

QST 

# CANADA

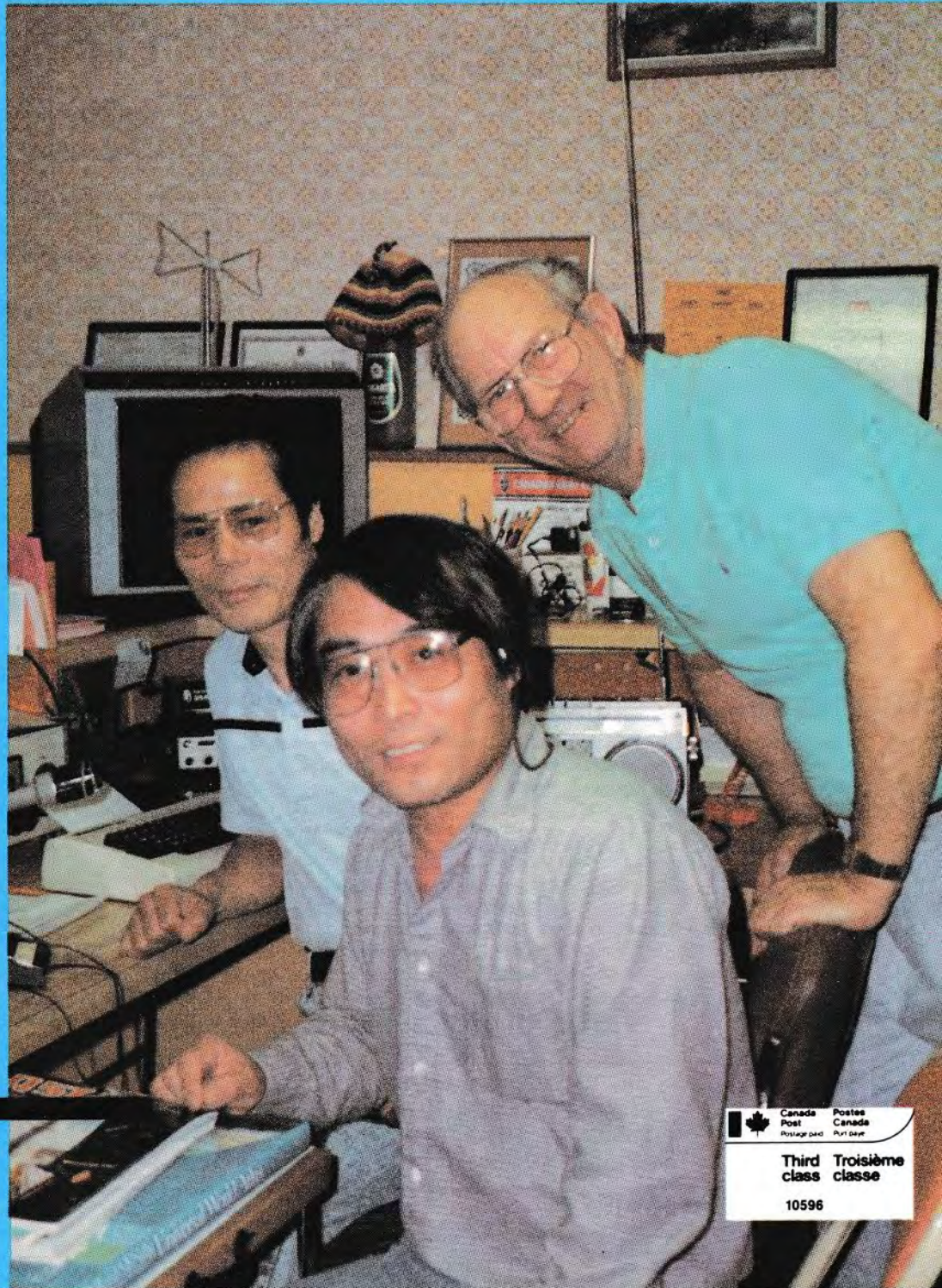
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**40 Metres**

**BC  
Emergency**

**CCIR  
Report**

**\$2.50  
October  
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1991**



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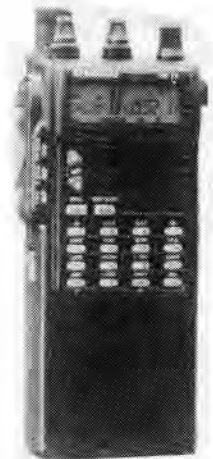
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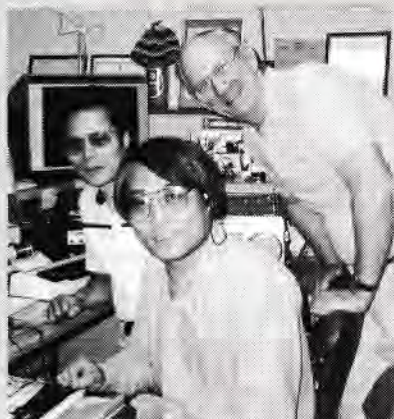
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**ABOUT THE COVER**

Japanese amateurs Akiyoshi Tanai, JG2APQ (foreground) and Shoji Toyoda, JR2SIE, visit the shack of Dick Reiber, VE3IBV/VE3QST. Both Akiyoshi and Shoji are in Canada to help smooth operations at the new Suzuki auto plant east of London, Ontario. (VE3IBV photo) ■

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

## 40 Metres: the CRRL Position

*What's CRRL been doing to get ready for WARC-92? Contacting DOC, trying to get DOC onside before the conference opens in Spain in February. Here's a recent example:*

The ITU conference agenda item 2.2.2 will consider the possible extension of HF broadcasting. This could affect present Amateur Radio allocations at 7-7.3 MHz, the 40-metre band.

The Canadian Radio Relay League, Canadian member society of IARU (International Amateur Radio Union), is particularly concerned about the amateur allocation at 7-7.3 MHz. More than any other, this HF band is used throughout the Americas whenever Amateur Radio responds to calls for communications assistance when normal channels are lost as a result of natural or other disasters.

This band is particularly useful for this purpose because it is able to sustain contacts over medium to long distances. Most amateur stations are equipped to operate on this band, and reliable communications can be achieved with very simple antenna systems. This is vital for communications in disaster areas. Resolution 640, adopted at WARC-79, recognized the valuable service that radio amateurs are presently able to provide on this band.

"Historically, the Amateur Service was allocated 300 kHz at 40 metres. The increase in the dissemination of propaganda on the eve of World War II led to the introduction of European broadcasting into the top part of the band in the late 1930s. However, broadcasting did not encroach on the traditional amateur band in ITU Region 2 (North and South America) where the entire band, 7-7.3 MHz, continued to be available to the Amateur Service.

At WARC-79, broadcasters tried to make 7.1-7.3 MHz a worldwide broadcasting allocation without providing any compensation to the Amateur Service in Region 2. This attempt failed because amateurs were able to retain the support of every Region 2 telecommunications administration. Not a single one voted against Amateur Radio.

In accordance with CCIR (International Radio Consultative Committee) recommendation 5.2.1 in its report to the conference, delegates to WARC-92 are likely

to vote for the creation of bands that will eliminate the need for the amateur and broadcasting services to share spectrum. Therefore, we respectfully ask that Canada adopt a position whereby it will favour a 300 kHz band in the vicinity of 7 MHz for the Amateur Service, exclusive Amateur, worldwide....

It may be that to create separate bands for the amateur and broadcasting services, a 100-kHz downward shift of the amateur allocation to 6.9-7.2 MHz, and a 100-kHz upward shift of the broadcasting allocation to 7.2-7.4 MHz will have to be considered. This would have an impact on the Fixed Service. In several Region 2 countries, including Canada, fixed stations operate in the 6.9-7.0-MHz subband. These would have to be relocated.

For this reason, we suggest that Canada propose a 15-year transfer period, extending to 2007 January 1. Improved telephone service, including cellular telephones, VHF-UHF and microwave circuits, and satellite relays, are gradually reducing the need for fixed service links on the HF bands. Use of digital techniques is accelerating this trend. Therefore, it can be expected that, by the end of the transfer period, the needs of the Fixed Service around 7 MHz will be much lower than it is now.

At the same time, the Amateur Radio Service will continue to need access to at least 300 kHz of spectrum in the 7-MHz range in the foreseeable future and well into the next century to meet its emergency communications mandate. It is because of the amateur's unique ability to provide emergency communications with an unmatched capability for flexibility and improvisation under adverse conditions, that amateur will continue to need this spectrum. Hopefully, the generous time frame suggested for implementation will encourage support from telecommunications administrations around the world.

In conclusion, we trust that our own telecommunications administration, the Canadian Department of Communications, together with all telecommunications administrations throughout the hemisphere, will support this position. Thank you for this support. —George Spencer, VE3AGS, *International Affairs Vice President, CRRL* ■

**SPECIAL NOTE**

This issue of *QST Canada* is being sent to all CRRL members in the Ontario and Maritimes-Newfoundland sections because it contains legal notices pertaining to Section Manager elections. —Ray Staines, VE3ZJ, *General Manager*

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.

## FRENCH IN QST CANADA

We received six letters and one telephone call regarding VE1AL's comments on French in QST Canada.

We are not going to print individual responses. Those who contacted us were six to one in favour of us printing French. One person suggested that we always provide an English translation. Three felt that we had used poor judgment in sharing VE1AL's comments on these pages.

VE1AL's comments did give us an opportunity to restate our policy. English is the working language of the volunteers who produce QST Canada. However,

CRRL has both French- and English-speaking members. For this reason, when QST Canada receives an article in French, we will print it in French.

## TOWER MATTERS

In August QST Canada, we published a photo of an Amateur Radio tower that was the focus of some concern in Edmonton. DOC officials and the owner of the tower recently met with neighbours, and the concerns appear to have been resolved. Below, some thoughts on this case from DOC Ottawa. Note that in an earlier letter, DOC clarified the intent of

CPC 2-0-03: Municipal approval is not required for Amateur Radio towers, nor is approval a precondition for obtaining an Amateur Radio station licence. However, there is an expectation that amateurs will use good judgment and consult with neighbours before erecting a tower:

It is important to point out that the resolution of these issues is the responsibility of the local [DOC] authority. The role [DOC] headquarters plays is largely peripheral....

I wish to underscore that the Department's position in dealing with these matters is as articulated in CPC 2-0-03. It is to be consistent with the intent and the spirit of the CPC that we will examine a previously stated position in the light of new information. It is also our intention to have these matters settled with little or no departmental intervention. Therefore, it is incumbent upon the individual wishing to put up the tower to make every effort to mitigate the reaction of those affected. In the event of a dispute, the Department will seek information and take into account all matters it deems appropriate in making licensing decisions.

I am very hopeful that a cooperative effort by all concerned will lead to an acceptable disposition of this case. —M. K. Nunas, Director, Spectrum Management Operations, DOC Ottawa

### 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

## 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.

**Côte St-Luc, PQ:** Hamfest '91, October 19, at St Richards Church, 707 Guelph Rd, Côte St-Luc (Montreal). Opens at 0900, 0800 for vendors. Admission \$2. Tables \$12, includes one admission. Talk-in on VE2RED, 147.27 MHz (+). For more information, contact Joe Ship, VE2JS, 5637 Melling Ave, Côte St-Luc, PQ H4W 2C1, Tel (514) 482-6500.

**Greenwood, NS:** Third Annual Ham and Electronics Fleamarket, October 26, at Gilwell Hall, Bedford Rd off Ward Rd. Sponsored by Greenwood ARC. Odds 'n ends table, refreshments. Opens at 0900. Admission \$2. Tables \$5, commercial tables \$10. Talk-in on VE1WN, 147.24 MHz (+), and VE1AEH, 147.18 MHz (+). For more information, contact Lance Peterson, VE1VCL, Greenwood ARC, Box 63, Greenwood, NS B0P 1N0, Tel (902) 765-6053.

**Guelph, ON:** Special-event station VG3W, 1500-2200 UTC daily on November 9-11, from the McCrae House Museum on 108 Water St. Sponsored by Guelph Amateur Radio Club (GARC). Col John McCrae (1872-1918) enjoyed an international reputation as a medical teacher, physician, author and poet. His poem, *In Flanders Fields*, published in 1915 December, symbolized the sacrifices of all who have served in war. Special QSL card available. Send an SASE or one IRC to GARC, Box 1305, Guelph, ON N1H 6H9.

# BC Emergency

## Bringing in a snakebite victim...

By Ken Delmonico, VE7KRD  
1105 30th Ave  
Vernon, BC V1T 1Z6

Aside from the often stated objectives of technical experimentation and hobby use, one of the most important functions of Amateur Radio is to provide communications during emergencies when normal means of communications—commercial channels, as we often call them—are impaired or not available. Such was the case on the afternoon of 1991 April 30, when Amateur Radio was used to summon emergency medical aid for a victim of a rattlesnake bite. Here is a summary of the events that transpired on that afternoon.

The victim, Harry Higgins of Salmon Arm, BC, was bitten while in the rugged rangeland of Coldstream Ranch near Vernon, an area inaccessible to normal means of transport. The initial call for help was transmitted around 1500 by George, DG1RAE, an exchange student from Germany who was accompanying the victim on a hiking trip that afternoon. George accessed the NORAC (North Okanagan Radio Amateur Club) repeater, VE7RSS on 146.880 MHz, and transmitted his first calls in CW, an SOS using the 1750-Hz repeater access tone that is supplied on European versions of most VHF portables. George's rig was a Standard Radio 2-metre portable.

The SOS was first answered by Ken, VE7KRD, and shortly after by Leigh, VE7JLP, and Jim, VE7EFM. Initially George requested that the gate at the Coldstream Ranch be opened. Unfortunately, Coldstream Ranch has several gates. George could not say his exact location or which gate needed to be opened. At this point, copy became less than ideal, for reasons that became apparent later on.

Leigh, a member of Vernon Search and Rescue, was familiar with the terrain. He advised that there were gates at both the east and west ends of Deep Lake. That was the closest we could come to determining the location of the victim. If the east end gate was the location, Coldstream Ranch personnel would have to be summoned. If the west end gate was the location, provincial parks personnel would have to be called in. Fortunately, there was some time. The victim was conscious and stable. He had lanced the bite area to promote bleeding, and to remove some of the rattlesnake venom.

Ken, the first operator to answer the emergency call, contacted various emer-

gency services. Ken is a part-time ambulance paramedic with the BC Provincial Ambulance Service. He was able to call the ambulance dispatch centre in Kamloops on a special "crew line" and provide as much information as he had at the time.

Dispatch decided to send an ambulance to Coldstream Ranch right away, to stand by until the victim could be brought in. Leigh continued to monitor George's transmissions while Jim notified the Emergency Department at Vernon Jubilee Hospital that a snake bite victim would be arriving soon.

Still, no one had an accurate idea of where the victim was located, and the situation was about to take a turn for the worse. While on line with Provincial Ambulance Dispatch, Ken tried to call George to obtain the precise information that was needed. George did not answer. Everyone surmised, accurately as it turned out, that the battery pack on George's portable had finally "given up".

Following notification of the Provincial Ambulance Dispatch, the Coldstream Ranch office was called and notified of the situation. Ranch personnel decided to send crews to the east gate to see if they could locate the victim. Vernon RCMP was contacted regarding access to the provincial park gate in the west. RCMP felt it would be best to contact the Provincial Parks Regional Office in Summerland, and Parks officials in Summerland suggested contacting the local contractor responsible for the park. Unfortunately, only an answering machine was reached. Parks officials were called again. They said they would try to locate someone to check the west gate.

At periodic intervals, phone calls were made to the Coldstream Ranch to determine if ranch personnel were having any luck in finding the victim. On one of these calls, it was discovered that George had found the ranch office, and yes, the batteries on his portable had died. A spare set of batteries was in a backpack that had been left with the victim who was still up in the hills.

Ranch personnel now attempted to reach the victim with a 4x4 vehicle. At periodic intervals, Provincial Ambulance Dispatch was updated on the progress of the rescue effort. Provincial Dispatch in Victoria had been called to arrange helicopter transport for the victim. All air evacuations had to be authorized by

Provincial Dispatch; regional dispatch centres cannot approve these on their own. It was now 1630.

At this time, an attempt was made to contact Provincial Parks and see how they were making out in getting someone to check the west gate. Now, no one was answering the telephone, and telephone calls to the Coldstream Ranch were now being taken by a local answering service. Everyone had gone home for the day! It was no longer possible to obtain information from either Coldstream Ranch or Provincial Parks on the progress of their efforts to reach the victim!

At 1700, we learned that the provincial ambulance crew had finally reached the victim via helicopter and had initiated emergency care procedures. Ken decided there wasn't much more he could do from home. He left the phone and drove to the hospital, with his handheld portable, to await further developments. Shortly after arriving at the hospital, Ken learned that George was back with the victim, along with the ambulance crew. He had installed a fresh set of batteries in his 2-metre portable, and was able to provide communications.

Now there was a direct communications link between the rescue site and the hospital emergency room, and the patient's vital signs were relayed to emergency room staff. As a point of interest, communications from the scene using ambulance portables was sporadic; the ambulance radios had been "acting up" all day, perhaps because of sunspots. But the 2-metre link worked flawlessly. Emergency room staff learned that the patient was still conscious, but that his legs and arms were beginning to grow numb. His mouth and lips were dry and he was now having difficulty speaking.

Thirty minutes later, it was learned that the patient was being transported, via helicopter, to the ambulance waiting at Coldstream Ranch. A delay was apparently caused by the rough terrain and difficulty in getting the patient down a steep slope to an area where the helicopter could land safely. Some "trail bikers" that happened by helped carry the patient to the helicopter. Finally, the patient was taken to hospital by ambulance—just a seven-minute ride. Upon arrival at hospital, Ken assisted the duty paramedics in unloading the patient and bringing him into him to the emergency room.

One half hour later, George arrived at the hospital. It was the first opportunity for he and Ken, the two amateurs most involved in the rescue, to learn more about what had happened.

It seems that George and the victim of the snake bite were in the hills performing work related to a study of rattlesnakes—their habits and habitat! The victim had picked up a large rattler by the tail, and was about to measure its length when a second rattler near his feet distracted him. At this point, the first snake decided to strike and bit the victim in the index finger. Although the victim was an expert on rattlesnakes, circumstances got the better of him.

Some final thoughts: Snake bites are a rare occurrence, and this would seem to be one of the most unusual emergencies ever to have been handled by Amateur Radio in BC. The NORAC repeater system worked flawless throughout this incident, and the Amateur Radio operators involved responded in a professional manner to provide the aid that was so desperately required. Had it not been possible to obtain communications from the scene and rescue of the victim as quickly as it was, the outcome for the victim would have been much less favourable. In this incident, Amateur Radio made a real difference. ■

# Postcard QSLs



If you ever operate from a DX location, but don't make that many contacts, consider this alternative to purchasing QSL cards. While visiting VP9, VE3XN made about 250 QSOs. He expected about 40% of his contacts to request a QSL card and decided he would need about 100 QSLs. An attractive postcard was purchased for about \$0.20 each. A transparent call sign label from K-K Labels personalized each card in a pleasing manner. Relevant QSO data was put on the back with a rubber stamp. —Garry Hammond, VE3XN ■

IARU—continued from page 17

## 16.6.4 Sharing/protection criteria

The amateur and amateur-satellite services can share, subject to suitable sharing criteria, with the radiolocation service, fixed service, mobile services where traffic density is low, some meteorological aids and certain satellite services. Such sharing is facilitated by dynamic frequency usage by amateur stations.

The amateur and amateur-satellite services should not share with safety, distress

or operational traffic of the aeronautical or maritime mobile services for safety-of-life reasons. The amateur and amateur satellite services would have difficulty sharing with other services like the broadcasting service because of the high signal intensities, or with land mobile or land mobile-satellite systems that serve the consumer, particularly in populated areas where there is a high density of amateur stations.

The amateur and amateur-satellite services prefer some exclusive spectrum or a primary status for weak-signal communications, including passive lunar reflection, tropospheric scatter, auroral propagation,

meteor scatter and satellite communications. Any proposed sharing with the amateur or amateur-satellite services should take into account the low signal levels used in certain parts of each band, and the various classes of emission used in each band. Interservice coordination may be necessary in some cases to ensure compatibility of the sharing services.

## 16.6.5 Summary

...Expansion of spectrum for other services should be done in a way that ensures spectrum adequate for the amateur and amateur satellite services to meet their objectives. ■

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- **TM-241A provides 50 W. TM-441A 35 W, and TM-541A 10 W.** Three power positions, 5, 10, and full. The TM-541A has two power positions, 1 and 10 watts.
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- **Tone Alert System with Elapsed Time indicator.**
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- **Selective calling and pager option.** The DTU-2 option enables the Dual Tone Squelch System (DTSS), allowing selective calling and paging using standard DTMF tones.
- **Digital recording system option.** Used in conjunction with the tone alert system, the DRU-1 allows message storage of up to 32 seconds.
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- **Supplied accessories.** Mounting bracket, DC cable, fuses, MC-44DM multi-function DTMF mic.

### **Optional accessories**

- **DRU-1** Digital Recording Unit
- **DTU-2** DTSS unit • **IF-20** Interface unit, used with the RC-20, allows more than two transceivers to be remotely controlled
- **MA-700** 2m/70cm dual band antenna with duplexer (mount not supplied)
- **MB-201** Extra mounting bracket
- **MC-44** Multi-function hand microphone
- **MC-55** (8-pin) Mobile mic. with time-out timer
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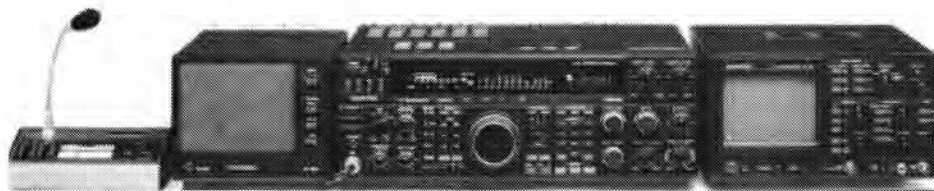


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## VE2CV Wins Cover Plaque Award

What's a *QST* Cover Plaque Award? That's what you win if the ARRL Board of Directors decides you had the best article in a particular issue of *QST*. Winner of the plaque for June, 1991: Dr John Belrose, VE2CV. John's article "Transforming the Balun", described a series of easy-to-build ferrite-bead-choke current baluns capable of 4:1 and 9:1 impedance transformations.

John, who works at the National Research Council in Ottawa, is a long-time contributor to *QST* and other ARRL publications. He is inventor of the half-Delta loop, a simple but effective DX antenna. Through his articles, he has helped take the mystery out of mobile antennas, discons, the DDR antenna, half slopers, and now baluns. Ontario North Director Ray Perrin, VE3FN, presented John with his award at a recent meeting of Ottawa Amateur Radio Club.



CRRL Ontario North Director Ray Perrin, VE3FN (right), presents John Belrose, VE2CV, with his *QST* Cover Plaque Award. John received the award for his article, "Transforming the Balun" which appeared in 1991 June *QST*. (VE3FN photo)

### ACROSS THE COUNTRY

□ We hope you didn't miss it. To commemorate the 100th anniversary of the opening of the St. Clair Tunnel linking Sarnia-Clearwater, Ontario, and Port Huron, Michigan, amateurs throughout Ontario were able to use the special prefix XO3 from noon EDT on September 18 until noon EDT on September 22.

□ According to the *Canada Gazette*, DOC recently confiscated a number of transceivers, mostly for the 2-metre band, from three non-amateurs in British Columbia. At least one transceiver was taken from a vessel, and it is likely that some if not all of the transceivers were being used for informal ship-to-ship and ship-to-shore communications.

### SOUTH OF THE BORDER

□ According to the *W5YI Report*, this fall, Tandy/Radio Shack will be entering the 2-metre Amateur Radio market with a handheld transceiver. In the US, the transceiver will cost \$295.95. It will be carried in virtually all Radio Shack stores.

□ ARRL will hold its 1991 Educational Workshop in Los Angeles, California, on November 8. Topics include using Amateur Radio in the classroom and recruiting new amateurs. AMSAT North America will hold its 1991 Technical Symposium in the same location on November 9-10. Topics include Phase 3D satellites, microsat applications, digital signal processing and EME. For more information on either of these events, contact ARRL, 225 Main Street, Newington, Connecticut 06111.

□ The US FCC reports that moving the

80-metre Novice CW band from 3700-3750 kHz to 3675-3725 kHz has worked out well. Canadian phone stations did not move below 3725 kHz as FCC feared they might, and mutual interference has been eliminated.

□ If passed, a new FCC funding bill would open the way for ARRL to issue special call signs. The bill does not mention ARRL by name, but does refer to "an incorporated association of amateur radio operators with more than 100,000 dues-paying members..."

□ US amateurs now have a reciprocal licensing agreement with Mexico.

### NOTES FROM ALL OVER

□ On October 27-November 2, special-event station ON4CLM (Canada Liberation Movement) will commemorate the 1944 liberation of Knokke, Belgium. This year's ON4CLM award honours the Algonquin Regiment, one of the nine Canadian regiments involved in the liberation. Cost of the award is \$5 or ten IRCs. All proceeds go to a fund used to maintain memorials and commemorative displays. Look for ON4CLM on the following frequencies: SSB—3.685, 7.045, 14.145, 21.245 and 28.545 MHz; CW—3.515, 7.012, 14.020, 21.020 and 28.020 MHz. Address for the award is ON4CLM, Box 110, B-8300 Knokke Heist, Belgium.

□ You should now be hearing Amateur Radio from Albania! At press time, ZA1A

was expected to be operating on 14.020, 21.020 and 28.020-MHz CW, and 14.145, 21.245 and 28.245-MHz SSB after September 16. Operators also hoped to use 14.295, 21.395 and 28.695 MHz. The ZA1A project is sponsored by IARU with assistance from ARRL, JARL (Japan), ARI (Italy), NCDXF (Northern California DX Foundation) and Yaesu.

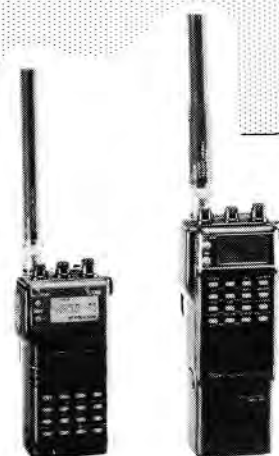
□ According to *Oscar Satellite Report*, DOVE-OSCAR 17 is back on the air. Listen for its packet radio beacon on 145.825-MHz FM. Development work, including work on the voice messages promoting world peace, is under way. DOVE is a microsat. Also according to *Oscar Satellite Report*, in six years' time, there should be enough microsats aloft to keep most amateurs busy 24-hours a day. Amateurs in Italy, South Africa, Israel, Korea and the UK are all working on these "birds".

□ The next CRRL *QST* QSO Party will be held on November 3. This time around, as an experiment, *QST* stations will operate SSB only for a 24-hour period. Full details next month.

□ CRRL is still taking last-minute nominations for CRRL Amateur of the Year. This award is given annually to a Canadian amateur to recognize a specific achievement in a given year, or exemplary service over a number of years. Please send your nomination with supporting documentation to the CRRL Secretary, Box 56, Arva, Ontario N0M 1C0. ■

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## 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: Stan Riome, VE3STN; Noel Eaton, VE3CJ; Ernie Simpson, VE6QK; Ontario (Milton) Hamfest, R. N. Boyd, VE3SVF; Colin Dumbrielle VP9C; and amateurs who contributed at the Ontario (Milton) Hamfest.

As of 1991 August 15, the fund stood at \$17,574. 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. ■

## Silent Keys

Conducted By Ray Staines, VE3ZJ

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

VE1YJ, Russel Fry, Bedford, NS  
VE2XX, James Ayerst, Dorval, PQ  
VE3GJ, Piper Bain, Hawkstone, ON  
VE3IMH, Merle Cromwell, Canning, NS  
VE3IT, Harry Gloster, Brantford, ON  
VE3LUG, Grant Powers, Pickering, ON  
VE3MMU, Sandy Smyt, Oakville, ON  
VE3SKQ, Patricia Burke-Kurns, Midland, ON  
VE6ANT, Jack Spier, Medicine Hat, AB  
VE6AXV, Tom Armstrong, Stettler, AB  
VE6CU, Milo Zima, Edmonton, AB  
VE6CZ, Bob Milner, Edmonton, AB

**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*. ■

## 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 56, Arva, ON N0M 1C0.

**GERMAN RADIO AMATEUR**, 21-year old female student, looking for au pair place in Canada. Please contact Rols Keifer, DL2JT, Goerdeler Str 49, DW 7410, REUTLINGEN 11, Germany.

**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.

**FOR SALE:** Ten-Tec Paragon, Ten-Tec Hercules Amplifier, Ten-Tec tuner, all rack mounted: \$3700. Gordon Watt, VE4IF, 23 Mackie Bay, Winnipeg, MB R2Y 1V8, Tel (204) 885-6361 or 889-2990.

## 1991 CRRL Fall VHF-UHF Sprints

**General:** These are short contests. All modes are permitted. Operation must conform to CRRL and ARRL band plans. Use of 146.52 MHz or repeaters is not permitted. Results will be published in an upcoming *QST Canada*. Plan to join in the fun!

**Times:** All sprints except the 50-MHz sprint—1900–0000 local time. 50-MHz sprint—0600–0000 local time.

**Dates:** 902–3456 MHz—September 26; 432 MHz—October 2; 222 MHz—October 8; 144 MHz—October 14; and 50 MHz—October 26

**Scoring:** Separate scoring and logs for each band including 902, 1296, 2304 and 3456 MHz. Count one point per contact. Final score per band—total number of contacts multiplied by the number of grid squares contacted. Submit log sheets and score summaries, by 1991 November 30, to Dana Shtun, VE3DSS, 500 Willard Ave, Toronto, ON M6S 3R6. ■



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## The CRRL Field Organization Forum

### SECTION MANAGER ELECTION NOTICE: RESOLICITATION

To all CRRL members in the Ontario Section: You are hereby resolicited for nominating petitions pursuant to an election for Section Manager. For details on how to nominate, see the Maritimes-Newfoundland Section election notice below.

### SECTION MANAGER ELECTION NOTICE

To all CRRL members in the Maritimes-Newfoundland Section: You are hereby solicited for nominating petitions pursuant to an election for Section Manager. Name of the incumbent appears on page 2 of this *QST Canada*. A petition, to be valid, must carry the signatures of five or more CRRL Full members residing in the Maritimes-Newfoundland Section. It is advisable to have more than five signatures. Photocopied signatures are not acceptable and signatures must be on the petition. Petition forms, FSD-129-C, are available from CRRL Headquarters in London, Ontario, but are not required. The following form is acceptable:

..... (place and date)

CRRL Field Services Manager  
Box 7009, Station E  
London, Ontario N5Y 4J9

We, the undersigned CRRL Full members residing in the Maritimes-Newfoundland Section, hereby nominate ..... (name and call sign) as Section Manager for this Section for the next two-year term of office: .....(signatures and call signs) ..... (addresses with postal codes)

A Section Manager must be a resident of his or her Section, a licensed radio amateur holding a Canadian Advanced Amateur Certificate or equivalent, and have been a CRRL Full member for a continuous term of two years at time of nomination.

Petitions will be received at the CRRL Headquarters office until 1600 EST 1991 December 6. If only one valid petition is received, the person nominated will be declared elected. If more than one valid petition is received, a balloted election will take place. Ballots will be mailed from CRRL Headquarters by 1992 January 01. Returns will be counted after 1992 February 20. A Section Manager elected as a result of these procedures will serve for a two-year term of office beginning on 1992 April 01.

If no valid petition is received, the Section will be resolicited in 1992 April and May *QST Canada*. You are urged to take the initiative and file a nominating petition immediately. —Jack Strangleman, VE3GV, Field Services Manager

**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.

### REPORTS FOR JULY 1991

**Alberta:** SM: Don Wilcox, VE6CG; STM: VE6AKY; SEC/TC: VE6AFO; OO: VE6TY. No report available this month.

**British Columbia:** SM/SEC: Ernie Savage, VE7FB. British Columbia Public Service Net (BCPS, 3729 kHz) Manager Ford, VE7DDF, reports July check-ins: high—165, low—80, total 34229. Effective August 1, Jim, VE7JN, is the new Net Manager, and Dick, VE7BHR, is new Assistant Net Manager. British Columbia Emergency Net (BCEN, 1900 UTC, 3652 kHz) has a new Net Manager until Fergie returns in the fall: Ray, VE7BCL. Ray's Assistant Net Manager is Tom, VE7BNI. Ray reports 757 July check-ins. Both nets report that during most of July, band conditions were horrible, and net business was mostly conducted using relays. Please support our nets as they are friendly and need your support. We have a great many gaps in towns and villages to the north and the east. We hope to see many of our net friends in August and September. Cheers for now.

**Manitoba:** SM: Bill Crooks, VE4JR; ASM: VE4IX; STM: VE4JA, SEC: VE4PN; NMs: VE4LB, VE4IX, VE4TE. Many clubs and individuals participated in the ARRL-sponsored Field Day on the weekend of June 21–22. Winnipeg Amateur Radio Club (WARC) had 16 operators scheduled for the 24-hour period, along with lots of help from visitors and friends. Also on the afternoon of June 21, between 1800 and 2000 UTC, a simulated emergency test (SET) was conducted by our SEC, Dave, VE4PN. Thanks go out to all individuals and clubs that participated in this exercise. I am sure that we all gained valuable experience in using proper procedures for passing and receiving traffic, and how to operate under a net control. Let's hope that we will all profit from any mistakes so that things will go along without too many hitches in the SET planned for September 28. Let's all join in and make this test success. Currently, most HF communications are suffering with the sunspot activity cutting down on Amateur Radio propagation. Some days, there is absolutely no activity on any bands except the VHF and UHF bands. Hopefully, things will have subsided by the time you read this, allowing us to operate the way we used to.

**Maritimes-Newfoundland:** Acting SM: Carl Anderson, VE1UU; STM: Mel Lever, VE1VX; BM: Brent Taylor, VE1JH. No report available this month.

**Ontario:** Acting SM: Larry Thivierge, VE3GT @ VE3WQ; BM: VE3GSA @ VE3JF; SEC: VE3GV; STM: VE3CYR @ VE3INF; TC: VE3EGO. As we head back into our fall operating schedules, the National Traffic System (NTS) nets operating within the Ontario Section are as follows (\* denotes a Section net; others are local nets):

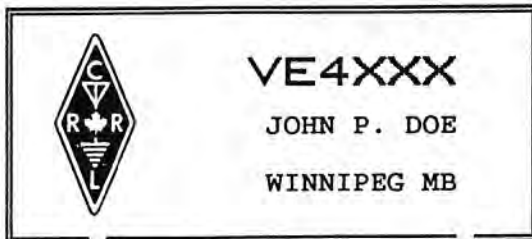
Net	MHz	UTC/day	Manager
OQN(D)*	3.667	2100dly	VE3ORN
OLN	147.06 (+)	2330dly	VE3POJ
OQN(E)*	3.667	0000dly	VE3CYR
OPN*	3.742	0000dly	VE3AJN
KTN	147.36 (+)	0200TuThSa	VE3AJN
OQN(L)*	3.667	0300dly	VE3GSQ

Remember that the third word in NTS is "system". By checking into "out-of-Section nets", you thwart the system and siphon off your Section's traffic. You are encouraged to participate in and support your Section traffic nets. Due to deteriorating band conditions on 40 metres and other factors, VE3OTH has

decided to take the HF port of his BBS on 7.093 MHz off the air. It has served the Sudbury area quite well over the past several years. John thanks all users, especially Claude, VE3WQ, who was his major source and outlet of traffic and bulletins. It appears that the DXCC backlog at ARRL Headquarters has just about been eliminated. VE3BGX, a navy buddy and, along with myself, a recent member of the PL Club, has his DXCC total up to 312. VE6SIG is the QSL manager for VE8RCS. VE3LSR, operating on 444.35 MHz, is now equipped with autopatch facilities covering a number of exchanges in Barrie and surrounding area. If you are interested in supporting the LSR Repeater Association, please drop a note to VE3EKF or VE3MIC, or leave a message for them on the VE3INF BBS. Regretfully, I report that VE3IT has become a Silent Key. Gogma repeater, VE3OPO, using the call VE3OPP, was used by the Ontario Provincial Police officers who were licensed amateurs to supplement their communications activities in the hunt for three fugitives in Northern Ontario. As he patiently awaits three overdue cards, including one from two years ago, VE3EFX has expressed concern about some Canadian stations operating with special prefixes—those that do not bother to follow up with QSLs despite being sent SASEs. Bill says that this practice gives VEs a bad name. A line was missed in our August column. Special thanks should go to VE3KBX and VE3BDJ for their work on VE3UCR repeater. VE3DGC and the others listed were among those who helped.

**Quebec:** SM: Harold Moreau, VE2BP; STM: VE2EDO; BM: VE2ALE. I hope that everyone enjoyed the hot summer and is now ready to resume activities. Les activités sur les différents réseaux seront de retour avec le fin de l'été. Prompt rétablissement à Camil, VE2SN, qui est présentement à l'hôpital. Avec regret, j'ai vous annoncer le décès de Guy, VE2CC.

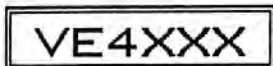
**Saskatchewan:** SM: Joan Lloyd, VE5JML. Saskatoon amateurs staffed an all-mode Amateur Radio display during the Saskatoon Exhibition. VE5BW, VE5CD, VE5CPU, VE5EE, VE5IC, VE5JJP, VE5LAA, VE5OI, VE5RJR and VE5RVP assisted Bob, VE5FY, with communications for the Saskatchewan Air Show. The VE5NJR repeater group held its annual picnic on July 7 at Fishing Lake. Congratulations to the Northern Saskatchewan Amateur Radio Club for the fine work put into the July 19–20 hamfest. A fine job! 175 amateurs and friends had numerous eyeball QSOs and exchanged ideas. Saskatchewan Amateur Radio League (SARL) held its annual meeting on July 20 at the hamfest. 1991–92 executive is President—Eric, VE5HG; Vice President—Bruce, VE5ND; Secretary—Jerry, VE5DC; and Treasurer—Joan, VE5JML. The Multiple Sclerosis 150-kilometre bike tour from Regina to Fort San was staffed by VE5BV, VE5BW, VE5CH, VE5CPU, VE5DCP, VE5IC, VE5KZ, VE5RJR, VE5SI, VE5UU and VE5VR. VE5BV, VE5EE, VE5ELJ, VE5MH, VE5SF, VE5UU, VE5VP and VE5VR provided communications for the July 27 5–15-kilometre Buffalothon. Buffalo Days parade marshals on July 29 were VE5BW, VE5EE, VE5GLF, VE5HL, VE5JML, VE5UU and VE5WJ. Welcome to Tom, VE5TH, the new DEC for Regina. To all amateurs who recently provided communications and staffed displays, thank you. Each event helped to raise public awareness and promote our hobby. 73.



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## Some IOTA Friends

Dedicated IOTA chasers try to do their part in activating islands for others. In the photos to the right, Luis, CT4NH, who was recently QRV from Flores Island, Azores. In the photos below, Hardy, DL8NU from Germany whose 1989 vacation took him to several islands off the coast of Brazil.

### CU8IOTA

Luis, CT4NH, was QRV from EU-89, Flores Island, Azores, using the special call sign CU8IOTA (Islands-on-the-Air). In the photo to the right, Luis affixes radials to his Cushcraft A-3 vertical. The local PTT site, shown in this photo, gave him an excellent 360-degree shot to all parts of the world. If you missed Luis during his three-day stay, check 14.175 MHz at 2200 UTC daily. CU8AA and CU8AG in Flores can often be found here contacting stations in Portugal and North America.


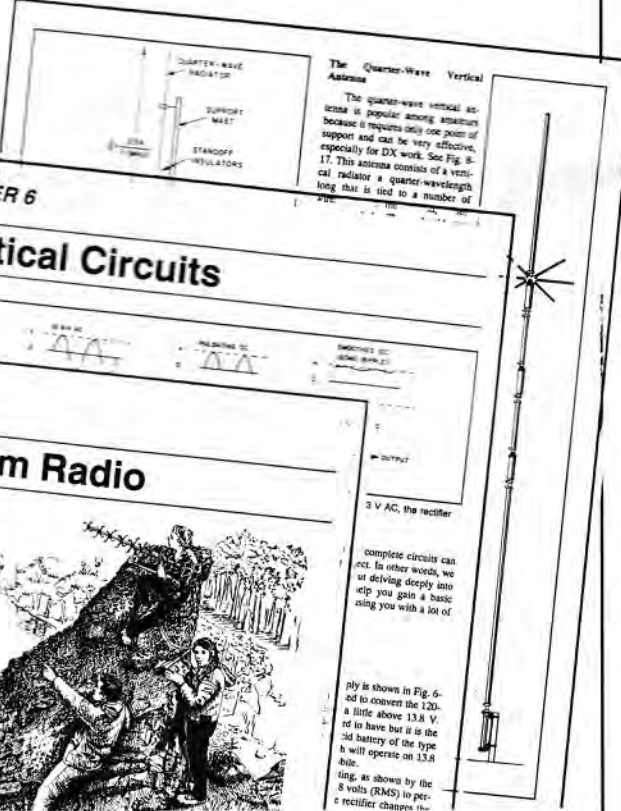
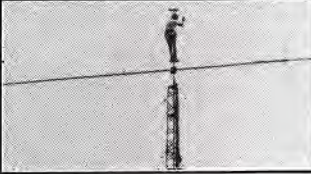
### BRAZIL IOTA


In the four photos below, top left: This rented motorhome took Hardy, DL4NU, to SA-28, Sao Sebastiao Island. As PY2ZDL/PY2, he made 780 QSOs. Top, right: Operating as PY2ZDL/PY6 from Itaparica Island, Hardy made 800 QSOs. Equipment included an Atlas transceiver, a simple vertical antenna and a solar battery system. Between band openings, he cooled off in the Atlantic and enjoyed the white sand beaches of Itaparica, hi. Itaparica counted for SA-23. Bottom, left: At SA-29, Ihla do Sape, a tiny island in the Baia da Ihla Grande group, Hardy used the call sign PY2ZDL/PY1. He made 115 QSOs in only two hours. Temperature on this exotic, uninhabited island, about one hour's sailing time from Parati, Brazil, was 35 degrees C. Bottom right: From his SA-16 location on Sao Luis Island, Hardy, operated as PY2ZDL/PY8, making another 800 QSOs. ■



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## CCIR WARC-92 Report Finalized

*The following is courtesy of WARC Countdown, published by IARU. Since early 1990, the IARU Secretariat has sent IARU member societies WARC-92 documents originating with ITU's International Radio Consultative Committee (CCIR). Recently, CCIR consolidated its most important WARC-92 technical and operational documents into a single document. Portions of this consolidated document pertaining directly to Amateur Radio are reprinted below:*

### Section 5

#### Compatibility considerations arising from the allocation of spectrum to HF broadcasting.

##### 5.1 General considerations

The agenda of WARC-92 calls for the possible extension of the frequency spectrum allocated exclusively to HF broadcasting. This may extend HF broadcasting allocations into spectrum at present allocated to other services. Existing assignments would need to be displaced to make room for the new broadcasting allocations. This displacement of existing assignments to other parts of the spectrum should be organized in an orderly manner and should not harmfully affect the quality of operations for the stations concerned. The implementation of techniques such as reduced carrier single-sideband modulation for the HF broadcasting service should be considered in the interest of enhanced spectrum efficiency and access to the HF bands.

##### 5.2 Sharing considerations by service

###### 5.2.1 Amateur and amateur-satellite services

Sharing arrangements now exist between the amateur service and:

- the amateur-satellite service, in exclusive amateur and amateur-satellite service HF bands;
- the fixed service in six bands (3.5, 7, 10.1, 14.25, 18.068 and 24.89 MHz);
- the mobile service in two bands (3.5 and 24.89 MHz); and
- the meteorological aids service (24.89 MHz).

The amateur-satellite service can only share the HF bands with the amateur service, and under certain circumstances, with the meteorological aids service. **Reason**—low signal-level service.

The sharing of frequency bands by the amateur and broadcasting services is undesirable and should be avoided. **Reason**—system incompatibility between

broadcasting and amateur services.

##### 5.4 Dynamic frequency sharing

Dynamic frequency or real-time frequency management is a useful tool for providing communications circuits that are not otherwise possible because of interference constraints. Dynamic sharing implies operation on a secondary basis where there is no possibility of a claim for interference-free communication. This type of sharing is possible with frequency-agile transmitting and receiving equipment made possible by modern technology. Dynamic frequency sharing is enhanced when one service operates with high power on known or published frequencies (for example, the broadcasting service), and the dynamic service operates with low power involving two-way communication (for example the fixed, mobile and amateur services).

##### 5.6 Encouraging the introduction of single-sideband (SSB) modulation

The use of SSB in the HF bands allocated to the broadcasting service will reduce overall interference levels and contribute to HF spectrum efficiency. Implementation of SSB should therefore be encouraged. Consideration should also be given to limiting HF broadcasting to SSB in any band extensions agreed to at WARC-92. As new HF transmitters currently being installed are capable of SSB operation, the emphasis should be on early manufacture and sale of low-cost receivers, and consideration should be given to advancing the date of the final transition to SSB and the cessation of HF double-sideband broadcasting.

##### 5.7.1 Amateur and broadcasting services

The 7100–7300-kHz band is allocated exclusively to the broadcasting service in ITU Regions 1 and 3, and exclusively to the amateur service in Region 2. In general, this geographical sharing works despite the large disparity in signal levels between the two services. However, during periods of good propagation between Regions 1 and 2, broadcasting transmissions can produce signal strengths in Region 2 sufficiently high to cause serious interference to the sensitive receivers used by the amateur service. The degree of interference experienced in Region 2 varies with the time of day, season, solar activity and distance from Region 1.

### Section 16

#### Technical and operational characteristics of services including sharing con-

siderations that may be affected by changes in the table of frequency allocations below 3 GHz.

##### 16.6 Amateur and amateur-satellite services

###### 16.6.1 Service objectives

The amateur and amateur satellite services are used for self-training, intercommunications and technical investigations carried out by amateurs, that is, by duly authorized persons interested in radio technique, solely with a personal aim and without pecuniary interest. In approximately 163 countries worldwide, there are over two million licensed amateurs stations. This number is growing at a rate of about 7% per year. The amateur and amateur-satellite services have as an objective the continuation of their existing missions, namely: providing essential communications in event of natural disaster; training of operators and technicians in radiocommunications and telecommunication technology; contribution to the advancement of the state of the art in radiocommunication; and enhancement of international understanding and goodwill.

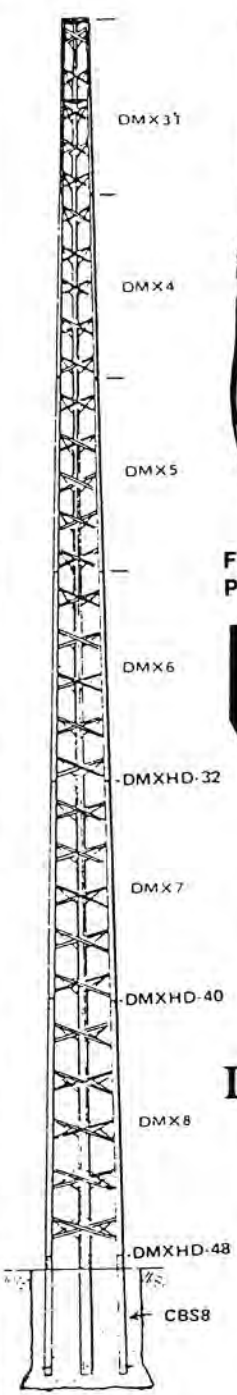
###### 16.6.3 Frequency aspects

The amateur and amateur satellite services use frequency bands throughout the spectrum with different propagation characteristics and bandwidths in accordance with traffic loading. These frequency bands are usually organized into subbands according to various types of emission or application defined either by voluntary band planning or by national regulations.

Administrations do not generally assign specific frequencies to amateur stations. Dynamic or real-time frequency sharing is commonly used in the amateur bands. There is some voluntary channelization in parts of the bands above 30 MHz, for radiotelephone repeaters and packet radio relays.

Concerning the amateur-satellite service, some amateur satellites use wide-band transponders that relay signals by translating a frequency band containing the signals of many stations to another frequency band. Narrow band transponders are used for other satellites, particularly those in low earth orbit.

The service objectives of both the amateur service and the amateur satellite services can be met only by maintaining adequate spectrum.



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## Mini-Tornado at St. Hyacinth

From VE2CAM we received a packet message about a potentially serious incident at St. Hyacinthe, Quebec. On June 28 at 1800 local time, the town was hit by a mini-tornado. Many trees had fallen, wires were down and commercial signs were damaged and creating hazards. The municipal police requested help from the local unit of Réseau d'urgence, the emergency organization of RAQI, Radio Amateur du Québec. The request was to help patrol the town and to report any potentially dangerous situations.

Within five minutes, an emergency net was in operation. During the following hour and a half, no less than 50 potential problems were reported and relayed to the police. Communications were carried out on 2 metres via repeater VE2RBE, located at the St. Hyacinthe hospital where it is able to be connected to the hospital's emergency power system. Those taking part included Guy, VE2MAA, who heads the emergency group; Rejean, VE2PAG; Miguel, VE2MTN; Pascal, VE2GAT; Marc, VE2GGM; Jean-Luc, VE2JLM; Marco-José, VE2NIN, and Rejean, VE2DRH.

Réseau d'urgence was founded 13 years ago by Jacques, VE2AZA. It is sponsored by the Bureau de la protection civile du Québec. It has units in many regions of Quebec. These are linked to VE2RUA, located at Bureau headquarters near Quebec City. While it is not affiliated with ARES, Réseau d'urgence has similar objectives and is organized to collaborate with ARES in any emergency situation involving traffic between Quebec and other provinces.

### A MAVERICK ELT

Tony Lelieveld, VE3DWI, sent along a story about an emergency in Wawa in Northern Ontario. Fortunately, this story has a happy ending. Tony writes:

"As I entered the shack and turned up the volume on my Icom R-7000 receiver, I was alerted to the sound of an emergency locator transmitter (ELT) An ELT is a low-power transmitter installed in an aircraft to facilitate finding the aircraft's location in case of an accident. It is activated automatically upon impact. The sound transmitted by an ELT is similar to a fast warble used by fire trucks and ambulances. Once you hear it, you will never forget it. ELTs transmit on 121.5 and 243 MHz. The signal we were hearing was on 243 MHz. Signal strength was about S2.

At 2308 UTC, I contacted the Trenton Search and Rescue Centre and talked with

Captain Dan Rag. He checked for any military air traffic in the Wawa area and at our local airport. There was none. Mark Owen, a local pilot, was contacted. He agreed to do an initial search from the air. The weather was not very good as it was raining lightly. While Mark was taking off, I kept an ear to the radio and maintained contact with Trenton. The ELT signal remained constant. At Trenton, it was decided to send a Buffalo aircraft to the

Wawa area to conduct a search.

"In the meantime, I received a phone call from the weather observer at the Wawa airport. She was in radio contact with Mark and advised that Mark was unable to hear any signals at 121.5 MHz, the civil ELT frequency. His aircraft was not equipped to receive the military ELT frequency, 243 MHz. We decided that I would take a small receiver to the airport and I would go up with Mark and search

## Field Organization Reports July 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 1130.

Reporting	ARES Members
VE3GV (VE3s AFP, GNW, LPM, SV, TNL)	625
VE4JR	56
VE6AFO (VE6s AMM, CBH)	306
VE7FB	143

### CRRL Section Traffic Manager Reports

Call	Orig	Rcvd	Sent	Divd	Total
VE1DLC	1	9	4	4	18
VE1YS	0	5	5	1	11
VE1ALU	2	1	3	0	6
VE2GOP	0	35	37	0	72
VE2BP	3	16	14	19	52
VE2WH	1	12	4	17	34
VE2JN	0	4	6	9	19
VE2ALE	0	4	4	1	9
VE3GNW	0	31	43	0	74
VE3GSQ	0	42	26	1	69
VE3GT	0	42	33	3	68
VE3DVE	0	21	40	1	62
VE3CYR	0	48	12	1	61
VE3WV	0	41	7	0	48
VE3AJN	0	30	10	0	40
VE3NVJ	1	12	18	0	31
VE3BDM	0	9	16	0	25
VE3LPM	0	10	12	3	25
VE3DBG	8	2	8	2	20
VE3KZC	2	7	7	2	18
VE3BAJ	0	2	8	1	11
VE3SB	0	2	6	2	10
VE3KXB	0	2	2	1	5
VE3MNI	0	0	4	0	4
VE4FP	20	50	50	20	140
VE5KZ	4	24	20	3	51
VE5JML	0	2	0	0	2
VE6CE	5	12	13	5	35
VE7BNI	20	114	174	8	316
VE7BCL	1	73	35	12	121
VE7FAZ	0	45	49	1	95
VE7ANG	0	38	41	2	81
VE7XA	0	15	32	4	51
VE7CCJ	6	14	21	0	41
VE7FME	0	13	15	0	28
VE7EGM	0	12	8	4	24
VE7OM	1	9	12	1	23
VE7FB	5	4	5	0	14
VE7CZW	0	10	0	0	10
VE7BZI	1	3	1	3	8
VE7DZ	0	6	1	0	7
VE7GKA	0	3	3	0	6
VE7BVZ	0	3	3	0	6
VE7ALV	1	4	0	0	5
VE7FVG	0	4	0	0	4

### National Traffic System

Net (Mgr)	Sess	QNI	QTC
APN (VE1YS)	29	112	58
KTN (VE3AJN)	14	110	16
OLN (VE3POJ)	31	679	34
OPN (VE3AJN)	31	465	100
OQN-D (VE3ORN)	23	41	17
OQN-E (VE3CYR)	29	71	56
OQN-L (VE3GSO)	26	28	17
MEPN (VE4LB)	28	564	14
MMWX (VE4TE)	31	375	24
BCEN (VE7EJU)	31	757	311

### 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 (101), VE3BDM (71), VE3CYR (71)

### 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	86	2
ARES Ontario (VE3GV)	1	5	0
CRRL ONTARS (VE3FQV)	31	7528	0
Grey-Bruce (VE3WV)	28	71	22
Grey-Bruce SS (VE3WV)	28	72	20
Aurora-1 (VE4AHG)	26	850	7
Aurora-2 (VE4FP)	25	939	4
ARES Saskatchewan (VE5FY)	4	93	0
Prairie WX (VE5EX)	31	579	0
ARES Alberta (VE6AKY)	8	148	4

for the signal on 243 MHz.

"The first area we checked was Wawa Lake where we knew of several float planes tied down at the docks. The wind had been quite strong during the day, and it was possible that an ELT had been activated by a violent bump against a dock. We still heard the signal on 243 MHz, but it didn't appear to be coming from the lake. Flying over the town of Wawa, however, we copied a stronger though still weak signal.

"We landed, boarded my vehicle, and headed for town. The signal became stronger as we moved. It was now apparent that the signal was coming from the centre of town. We contacted Search and Rescue on the local repeater phone patch and advised Captain Rag that the signal was coming from within the town itself and that it was unlikely that it was the result of an aircraft crash. On the basis of this information, he recalled the Buffalo aircraft which had now been airborne for about 20 minutes. We promised to contact Captain Rag as soon as we had more information.

"I did not have a directional antenna, but with some ingenuity, I was able to jury rig an antenna that had some directional characteristics. We succeeded in narrowing down the area from which the signal was coming to a few streets. We had already contacted pilots in town to

ask if any of them had an ELT at home. None of them had, so we proceeded to do a door-to-door search. We were soon directed to a house that belonged to a remote lodge operator. Sure enough, he had taken delivery of an ELT that day, following its return from a routine factory check. The ELT was in his basement. No antenna was connected, but the switch was in 'ARM' position. I moved the switch to 'OFF' and the signal went off the air.

We called Trenton again and informed Captain Rag. Apparently, the ELT had been shipped with the switch in 'ARM' position, and it had received a bump in transit, a bump that was severe enough to activate it. The signal was too weak to be picked up by Sarsat, the search and rescue satellite. As for the 121.5-MHz signal that was never picked up, I concluded that the higher military frequency, 243 MHz, had much better penetration. It was thus able to radiate a sufficiently strong signal to be received at my home which was about one kilometre away.

"Both ourselves and Search and Rescue were relieved that this incident had a happy ending. It could have been a *bona fide* downed aircraft. Captain Rag was amazed that we were able to locate the ELT without sophisticated equipment and he thanked us profusely. Needless to say, we departed with a very warm feeling...."

*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.*  
—Bob Boyd, VE3SV

#### WE NEED YOUR HELP

Please check the mailing label on the cover of this magazine. If you are licensed, your callsign should appear after your name. If it does not, please tell us the seven-digit number on your mailing label, and the callsign we are missing. Send the information to CRRL, address below.

Moving? For interrupted delivery of *QST* and *QST Canada*, please send your change of address notice to CRRL, Box 56, Arva, ON N0M 1C0, at least eight weeks before you move. Don't forget to quote your callsign and the seven-digit number on your mailing label. —Ray Staines, VE3ZJ

## 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.

Count me in! Here's my application for CRRL membership!

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Total amount enclosed (add cost of membership, monthly journals and any GST): \_\_\_\_\_

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### A Badge of Honour



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(Founded 1947)

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**HOT**

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