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## QST CANADA

QST Canada (ISSN 0840-1670) is published monthly by CRRL Publishing, Inc., to provide radio amateurs, others interested in radio communications and electronics, and the general public with information related to the science of Amateur Radio communications.

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### ABOUT THE COVER



Stephane Niles, VE1STE, 1993 "Young Amateur of the Year", with Moncton Area ARC President Ann McGinnity, VE1MCG, father Leonard Niles, VE1LJN, and Moncton Area ARC Secretary David Cochrane, VE1DAC. Story on page 3. ■

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

## Radio Amateurs of/du Canada—RAC

May 2, 1993—a truly historic day for every Canadian radio amateur. The day when at long last we are united under one banner; when rivalries and divided loyalties give way to a new singleness of purpose, and we no longer have to "choose you this day whom ye will serve."

Now Radio Amateurs of/du Canada (RAC) is here to serve us all, and it will be up to us to give it the support it must have to do its job effectively.

For years, many members of both CARF and CRRL have devoted time and effort to work in the interests of all Canadian radio amateurs. But it is a sad fact that the combined memberships of CRRL and CARF was outnumbered three to one by those that belonged to neither organization.

Whatever the reasons for this lack of interest in the past, we now all need to join up, so that those who will guide the affairs of RAC can do so strengthened by the knowledge that they really do represent the diverse interests of Canada's 36,000 licensed radio amateurs.

Those interests are indeed diverse. Our individual points of view may clash, and our personal preferences may differ. Some of us are addicted to contests, while others detest them. DX, packet, moonbounce, ATV, homebrewing... there's room for all of these in our absorbing hobby. If you feel your particular aspect is not being treated right or getting enough attention, it's up to you to do something about it. Take your case to RAC. But first of all, join the organization!

Most of us across the country belong to local Amateur Radio clubs. These clubs do an admirable job attending to our social and technical needs, involving us with our communities and training us in emergency procedures. Most of these clubs maintain close and friendly relationships with municipal and regional authorities. But they cannot negotiate for us with the Department of Communications (DOC), or speak for us in the councils of the International Amateur Radio Union (IARU) or the ITU (International Telecommunications Union). These and many other matters of wider than local concern—like sending an Amateur Radio representative as part of the DOC delegation to future world radio conferences—will be key responsibilities of RAC.

One welcome benefit resulting from the absorption of CARF and CRRL into RAC is the wealth of talent and experi-

ence that can now be channeled into that single organization. The RAC interim board of directors is a blend of these talents. And when elections are held to determine the composition of the official board, there will be an even greater wealth of talent for the RAC membership to draw upon. That is, provided that the many thousands of radio amateurs hitherto unaffiliated with CRRL or CARF throw their support and the weight of their expertise and fresh viewpoint into the new organization. The winds of change they bring may fill our sails for the journey into the future of Amateur Radio in Canada. —David Adams, VE3HBF ■

### ITU RESTRUCTURED

The International Telecommunication Union (ITU) has undergone restructuring. The ITU is now organized into three sectors: development, standardization and radiocommunication. The work of the Radiocommunication Sector will be conducted through world and regional radiocommunication conferences and radiocommunications assemblies, held every two years. Thus "World Administrative Radio Conference" and "WARC" will disappear from our lexicon.

The first World Radiocommunication Conference will be held in November 1993 (WRC-93). Its only business will be to develop agendas for WRCs to be held in 1995 and 1997. Radiocommunications assemblies, the first of which will overlap WRC-93, will perform the previous functions of the CCIR through plenary assemblies, including provision of the technical basis for the work of future WRCs.

Under the new Geneva Constitution and Convention of ITU, IARU will continue to participate in the work of ITU at all conferences and assemblies as a very active observer. In the future, IARU must be prepared for ITU conferences and assemblies on a continuing basis, not sporadically as in the past.

### NEW IARU MEMBERS

The independent republics of Slovenia and Croatia have been accepted as IARU members.

Applications for IARU membership have been submitted from the Turks and Caicos Islands and from Macedonia. ■

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.

## REMOTE ANTENNA SYSTEMS

Regarding Earle Smith, VE6NM's proposal (1993 February *QST Canada*, page 1), this is entirely feasible. Here's the way the future might look:

I am sitting with my family in the TV room. I have a "zapper" (remote control) in my hand directed at the ham monitor (HM) which functions as a spectrum display for any amateur band. I can see a free spot, and I push a button to initiate what I want to do, selecting power, mode, and direction of the antenna up on the hill at the remote RX/TX processing site.

QSO calling would be by synthesized

voice, or on CW by tape. When a contact was made, the QSO would proceed normally. At the end, a paper slip would come out of a printer—for affixing to a QSL card if desired. My family would watch what went on, and any member could go ahead with a radio journey to a remote or exotic place, as I would be in control. The advantages would be:

- no more ham shacks
- no more radio gear in the house
- all in the family could participate
- perhaps no more QSL cards;

instead there could be automatic reciprocal confirmation via computer

- no more QSL bureaus
- no expenses except rental of telephone lines, etc...

• father would be upstairs with the family and a marriage would be saved!

How is that for hamming by buttons? The only problem is when asked "What is the rig and QTH?", how would I respond? "Remote super site, not mine, shared with thousands of other amateurs?" We'd find an answer, no doubt.

I'm smiling of course.... It's a bit of a leg pull! —*Siegfried Bernhoff, VE3JDA*

## MORE ON TOWER PROBLEMS

Re "CRRL and CARF..." (1993 April *QST Canada*, page 4) I am concerned that Dana Shtun's attitude may be detrimental to Amateur Radio in the long run. Apparently, he, like many, believes that we should have *carte blanche* to erect any antenna and supporting structure we like.

Although I do wish we could enjoy our Amateur Radio activities without political interference, I think such a notion is neither sound nor safe. I have to question the judgement of any amateur who feels he or she has a right to install a 70-foot tower and triband yagi on a 40-foot lot without consulting neighbours whose lives could be in jeopardy should the tower collapse.

Recommendations have appeared in *QST Canada* regarding "modest" antenna installations, use of common sense and discussion with neighbours. These I fully support. I'd like to add this guideline: your tower location and height should be determined so that most or all of the structure remains within your property limits in the event of failure.

Mr. Shtun's comment, "As long as we operate within the terms of our licence, we should be free to erect towers and string up antennas as we please," cannot possibly lead us into a positive position with municipalities invoking new by-laws. To say something similar during negotiations with DOC, municipalities or neighbours would certainly short circuit the possibility a successful outcome.

We have to remember it is our neighbours who are demanding new antenna by-laws. Municipalities don't do things without someone lobbying for a change. Operation of an Amateur Radio station is by federal statute, but allow antenna structure placement without local input would not be good government. DOC needs to adopt a uniform policy on interaction with local government. Federal government should have the greater control, but local government should have some say. —*Michael Spenuk, VE3JTQ* ■

### 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.

#### Officers

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\*Voting member, CRRL Board of Directors

# Moncton Teenager is Canada's "Young Amateur of the Year"

York Region Amateur Radio Club (YARC) of Newmarket, Ontario, has named Stephane Niles, VE1STE of Moncton, New Brunswick, as the first winner of its national Young Amateur of the Year Award. Presentation of the award, consisting of an inscribed certificate and a cheque for \$500, was made at the 1993 March 15 meeting of the Moncton Area Amateur Radio Club (MAARC), by MAARC President Ann McGinnity, VE1MCG.

Stephane's father, Leonard Niles, conspired with the club's executive to keep the winning of the award a secret until the actual presentation, and the boy's surprise and delight was plain to see.

Purpose of the Young Amateur of the Year Award is to publicize and promote Amateur Radio among the youth of Canada. Stephane, at the age of 15, has made a significant contribution to his club, the MAARC. He acts as net control for the club weekly two-metre net, and he has been coordinator of two-metre communications support for the Moncton Motor Sports Club.

Stephane is fluently bilingual. He is studying hard in first year at senior high school. He has been active in Boy Scouts, and hopes to introduce a radio training program to his scout troop.

The 1993 "Young Amateur of the Year" is studying his Morse code, and intends to complete requirements for the more advanced levels of qualification, opening the way to operating on all bands with all modes, though school work must take priority at present. Stephane has not made up his mind yet how to use his \$500. He hopes to put it towards a dual-band transceiver, or to use it for a driver training course.



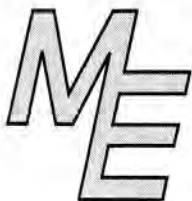
Stephane Niles, VE3STE of Moncton Area Amateur Radio Club was chosen by York Region Amateur Radio Club of Newmarket, Ontario, as Canada's first "Young Amateur of the Year".

Stephane's father, Leonard Niles, took the club Amateur Radio course together with his son, and is licensed as VE1LJN. Son Stephane plans to attend university, and wants to work in the electronics field, specializing in space communications.

Nomination for the award was made on behalf of the club by MAARC Secretary David Cochrane, VE1DAC, who was one of Stephane's instructors. MAARC education chairman and course coordinator is Bill Gillis, VE1EX, who is proud of the fact that MAARC has produced more than 100 new amateurs in the past two years, more than all other Maritime-area clubs combined.

John Ellison, VE3WHY, Chairman of the York Region Amateur Radio Club, expressed the club's pleasure that such a fine young man from the Maritime provinces had merited the first "Young Amateur of the Year" award. He expressed the hope that clubs and individuals from coast to coast would be encouraged to spotlight other youngsters who would compete for the next award.

The York Region Amateur Radio Club's Young Amateur of the Year Award is modelled on a similar award now well established in Britain. This award has given great stimulus to youth participation in Amateur Radio there. ■



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## RAC Arrives on May 2

After four years of negotiations, Radio Amateurs of/du Canada (RAC) will become a reality when its provisional board of directors meets in Mississauga, Ontario, on May 2.

Both the Canadian Radio Relay League (CRRL) and the Canadian Amateur Radio Federation (CARF) are holding final board meetings on May 1. This is when both organizations will be dissolved to make way for the new national Amateur Radio body.

The final steps were agreed to at an RAC executive planning meeting in Cobourg, Ontario, on February 28. Beginning in July, a new expanded version of *The Canadian Amateur (TCA)*, will take over from *QST Canada* and the present *TCA*. Members of CARF and CRRL will have the unexpired portions of their memberships applied to membership in RAC. Those who hold memberships in both CRRL and CARF will carry their membership into RAC for the total of their unexpired portions. All will receive the new *TCA*.

A board of regional directors representing amateurs in Canada from coast to coast, and a national team of executive officers will be installed. RAC national headquarters will eventually be in the national capital region of Ottawa, Ontario. An interim administrative office will be set up in Kingston, Ontario.

The Honorable Perrin Beatty, Minister of Communications, has been invited to address the RAC board at the May 2 meeting. 1993 Canadian Amateur Radio Hall of Fame awards will be presented at that meeting, and the Secretary of the International Amateur Radio Union (IARU) World Administrative Council to RAC about membership in IARU.

### SHTUN ADDRESSES SPACE COMMUNICATION STUDENTS

CRRL President Dana Shtun, VE3DSS, recently gave a presentation to third-year space communication students at York University's Physics Department. Many aspects of Amateur Radio were covered, including moonbounce.

This spring, some of the students addressed will meet at Algonquin Park, site of the giant radio telescope, to see VE3ONT in action on 432-MHz EME. Operators will include VE2DFO, VE3SO, VE3VD and VE3DSS. They expect that the 150-foot diameter dish will enable them to work stations running only 100–150 watts to a single yagi antenna.

Dana also recently participated in a two-hour call-in radio program: "Ham

Radio and More", aired over Arizona station KFNN-AM. The topic was Canadian Amateur Radio. Program host was Len Winkler, KB7LPW.

### SKITREK PRESENTATION IN SINGAPORE

The CRRL audio-visual presentation on the role of Amateur Radio in the 1988 Canada-Soviet Transpolar SkiTrek is to be shown during the giant Amateur Radio conference, Asia Telecomm 1993, which will be held in Singapore on May 17–22. This will be the first showing in Asia of this widely acclaimed documentary record of this unique joint expedition by Canadian and Soviet skiers.

### AMATEUR RADIO SUPPORT FOR COUSTEAU CAMPAIGN

Details of support for this project from radio amateurs are still vague. A recent press release from F6FOZ declared a "Worldwide Amateur Radio and CB operation on DECA and VHF in support of Cousteau's project for the Rights of Future Generations, June 5–6, 1993." The release announced "...several Amateur Radio operations from high spots—historic, geographic, symbolic or tourist".

The Cousteau campaign is apparently seeking to collect millions of signatures

for a petition on the "Rights of Future Generations". Amateurs would use special QSL cards with a detachable part to be returned to the Cousteau team with their own signatures.

For more details on this well intentioned project, contact Pierre Chastan, F6FOZ, Box 20, 95180 Menucourt, France.

### NIGHTLY 1296-MHZ CONTACTS

Ted Sparrow, VE3BQN of Elmvale, Ontario, maintains daily contact over 405 miles with Doug Moser, WA2LTM in New Jersey, on 1296 MHz. Ted runs four water-cooled 7289s into 7/8-inch heliax to a 55-element loop yagi, soon to be replaced by four yagis. Ted also has a 16-foot dish for moonbounce.

### SPECIAL PREFIXES

To commemorate the 200th Anniversary of the City of London, Ontario, Ontario stations may use the special prefix CJ3 on 1993 June 15–July 15.

To commemorate the Centennial of Ontario Provincial Parks, Ontario stations may use the special prefix CF3 on 1993 July 1–31.

To coincide with the Northern Alberta Hamfest, Alberta amateurs may use the special prefix CH6 on 1993 May 28–30.



Can you top this? Teulon, Manitoba has seven—count 'em, seven—radio amateurs in one family. Meet the Arsenault family: back row: Paul, VE4AEY (the dad), and Jean, VE4BEL (the mom); middle row: sons Bruce, VE4BWA, Rick, VE4ELF, and Bruce's wife Gina, VE4NSU; and front row: daughter Wendy Perrier, VE4WND. Absent: Rick's wife Judi, VE4JDI. ■



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# ICOM



## VHF-UHF... our Future

It seems like only yesterday that a bunch of us teenagers got bitten by the VHF bug. We found ourselves pulled into the fascinating world above 50 MHz and quickly discovered two major camps occupying the bands. At one end were the SSB and AM crowd ragchewing and chasing DX using homebrew and commercial gear at power levels from a few watts to one kilowatt. Then there was the other group on FM, running a few watts using converted commercial radios. This was back in 1968 when band planning was simple and the bands above 50 MHz were virtually empty. Mobile communications were just starting up in earnest, and we radio amateurs had just embraced the concept of repeater operations.

Over the last few decades we have seen a steady increase in both SSB and FM operation above 50 MHz, the SSB group occupying small chunks of each band above 50 MHz and the FM group pretty well occupying the rest. The result, of course, has been the eventual saturation of our main FM bands at 144 and 440 MHz along the Canada-US border. This led to conflicts as the FM groups tried to grapple with the need to grow along non-traditional paths. So, as our most popular bands filled up, our other bands lay fallow, used only by SSB groups who traditionally operated on as many bands as possible above 50 MHz, and by a few FM experimenters who understood the need for all of us to use our resources better.

We do need to get the word out to all our FM repeater coordinators and our 35,000 fellow amateurs that they can all join in protecting our resources by not putting all their eggs in one or two baskets—or bands. We need coordinators to urge us to start using our 50- and 220-MHz bands as effectively as we have our 144- and 440-MHz FM assignments.

In addition, our digital operators are fast filling up the last available 144 MHz assignments and we need to get them using 220 MHz as well as the 50-, 902- and 1240-MHz bands for links and BBS activities.

I've been at this VHFing for 25 years now, and I have heard the incessant arguments by some that the other bands cannot be used because there is no gear. Guess again. Today, SSB groups are active on all bands from 50 MHz through to 10 GHz. They are using commercial, homebrew or converted surplus gear to place high-power signals on all our VHF-UHF bands. There is no reason why others cannot emulate their pioneering spirit to push out the boundaries of Amateur

Radio for their favourite modes as well.

If Canadians don't start doing this, it is going to be hard for RAC, your new national society, to justify continued access to all bands above 50 MHz for all modes at present bandwidths, given the pressures we face from "big government":

- Right now we are facing challenges to our 50-54-MHz assignment from both DOC and DND.

- Right now we may be facing challenges to the bottom two MHz of our AMATEUR EXCLUSIVE 220-225-MHz band.

- Tomorrow we may be facing challenges to our 146-148 MHz AMATEUR EXCLUSIVE assignment.

Our only protection is optimized amateur utilization, effective representation to DOC, and your support.

Radio Amateurs of/du Canada (RAC) will start up on May 2. I have a big stake in getting RAC going. Part of that is to continue to protect our assignments above 50 MHz from being co-opted by government and other agencies.

Let's get those repeater and packet systems up and running sooner, not later. Let's all get together to protect what we have for tomorrow.

### VHF-UHF ADVISORY COMMITTEE

Over the past couple of years ARRL has been considering the creation of a Spectrum Management Committee (SMC) which would replace the present VHF-UHF Advisory and VHF Repeater Advisory committees (VUAC and VRAC). This SMC would include members from all the major VHF-UHF user groups, including groups interested in weak-signal work, SSB, FM, ATV, satellite communications and packet. The conceptual work and discussions on how an SMC would operate are under way. The SMC review committee met in Nashville, Tennessee, on 1993 February 20 to discuss structure of an SMC, and how to present the concept to the ARRL Board of Directors.

It is no secret that this task has been daunting, as concerns of various VHF-UHF users are aired. But everyone appears close to resolving the issues. There is concern from this side of the border that an ARRL SMC should have input from Canadian VHF users, as we use the same spectrum along thousands of miles of common border.

We will keep you posted on developments, through our contacts with ARRL SMC structuring committee, VUAC and VRAC. Look for continued Canadian par-

ticipation on ARRL committees as RAC gets going. Neither Americans nor Canadians can or should do their band planning in isolation.

### BAND REPORTS

**144 MHz:** Stu, VE2XX (FN25) writes that he is working on a two-metre beacon that will operate from FN15 using the call VE2FUT/B. Look for more developments in the area of propagation beacons in future from Stu, and the gang in Quebec.

**220 MHz:** CRRL has been notified by DOC that the FCC has been making noises about our continued use of 220-222 MHz in Canada. It is not enough that FCC has caved in to various commercial users in the US to rip off amateurs there. They are now trying to do the same on this side of the border where 220-225 MHz is AMATEUR EXCLUSIVE. (In the US, 220-225 MHz band was AMATEUR SECONDARY.) CRRL and CARF, operating together in preparation for RAC, are working to protect Amateur Radio interests. I have repeatedly said here that there is at present:

- no need for commercial operations in Canada on 220-222 MHz that can be done on 216-220 MHz or above 225 MHz,

- a need for spectrum for effective digital intercity links built by amateurs using 220-222 MHz as described in the CRRL bandplan, and

- available equipment, both commercial and otherwise, to use our 220-225 MHz band for Canadian Amateur Radio operations.

### NORTHEAST VHF NOTES

Here are some notes from *Northeast VHF News Bulletin*. This excellent newsletter is published six times a year. Cost per year is \$5 US. To subscribe, contact Lew Collins, W1GXT, 10 Marshall Terrace, Wayland, MA 01778.

The West Coast VHF-UHF Conference will be held on May 21-23 at the Holiday Inn, Ventura California. It features technical talks, noise-figure measurements, an antenna-gain measuring contest, a banquet and awards ceremony, and an indoor fleamarket. For more information, contact Steve Noll, WA6EJO, 128 Winford Ave, Ventura, CA 93004-2504.

Speaking of conventions, don't forget the Rochester, New York, Hamfest and ARRL Convention on May 21-23.

Dale, AF1T, recently related his experiences in getting Rhode Island on EME to provide W7FN with his last State on 432 MHz. Dale had to load his gear on a

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"warm" December day and drive to the QTH of Ed, WAIHYN, near Jerimoth Hill, Rhode Island, 812 feet above sea level in grid square FN41CU. Dale then had to get US Air Force permission to increase his power beyond the 50-watt limit within 100 miles of any US Air Force base. He called them and they told him to go ahead. Apparently they were not too concerned!

With the QRO OK and four 19-element loop yagis set up on a tripod, Dale was ready to go on 432.025 MHz. The first contact was SM4IVE, followed by KU4F for his fiftieth state. People telephoned all evening for skeds and CQs were transmitted continuously. When the dust settled, Dale had worked 12 stations including W7FN and PA3CSG.

It seems that a portable EME system is quite workable. This particular station consisted of a Drake R4C for the receive IF, a Kenwood TS-430 for transmit, a Microwave Modules transverter, a homebrew GaAsFet preamp and a pair of 4CX250Bs driving the 76-element array. Once the snow clears, let's have some Canadian EME DXpeditions to those rare grid squares.

## COMING SOON TO A VHF-UHF BAND NEAR YOU

Don't forget the ARRL June VHF QSO Party. Let's hope that the weather is fine, the snow is gone and the beer is

cold. The contest runs June 12-14 starting at 1800 UTC. You can operate from your home or from the field. Why not plan to set up a station in a rare grid square? You'll not only be popular—you'll add to the fun of the contest.

Rules will appear in May *QST*. As usual, send your original logs and summary sheets to ARRL, 225 Main St, Newington, CT 06111, and a copy of your logs and summary sheets to your VHF-UHF editor, Dana Shtun, VE3DSS. We will tabulate your scores and get your claims into the column for RAC's new magazine, where this column will be continuing on its bi-monthly schedule. We'll also use the copies of your logs and summary sheets to determine if you've qualified for any of the special Canadian awards sponsored by the Toronto VHF Society. Thanks to all.

## ABOUT THIS COLUMN

We'll end this column on a personal note. It has been a bit tough lately, with the demands of merger, family and job changes, but we have hung in there to keep spreading the word about VHF-UHF operations. Please keep those letters, activity reports and pictures coming so that we can carry on this tradition in the pages of the new RAC magazine, *The Canadian Amateur*, which will be sent to all of you in July. 73. —Dana Shtun, VE3DSS

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## YL Awards and Certificates

The Young Ladies' Radio League (YLRL) was formed in the United States in September, 1939. The YLRL newsletter, *YL Harmonics*, was first issued in December, 1939 and YLRL membership cost only 25 cents! Membership grew as chapters and affiliates sprang up. Great Britain and Alaska became the first DXCC country members.

It is interesting to note that VE2HI was a charter member. In my view, Canada would be the first DXCC country member, in fact if not in practice.

In 1950 the internationally popular YL-OM Contest came into being. Now, the YLRL also sponsors contests such as YLAP (YL Anniversary Party), DX-NA YL, Howdy Days, East Meets West, and the Summer Sprint.

The YLRL offers several challenging awards including WAS/YL, WAC/YL, DXYL, YLCC and YLDXCC.

Membership in this international group is open to all licensed radio amateurs who are women. For more information, contact YLRL Membership Chairperson Jan O'Brien, K6HHD, Box 700, Rio Linda, CA 95673. YLRL President is Joan Upton, KD7YB, 59 South 6th Street, Independence, OR 97351.

### YLISSB

YL International SSBers Inc. is a worldwide organization with over 15,000 members. YLISSB nets meet daily. See the DX YL net listing below. For more information send an SASE to Tom Wuelfing, WA1GAG, 210 Morrill Street, Gilford, NH 03246. YLISSB offers the King Neptune Award and the North Star Award. A very popular "Adopt a Foreign YL" program is a highlight of this YL group. Fascinating!

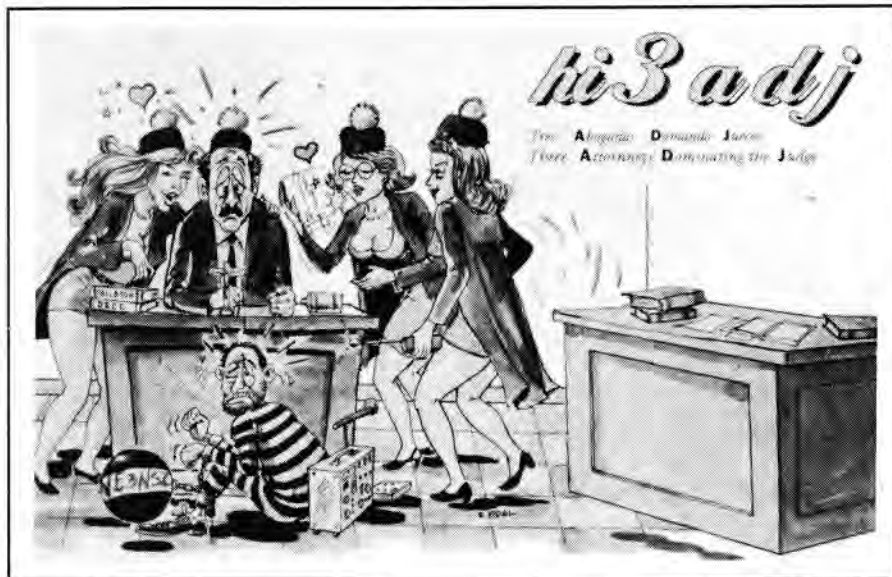
### OTHER GROUPS AND AWARDS

ALARA (Australia Ladies Amateur Radio Association) sponsors a series of awards. So does CLARA which is Canadian and BYLARA which is British.

Other countries sponsoring YL awards include Argentina, Austria, Belgium, Brazil, Finland, France, Germany, Italy, Japan, Netherlands, New Zealand, Poland and Russia.

### K1BV AWARDS DIRECTORY

The K1BV Directory of DX Awards describes all YL awards and how they can be acquired, as well as 2187 other awards from 122 DXCC countries. This directory is available from Ted Melinosky, HCR 10, Box 837A, Spofford, NH 03462-9740. Price is \$17.50 US, first-



class or priority mail.

### DX YL NETS

Day	UTC	Net	MHz
daily	1200	YLISSB	14.332 or 21.373
Mon	0600	ALARA	14.222
	1300	JLRS-1	144.280
	1300(winter)	IYLR	7.500
	1200(summer)	IYLR	7.500
	1915(UK)	BYLARC	3.703
Tues	1300	JLRS-1	50.200
Wed	0100	JLRS-8	7.050
	0500(1st W)	JLRS-3	21.180
	1115(UK)	BYLARA	7.065
	1900	BRYLA	14.246
	2000	Girls Around Europe	3.655
	2200	YLISSB	28.673
Thurs	1200	JLRS-1	430.380
	1700	Europe YL-DX	14.246
	2330	JLRS All Area	7.050
Sat	0000	JLRS-7	7.060
	0030(1st S)	JLRS-5	7.050
	0130(1st S)	JLRS-0	7.060
	0330	YLISSB	14.332

### NORTH AMERICAN YL NETS

Day	UTC	Net	MHz
daily	1400(local)	PJYLs	146.550
Mon	1400	Buckeye Belles	3.950
	1800	YL Roses	28.433
	1915	BYLARA	3.688
Tues	0100	Buckeye Belles	3.9725
	1400	CLARA	7.070
	1700	CLARA	14.120
	1800(winter)	Ironing Board	7.235
	1700(summer)	Ironing Board	7.235
Wed	0030	CLARA	3.740
	1330(winter)	Yankee Lasses	3.910

	1230(summer)	Yankee Lasses	3.910
	0930(EST)	SMYLs	3.940
	0400(winter)	BAYLARC	28.133
	0300 (summer)	BAYLARC	28.133
	1900(winter)	Open House	14.288
	1800(summer)	Open House	14.288
Thurs	1400(local)	SAYLARC CW	3.725
	1400	TYLRUN	3.725
	1800	Tangle	14.298
Fri	0800(local)	MINOW	3.913
	1100(local)	WestCoastRT	7.235
	1300(winter)	SAYLARC	3.945
	1400(summer)	SAYLARC	3.945
Sat	1400	SAYLARC	7.245
	1400	HAWK	3.910
	2000(winter)	Trilliums	3.770
	2100(winter)	CLARA	3.770
	2200(summer)	CLARA	3.770
Sun	0400(winter)	BAYLARC	146.295
	0300(summer)	BAYLARC	146.295

### A PERSONAL NOTE

YLRL issued YLDXCC Number 42 to your DX Editor on 1992 October 1. A huge challenge and a singular joy. 73 and 88 to all!

### MOVING?

For uninterrupted delivery of *QST* and *QST Canada*—and RAC's new *TCA*—please send your change of address notice to CRRL, Box 56, Arva, ON N0M 1C0, at least eight weeks before moving. Don't forget to include your call sign or the seven-digit number on your mailing label. —Ray Staines, VE3ZI, General Manager, CRRL

## KANTRONICS KPC3

### LOW POWER - HIGH PERFORMANCE

Designed for user friendly operation, but with an eye to the advanced packeteer too, the Kantronics KPC3 delivers high TNC performance with low power in a compact package.

The KPC3 provides status a glance via its six unit may be exter-



information at LEDs. The unit is powered by an external supply or an internal 9-volt battery and features 32K of battery backed RAM, expandable to 512K.

Also included are PBBS with reverse forwarding, message header editing, a mail waiting led, remote sysop access and Kantronics KA-Node. KISS mode and Kantronics Host mode are also provided for TCP/IP compatibility and advance operation.

Small size (.75" x 5" x 5") and all of this at a small price.

**\$169**

## ICOM IC-3230H

**\$179 IN FREE OPTIONS**

Even though the IC-3230H is loaded with many attractive functions for compete dual band capability, it is compact. Measuring just 5.5" x 1.6" x 6.5", like a



mono band transceiver, it fits anywhere, in any vehicle. See for yourself how this compact size can make a big difference.

- 30 memory channels, 2 call channels
- Full 45 Watts on 144MHz & 35W on 440MHz
- DTMF remote control with opt UT-55 *Free see below*
- Built in duplexer
- Built in CTCSS tone encoder UT-67 *Free see below*
- Auto Dialer memories
- 3 selectable power output levels
- Optional Voice Synthesizer UT-66 *Free see below*
- IC2330A 2M/220 Now Available

## CONNECT SYSTEMS

Connect Systems Interconnect make some of the best phone patches available. No other patch has as many features and so many different models. The simplex patches are designed for non-repeater use and can be connected to a base station and a phone line. The Full-Duplex models can be used in a repeater, or connected to a Dual-bander radio. Then, using another dual bander, you can have a full duplex phone patch. Some of their models are also repeater controllers. Call or write us for more details.



CS-700 Simplex Interconnect VOX sampling	469
CS-900 Simplex VOX & Delay Board reverse patch	539
CS-800 Full Duplex & Repeater Controller	549
CS-8200 Full Duplex/Repeater Controller/Privacy	789
Private Patch V multi-function, VOX, repeater ctrl	799
CD-1 Displays CTCSS, Touch Tone, DCS codes	299
9801 Voice Delay Board	199

## ICOM IC-2410H

**\$179 IN FREE OPTIONS**

ICOM introduces simultaneous receive in the same band. Combine this breakthrough with simultaneous dual band receive capability and you have a list of features found nowhere else. Not only can the IC-2410H search for other signals within the band in use but also can stand by on 2 frequencies in the same band.



Access and perform a variety of operations from a DTMF microphone with the optional UT-55 DTMF ENCODER/DECODER UNIT. In the palm of your hand, you can change from VFO to memory or call channel mode, enter the frequencies and memory channels directly, select output power, mute audio output, open the squelch and more. You can also control the IC-2410H with the DTMF codes of another transceiver.

Until the end of May, the UT-55, UT-66, & UT-67 are included at no charge...see below.

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## ARRL REPEATER DIRECTORY

No Ham should be without it. The Repeater Directory covers everything from 29MHz and up including packet, TV and more..

93 Edition in Stock

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(SPECIALS IN EFFECT FROM MARCH 29, 1993 TILL MAY 30, 1993)

PS-70 2 Amp Handheld Power supply-runs anything up to 2 Amps (Keyers etc) \$99 *save \$74* now \$25

### FREE OPTIONS \$179 VALUE

When you buy an IC-3230H (2M/440) or a IC-2410H (2M/440) mobile Radio:  
UT-55 DTMF enc/dec UT-66 Voice Syn, UT-67 CTCSS enc/dec included at no charge

TS-850SAT 100Watt HF rig with Auto-Antenna Tuner—Call for our Price and get a free YK-88C-1 CW Filter  
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FT-470 2m/440MHz Dual Band Handheld *In addition to our low low price, we have a \$30 Coupon From Yaesu*  
FT-411 2M handy, CTCSS Encode/Decode *In addition to our low low price, we have a \$30 Coupon from Yaesu*  
FT-415 New 2M handy, CTCSS Encode/Decode *In addition to our low low price, we have a \$30 Coupon from Yaesu*  
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so that when the time came, you could get the best. Well, the best has arrived! We have had several customers compare the TS-950SD to the TS-950SDX, and they have found the difference between the two to be quite outstanding. *Maybe they should have called this the TS-960SDX!*

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- 100 Memory Channels
- Dual Frequency Receive
- TCXO Temperature Controlled Crystal Oscillator
- Auto-Antenna Tuner
- 15 Band Pass Filters
- SSB IF Slope tuning
- IF Notch Filter
- CW Reverse Mode
- CW Pitch Control
- Selectable IF filters with memory
- Power MOS type FET final section for 150W

## KANTRONICS KAM PLUS

Kantronics announces their new Kam Plus and Kam Enhancement board for the Kam! If you have a Kam, you can upgrade to a Kam Plus with the Enhancement board. *New features for the Kam include the following:*

- New user & expert command sets
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  - 128K Bytes of RAM
  - 1 Megabit EPROM
  - socketed lithium battery to back up Ram and On-board Clock
  - Expanded personal mailbox
  - Pactor now standard--Kantronics has coded Pactor for its units in conjunction with the German inventors, SCS
  - Enhanced CW--dot/dash weighting, Farnsworth Spacing, and tone transmission, programmable mark and space tones, and CW filter bandwidth and centre frequency
  - Extended RTTY and AMTOR character sets
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| <b>FIRST PRIZE</b>  | 2 WEEKS IN SARASOTA CONDOMINIUM     |
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Monthly Prizes consisting of Handhelds, Packet Controllers, Antennas and other accessories. Draws will be held the last Saturday of each month. All Ballots received during that month will be eligible for the monthly draw. All entries will be eligible for the Grand Prize Draw to be held on December 15, 1993. Effective Nov 1, 1992, you will receive 1 (one) entry ballot for every \$100 you spend with us. Other entry ballot will be in this magazine and other printed matter.

## HF TRADE IN MONTH

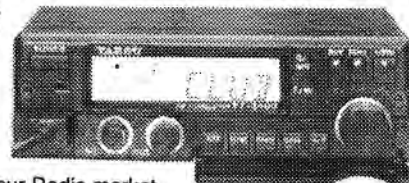
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Code Tapes-10-15 wpm	(OT) 12.50	2.25	1220	<input type="checkbox"/>
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En Ondes	12.00	2.25	2030	<input type="checkbox"/>
Help for New Hams, W1FB	12.50	2.25	3020	<input type="checkbox"/>
Morse Code-Essential Language 2nd Edition	7.50	2.25	3025	<input type="checkbox"/>
Understanding Basic Electronics	21.25	2.75	3030	<input type="checkbox"/>
Low-profile Amateur Radio	10.00	2.25	3050	<input type="checkbox"/>

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Cloth Diamond 5"	(OT) 3.00	1.00	1520	<input type="checkbox"/>
Cloth Diamond 3"	(OT) 2.00	1.00	1510	<input type="checkbox"/>
Set of 3 CRRL Logo Decals	(OT) 1.00	1.00	1590	<input type="checkbox"/>

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Radiogram (message) Pad	(OT) 2.00	1.75	1730	<input type="checkbox"/>
DXCC Countries List (Revised)	(OT) 2.50	1.75	2512	<input type="checkbox"/>
Grid Locator for North America	(OT) 1.50	1.75	2520	<input type="checkbox"/>
Net Directory	(OT) 2.50	1.75	2531	<input type="checkbox"/>
World Map (ARRL)	(OT) 15.00	3.75	2551	<input type="checkbox"/>

## VHF & UP

Your VHF Companion	10.00	2.25	6505	<input type="checkbox"/>
Beyond Line of Sight	15.00	2.75	6515	<input type="checkbox"/>
UHF / Microwave Experimenter's Manual	25.00	3.00	6510	<input type="checkbox"/>
Microwave Handbook Vol. 1 (RSGB)	43.75	2.75	6520	<input type="checkbox"/>
Microwave Handbook Vol. 2 (RSGB)	43.75	2.75	6521	<input type="checkbox"/>
Microwave Handbook Vol. 3 (RSGB)	43.75	2.75	6522	<input type="checkbox"/>
Satellite Anthology 1st Edition	9.50	2.25	6530	<input type="checkbox"/>
Satellite Anthology 2nd Edition	10.00	2.25	6531	<input type="checkbox"/>
Satellite Experimenter's Handbook 2nd Edition	25.00	2.75	6540	<input type="checkbox"/>
Radio Auroras (RSGB)	22.50	2.25	6565	<input type="checkbox"/>
Weather Satellite Handbook	25.00	2.75	6550	<input type="checkbox"/>

## ANTENNA BOOKS

	PRICE	POSTAGE	STOCK #	✓
ARRL Antenna Book 16th Edition	25.00	3.75	4001	<input type="checkbox"/>
Antenna Compendium Vol. 1	12.50	2.75	4010	<input type="checkbox"/>
Antenna Compendium Vol. 2	15.00	2.75	4020	<input type="checkbox"/>
Antenna Compendium Vol. 3	17.50	2.75	4021	<input type="checkbox"/>
RSGB HF Antennas for all Locations	17.00	2.75	4300	<input type="checkbox"/>
RSGB HF Antenna Collection	25.50	2.75	4310	<input type="checkbox"/>
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Novice Antenna Notebook, W1FB	12.50	2.25	4040	<input type="checkbox"/>
Antenna Impedance Matching	18.75	2.75	4050	<input type="checkbox"/>
Transmission Line Transformers 2nd Edition	25.00	2.75	4060	<input type="checkbox"/>
Practical Wire Antennas	17.50	2.25	4090	<input type="checkbox"/>
Reflections	25.00	2.75	4070	<input type="checkbox"/>
Yagi Antenna Design	18.75	2.75	4080	<input type="checkbox"/>
Physical Design of Yagi Antenna	25.00	2.75	4085	<input type="checkbox"/>

## TECHNICAL BOOKS

1993 ARRL Handbook	31.25	4.00	5002	<input type="checkbox"/>
ARRL Electronics Data Book 2nd Edition	15.00	2.75	5010	<input type="checkbox"/>
Interference Handbook	15.00	2.25	5070	<input type="checkbox"/>
Hints and Kinks 13th Edition	11.50	2.25	5031	<input type="checkbox"/>
RFI: How to Find It and Fix It	18.75	2.75	5021	<input type="checkbox"/>
Solid State Design	15.00	2.75	5040	<input type="checkbox"/>
Design Notebook, W1FB	12.50	2.75	5050	<input type="checkbox"/>
Spread Spectrum Sourcebook	25.00	2.75	5060	<input type="checkbox"/>

## OPERATING

Operating Manual 4th Edition	22.50	3.00	5501	<input type="checkbox"/>
Complete DXer 2nd Edition	15.00	2.25	5510	<input type="checkbox"/>
DXCC Companion	7.50	2.25	5520	<input type="checkbox"/>
Transmitter Hunting	23.75	2.75	5540	<input type="checkbox"/>

## PACKET/COMPUTERS

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Your Packet Companion	10.00	2.25	6005	<input type="checkbox"/>
Proceedings 10th Conference	13.50	2.25	6011	<input type="checkbox"/>
Proceedings 11th Conference	15.00	2.25	6012	<input type="checkbox"/>
Your RTTY/AMTOR Companion	10.00	2.25	6025	<input type="checkbox"/>

## QRP

QRP Notebook, W1FB 2nd Edition	12.50	2.75	3501	<input type="checkbox"/>
QRP Classics	15.00	2.75	3510	<input type="checkbox"/>
Your QRP Operating Companion	7.50	2.25	3520	<input type="checkbox"/>

## MISCELLANEOUS

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200 Metres and Down	10.00	2.25	7010	<input type="checkbox"/>
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## Heritage Award of Ontario

The Heritage Amateur Radio Club of Cobourg-Port Hope, Ontario, has offered this award since 1992 July 1. It was instituted to mark the 125th anniversary of Canadian Confederation.

The award publicizes Ontario's "Heritage Highway"—that part of Ontario Highway 2, which links the towns and communities along the north shore of Lake Ontario and the St Lawrence River from Toronto to the Quebec border.

To qualify for the award, amateurs in Ontario stations must contact 50 other Ontario stations, ten of which must be located along the Heritage Highway. Amateurs in other Canadian provinces and in the US must contact 30 Ontario stations, six of which must be located along the highway. Amateurs outside of North America must contact 15 Ontario stations, three of which must be located along the highway. QSLs are not required. Any combination of bands and modes may be used, including two-metre FM. To receive the award, send \$4 with a summary of contacts made, including names and locations of amateurs contacted, to Bill Turland, VE3MDE, President, Heritage Amateur Radio Club, R R 5, Cobourg, ON K9A 4J8.

Heritage Amateur Radio Club Awards Manager Eric Olsen, VE3GGO, reports that his club has had considerable success with this award, with enquiries from as far away as Sweden. The most distant amateur to qualify for the award so far is Tom, 9K2TC in Kuwait, who is VE3OMC.

### 1993 RAC CANADA DAY CONTEST

This July 1, is Canada's 126th birthday! This year, the birthday party, the Canada Day Contest, will be sponsored by Radio Amateurs of/du Canada (RAC) for the very first time.

**Contest period:** 0000-2359 UTC, 1993 July 1

**Bands and modes:** 160-2 metres, CW or phone

**Exchange:** Canadian stations: RST and province or territory. Foreign and VEØ send RST and serial number.

**Contact points:** Stations in Canada count for 10 points, and can be contacted once on each band and mode. Stations with the RAC, QST or VAC suffix count for 20 points.

**Multipliers:** Each Canadian province and territory will count as a multiplier, once on each band and mode.

**Certificates:** Certificates will be awarded to the top scorer in each province and territory, US call area and DXCC



country in each of the following categories:

- Single-operator, all-band
- Single-operator, single-band
- Single-operator, all-band QRP
- Multi-operator

**Entries:** Send log and summary sheets to RAC, Box 356, Kingston ON, K7L 4W2 by 1993 July 31.

### FRIENDSHIP RADIOSPORT GAMES

The Friendship Amateur Radio Society of Victoria, British Columbia (FARS), will celebrate the 1993 Friendship Radiosport Games by operating special-event station XO7G on 1993 May 1-June 30, daily at 2100-0500 UTC, in the US General-class subbands. QSL direct or via the bureau.

Concurrently, FARS members will be operating their home stations using the XO7 prefix. Work XO7G plus five stations with an XO7 prefix for a special award. To receive the award, send log information and a 9- by 12-inch self-addressed stamped envelope to FARS Victoria, c/o Camosun College, Box 128, 3100 Foul Bay Road, Victoria, BC V8P 5J2.

### CNIB NIBS DAY

This year the Canadian National Institute for the Blind, is celebrating its 75th anniversary. On 1993 May 12 it is sponsoring NIBs Day. All amateurs, blind, visually impaired or sighted, are invited to

contact the following special-event stations: VE1NIB, VY2NIB, VE3NIB, VE5NIB, VE6NIB and VE7NIB.

Both visually impaired and blind amateurs will be operating these stations. Look for these stations on the following frequencies: 14.150 MHz at 1000-1600 local time, and 7.065 MHz at 1600-2200 local time.

Certificates will be awarded to stations exchanging signal reports with and four NIBs stations. Submit logs to Will Melhuish, VE3AOY, Manager, CNIB Amateur Radio Program, 1929 Bayview Avenue, Toronto, ON M4G 4C8.

### LONDON ARC BALLOON SPECIAL EVENT

This June, to mark the 200th anniversary of the beginnings of the City of London, London Amateur Radio Club will operate special-event station CJ3LON from a hot air balloon. Operation will be on one of the following evenings: June 15, 16, 17 and 18, and on the morning of June 19. Look for CJ3LON on 146.52-MHz FM simplex, 446.00-MHz FM simplex, and 439.25-MHz fast-scan television, transmit only.

For a special commemorative QSL card, send your own QSL card and a self-addressed, stamped envelope to Anthony Drawmer, VE3SQU, 55 Briscoe Street West, London, ON N6J 1M4. Happy anniversary! Smooth soaring! ■

# CFARS: the Canadian Forces Affiliate Radio System

A brief history...

By R. W. Hindle, VE3BNH/CIW608  
Box 359  
Kemptville, ON K0G 1J0

**I**t all stemmed from the efforts of Amateur Radio operators trying to do phone patches over the amateur bands, mainly on 20 metres.

It was frustrating at times, when other amateurs around the world heard the call sign coming from the Middle East, with the /SU after it. Everyone tried to break in to make a contact with our station in Ismailia, Egypt. Some of them simply ignored the fact a phone patch was in progress and trying to be completed. And there were others, because they did not have this privilege, who would deliberately try jamming the transmission.

During the early 1970s, several suggestions were submitted to National Defence Headquarters by various amateurs for the creation of a radio system such as the US MARS system. These submissions were further strengthened as a result of various messages and discussions with the senior personnel from the Middle East, emphasizing the positive effect that these phone patches had on the morale of the personnel serving there.

Several meetings took place with the various military directorates and the DOC to discuss the creation of such a system. These meetings went into detail to determine what kind of equipment would be required, and they explored the possibility of obtaining permission from DOC to use civilian Amateur Radio operators, operating with special call signs outside of the amateur bands.

Once these meetings came to a successful conclusion, it was decided to go ahead, on a trial basis, with 17 Amateur Radio operators. They were issued with Canadian international call signs. The three letters were intended to indicate the area of Canada where the station was located. For example, because I was located in Quebec, I was assigned the call sign CIZ-1. For the Maritimes the call sign was VDA-6, -8, etc. For Ontario it was CIS-6, -8, -10, etc. For British Columbia it was VEB-300, etc. Net Control was given to Ismailia, whose assigned call sign is now VYG-9.

With the success of the trial exercise,

CFARS was born. Some changes were made at this point. Net Control shifted to the Golan Heights. All Amateur Radio stations were given the CIW prefix followed by two or three numbers. Amateur Radio clubs located on military bases or at military stations had the two-number suffix, and civilian Amateur Radio stations the three-number ones. It was also decided that the location of the station would now be indicated by the suffix number. Starting from west to east, the suffix for British Columbia would be assigned the 200 series, Alberta would be assigned the 300, and so across Canada with the Atlantic provinces being assigned the 800 series.

There are now about 75 CFARS stations. The number of frequencies available to CFARS stations is now a total of 16. Overseas or remotely located military stations throughout the world now comprise a total of 14, not including stations east and west based on naval vessels. Today Canadian Coast Guard vessels also make use of the CFARS system. ■

## CRRL AND CARF TO MEET DEPUTY MINISTER OF COMMUNICATIONS

Marc Rochon, Deputy Minister of Communications, was scheduled to meet with key members of the CARF and CRRL executives on 1993 April 28. The Ottawa meeting will take place two days before CRRL and CARF are dissolved at their final board meetings, and the inauguration, on the following day, 1993 May 1, of Radio Amateurs of/du Canada.

Purpose of the meeting will be to review the many serious issues confronting Amateur Radio operators resulting from present policies of DOC. These include DOC's antenna structure policy, the current lack of EMC standards, and problems related to spectrum management enforcement. The relationship of DOC with the newly national Amateur Radio organization, Radio Amateurs of/du Canada, will also be discussed.

For some time, CRRL and CARF had been seeking a meeting with the Minister of Communications, the Honorable Perrin Beatty. Mr. Beatty indicated would not be able to attend the Ottawa meeting.

## DOC ON ELECTROMAGNETIC COMPATIBILITY

"ICE Regulations to put a chill on Interference," says Thomas Turner VO1TV, quoting a release by the Canadian Association of Broadcasters (CAB).

The CAB obviously shares some concerns with Amateur Radio operators. "After much encouragement by broadcasters and other radio spectrum users, the DOC will soon issue its *Interference-Causing Equipment (ICE) Regulations*. In its Regulatory Agenda for 1993, DOC notes: "Technical requirements for equipment such as digital apparatus and automobile ignition systems which are capable of causing interference to radiocommunications are currently prescribed in the radio regulations.... The Interference-Causing Equipment Regulations (ICE) will bring radio interference regulations into a framework consistent with the simplified regulatory structure provided by the Radiocommunications Act. The ICE regulations will thus replace the current Radio Interference Regulations (RIR), making reference to a list of technical

standards established by the Minister. This initiative has been identified as one of the first steps involved in the reform of the Radio Regulations." ■

## Silent Keys —

Conducted By Ray Staines, VE3ZJ

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

VE3KSS, John Brouwer, London, ON  
VE3LZT, Lincoln Wismer, Kitchener, ON  
VE3PZW, Matt Malmberg, Barrie, ON  
VE3TYQ, Earl Wilson, Trenton, ON  
VE6HE, Frank Jakab, Calgary, AB  
VY2CO, Dewey Buck, Sherwood, PEI

**Note:** Silent Key reports sent to *QST Canada* must include name, address and call sign 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*. ■



# Propagation Forecasts for Canada

Propagation forecasts by VE3VIA, now appearing in *QST Canada*, have been specifically calculated for five regions of Canada.

The Atlantic predictions should be used by operators between 50° West and 70° West longitude, and south of the 55° North parallel. The Eastern predictions are to be used by operators in the area between 70° West and 90° West, and south of 55° North. The Central predictions have been calculated for operators living south of 55° North, and between 90° and 110° West. The Pacific predictions are customized for operators living between 110° and 130° West, and south of the 55° North. The North predictions have been calculated for an area centred on 62.5° North and 120° West.

The targets, Europe, South America, etc, were chosen to approximate those used by ARRL for its monthly forecasts published in *QST*. The number in each square is the band that the operator should use first to try to make a contact with a target area. If the cell contains an X, the possibility of a contact is extremely remote on any band.

Usually the band shown in the cell is the best possible, but if the solar flux is not as forecast, feel free to try another band. You should first try the higher band, then the lower one. For example, if the forecast says that 40 metres is the best band for a particular target and you wish to experiment, try 20 metres. It may happen that 20 metres is very close to the Maximum Usable Frequency (MUF), but you might still establish a contact. When a frequency is too close to the MUF, the chances of making a contact are less than if you are using the frequency shown on the chart. The frequencies listed in the table are very close to the Optimum Working Frequency (OWF), which is the optimum frequency for an exchange of traffic.

Questions and suggestions are welcomed. Contact Jacques d'Avignon, VE3VIA, 459 Leitch Drive, Cornwall, ON K6H 5P7. ■

## Propagation Forecasts for 1993 May 15–June 15

UTC	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
<b>Atlantic to:</b>																									
Europe	30	30	30	30	30	X	X	X	X	X	20	20	20	17	17	20	20	20	20	20	20	20	20	20	30
S. America	20	20	30	30	30	30	30	30	40	40	30	20	20	17	17	17	17	17	17	20	20	20	20	20	20
S. Africa	20	30	30	30	30	20	20	20	15	15	15	15	17	17	17	17	17	17	17	17	17	17	17	17	17
S. Pacific	15	20	20	30	30	30	30	30	30	30	30	30	20	X	20	X	X	X	17	17	17	17	17	17	17
C. Asia	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Eastern to:</b>																									
Europe	20	30	30	30	30	20	20	20	20	20	20	20	20	20	20	17	17	20	20	20	20	20	20	20	20
S. America	20	20	20	30	30	30	30	30	40	40	30	30	20	20	17	17	17	17	17	17	20	20	20	20	20
S. Africa	30	30	40	40	40	20	X	X	X	X	X	17	17	17	17	17	17	17	17	20	20	20	20	20	17
S. Pacific	17	17	17	20	20	20	20	30	30	30	30	30	30	17	20	20	20	15	15	15	15	15	17	17	17
C. Asia	20	20	20	20	20	X	X	X	X	X	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Central to:</b>																									
Europe	20	20	30	30	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
S. America	20	20	20	20	30	30	30	30	30	30	30	30	20	20	17	17	17	17	17	17	20	20	20	20	20
S. Africa	20	30	40	40	40	X	X	X	X	X	X	X	X	X	17	17	17	17	17	17	20	20	20	20	20
S. Pacific	15	20	20	20	20	20	30	30	30	30	30	30	30	30	20	20	20	17	17	17	15	15	15	15	15
C. Asia	20	20	20	20	17	X	X	X	X	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Pacific to:</b>																									
Europe	20	20	30	30	30	30	30	X	X	X	X	X	X	X	20	20	20	20	20	20	20	20	20	20	X
S. America	17	17	17	20	20	30	30	30	30	30	30	20	20	20	20	17	17	15	15	15	15	15	20	17	
S. Africa	20	30	40	40	40	20	20	20	X	X	X	X	X	X	X	20	17	17	17	17	17	20	20	20	
S. Pacific	20	20	20	20	20	20	20	30	30	30	30	30	30	30	20	20	20	20	17	17	17	17	17	17	
C. Asia	20	20	20	20	17	17	17	17	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>North to:</b>																									
Europe	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
S. America	20	17	17	20	20	30	30	30	30	30	30	30	30	20	17	17	17	17	17	17	20	20	20	20	
S. Africa	17	20	30	30	30	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
S. Pacific	17	20	20	20	20	20	20	20	30	30	30	30	30	30	20	20	20	20	20	17	17	17	17	17	
C. Asia	20	20	20	20	17	17	17	17	17	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

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## The CRRL Field Organization Forum

### REPORTS FOR FEBRUARY 1993

**Alberta:** Acting SM, SEC, TC: Ken Oelke, VE6AFO @ VE6YYC; STM: Gus Bakker, VE6AKY; OO/RFI Coordinator: Dick Sheppard, VE6TY; NMs: VE6CPP, VE6AKY, VE6AUZ. Calgary Amateur Radio Association appears to have won its bid to host the first National Convention of Radio Amateurs of Canada. This indeed will be a proud moment for all Canadian amateurs. Convention date will likely be in the summer of 1994. Stay tuned for further information. Again, not many EC reports. Only VE6CIA, VE6AKY and VE6AFO reporting. Garry reports that Central Alberta Radio League (CARL) is demonstrating Amateur Radio to the public on March 27-28. As you read this report, Radio Amateurs of du Canada (RAC) should be just getting under way. RAC will have had its first board of directors meeting on May 2. The interim Alberta director for RAC, Ken Oelke, VE6AFO, as well as Tim Ellam, VE6SH, RAC General Council, will likely be attending the Edmonton Hamfest at the end of May to answer any questions about the new organization and to sign up new members. Wayne, VE5PE, EC for Saskatoon, is in Calgary Holy Cross Hospital for an operation. We all wish you the speediest recovery, Wayne, so that you will be home with your family soon. Calgary ARES members will be taking a level-one course on May 8. This course will be put on in conjunction with the City of Calgary Disaster Services, Calgary Amateur Radio Emergency Service, Canadian Red Cross Society, and the EC and A/ECs of Calgary. This will be an exciting one-day course that all present and future ARES members will be required to take. All levels of training must be increased in order to carry out the mandate given to us by the City of Calgary Disaster Services and Red Cross. For further information about the level-one ARES course, contact Ken, VE6AFO. Alberta Section is still soliciting nominations for a Section Manager. The Field Services organization will still continue within the Radio Amateurs of du Canada, so come on in and get your feet wet. This position can have many rewards. Raj, VE6RAJ of the Peace River club, is asking about the Amateur Radio Emergency Service. Anyone one up there willing to do Emergency Coordinator duties? Contact your Section Emergency Coordinator for further details.

**British Columbia:** SM: Ernie Savage, VE7FB. BC Public Service Net (3729 kHz, 0130 UTC daily) Manager Ed Galbraith, VE7ELF reports check-ins: high—201, low—122, and total—4284. BC Emergency Net (3652 kHz, 1900 UTC daily) Manager Ray, VE7BCL, reports QNI—1131 and QTC—456. We had good participation this month and a new QNI from VE7PG, VE7WMH, VE6GUS and VE7ERE. Pete, VE7JT, is home and managing very well. Burnaby ARC held its fleamarket, well supported by hundreds. Weather was a blizzard and the hill was on a hill, so for those who came by the low road, the hill was a challenge. Past time to say thanks to stations that liaise with RN-7 from BCEN: VE7ANG, VE7BNI, VE7CCJ and VE7OM. 73.

**Manitoba:** SM: Bill Crooks, VE4JR; A/SM: VE4IX; STM: VE4STU; SEC: VE4TM; NMs: VE4LB, VE4TE, VE4TY, VE5ND. This report from Bruce, VE4BWA, and the Interlake ARC: They started Amateur Radio course in January, and with a bit of persuasion by their instructor, Pete, VE4PWO, held three classes per week, all graduated on January 31. New amateurs are Betty from Lundar, VE4BET; Leendert, VE4LVB, and Todd, VE4GAB, both also from Lundar; another Betty from Fisher Branch (call not known); and Ronald from Vogar (call not known). Congratulations to all of you! Spring must be around the corner, as I hear of lots of antenna work being planned. How many have heard of the Day Ten Traffic Net? This is a traffic net that meets twice daily on 7.273.5 MHz, +/- QRM, at 1945 and 2145 UTC. The reason for the "Ten" is that it is all the US callsigns with a zero, plus Manitoba and

**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.

Saskatchewan. The states that check in are Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota and South Dakota. In Manitoba we have VE4FP, VE4GX, VE4JR and VE4LB who check in. We could do with some more representation from Manitoba, as not all of the stations listed above check in on a regular basis. The idea of this net is to take the traffic that each area picks up, and pass it to a relay station which then goes up to 20 metres. There is also another relay station that picks up traffic on 20 metres and brings it back to the second session of the net, where it is then passed to the various states and provinces. Come and join us and see what it is like.

**Maritimes-Newfoundland:** SM: John Avery, VE1IW @ VE1WL; STM: Bob Kirkpatrick, VE1VAR; SEC: Brian Upton, VE1ZJ; BM: Brent Taylor, VE1JH. I have been appointed your new Section Manager for Maritimes-Newfoundland and am looking forward to meeting as many amateurs in the Section as possible. I hope I may serve you in the best possible way. Anyone in the Section wishing to contact me can do so on packet via the above packet address, or by mail at my address as in the VE1VY2 Callbook. I will also make an effort to check into the Maritime Net on 3.750 MHz at least once a week, more often if time permits. The present SEC, Brian Upton, VE1ZJ, has notified me that due to job commitments, he plans to resign from his position. I shall try to have this position filled as soon as possible. Records still show Brent Taylor, VE1JH, as BM. In a phone conversation with Atlantic Director Carl Anderson, VE1UU, I learned that the position of BM is vacant. If so, this is another position to be filled. At present I pick up all bulletins of the local BBS and any special bulletins. I will read them on the Maritime Net for the benefit of those amateurs who are not on packet. There are several active clubs in my local area: Canadian Forces Base Gagetown, VE1JO; Fredericton ARC VE1ND, and clubs in Moncton and Saint John. I hope to visit each of these clubs at one of their regular meetings soon. If any club wishes to meet the new Section Manager, give me a call or drop a note to me via the VE1WL BBS, and I will do my best to attend. I have not yet received input from anyone. This is my first report to you as Section Manager. By working together we can get back on track. Since I am retired, I am available most of the time.

**Ontario:** SM: Larry Thivierge, VE3GT @ VE3OSQ; A/SM, BM: VE3AV @ VE3JF; A/SEC: VE3GT @ VE3OSQ; STM: VE3CYR @ VE3KRG; TC: VE3EGO. By the time you read this Canada will finally have a single national Amateur Radio organization. CRRL and CARF will hold their final board meetings on May 1 and the inaugural meeting of Radio Amateurs of Canada will take place the following day, May 2. Now we can all get down together to the business at hand, and there will be lots to do in the coming months. Barrie ARC's HEX-9 packet committee, along with the Toronto packet group, sponsored a packet seminar in Barrie. Approximately 40 amateurs from as far away as Sudbury and Kingston attended. Instructors were VE3OY, VE3FJB and VE3EKF. Special thanks to the facilitators, VE3THR and VE3UVP. Ex-VE1AHL/VE6AHL is now VE3AHE in Ottawa. Don't forget Parry Sound ARC presents the Near North Hamfest on May 15 in Parry Sound. At the same time, Ottawa Valley Mobile Radio Club is holding its annual fleamarket at Dow's Lake, Ottawa. Great to have the VE3OSQ BBS back up again and running

smoothly after a rather unfortunate incident. These past several months, I have been notified of several Silent Keys. In memory I list VE3AYZ, VE3CPG, and VE3KO. Our condolences to their families. This has been a great season for DXpeditions to some of the really rare spots around the world. There have been some major pileups. Our TC, VE3EGO, is enjoying his new FT-1000 and I'm doing the same with an FT-990. DOC has decided to issue callsigns from the QAA-QNZ and QVA-QZZ blocks. They were never issued before because some of the letters were reserved for the Maritime Mobile Service and some were international Q-signals. Long time Amateur Radio instructor VE3ASH of the North Shore ARC is stepping down and will assume the position of club auditor. EC ARES reports were received this month from:

Group	EC	No. of Nets
High Counties	VE3FS	4
Kemptville	VE3GNW	—
Sudbury	VE3HZQ	12
Brampton-Caledon	VE3LPM	4
Burlington	VE3LVO	1
Eastern Counties	VE3OJN	4
Bruce County	VE3OVV	1
Sault Ste-Marie	VE3TNL	1

VE3MDE is new EC for Northumberland County. Good to see the increase in the number of ECs reporting their activities. I trust this is a sign of things to come. VE3LVO advises that the Canadian Warplane Heritage Museum lost a number of vintage aircraft in a serious fire. Their beloved NA-64 Yale 3350 survived, but her altimeters were molten blobs and her parachutes were gone. If anyone wants to "will" old British "BB", "BA" or Armstrong-Whitworth tools to a really strapped museum, now's the time. The group plans to fly in May and the regular flying season will be flown.

**Quebec:** SM: VE2ALE; STM: VE2ED; BM: VE2ALE OBS: VE2GOP; QSL Manager: VE2IJ. VE2ED is still looking for someone to fill in the SEC position. Where is your interest in filling open appointments in the Field Organization? This subject has been mentioned previously in this column. On February 6, the following members of the VE2RMP repeater group, along with their YLs/XYLs and junior operators, met at the Jade Palace Restaurant for their annual get together and Valentine's supper: VE2s AGK, ALE, BOA, DC, DWS, GFO, IGE, ISL, KRA, MH, MHL, PFL, VON and YSL. It was an evening enjoyed by all. Take note that repeater VE2CWI has changed its callsign to VE2RWI. It operates at 146.91 MHz (-). The 1993 executive for the West Island ARC is president—VE2FN, vice president—VE2PTT; secretary—VE2WOM, and treasurer—VE2DYE. The WIARC is now planning a DXpedition for this summer, possibly to South St Paul Island during August. The principal presentation at the February meeting was an HF fax demo of weather pictures by VE2CPY. This meeting was well attended by more than 70 amateurs. Coming hamfests, auctions and fleamarkets include Laval Laurentides, VE2CRL, on March 27; Smiths Falls Ontario, on May 1; Ottawa Mobile Radio Club on May 15; Tracy (RAQI) on May 23; and the WIARC Spring Auction on April 24. Members of UMSARC and WIARC are hard at work tuning up for their next foxhunt at the end of February. 1993 officers for MARC are president—VE3RM, vice president—VE2VE; secretary-treasurer—VE2XGP; and publisher of the *Marcogram*—VE2HUG. VE2MBS and

VE2VE will present the topic of packet radio at the February club meeting. Dave, VE2MPD heard code practice on the VE2RWI repeater at 1900-2000 local time. Hopefully this restart of code practice will encourage those recent amateurs with Basic qualifications to partake of the CW mode and upgrade. The Field Organization is still waiting for volunteers for the ARES program. The monthly *Marcogram* under leadership of Eldor, VE2HUG, is a mighty fine job. I do hope that he continues to obtain input for further issues. Congratulations to John Avery, VE1IW of Fredericton on being appointed CRRL Maritimes-Newfoundland Section Manager. A tip of the hat to VE2s KHC, LSQ and GF for their fine work in emergency communications when a car turned over on Highway 2/20's Galipeau bridge 20 miles west of Montreal. Medical and rescue teams were on the scene in rapid order.

**Saskatchewan:** SM: Joan Lloyd, VE5JML. With sadness I announce that Joe Rivet, VE5NK of Caron, became a Silent Key February 28. A number of Saskatchewan amateurs opened their stations during the Guides-on-the-Air (GOTA) weekends in February. We wish Bob, VE5BE, the best of luck as he takes up a new job in Halifax. Congratulations to new amateurs Marion, VE5MIM; Gabrielle, VE5MGP; Bob, VE5RDW; Rob, VE5ROB; and Garnet, VE5ARC. Plans for the 1993 Saskatchewan Hamfest are well under way. This hamfest will be held at Luther College, University of Regina, on July 30-August 1. More details will be announced later. Anyone wishing more information or registration forms can contact Bill Wood, VE5EE in Regina. The weather here in Saskatchewan has been unseasonably warm for the past couple of weeks, quite a pleasant change after the severe cold of the first two weeks of February. A number of amateurs have been taking advantage of the break in the weather and have been stringing up new antennas. Amateurs in Saskatchewan are eagerly awaiting the debut of Radio Amateurs of/du Canada. On behalf of the CRRL team in Saskatchewan, we look forward to working with RAC. 73. ■

## RADIO BOATERS' FLAG

Members of the British Columbia Amateur Radio Boaters' Net fly their own flag when aboard their craft. It was first offered to them by its designer. Now it has been adopted enthusiastically by other waterborne amateurs, and it is seen on vessels from the Pacific Northwest down to the coast of Mexico and even in the Caribbean.

The flag was designed by Ron Drinkwater, VE7LEA of Victoria. It is made of white nylon with blue bands at each end representing Amateur Radio from sea to sea. In the centre is a blue globe, and across it a lightning flash in gold ascending from left to right, indicating the launching of a radio signal.

The small Victoria company that makes the flags became interested in Amateur Radio activities as a result of assistance given by Amateur Radio operators to the survivors a marine incident in which a sailor died before he could bring his sailboat home from an Alaskan cruise.

Flags can be ordered for \$16, postage and taxes paid, from R. Dunn, 19-848 Hockley Place, Victoria, BC V9B 2V6.

## YOUR VHF COMPANION

*Your VHF Companion* by Steve Ford, WB8IMY, a pocket-sized book, is written for the newly licensed amateur, or perhaps an experienced amateur who wants

**18 QST Canada**

# 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.

**Edmonton, AB:** Northern Alberta Hamfest '93, May 28-30 at Shakers Acres RV Park, 21530-103 Ave, on Hwy 16. Pre-registered admission: adults \$10, 16 and under \$5, family \$20. Admission at the door: adults \$12, 16 and under \$6, family \$24. Saturday banquet, social night, Sunday brunch, RV and day parking. Register early for RV full hookup at \$7 per night extra. Fleamarket tables \$5, \$6 at the door. For more information, contact Jim Steene VE6JDS, 9319-95 St., Edmonton, AB T6C 3X1.

**Etobicoke, ON:** Skywide Amateur Radio Club Spring Hamfest and Fleamarket, Saturday, May 15 at Westway United Church, 8 Templar Drive near Kipling Avenue. Open 0830-1430, vendor set up at 0730. Admission \$4, tables \$10. Talk-in on 146.985 MHz (+) or 146.52-MHz simplex. For more information, contact John Young, VE3CRB, Tel (416) 244-1292, or Bert Arnold, VE3AXJ, Tel (416) 741-2862.

**Kitchener, ON:** Central Ontario Amateur Radio Fleamarket, Saturday, June 5 at Bingham Park, 1380 Victoria Street North. Sponsored by Guelph ARC and Kitchener-Waterloo ARC. Open 0800-1400. Admission \$5, Children 12 and under free. Vendor tables \$8 per eight-foot space. Talk in on VE3KSR 146.97 MHz (-); VE3ZMG 145.21 MHz (-), and 146.52-MHz simplex. For advance tickets and tables, contact Jack Knight, VE3RGY, 35 Brockville Avenue, Guelph, ON N1E 5X5. Tel (519) 823-1358.

**Parry Sound, ON:** Near North Hamfest, Saturday, May 15, 1000-1400, in Parry Sound High School gym. Sponsored by North Bay, Sudbury and Muskoka ARCs. Admission \$2. Non-commercial tables \$5, commercial tables \$10. Food, refreshments and free parking. Talk-in on VE3PSH, 145.490 MHz (-). For more information, Tel (705) 746-9115.

**Sorel, Que:** Hamfest du Québec, Sorel-Tracy, Sunday, 1993 May 30, at Tracy Curling Club. For more information, write to Hamfest du Québec, GP 533, Sorel, PQ J3P 5N6.

**Victoria, BC:** Third International Friendship Radiosport Games and Hamfest, June 24-27. Special-event station XO7G, CW contests, fox hunts, and awards banquet on June 26. Hamfest, commercial displays and fleamarket on June 26-27. Russian amateurs attending. Talk in on 146.84 MHz (-) and 147.42-MHz simplex. For information or registration, contact VE7KPV @ VE7VBB, Tel (604) 370-4420, Fax (604) 370-3750. ■



to widen his or her horizons.

New amateurs can learn how to conduct a QSO, operate a phone patch or a net on the two-metre band, FM or side-band. For the more advanced, but still not-too-advanced, everything from FM simplex to moonbounce, linking, CTCSS operation and antenna construction is covered in an easy-to-read manner. Packet, digipeaters, nodes and BBS are descrambled for you. Satellite reception and trans-

mission are easily understood with a run-down of the many satellites amateurs are using. Amateur television gets its due. There is also a chapter explaining all the awards you can win.

Finally there is a chapter on frequency allocations from 50 MHz to 47 GHz, to keep you legal on the VHF-UHF bands.

This new book, published in 1993 by ARRL, is most informative and should be on every amateur's bookshelf. It is available through CRRL Publishing. Cost is \$10 plus \$1.50 postage plus GST. — Dick Reiber, VE3IBV

## CONGRATULATIONS

Congratulations to Bob Browning, VE3EEM, a sorting volunteer at the CRRL Outgoing QSL Bureau. Bob chalked up his first million cards on 1993 March 18. ■

## PROPAGATION FORECASTING

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## NOTICE

In order to comply with new Canada Post regulations regarding the mailing of *QST Canada*, we recently changed to a new supplier of address labels attached to the magazine.

Our new supplier uses field lengths (the space available for information) that are smaller than those used by our previous supplier. As a result, some of the data cannot be printed—typically the last characters of call signs. While this may cause you concern, please be assured that our database is not affected, and the data in your membership records remains unaltered.

We hope that our supplier will soon be able to increase his fields and end this problem. —Ray Staines, VE3ZJ, General Manager, CRRL ■

## New Brunswick EMCG

The Emergency Measures Control Group (EMCG) was established in 1982 to aid citizens of New Brunswick in times of emergency to coordinate and direct the response of the Amateur Radio community. It is composed of licensed Amateur Radio operators who have volunteered to operate their equipment for public service under emergency conditions. The EMCG is sponsored by the New Brunswick Emergency Measures Organization. John Avery, VE1IW, has provided information on the objectives and organization of this group which is contained in the EMCG Operational Guidelines.

The objectives are set forth as:

a) to provide effective and timely emergency communications in support of provincial, district and municipal emergency plans.

b) to be prepared to replace promptly any planned emergency communications which fail, and

c) to encourage the use of Amateur Radio resources in emergency planning.

The section on organization states:

"The Provincial Communications Officer (PCO) is the chief EMCG officer and will be appointed by the Director, EMO. He will be responsible for its organization and direction, with authority, in consultation with the Director, EMO, to appoint other EMCG officers province wide. To assist the PCO and to replace him in his absence, a Deputy PCO will be appointed.

"In consultation with the EMO District Coordinator, a District Communications officer (DCO) will be the senior EMCG officer in each district and, in conjunction with the EMO District Coordinator, will organize and direct members of the EMCG in accordance with the communications needs of their District. Within his resources, the DCO will organize a number of EMCG sections, each being assigned a specific task.

"Each EMO District may be organized differently to meet its anticipated emergency communications needs and the number of local EMCG volunteers available. For example a DCO could be asked to provide a section to operate an Amateur Radio station in the District Emergency Operations Centre, and others in the operation centres of each key municipality, and to establish at least one mobile section which could be sent anywhere at minimum notice. Ideally each EMCG section should be able to provide both voice and packet links. Undoubtedly the requests for EMCG support will exceed available resources, and it is the responsibility of EMO to establish clear priorities.

"The DCO of District D has the added responsibility of providing an EMCG section to operate the Amateur Radio Room in the Provincial Emergency Operations

Centre, and for establishing contact with his counterparts in neighbouring provinces and the State of Maine."

Brian Upton, VE1ZJ, is the appointed

### Field Organization Reports February 1993

#### CRRL Section Emergency Coordinator Reports

Reports were received from the following SECs (DECs and ECs reporting are listed in brackets) denoting a total ARES membership of 1008.:

Reporting	ARES Members
VE3GT (VE3s FS, GNW, HZQ, LPM, LVO, OJN, OVV, TNL)	540
VE6AFO (VE6s CIA, AFO)	372
VE7HJS	98

#### CRRL Section Traffic Manager Reports

Call	Orig	Rcvd	Sent	Divd	Total
VE1YS	2	13	12	2	29
VE1NB	2	13	10	4	29
VE1ALU	3	7	10	0	20
VE1BTV	0	7	7	0	14
VE1VAR	1	10	1	0	12
VE1DLC	1	3	1	1	6
VE2ALE	0	56	237	1	294
VE2GOP	0	36	84	0	120
VE2ED	2	31	4	29	147
VE3AJN	1	90	65	2	158
VE3ORN	1	76	66	12	155
VE3CYR	0	80	18	0	98
VE3GNW	0	40	48	0	88
VE3BDM	0	35	49	2	86
VE3GSO	1	49	36	0	86
VE3FS	1	37	40	0	78
VE3GT	0	35	40	0	75
VE3HZQ	2	22	41	3	68
VE3AAU	7	16	33	6	62
VE3PXR	3	20	25	4	52
VE3NVJ	2	16	25	3	46
VE3SB	3	22	14	3	42
VE3WV	0	31	5	1	37
VE3DVE	1	10	12	5	28
VE3CVK	3	6	6	5	20
VE3DBG	0	6	10	3	19
VE3BAJ	5	2	9	1	17
VE3LPM	0	5	7	5	17
VE3ADX	3	5	7	0	15
VE3MNI	0	4	9	1	14
VE3GKB	0	5	4	4	13
VE4JR	0	12	12	6	30
VE5KZ	0	1	1	0	2
VE5JML	0	0	6	1	7
VE6CE	10	18	17	2	47
VE6XG	9	17	9	10	45
VE6CPP	0	9	9	0	18
VE6AKY	2	2	2	2	8
VE7BNI	28	189	250	33	500
VE7ANG	0	105	103	6	214
VE7BCL	2	77	36	4	119
VE7XA	2	19	30	5	56
VE7OM	3	23	29	2	57
VECCJ	4	22	24	1	51
VE7BZI	6	13	6	8	33
VE7BCF	2	19	8	1	30
VE7FB	0	15	9	5	29
VE7EGM	7	10	9	2	28
VE7DKS	0	14	13	1	28
VE7GKA	0	13	13	0	26
VE7WI	0	7	7	0	14
VE7AHU	0	10	4	0	14
VE7CZW	0	12	1	0	13
VE7ALV	1	4	6	0	11
VE7BUU	0	9	1	0	10
VE7DJ	0	6	2	0	8

#### National Traffic System

Net (Mgr)	Sess	QNI	QTC
APN (VE1YS)	27	183	94
QSN (VE2ED)	17	74	27
KTN (VE3AJN)	12	105	26
OLN (VE3DUI)	28	805	33
OPN (VE3AJN)	28	623	191
OQN-D (VE3ORN)	27	137	53
OQN-E (VE3CYR)	28	167	71
OQN-L (VE3GSO)	26	67	27
MEPN (VE4LB)	28	1249	17
MMWX (VE4TE)	28	516	222
MTN (VE4IX)	22	143	8
SEPN (VE5ND)	28	1873	9
APSN (VE6AKY)	28	1056	27
ATN (VE6CPP)	28	115	44
BCEN (VE7BCL)	28	1131	456
BCPSN (VE7ELF)	28	4284	0

#### 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: VE3KK, VE7BNI

#### Public Service Honour Roll

(1991 Revision) This listing is for amateurs whose public service performance during the month indicated qualifies for 70 or more points in these eight categories (as reported to their SM). Note maximum points for each category: (1) Checking into a public service net, any mode, 1 point each, maximum 60; (2) Acting as 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; (8) Providing and maintaining an automated digital system handling messages in standard ARRL-CRRL format, 30 points. Those qualifying for Public Service Honour Roll for 12 consecutive months, or 18 months out of 24, will earn a special certificate.

PSHR: VE3AJN (141), VE3GSO (139), VE3ORN (131), VE3BDM (130), VE3CYR (128), VE3GT (125), VE3HZQ (123), VE2ED (115), VE3FS (111), VE3PXR (100), VE4LB (89)

#### Service and Specialized Nets

Independent Net Managers: Please send your reports to CRRL, Box 56, Arva, ON N0M 1C0.

Net (Mgr)	Sess	QNI	QTC
ONTARS	28	12296	0
GBN (VE3WV)	28	100	19
GBSSN (VE3WV)	28	110	31
Manitoba Repeater	8	620	0
Aurora 1 (VE5ND)	24	1382	4
Prairie WX (VE5EX)	28	762	0
Sask ARES (VE5FY)	4	206	0
Central Sask 2m (VE5HG)	24	1275	0
Saskatoon 2m (VE5DN)	28	455	0
MJARC 2m (VE5JJP)	28	405	0
Avonlea 2m (VE5EE)	27	934	0
Alberta ARES (VE6AKY)	8	177	4

PCO, assisted by Gregory Gilmore VE1XH. The province is divided into ten districts, each headed by a DCO. We congratulate these persons for their commitment to public service in New Brunswick.

## REGIONAL AND COUNTY PLANNING

In Ontario, emergency planning and operations are governed by the Emergency Plans Act, 1983. This act puts overall responsibility for planning for and dealing with an emergency squarely on the shoulders of municipal councils. The Emergency Plans Act does not directly address the situation when an emergency is more widespread. What if it affects an incorporated region or county?

To deal with this, Emergency Planning Ontario has been drafting changes to the Act that would define responsibilities in emergencies affecting more than one municipality. These changes have not yet been enacted into law.

Meanwhile, various counties and regions are being encouraged to develop plans for their role in a widespread disaster. One county that has responded positively is Lennox and Addington. It is located between Belleville and Kingston, extending northward from Lake Ontario. Recently I had the opportunity to review and comment on their draft plan. It includes a section on the role of ARES in an emergency (quoted in our January column), and it defines the county's role:

"A county is neither empowered to declare an emergency nor to direct the activities of local municipalities in responding to an emergency. However, these limitations should not be interpreted to mean a county does not have an important role to play, particularly in widespread emergencies affecting more than one municipality."

The aim is "to set out procedures for mounting the most effective response to requests for assistance from constituent municipalities in the County of Lennox and Addington who have declared an emergency to exist, and have requested assistance from the County. These procedures focus on the effective use of all resources needed to assist in the prevention or mitigation of emergency situations in the local municipalities of the County of Lennox and Addington, and in so doing, to safeguard the property, health, safety and welfare of the populace."

The county's functions include: "identification of resource needs that cannot be met locally and, on behalf of the affected local municipalities, to make arrangement for and coordinate the provision of resources from adjacent municipalities and from senior levels of government; and upon direction from the Premier, to provide such assistance as he considers necessary to any area of the province affected by the emergency."

In spite of the lack of direction from the legislature, Lennox and Addington County has recognized the need for planning within its jurisdiction, and it has taken an important step forward in emergency preparedness by creating this plan.

According to Vic Henderson, VE3FOX, the Region of Peel is also working on a new emergency plan. As reported in *The Peel Signal*, the Peel Region Plan will identify its role in support of the emergency plans of the municipalities of Mississauga, Brampton and Caledon. Vic and members of the Peel ARES group have met with Joe Moore, Chief Emergency Measures Officer of Peel Region, to make sure the revised plan does accurately reflect the role of ARES in an emergency. They were pleased with Mr. Moore's familiarity with Amateur Radio, and were assured that ARES would be included in the new plan, expected to be completed in March.

Does your municipality's emergency plan accurately reflect the contribution your group can make in a disaster? Should you take the initiative to recommend a revision to the plan if necessary?

## ARES PROVIDES COMMUNICATIONS ONLY

Niagara Peninsula Amateur Radio Club has issued its Emergency Response Plan. Joe, VE3NDX, in the *NPARC Feedline* quotes this paragraph which I think is particularly important to keep in mind:

"In all instances, the role of NPARC is to provide communications. NPARC members should undertake no actions other than communications unless specifically requested. Communications is our only job, not law enforcement, traffic control, first aid or anything else."

More later. —Bob Boyd, VE3SV

*This column appears in 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

## COMING SOON

The last issue of *QST Canada* will appear in June. Starting in July, Section News, Field Organization Reports, the VHF-UHF column and propagation reports will appear in RAC's new *The Canadian Amateur*.

# New Products

## HAMLINK AND CW LINK

The Amateur Radio Engineering ARE-60 HamLink™ can control virtually any function of any rig which can be controlled by a serial computer interface port—from a TouchTone telephone anywhere in the world!

HamLink users don't have to miss a schedule, a net check-in, or a new country. The HamLink box measures 8 by 5 by 2 inches. It connects to the microphone, external speaker, CW key and serial port jacks of Icom, Kenwood or Yaesu transceivers. HamLink also connects to an existing telephone line. There is no need to add a second line. It will work even if an answering machine is connected to the same line.

Once logged into a HamLink, the TouchTone pad on the telephone is used to control the radio. Users can change bands and frequency, tune up or down, switch modes, scan, work split and use virtually any feature the radio has.

The asterisk key controls the transmitter. On SSB, pressing the key once activates the transmitter like a push-to-talk button. Pressing it again returns it to receive.

Amateur Radio Engineering is also producing CW Link, an interface that works with HamLink to allow high-speed CW, the use of headsets, and a microphone. CW Link is installed at the user end of the telephone connection to a HamLink unit. CW Link adds more flexibility in controlling the radio by telephone. It also has a standard 1/4-inch phone jack to accept the output of an electronic keyer, bug or hand key to send CW at up to over 40 wpm. For more information, contact Amateur Radio Engineering, Inc., Box 169, Redmond, WA 98073, Tel (206) 882-2837. ■

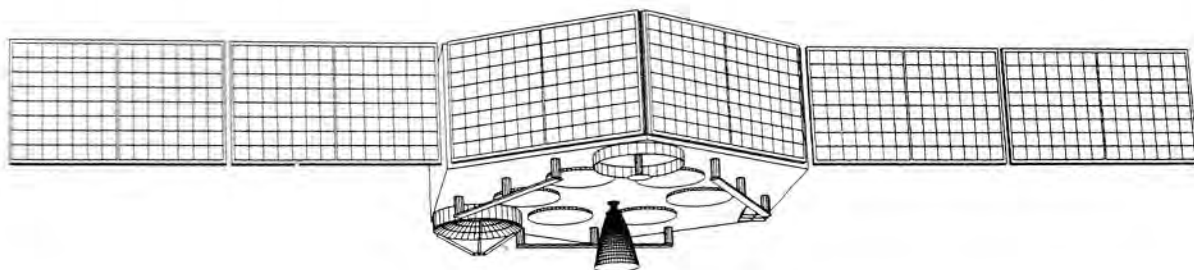
# Ham-Ads



Advertisements must pertain to Amateur Radio. For individuals or firms offering products or services for sale, the rate is \$0.50 a word + GST. This is reduced to \$0.25 a word + GST 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 *QST Canada* Ham-Ad will appear in the next available issue. Send Ham-Ads to CRRL, Box 56, Arva, ON NOM 1C0.

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