsor and get a copy of the rules directly from them. Read those rules carefully. Make sure you know which stations you can work for points and which stations are a waste of time. Can you work the same station on each band, or can you only work the station once for points? Learn the exchange. For North American stations, the exchange may well be different than for DX. If you have a good idea of what is coming, it is much easier to pick it out of the QRM. If you aren't sure where SCV or NLI is, you are going to have problems getting the station to clarify. Learn the abbreviations that testers use. On CW, only the new kids on the block send zeros as five dashes.

Find out about the competition. Most major contests will publish the results of the previous year's contest as advertisement for the current year's event. Read over the results and comments. Find out how many contacts the winner made last year, how many contacts the best VE made, and so on. Set yourself a goal. If you don't know where you are headed, how will you know if you get there?

Find out where the hot spots are. Except for band-specific contests (e.g. the 160-Meter or 10-Meter contests), a review of the results will give you an idea (if there are single-band categories) about what bands are most productive. If you have a good signal on the most popular

Contesting sharpens operating skills...



band for a specific contest, you are well on your way to having some extra fun.

Do some planning. Once you know where the hot spots are, take a look at the propagation reports and plan your activity for the contest period. It is better to change bands just before a band goes dead than to waste a half an hour learning that the band has folded.

So now what do I do?

Are you a BIG GUN? If you have a really good station, a transceiver with a really good receiver, the ability to work split, a beam, a good amplifier that will run for 36 hours or so at full power, then maybe you can be a "big gun". If you are a big gun, you can work your way into a quiet spot on the band and call "CQ contest" and stations will pile up to work you.... No, they won't! If you can handle a pileup, if you get the calls and exchanges right the first time and if you are quick, they'll wear you down by keeping you busy all night. There will be times when you have to impose your will on the pileup. (But it really is exciting to tell the JA3s to wait until you finish working 20 JA2s!)

So you're not a BIG GUN. Most of us are not equipped to have everybody call us all night long. How do you use time effectively? Start at the top or bottom of the band and call the first contest station you hear. Work it and continue on up or down the band working every station you hear. If you don't get a certain station after two or three calls, leave that station. The operator will hear you better when you are one of four stations calling as opposed to one of 40. Remember that you are not a big gun. If you happen to find a relatively quiet spot, call CQ. If you are lucky, you will get a call and you may be able to work a string of 10 or 20 stations in a row. Of course, sooner or later, a big gun will camp on top of you and start blasting away. There is no way you can prevent this. Telling the big gun that you have been on the frequency for 15 minutes will only waste time. If he is still there after two or three minutes, give up and move on. Go back to calling stations as you work your way up the band. When you have worked to the extreme end of the band, go back to where you started and do it all over again.

In DXing, you probably spend 90% of your time listening, and 10% transmitting. In a contest, that ratio becomes 50/50 if you are just one of the pack, and maybe

60/40 or higher if you are a big gun. Remember that you only get points for QSOs, not for flawless operating procedure. I am not advocating dog-eat-dog practices, but there is no Mr- or Ms-Congeniality Award out there either.

Keeping track...

Of course you will need a log to keep track of all the contacts you make, but you have to have to keep a *dupe sheet* as well. Nothing wastes more time or adds more to the QRM than trying to work someone you have already worked. If he has a good dupe sheet, he won't answer you. You keep calling him and he keeps ignoring you. You think he's a terrible operator and he thinks you don't have a dupe sheet.

There are lots of computer logging programs that will alert you to dupes. If you have a computer and want to work a contest, get one of these programs. They will also save you a lot of time after the contest, as you prepare your log to send to the organizers of the contest. However, if you use a logging program, take some time to practice with it before the actual contest. The heat of the battle is no time to have to find out which function key you need to press to change bands.

Conclusion

To wrap it up, let me recap. Be realistic. Be honest about what results you can achieve, about how much time you can give to the contest. Be prepared. Know the times, the rules, the exchange. Have a plan as to what band you will operate when. Plan your operation based on the kind of station you have and your level of experience. If possible, use a computer to log, and always, always, submit a log, even for only a few contacts. I have seen 157 contacts win the VE3 sector of a contest. Have lots of fun. Contesting sharpens your overall operating skills and gives you a great deal of satisfaction. But be aware that contesting is addictive. You run the risk of becoming a contest junkie. 73 and "QRZ contest!" ■

Ham-Ads

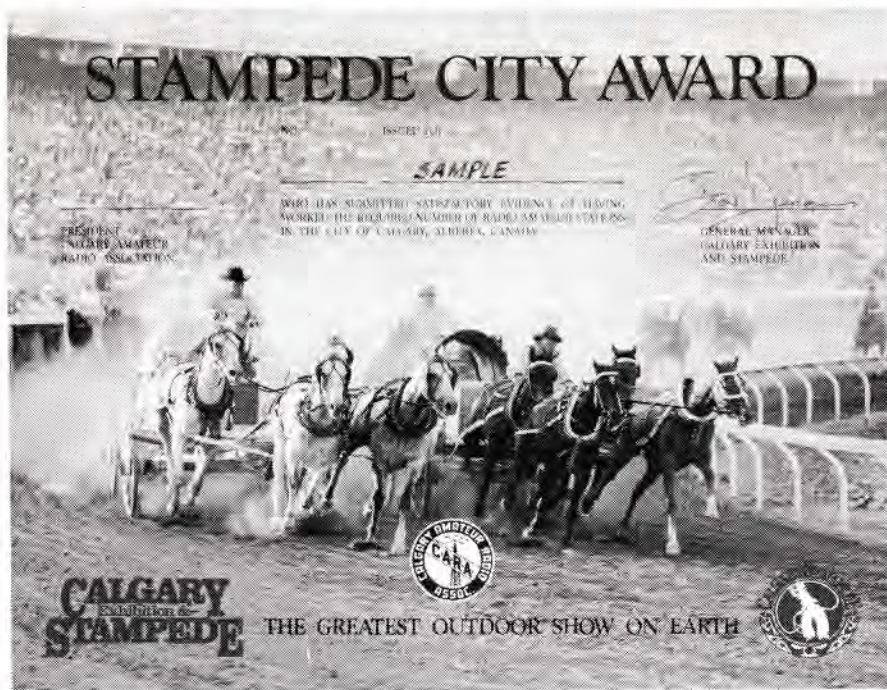


Advertisements must pertain to Amateur Radio. For individuals or firms offering products or services for sale, the rate is \$0.50 a word. This is reduced to \$0.25 per word for those seeking to dispose of or acquire personal station equipment. Telephone numbers count as one word. No charge for postal codes. Unless specified, a Ham-Ad will appear in the next available issue of *QST Canada*. Send Ham-Ads to CRRL, Box 7009, Station E, London, ON N5Y 4J9.

UNWANTED: Unwanted ancient modulation (AM) equipment and components welcomed here. Eddy Swynar, VE3CUI, 3773 Concession Road 3, R R 8, Newcastle, ON L1B 1L9.

FOR SALE: Eimac 8877 (3CX1500A7) linear amplifier tube. New—NEVER USED. \$500. Larry Horlick, VE8HL, Box 1082, Iqaluit, NT X0A 0H0, Tel (819) 979-6981.

Calgary "Stampede City Award"



Here are the rules for the new-design Stampede City Award, sponsored by Calgary Amateur Radio Association (CARA): To qualify for this award, obtain ten (10) points by contacting Calgary amateurs on any band, using any mode, after 1962 January 1. Only log information is required—do not send QSLs. Available to SWLs. VE6s can qualify by operating from outside of Alberta.

Contacts with the following club stations, VE6AO and VE6NQ, and the following Life Members of CARA, VE6AP, VE6GQ, VE6HE, VE6MX, VE6RH, VE6RQ, VE6SA, VE6VK, VE6VO, VE7DE and VE7OK, each count for two (2) points towards the award. All other Calgary stations count for one (1) point. Cost of the award: \$3 (\$3 US outside of Canada). Send applications to CARA Award Manager Russ Wilson, VE6VK, 1235 Richland Rd NE, Calgary, AB T2E 5M5 Canada. ■

Update: Defence of Amateur Radio Fund

The Defence of Amateur Radio Fund (DARF) was established to help IARU defend our amateur frequencies at WARC-92. DARF thanks the following who recently made donations: *Clubs:* Mississauga Amateur Radio Club, and Hat Ham (Alberta) Amateur Radio Club. *Individuals:* Allan McRae, VE3NLU; Neil Tomlinson, VE7COP; James Flintoff, VE3BFF; Gerald Shand, VE6BLI; H R Coliss, VE7HRC; Frank and Diane Vanderzande, VE7AU and VE7XYL; Ted Bodman, VE3CD; Bob Benson, QC, VE2VW; David Mitchell, VE2PEI; Neil Nikkenen and Nora Hague, VE2CI and VE2HAX; David Lang, VE2KDL; Howard Rosen, VE2AED; Malcom McDougal, SWL; Ross Malcom, VE2NEA; Don Sipes, VE6DLS; John Patterson, VE4ADU; Ray Williamson, KC4VXU; Clare Fowler, VE3NPC; and K Goodings. As of 1991 June 15, the fund stood at \$16,854.08. If you have not yet contributed, please mail your cheque to DARF, c/o Tim Ellam, VE6SH, 107 Strathern Rise SW, Calgary, AB T3H 1R5. ■

WARC-92 Program Available

WARC-92 will be held in Malaga-Torremolinos, Spain, next February 3–March 5. While Amateur Radio is not on the official agenda, Amateur Radio will be affected by many of the decisions made at this important conference. IARU, the International Amateur Radio Union, will be there. Want to learn more? Need a program idea for your next club meeting? CRRL International Affairs Vice President George Spencer, VE3AGS, and Bruce St George, VE5ZN, have produced a slide show—complete with script on cassette tape—about WARC-92. The slide show explains the role of ITU and tells how frequency allocations are made. It also explains the role of IARU at past WARC and at WARC-92. You can borrow this slide show without charge. Just contact your nearest CRRL director (list appears on page 2 of this *QST Canada*), VE3AGS or VE5ZN. ■

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Two Important Meetings

□ The CRRL Board of Directors met in Rexdale, Ontario, on May 31–June 1. At this meeting, the CRRL Board passed motions 1) reaffirming its commitment to the creation of a new, single, Canadian Amateur Radio organization, 2) reinstating *QST Canada* for Life Members (this reversed an earlier decision to have Life Members pay \$12 a year for *QST Canada*), and 3) recommending that CRRL Past President/IARU Region 2 Secretary Tom Atkins, VE3CDM, serve as Amateur Radio representative with the official DOC delegation to WARC-92. This meeting was followed by a joint meeting of the CRRL and CARF boards of directors on June 2.

□ The CRRL and CARF boards of directors met in joint session in Cobourg, Ontario, on Sunday, June 2. The meeting was cordial, and considerable progress was made towards the creation of a new, single, Canadian Amateur Radio organization. The joint boards 1) accepted in principle the new Constitution and By-laws prepared by the CRRL-CARF Merger Committee, 2) accepted the reports of the Legal, Administrative and Publications subcommittees, 3) agreed to eventually locate the headquarters of the new organization in the National Capital Region, and 4) agreed to supply members of the new organization with *The Canadian Amateur* magazine, which would include features now found in *QST Canada*. The CRRL and CARF boards of directors also approved a name and the basic design of a logo for the new organization. These will be released to the Canadian Amateur Radio community after title search and registration.

ACROSS THE COUNTRY

□ In its First Draft Proposals for WARC-92, DOC has suggested that 1427–1515 MHz be reallocated to the fixed and broadcasting services. The fixed service would primarily be subscriber radio systems (SRS) that would provide communications in rural areas where conventional telephone service is not available. The broadcasting service would primarily be digital audio broadcasting (DAB) which is expected to replace conventional AM and FM broadcasting within 30 years. If this proposal is adopted, other spectrum will have to be found to accommodate the aeronautical flight test telemetry which currently uses the 1427–1515-MHz band. Amateur bands could become targets.

□ Canada's Amateur Radio population is up. As of May 15, DOC had issued licenses for 29,370 Amateur Radio sta-



Yes, folks, there really is a CRRL Headquarters. It occupies 1000 square feet of space in a plaza on the northwest corner of Highway 4 (Richmond Street) and Concession 7 (Medway Road) in Arva, two miles north of London, Ontario. Ray Staines, VE3ZJ, is General Manager.

tions. Of course, this includes licenses for many club and repeater stations. Actual number of radio amateurs in Canada is likely around 25,000.

□ How many radio stations are there in Canada? According to DOC figures for 1989–90, there are 114,624 land, 691,242 mobile, 16,829 aircraft, 49,836 ship, 205 coast, 1923 earth, 4 space, 25,227 amateur and 301,791 GRS, for a total of 1,201,681. Yes, it's getting crowded out there. That's why everyone is asking for more RF spectrum.

□ Sinclair Radio Lab has announced that Bob Weir, VE3WY, is replacing George Sinclair as Chairman of Sinclair's Board of Directors. Sinclair Radio Labs is well known for its antenna product. It recently entered the Amateur Radio market with a new line of VHF-UHF transverters.

□ Kenwood Electronics Canada is relocating to larger premises. New address for Kenwood Electronics is 6070 Kestral Road, Mississauga, Ontario, L5T 1S8. Telephone numbers are (416) 670-7211, Fax (416) 670-7248.

□ A Solar-Terrestrial Predictions Workshop will be held in Ottawa next year on May 18–22. This workshop will be of interest to anyone who uses solar and geomagnetic data to predict radio propagation. At least one radio amateur, Richard Miller, VE3CIE, will be presenting a paper. Richard is the author of several articles in *QST* and *QST Canada*. He is also responsible for the survey form that

appeared in June *QST Canada*. Please help Richard by completing this form and forwarding it to him. For more information on the workshop itself, contact Dr. Richard Coles, Geophysics Division, Geological Survey of Canada, 1 Observatoire Cr., Ottawa, Ontario K1A 0Y3.

SOUTH OF THE BORDER

□ US amateurs will be vacating 220–222 MHz at 2400 UTC on August 27. (Two side notes: FCC has closed the floodgates after receiving more than 50,000 applications for land mobile assignments in the 220–222-MHz range. US amateurs will say good-bye to 220–222 MHz with a special operating event; see the note below.) To offset the loss, ARRL is petitioning the FCC for a shared frequency assignment at 216–220 MHz for "present and future wideband data intercity links and other point-to-point fixed amateur stations...". 216–220 MHz, just above television channel 13, is used in coastal areas and along major waterways ship-to-ship and ship-to-shore communications. ARRL believes that in many parts of the US, 216–220 MHz could be shared with the Amateur Service on a secondary non-interference basis.

□ What was the US FCC up to when they visited Amateur Radio stations, asked owners to make a contact, and then to drop power and see if contact could be maintained? As it turns out, nothing especially sinister. FCC simply wanted to

demonstrate that most US amateurs do not operate at minimum power as required by FCC rules. Other findings: Operating at 100 watts or less can result in interference, and that in most cases, simply reducing transmitter power does not alleviate interference.

□ The US Air Force has scrapped its plans for an "American Woodpecker"—a backscatter over-the-horizon radar that was to have been used to give early warning of bomber attacks on the continental US. Apparently, the radar is a casualty of the end of the Cold War. The decision to scrap the radar should help alleviate fears of additional QRM to HF Amateur Radio communications.

□ *The Radio Amateur's Callbook*—an Amateur Radio tradition for over 70 years—has been sold to BPI Communications of New York. Office of the *Callbook* will be moving from Lake Bluff, Illinois, to Lakewood, New Jersey. Few changes are expected. Even though Herb Nelson, W9IGL, is not likely to be associated with the new *Callbook*, BPI Communications, which also produces *The World Radio-TV Handbook* for short-wave listeners, intends to continue the practices that Herb and his staff have used to make the *Callbook* the most accurate and up-to-date listing of radio amateurs in the world.

INTERNATIONAL NOTES

□ Amateur Radio lost a good friend in the person of Rajiv Gandhi, the former prime minister of India who was assassinated on May 22. First licensed in 1975, Gandhi's call was VU2RG. His wife, Sonia Gandhi, is also a radio amateur. Her call is VU2SON. According to the Amateur Radio Society of India, the Gandhis had "one of the most sophisticated Amateur Radio stations in the country". Gandhi was also manager of India's first 2-metre repeater, VU2RRG, which still operates from New Delhi where the Gandhis lived.

□ As a means of bringing newcomers

into Amateur Radio, RSGB, the Radio Society of Great Britain, has designated 1991 as "The Year of the Novice". There are two British Novice-class licences. The Novice B is like our Amateur Certificate with the Basic qualification: no-code with privileges on bands above 30 MHz. Novice A requires Morse code at 5 wpm and gives limited privileges on the bands below 30 MHz.

□ Japan's Ham Fair '91 will be held in Tokyo on August 23-25. This is the world's largest Amateur Radio gathering—even larger than the annual Dayton Hamvention®.

NOTES FROM ALL OVER

□ ARRL is calling for papers for its 1991 Educational Workshop. Topics include all aspects of Amateur Radio recruiting: school programs; how to target seniors, engineers, women; how to get media publicity, how to teach Amateur Radio. For more information, write to ARRL AED, 225 Main St., Newington, Connecticut, 06111.

□ The Eastern VHF/UHF Society has scheduled an operating event for August 27, the last day that US amateurs can use the 220-222-MHz portion of their 220-225-MHz (135-centimetre) band. This event, called the 220 QSY QSO Party, is patterned after the ARRL "sprint" contests. Phase A will take place on August 27, 2200-2400 UTC, during which the entire 220-225-MHz band will be used. Phase B will take place on August 28, 0000-0400 during which only the 222-225-MHz portion will be used. Complete rules will appear in August *QST*. A special note to Canadian amateurs: The changes in the US do not affect us. We are still AMATEUR exclusive, the entire 220-225-MHz (135-centimetre) band.

□ ARRL's DXCC countries list will soon grow to 323 with the addition of the Penguin Islands (ZS1). The Penguins, a group of thirteen islands just off the coast of Namibia, are claimed by South Africa.

QSL cards for DXCC credit for the Penguin Islands may be submitted to ARRL Headquarters on or after September 1. Cards received before that date will be returned without credit. There have been two recent operations for the Penguin Islands: DL8CM/ZS1 and ZS9AAA/1 last July, and ZS9Z/1 last December.

□ Japan Amateur Radio League has announced that the CW portion of the 1991 All Asian DX Contest was held on June 15-16 instead of in August (the word was sent to us late), and that the phone portion of the All Asian DX Contest will be held on September 7-8 instead of in June.

□ A reminder that the CQ VHF Prefix Contest, scheduled for the weekend of July 12, was cancelled. *CQ Magazine* was unable to find a volunteer administrator for this event.

□ We end this month's column on a sad note: On May 4, Henry Lounsbury, VE3WHT, of Maidstone, Ontario, was electrocuted while attempting to put up an Amateur Radio antenna that had come down in a windstorm. He was found by his wife who immediately called an ambulance and had him taken to hospital. He was pronounced dead on arrival. According to an Ontario Hydro safety bulletin, the antenna had come into contact with a 4.8 kilovolt rural feeder line. The incident underscores the need to be safety-conscious when doing antenna work. Sometimes you don't get a second chance. ■

MOVING?

For uninterrupted delivery of *QST* and/or *QST Canada*, please send your change of address notice to CRRL, Box 56, Arva, ON N0M 1C0 eight weeks before you move. Quote your callsign or the seven-digit number from your mailing label. Thanks for helping us give you the best possible service.—Ray Staines, VE3ZJ ■



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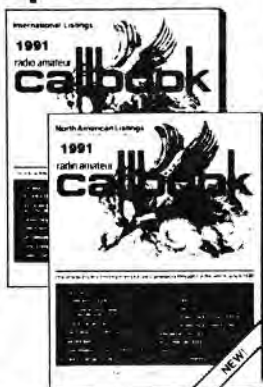
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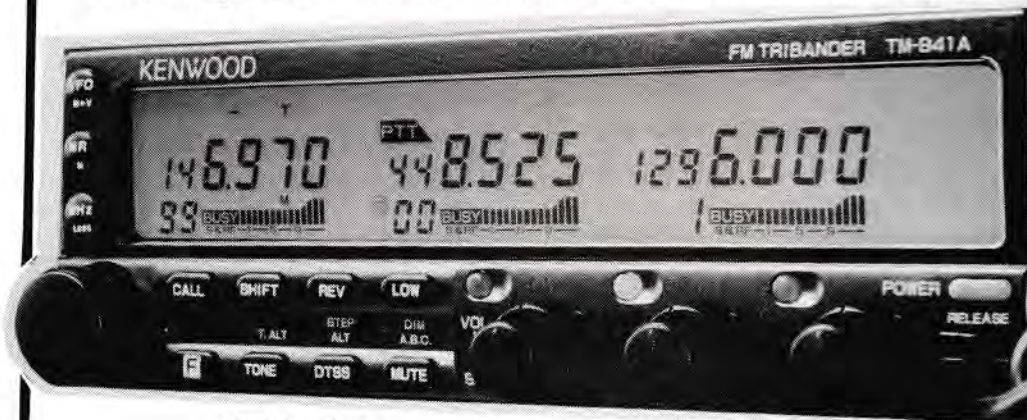
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Kenwood now offers 2 NEW TriBand mobiles, the TM-941A and the TM-741A.

The TM-941A has 144Mhz, 440Mhz, and 1.2Ghz. There are 100 memories and 3 call channels available on each band.

The TM-741A (not shown) comes with 144Mhz and 440Mhz. The 3rd band is your choice of 29Mhz, 50Mhz, 220Mhz or 1.2Ghz. Like the TM-941A, it has 100 memories per band. Only the TM-741A allows direct frequency entry from the microphone.

Both units have detachable front panels to allow you a clean installation in even the smallest vehicles. Cross-Band repeat allows you to walk away from your car with your handheld, and repeat through your car to that distant repeater.



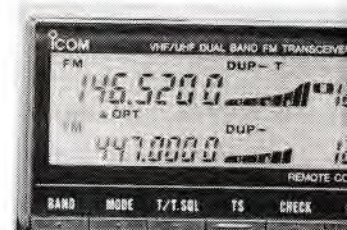
FT-2400

The FT-2400H is a 50 Watt 2 Meter tunable memories that can be programmed with your choice of call sign or name of your choice. The display is large and easy to read. As well, the microphone is illuminated so that you can read it in the dark. The radio is housed in a heavy diecast chassis/heatsink that makes it one of the most rugged radios on the market today.



YAESU FT

The FT-4700RH is a high power (50W) mobile with a detachable front panel. The FT-4700RH is able to do full cross-band repeat (10 for each band), that allows you to get more information. A touch-tone mic is included.



ICOM

The ICOM IC-901A is one of the most rugged mobile radios available today. It has 144MHz and 440MHz, with 220MHz, and 1.2GHz as optional. It is a Wide Range receiver (520KHz). The front panel detaches so that you can use it in even the smallest car. A touch-tone microphone and speaker are also included.



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H mobile with 31 freely programmed with a 4 character display is VERY large and has backlighting so the FT-2400H is made on a one of the strongest



FT-4700RH

(40W VHF/40W UHF) dual band and dual receive. The FT-4700RH has 20 memories available to store CTCSS and offset frequencies.



IC-901A

The most versatile VHF/UHF handheld. The unit comes complete with a 29MHz, 50MHz, and 144MHz SSB/CW, and 830-950MHz FM. A 144MHz SSB/CW, and 830-950MHz FM is also available. You may install the IC-901A with a tone mic and remote



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The CRRL Field Organization Forum

SECTION MANAGER ELECTION RESULTS

Congratulations to Ernie Savage, VE7FB, who was recently re-elected British Columbia Section Manager for a two-year term beginning 1992 January 01. Ernie ran unopposed, eliminating the need for a balloted election. As a side note, Ernie is the "longest surviving" Section Manager in either CRRL or ARRL. In fact, he's been a Section Manager for some 32 years. Ernie held the post shortly after World War II, came back to it in 1962, and has held it ever since.

REPORTS FOR APRIL 1991

Alberta: SM: Don Wilcox, VE6CG, STM: VE6AKY; SEC/TC: VE6AFQ; OO: VE6TY. Gus, VE6AKY notes that band conditions on 80 metres were very poor this month and check-ins to the ARES Alberta Net were low. The net did shift to 40 metres to pick up more check-ins, but 40 was poor as well. Edmonton ARES has successfully launched an MSYS.110 BBS on 145.01 MHz. It is presently hosted by VE6AYM and will adequately handle all packet emergency and health and welfare traffic generated by Canadian Red Cross. There will soon be a gateway on 40 metres for province-wide access and one on 20 metres for international ARES communications. For now, this BBS will not be available for general use as part of the existing BBS system.

British Columbia: SM/SEC: Ernie Savage, VE7FB, British Columbia Public Service Net (BCPS, 3729 kHz) Manager Ford, VE7DDF reports April check-ins: high-213, low-132, total 5086. British Columbia Emergency Net (BCEN, 3652 kHz): Manager Ferdi, VE7EJU, reports 787 April check-ins. BCEN meets daily at 1900 UTC (1700 PDT). Net speed is 10 wpm. Off the net, go at any speed you wish. Please check out this friendly CW net. We'd love to have you aboard. Net members on the sick list: Henry, VE7XG; Chris, VE7BKC; Bill, VE7FVG; and Joe, VE7ESA. Doc, VE7AKG, and XYL had a stay in the hospital with influenza. Dogwood Chapter QCWA has a breakfast meeting on the last Saturday of each month. Average attendance: 40 boys and girls. All are welcome. For information on exact date and location, telephone (604) 224-5226.

Manitoba: SM: Bill Crooks, VE4JR; ASM: VE4IX; STM: VE4JA, SEC: VE4PN; NMs: VE4LB, VE4IX, VE4TE. Manitoba has a new SEC: Dave Place, VE4PN, of Selkirk. Since his appointment, Dave has held several organizational meetings and hopes to get ECs set up in all local areas. If you are contacted, please do all you can to assist Dave. Hopefully, all the communications will be in exercises and not in an actual emergency. However, it does not hurt to be prepared, whether it be for a real emergency or just a simulation. Word from Winnipeg Seniors' ARC is that nine amateurs have upgraded to Advanced. Good work! Saturday, April 6, was the day to Work All Winnipeg. I am sure that the amateurs in Winnipeg had a ball helping stations in and around Winnipeg make as many contacts as possible with their counterparts in the outside world. You can qualify for the Worked All Winnipeg (WAW) Award at any time of year, but April 6 was "blitz day". Hopeful-

Reports invited: CRRL Section Managers (SMs) and their Section-level assistants coordinate traffic handling, emergency communications and bulletin service across Canada. Your SM (name and address appears on page 2 of this *QST Canada*) welcomes reports of individual and club activities for publication in this column. Activities do not have to be related to the CRRL Field Organization or to CRRL.

ly, this will become an annual event.

Maritimes-Newfoundland: Acting SM: Carl Anderson, VE1UU; STM: Mel Lever, VE1VX; BM: Brent Taylor, VE1JH. No report available. The Maritimes-Newfoundland Section does require a Section Manager. Please contact the Acting Section Manager or CRRL Headquarters for details.

Ontario: SM: Larry Thivierge, VE3GT @ VE3WQ; BM: VE3GSA @ VE3JF; SEC: VE3GV; STM: VE3CYR @ VE3INF; TC: VE3EGO. VE3BBM and VE3NR have been made Life Members of the Ottawa Valley Mobile Radio Club in recognition of their many years of dedicated service to Amateur Radio, and in particular, to radio amateurs in their community. Congratulations, Ralph and Bill! VE3IN has installed a new HF antenna, a horizontal quad, 51' x 102', which he says is working nicely. VE3OSQ has a new 70-cm repeater up and running on 444.850 MHz (+) using the callsign VE3LVG. Range is limited to the Almonte-Carleton Place area. Another new 70-cm repeater is in operation on 443.075 MHz (+) in the Bracebridge-Gravenhurst area using the callsign VE3SUM. The International Telecommunications Union (ITU) is undergoing significant realignment to make it more responsive to the rapid pace of technical and economic developments affecting worldwide telecommunications. Canadians travelling in the United States should be aware of state and local "scanner laws" that forbid citizens from having radios in cars that can monitor police, fire or other government transmissions. In some states, laws authorize officials to seize and destroy radio equipment capable of receiving police signals. The backlog of new applications for DXCC has been eliminated and processing of new applications is current at ARRL Headquarters. A backlog of endorsement applications persists. However, all applications received prior to 1990 October 8 have been processed, and plans are in place to eliminate the remaining backlog by September of this year. No later than this October, systems will be in place to process endorsement applications using computer. Manitoulin ARC congratulates Barry, VE3IVV, on the new signal from his repeater, VE3RSR (Repeater Still River) on 147.030 (-). This repeater had a location change and coverage is now fantastic along Highway 69 from Parry Sound to Sudbury. Base stations on Manitoulin Island can also access it. Participants in South Pickering ARC's recent "show and tell" were VE3AVC, VE3CUI, VE3FIT, VE3KQN, VE3ORP, VE3PKH, VE3POS, VE3RIN and VE3VGB. Regretfully, I report that VE3GNI and VE3LB have become Silent Keys. On the occasion of the 45th Anniversary of Scarborough ARC, VE3CNA presented its only Honorary Life Member, Eva Colleck, VE3EVA, a founding member of the club and one of the first woman Amateur Radio operators in Scarborough, with a special plaque. This was in recognition of Eva's many years of service to the club. On behalf of Lake-of-the-Woods Amateur Radio Society, VE3JJA accepted a plaque from the Kenora Rotary Club, in recognition of the Soci-

ety's contribution to the annual Snow-a-Rama. Toronto FM Communications Society (TFM) membership stands at 526. Thanks to VE3EXT and VE3FVW. VE3SMR, the 6-metre repeater in Windsor, has made country-wide coverage a reality. Don't forget the 17th Annual Ontario Hamfest on July 6 at the Milton Fairgrounds in Milton. Safe and happy mobiling to all during the summer holidays.

Quebec: SM: Harold Moreau, VE2BP; STM: VE2EDO; BM: VE2ALE. VE2GOP is very active handling traffic on packet. VE2TA (Sherbrook) fonctionne très bien depuis le remplacement des équipements qui prenait de l'âge. À St-Hyacinthe (VE2CAM), tout est en marche pour les prochaines cours de radio amateur à l'automne. Avec regret, je dois annoncer le décès de Yvan, VE2LED.

Saskatchewan: SM: Joan Lloyd, VE5JML. I'm pleased to report that Vic Allen, VE5AE, is recuperating nicely from a recent heart attack. With spring finally here, amateurs are looking forward to antenna projects, fleamarkets and the Saskatchewan Hamfest to be held on July 19-20 in Prince Albert. To register, or for more information, contact Gordon, VE5JH. Congratulations to Mike, VE5VD, a student from Germany who is in Canada on a year-long exchange. Mike recently received his licence with the basic and 5-wpm Morse code qualifications. VE5QST was on the air during both the phone and CW portions of the Worked All QST QSO Party. Thanks to VE5s BWS, SWL, WWW, ZG, RJR, GHC, SF and VR for helping me keep the station on the air. The Nipawin repeater located 25 miles from town is being moved to a site near Nipawin and will then be linked to the Melfort repeater, VE5RPT. A number of Saskatchewan amateurs made the trek to the Dayton Hamvention[®]. The new rigs sound great, fellows! Welcome to new Swift Current amateurs Jack, VE5AY; Len, VE5SHR; Raymond, VE5YAN; and Gary, VE5GRC. 73, Joan. ■

Silent Keys

Conducted By Ray Staines, VE3ZJ

It is with deep regret that we record the passing of these amateurs:

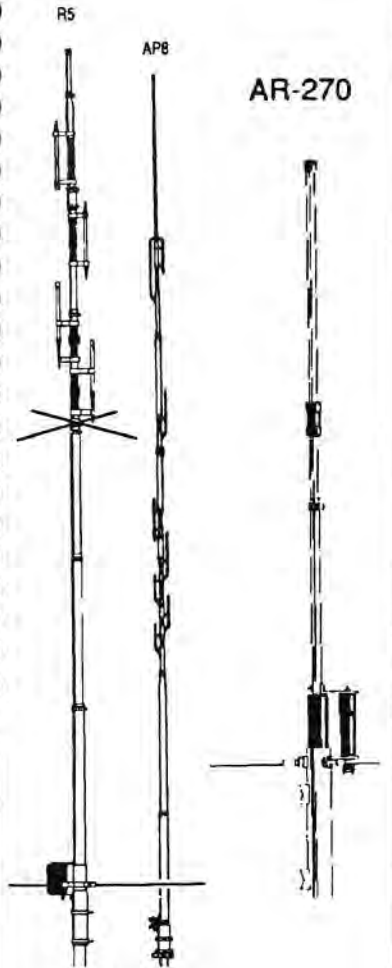
VE1BH, Ray N Rowsell, Tangier, NS
VE2IS, John Hemmings, Chateauguay, PQ
VE3BLS, Jim Harrison, Ottawa, ON
VE7ADR, Alberta Honour, North Burnaby, BC
VE7BLV, Jim Harrison, Victoria, BC

Note: Silent Key reports sent to *QST Canada* must include name, address and callsign of the reporter. To avoid unfortunate errors, reports are confirmed only through acknowledgement from the family of the deceased. Thus, those who report a Silent Key may not receive an acknowledgement from *QST Canada*. ■

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MAY 1991

HAMFEST SOREL TRACY 1991

New 222-225-MHz Band Plan

Discussions continue regarding band planning at 125 cm, based on the latest sad news from the US. My guess is that we can probably kiss 220-222 MHz goodbye in Canada too, based on Ottawa's keenness to keep our friends to the south happy, the spectrum needs of our beleaguered business people, and the fact that we won't have anyone to talk to stateside except taxicabs and truckers.

Despite this, CRRL's VHF-UHF Advisory Committee (VUAC) has voiced strong opposition to DOC in the CRRL response to DOC's 30-890-MHz discussion paper. We could certainly use the lower part of the band for point-to-point digital communications from "sea to shining sea". If DOC does reallocate part of our now-exclusive 220-225-MHz band, we would expect to be compensated by changes that would secure our secondary allocation at 430-450 MHz, or gain us co-primary status at 902-928 MHz.

That said, we still must take a proactive stand in international band planning. Because of our "special" relationship with ARRL, CRRL's VHF-UHF Advisory Committee has a representative on the ARRL's VUAC. This helps ensure that there is a Canadian voice in matters that affect both countries. After all, RF does cross borders, and coordination at the macro band planning level is as important as at the micro level of repeaters, packet operation, satellite operation, SSB and CW. CRRL is not an organization with its head in the sand when it comes to VHF-UHF. CRRL has submitted a bandplan proposal to ARRL, and we hope that it or something close to it flies. This plan gives Canadians what we feel is adequate for SSB, CW, packet and repeaters in a 3-MHz subband.

We hope that all of you readers will try the 125-cm band. Like 160-metres, it's a gentleman's band, but without the QRM and noise. You may wish to comment on all of this. Please write and give us your thoughts on the 125-cm band.

GETTING STARTED ON VHF-UHF

"My class instructor told me that everyone uses FM on VHF."

"The book says VHF radio waves travel in straight lines, so how can you work 500 miles on 144 MHz?"

"Nobody uses CW any more, it's a useless mode, especially above 50 MHz!"

"My scanner can't copy SSB or CW. How come?"

"My training manual doesn't mention meteor scatter, moonbounce, tropo, or satellites. I thought Canadians didn't do

Proposed CRRL Bandplan: 222-225-MHz (1991 April)

MHz	Proposed Use
222.000-222.300	CW, SSB
222.000-222.050	EME exclusive
222.050-222.100	CW
222.100	National CW Calling Frequency
222.100-222.275	SSB
222.200	National SSB Calling Frequency
222.275-222.300	Propagation beacons
222.310-223.370	Repeater inputs
223.390-223.490	High-speed data (local option: crossband duplexed to 430 or 1300 MHz.)
	FM Voice Simplex
223.490-223.590	National FM Calling Frequency
223.500	Data
223.590-223.890	High-speed data (local option: one 100-KHz channel or five 20-KHz channels centred at 223.600, 223.620, 223.640, 223.660 and 223.680 MHz)
223.590-223.690	Narrowband packet (five 20-kHz channels centred at 223.700, 223.720, 223.740, 223.760, 223.780 MHz)
223.690-223.790	High-speed data (local option: crossband duplexed to 430 or 1300 MHz.)
223.790-223.890	Repeater outputs
223.910-225.000	

any of that stuff!"

Boy, have we heard these comments and questions a lot at Amateur Radio clubs and fleamarkets. It looks as if our instructors have been given some b-a-d information and passing it on to the new people. Some of these new people get really upset when they find out that things have been omitted. As a matter of fact some "old-timers" get upset too!

Well, I guess with the use of training material available in the past—material that ignored VHF-UHF SSB and CW—and the lack of VHF DXers willing to talk to Amateur Radio clubs, write articles, and generally "spread the gospel" of VHF-UHF DX, it's no wonder!

This picture is changing fast. I would recommend that if you are conducting and Amateur Radio course, or working on your own "ticket", that you rush contact CRRL Headquarters and order a copy of the CRRL training manual, *Talk to the World*. *Talk to the World* covers all the topics you need to get your license. It tells the truth about the many modes you can operate on VHF-UHF and also doubles as an operating manual to help you get your station together. Check it out!

CANADIAN STANDINGS, JANUARY ARRL VHF SWEEPSTAKES,

Kevin, VE3KDH has taken on the onerous task of compiling the results of various VHF contests and determining the Canadian winners for the certificates and

awards sponsored by the Toronto VHF Society. Here is a summary of logs submitted for the January 1991 VHF Sweepstakes, thanks to VE3KDH.

Scores by Bands

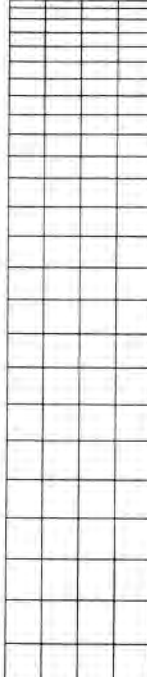

A = 50 MHz, B = 144 MHz, C = 220 MHz, D = 430 MHz, 9 = 902 MHz, F = 1296 MHz, G = 2304 MHz, I = 10 GHz; * denotes a multioperator station.

f	Callsign	Grid	OSOs	Pts	Mult	Score
A	VE3ASO	FN25	78	78	32	2496
A	VE2FUT	FN25	19	19	11	209
A	VE3WCB	FN03	19	19	8	152
A	VE6TA	DO31	18	18	8	144
A	VE3DSS	FN03	15	15	8	120
A	VE3EWP	EN93	14	14	8	112
A	VE6BOJ	DO31	17	17	4	68
A	VE6XT	DO21	13	13	4	52
A	VE4AQ	EN19	6	6	3	18
A	VE6EY	DO20	6	6	3	18
A	VE6EY	DO30	5	5	3	15
A	VE5LY	DO70	3	3	3	9
A	VE6EY	DO31	4	4	2	8
A	VE6EY*	DO21	4	4	2	8
A	VE3FVW*	FN03	7	7	1	7
A	VE3SAU*	FN25	22	22	14	308
A	VE6NOV*	DO21	14	14	4	56
B	VE3ASO	FN25	227	227	32	7264
B	VE3KDH	FN03	167	167	36	6012
B	VE3EWP	EN93	83	83	24	1992
B	VE3HJK	FN03	82	82	24	1968
B	VE3WCB	FN03	55	55	18	990
B	VE2FUT	FN25	47	47	18	846
B	VE6TA	DO31	28	28	13	364
B	VE3DSS	FN03	29	29	13	337
B	VE6BOJ	DO31	28	28	12	336
B	VE3DJ	FN03	23	23	8	184
B	VE4AQ	EN19	8	8	6	48
B	VE3SCP	EN93	10	10	3	30
B	VE3FVW	FN03	10	10	3	30
B	VE5LY	DO70	6	6	5	30
B	VE6EY	DO31	4	4	2	8
B	VE6EY	DO30	3	3	2	6
B	VE6EY*	DO21	3	3	2	6
B	VE6EY	DO20	2	2	2	4

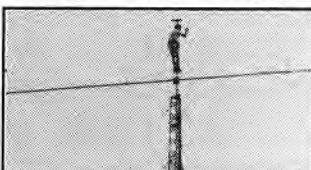

Talk to the World!

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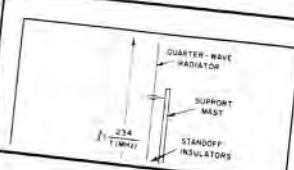
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CHAPTER 6

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Fig. 6-...
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it will operate on 13.8...
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8 volts (RMS) to per-...
e rectifier changes the...

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B	VE6NOV*	DO21	35	35	8	280
B	VE3SAU*	FN25	27	27	6	162
C	VE3ASO	FN25	48	96	21	2016
C	VE3KDH	FN03	29	58	15	870
C	VE2FUT	FN25	12	24	9	216
C	VE3DSS	FN03	10	20	8	160
C	VE6EY	DO30	2	4	2	8
C	VE6EY	DO31	1	2	1	2
C	VE6EY	DO20	1	2	1	2
C	VE6EY*	DO21	1	2	1	2
C	VE6NOV*	DO21	5	10	4	40
D	VE3ASO	FN25	54	108	22	2376
D	VE3KDH	FN03	53	106	18	1908
D	VE3EWP	EN93	25	50	16	800
D	VE3HJK	FN03	23	46	8	368
D	VE6TA	DO31	12	24	7	168
D	VE3DSS	FN03	13	26	6	156
D	VE6BOJ	DO31	13	26	6	156
D	VE2FUT	FN25	10	20	6	120
D	VE3DJ	FN03	9	18	3	54
D	VE5LY	DO70	5	10	4	40
D	VE4AQ	EN19	5	10	3	30
D	VE3FVW	FN03	6	12	2	24
D	VE6EY	DO30	4	8	3	24
D	VE6EY	DO31	3	6	2	12
D	VE6EY	DO20	3	6	2	12
D	VE6EY*	DO21	2	4	2	8
D	VE6NOV*	DO21	17	34	5	170
D	VE3SAU*	FN25	10	20	3	60
9	VE3ASO	FN25	5	20	4	80
9	VE6EY	DO30	1	4	1	4
9	VE6EY	DO31	1	4	1	4
9	VE6EY	DO20	1	4	1	4
9	VE6EY*	DO21	1	4	1	4
9	VE6NOV*	DO21	10	40	4	160
E	VE3ASO	FN25	9	36	7	252
E	VE3WCB	FN03	4	16	2	32
E	VE6EY	DO20	3	12	2	24
E	VE2FUT	FN25	2	8	2	16
E	VE4AQ	EN19	3	12	1	12
E	VE3DSS	FN03	1	4	1	4
E	VE6EY	DO30	1	4	1	4
E	VE6EY	DO31	1	4	1	4
E	VE6EY*	DO21	1	4	1	4
E	VE6NOV*	DO21	7	28	4	112
F	VE3ASO	FN25	2	16	2	32
I	VE3ASO	FN25	6	48	2	96

Combined Scores, All Bands

Callsign	Grid	OSOs	Pts	Mult	Score
VE3ASO	FN25	429	629	122	76738
VE3KDH	FN03	249	331	69	22839
VE3EWP	EN93	122	147	48	7056
VE2FUT	FN25	90	118	46	5428
VE3HJK	FN03	105	128	32	4096
VE3DSS	FN03	68	94	36	3384
VE3WCB	FN03	78	90	28	2520
VE6TA	DO31	58	70	28	1960
VE6BOJ	DO31	58	71	22	1562
VE4AQ	EN19	22	36	13	468
VE3DJ	FN03	32	41	11	451
VE6EY	DO20	16	32	11	352
VE6EY	DO30	16	18	12	336
VE5LY	DO70	14	19	12	228
VE6EY	DO31	14	24	9	216
VE6EY*	DO21	12	21	9	189
VE3FVW	FN03	23	29	6	174
VE3SCP	EN93	10	10	3	30
VE6NOV*	DO21	88	161	29	4669
VE3SAU*	FN25	59	69	23	1587

Thanks to all who sent in logs, to those who expressed interest in continuing to receive the tri-yearly mailing, and to VE3DJ, VE1XDX, and VE1ASA for cards and letters. Certificates for the January contest should be out by the time you read this. (Note that the categories are being modified slightly and a new Canadian rover award will be offered for the June VHF Contest).

EME IN CONTESTS?

VE1ASA asked if EME contacts are acceptable in ARRL VHF contests. EME contacts are allowed as long as grid squares are exchanged. Rules can be found in *QST* or can be obtained from

VE3DSS. Log sheets are available from ARRL or CRRL Headquarters. Please include an SASE with your request.

SEPTEMBER VHF QSO PARTY

For those who like to plan things well in advance, dates for this year's ARRL September VHF QSO Party are September 14-16. We're counting on Canadian VHFers, especially those who are new to the bands, to join the fun and send in logs, one copy for the Toronto VHF Society Awards, one copy for the new Calgary ARA Awards if you are in the west, and one copy to ARRL for the major listing in *QST*.

10-GHZ CUMULATIVE CONTEST

It's also not too early to start preparations for the ARRL 10-GHz Cumulative Con-

test, designed to promote microwave activity in Canada and the US. Contest periods are 0800-2000 local times, Saturdays and Sundays, August 17-18 and September 21-22. Exchange is the full *six character* Maidenhead Locator (i.e. FN03BP. Send logs to ARRL within 30 days of the end of the contest end. Complete rules appear in 1991 July *QST*.

Well, we've run out of space and we haven't even begun to share our activity reports. Our editor says he'll set aside a page for us in August *QST Canada*. The material that appears in that issue will definitely be written by a new father. I hope to editor won't have to do too much editing as a result, hi. Please keep those cards and letters coming. Let's see Canadian VHF-UHF activity grow by leaps and bounds!



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C.O.D.

Richmond Emergency Social Services Team

Hu, VE7CHW, who is Communications Coordinator for Richmond Emergency Social Services (RESS) and an Assistant Director for CARF's Pacific Region, sent me a most interesting letter, along with a report he made to Richmond city council. He says:

"Richmond is a city of 120,000 people just south of Vancouver. It is located on several islands in the Fraser River delta. The largest island is Lulu Island with most of the population. Second is Sea Island which is home to Vancouver International Airport. There are several smaller islands with industrial development.

"Richmond is located in Canada's worst earthquake zone, and being on alluvial soil, severe damage could occur should we get 'the big one'. Another hazard in this area is the airport. Vancouver International is Canada's second busiest airport with only two runways which cross each other. Much of Richmond is below high tide level and flooding can occur. With the design of our dike, we can expect one flood every one hundred years. There is great concern about the dike's ability to withstand an earthquake. There are also extensive industrial transportation routes in Richmond with their inherent potential for chemical spills.

"With all these hazards and problems, why would anyone want to live here? Well, the weather is great. We are farther from the mountains than Vancouver, and therefore, we get considerably less rain. Snow lasts only a few days and winters are not cold.

"We are also aware of our problems and have organized an emergency response team that has been active for at least five years. Our team deals with the people aspect of the emergency. There are 12 coordinators that deal with these issues: food, lodging, registration and inquiry, reception centres, clothing, personal services, financial services, volunteers, seniors, special needs, transportation and communications.

"Our current activity is making city council aware of our existence and needs. Towards this effort, I have prepared a report which will be used in our presentation to council."

The following extracts from Hu's report on communications are of particular interest:

Role of Communications Group

During a disaster, the communications group will provide the initial emergency communications using Amateur Radio. The need for this communication is

expected in the following areas:

- Emergency control centre – coordinator and one or two operators.
- Reception centres – one or two operators per centre.

- Scene of the disaster – depends on nature of the disaster.

- Other locations where communications would be required: Red Cross, hospital, fire and police stations, City Hall, etc.

Field Organization Reports April 1991

CRRL Section Emergency Coordinator Reports

Reports were received from the following SECs (DECs and ECs reporting to SECs are listed in brackets) denoting a total ARES membership of 1077.

Reporting	ARES Members
VE3GV (VE3s FOI, GNW, JJA, LPM, MB, OVV, SV, TNL)	613
VE4JR	56
VE6AFO	270
VE7FB	138

CRRL Section Traffic Manager Reports

Call	Orig	Rcvd	Sent	Divd	Total
VE1BTU	0	16	16	0	32
VE1ALU	3	11	12	2	28
VE1DLC	0	7	7	0	14
VE1YS	0	2	5	0	7
VE2GOP	0	68	84	0	162
VE2BP	2	19	17	18	56
VE2WH	1	12	11	11	35
VE2JN	2	7	3	10	22
VE3GNW	0	66	85	1	152
VE3CYR	0	70	37	1	108
VE3BDM	0	65	24	2	92
VE3EUI	20	17	37	10	84
VE3DVE	0	32	48	1	81
VE3LPM	2	36	32	10	80
VE3GSO	0	41	37	1	79
VE3ORN	1	32	23	9	65
VE3AJN	0	20	21	1	42
VE3GT	0	10	21	1	32
VE3SB	0	11	12	2	25
VE3K CZ	1	11	8	3	23
VE3BAJ	1	2	6	2	11
VE3DBG	4	1	4	1	10
VE3MNI	0	3	6	1	10
VE3BCZ	2	6	1	0	9
VE3NVJ	0	2	5	1	8
VE3WV	1	2	3	0	4
VE4FP	4	40	40	4	88
VE4JR	0	40	40	6	86
VE4STU	2	14	10	5	31
VE5KZ	3	17	15	2	37
VE6CE	1	8	14	0	23
VE6GUS	2	16	16	32	66
VE6CPP	0	10	10	20	40
VE6ABC	0	4	4	8	16
VE6AKY	0	4	4	8	16
VE7BNI	21	96	164	39	320
VE7EJU	0	68	53	0	121
VE7ANG	0	44	50	0	94
VE7FAZ	0	31	30	2	63
VE7XA	0	19	25	9	53
VE7BCL	1	20	11	1	33
VE7FB	2	14	10	5	31
VE7EGM	2	9	11	3	25
VE7OM	0	12	11	1	24
VE7CCJ	2	10	6	2	20
VE7BCF	0	12	5	0	17
VE7BVZ	0	8	8	0	16
VE7VO	0	9	6	0	15
VE7BZI	1	4	1	4	10
VE7WI	0	5	3	0	8
VE7DJ	0	5	2	0	7
VE7FRZ	1	4	2	0	7
VE7FME	0	7	0	0	7
VE7GKA	0	4	1	0	5

Call	Orig	Rcvd	Sent	Divd	Total
VE7ALV	0	3	1	0	4

National Traffic System

Net (Mgr)	Sess	QNI	QTC
APN (VE1YS)	26	105	61
KTN (VE3AJN)	13	87	9
OLN (VE3POJ)	30	724	31
OPN (VE3BDM)	31	598	160
OQN-I (VE3GSO)	18	2	2
OQN-D (VE3ORN)	25	59	27
OQN-E (VE3CYR)	28	77	80
OQN-L (VE3GSO)	21	23	4
MEPN (VE4LB)	30	1175	25
MMWX (VE4TE)	20	405	20
MTN (VE4IX)	21	173	22
SATN (VE5ABF)	15	69	15
SPN VE5CJ)	30	1508	13
APSN (VE6AKY)	31	1071	18
ATN (VE6CPP)	4	163	46
BCEN (VE7EJU)	30	787	266

Brass Pounders' League

This listing is available to amateurs who report to their SM a traffic total of 500 or a sum of originations and delivery points of 100 or more for any calendar month. All messages must be handled on amateur frequencies, using standard ARRL-CRRL form, within 48 hours of receipt.

BPL: None this month.

Public Service Honour Roll

(1991 Revision) This listing is available to amateurs whose public service performance during the month indicated qualifies for 70 or more points in the following eight categories (as reported to their SM). Please note maximum points for each category: (1) Checking into a public service net using any mode, 1 point each, maximum 60; (2) Acting as a Net Control Station (NCS) for a public service net using any mode, 3 points each time, maximum 24; (3) Performing assigned liaison between public service nets, 3 points each time, maximum 24; (4) delivering a formal message to a third party, 1 point each, no maximum; (5) Originating a formal message from a third party, 1 point each, no maximum; (6) Serving as a CRRL SM or field appointee, 10 points for each office or appointment, maximum 30; (7) Participating in a communications network for a public service event, 10 points each event, no maximum; and (8) Providing and maintaining an automated digital system that handles messages in standard ARRL-CRRL format, 30 points. Amateurs who qualify for Public Service Honour Roll 12 consecutive months, or 18 months out of a 24-month period, will be awarded a special certificate from CRRL Headquarters.

PSHR: VE3GNW (102), VE4LB (101), VE3BDM (93), VE4STU (77), VE3LPM (75), VE3CYR (66)

Service and Specialized Nets

Independent Net Managers: Your monthly reports are welcomed. Send to CRRL, Box 7009, Station E, London, ON N5Y 4J9.

Net (Mgr)	Sess	QNI	QTC
ARES Canada (VE3GV)	4	97	1
ARES Ontario (VE3GV)	1	3	0
CRRL ONTARS (VE3FQV)	30	9780	0
Grey-Bruce (VE3BDM)	30	73	17
Grey-Bruce SS (VE3BDM)	30	73	25
Trans-Provincial (VE3EUI)	30	9288	10
Aurora-1 (VE4AHG)	30	1155	4
Aurora-2 (VE4FP)	25	946	3
ARES Saskatchewan (VE5PY)	5	189	4
ARES Alberta (VE6AKY)	8	230	4

After the initial communications are established, arrangements for more permanent communications will be made by the coordinator. This may consist of obtaining telephone lines, other radio equipment, couriers and anything else that can get traffic handled in an effective manner.

Organization

Richmond Amateur Radio Club is an active organization with about 30 active members. There are an additional 90 amateurs in the community that are also available in an emergency.

Amateur Radio operators (hams) use radio communications as a hobby. They have skills and equipment to communicate over short distances using VHF radio, and long distances using HF radio. Many hams participate in various nets, contests and community events like parades and races to keep up their skills. They know how to organize themselves in a chaotic situation to get the maximum traffic through. Hams are sensitive to emergency communications. We realize that in return for frequency allocations in the crowded radio spectrum, we must serve the communities in which we live.

There are approximately two thousand amateurs in BC. In case of large-scale disaster, they will all work together to handle vital traffic. To obtain an Amateur Radio licence we must pass examinations in

electronics, regulations, propagation and operating procedures. We are all trained in these areas. Therefore, we have a skilled group of people with an interest in communications.

Equipment

Most hams have an assortment of radio equipment. This can consist of some or all of the following: handheld radios, mobile radios, base stations in the VHF and HF bands, packet radio equipment, equipment that operates on AC power, dry cells or car batteries. Hams are quite prepared to use their own equipment in the field. They are not allowed to ask for compensation for using this equipment. The club also has access to an emergency power plant, portable antennas and a tent for field operations.

In addition to this equipment, there are a number of amateur-owned repeaters in the Lower Mainland. These extend the range of a handheld radio from Richmond to Hope, Victoria and Courtney. In addition to this, we use HF or satellite to extend the range into Alberta and other parts of Canada.

ANOTHER ANNIVERSARY!

This column is celebrating its third birthday this month. In the past year I have continued to pass on ideas and experience of individual ARES and other emergency groups, so that all can benefit from their

knowledge. Tornados and earthquakes, perhaps the biggest peacetime threat to our country, have been discussed in several columns. So has our special relationship with Canadian Red Cross.

I have been encouraged by the response of many ARES and other emergency groups, from Ontario to BC, and extend sincere thanks to all who have sent in contributions, comments or criticisms. As I embark on my fourth year, I repeat my plea for information on emergency communications in Quebec and the Atlantic region. To date, I have received only two letters from these important areas of our country.

What about it, OMs and YLs? Why not let the rest of the country profit from your knowledge and experience? —*Bob Boyd, VE3SV*

This column appears in both The Canadian Amateur and in QST Canada. We hope that it serves as an ongoing source of news and information about ARES for members of both CRRL and CARF.

A reminder that ARES is part of the CRRL Field Organization, although you do not have to be a CRRL member to take part. For more information about how to set up an ARES group, contact your CRRL Section Manager (address appears on page 3 of this QST Canada) or your CRRL Section Emergency Coordinator. —Editor

Consider the Benefits... ...And Join CRRL Today!

Consider the **benefits** and join CRRL today! You'll receive **QST Canada** and **QST** (either or both) monthly journals, and **free CRRL Outgoing QSL Service**. Your membership supports many important services to Canadian Amateur Radio: **representation to DOC** and other government agencies, **representation to IARU** (so important as we prepare for WARC-92), the **Field Organization (NTS, ARES, OBS)** for public service, the **incoming QSL bureau system**, and much, much more.

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