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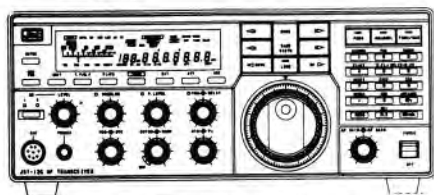
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**ABOUT THE COVER**



Here's the Canadian contingent at the W1AW rededication ceremony, ARRL Headquarters, Newington, Connecticut. From left to right: VE3CD, VE3KK, VE3CDM, VE3HC and VE3GCR. Not shown: VE3GRO who took the photo. ■

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

**Ready, Aim, WARC...**

It's the Old West, folks. There are rustlers. Their bellies flattenin' the dust, they're watchin' your spread. Waitin' for when you're not looking. Then they'll move in.

Yup, there are fences (we call it band planning). Some of us think we have squatters' rights but an absentee squatter doesn't have rights. Some of us think we can control the water rights (we call 'em frequencies) and can choke off whomever. Think again. That big feller at Ranch Bizz Fone just moved his fence onto your reservoir. Yea', there's goin' to be a lot of shoutin' and maybe some shootin'. History shows the rustlers got the sod busters, at least in the first skirmishes.

The general public wants spectrum. It wants to phone home, to do business, to open garage doors. It wants to ensure safe air travel and ensure the peace. The demands on spectrum run from the soporific to the crucial.

We are a specific public, a special interest. We want frequencies to improve our technical skills, to communicate, to be a resource to our communities. In short, to do things we tell to politicians and politicians tell to each other. And whatever we say, it boils down to territory—and the general public wants it.

"I'll call the Mounties," you shout, fist to the sky. They aren't comin'. Things are gettin' like down south. Our cousins say that the Blue Coats at Fort Frank Charlie Charlie are listenin' to their cellular phones and they like it. And if anything's wrapped up in a flag, they'll take it. 'Sides, the folks in Ottawa signal DC (Washington, that is) on questions of AC (RF, that is). "Circle the wagons," you cry. Look around. No one is in sight. This nation's amateurs are so geographically and filially apart that there aren't two Conestogas together to make a defence.

It's up to you, buddy. Check the land, like the lower part of that 10-metre parcel. What's goin' on. Anything out of the ordinary? better tell the powers that be. Sow some new seeds. Try a new band, a new mode. Or try an old band and and old mode but help those trail blazers.

Harvest that crop or get that herd to market. Maybe the local school or Scout troop would be glad to learn about your doin's. How about those seniors who, havin' retired from their spreads, might be hankerin' to lend a hand tillin' your land!

Do the neighbours know what you're up to. Maybe a hootenanny (okay, a barbecue) will show 'em what you're doin'. Otherwise, they'll see those "aerials" as lightnin' rods or some such thing, hurlin'

wrath at their TV sets. The townsfolk sure'll know that your work gives 'em security. Tell 'em how you helped durin' the flood or when that dray team jackknifed on the bridge.

There's writin'. Politicians or their people can read, I'm told. Let 'em know what you're doin' to make this a serviceable territory. Got a newspaper? Tell the editor there's rustlin' goin' on.

They're comin' over the rise, buddy. What's it goin' to be? Run? Shoot when you see the whites of their eyes? Or plain scare 'em away with your spread—everythin' in its place and you and the townsfolk on the fences?—*Bill Karle, VE4KZ*

When Bill Karle wrote the piece above, he didn't know that early in 1992, in Spain, the International Telecommunications Union (ITU) will convene a World Administrative Radio Conference (WARC) with power to reallocate our amateur frequencies. (We'll now stand by to let you read Bill's piece again. Takes on a whole new significance, doesn't it?)

Everything Bill has suggested is important, but it's still going to take a whole lot more. It's going to take a concerted effort by organized Amateur Radio in every country, and by the International Amateur Radio Union (IARU).

In March *QST Canada*, CRRL President Tom Atkins told you about the independently administered Defence of Amateur Radio Fund set up to help IARU in its preparations for a possible WARC. It was difficult to get excited about a WARC then. No one knew for sure that there was going to be a WARC.

It's now time to get excited. Without frequencies, that 3000 dollars's worth of Amateur Radio equipment sitting on your desk becomes junk. Think of what you've spent on your station. Think of the fun you've had, the service you've enjoyed providing. Think of the New Zealand amateurs who, in that small country, have set themselves a goal of collecting some \$40,000 for the IARU effort in Spain. We could do it too if each one of us kicked in only two dollars, but that won't happen, so the fund needs your tens and twenties and more.

You'll find the address of the fund elsewhere in *QST Canada*. Talk about the it on the air and at your fall club meetings. There's a lot at stake and the only thing that will pull us through is all of us pulling together.—*Harry MacLean, VE3GRO* ■

All letters will be considered carefully. Letters are edited 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.

## SMOKE

The article entitled "Smoke" in your June issue was in bad taste: pure British-bashing—a phenomena I have often experienced since emigrating to Canada in 1960. After 25 years as an MOT technician at Ottawa and Edmonton airports, I recall great reluctance by Canadian-born techs to work on the Cosser 50-watt air-ground transmitters and the Plessey HF receivers, both of British manufacture. Their reluctance was often justified by derision of British electronic terms. I often had to remind them that, after all, the technical manuals were written in English.

Vindictive assertions that British transistors leak and smoke is probably caused by technicians reversing dc polarity, not a flaw in manufacture. Amateur Radio is an international hobby and for *QST Canada* to

berate products of a particular country is not only bad for trade but for international relations. —*H E Venis, VE7EDR*

*The article was a "humour piece" and no offence was intended. Notwithstanding that, the editor, who drives a 1979 MGB, has some sympathy for the view that British-made electrical equipment is prone to breaking down.*

## GALLIX ZONE 2

I believe there was a minor error in the "Gallix Zone 2" item in August 1989 *QST Canada*. Gallix is identified as "localisé à 40 kms à l'ouest de Sept-Isles..., 73° 37' 45" de longitude ouest." According to my map, Gallix is at approximately 66° 36' west.

Fortunately, there is no doubt that Gallix is well above 50° north latitude and is defini-

tely in Zone 2. —*Hank Rugg, VE2HN*

## 75 YEARS OF ARRL

*The following was recently delivered to Larry Price, W4RA, President of ARRL.*

Sincere congratulations and best wishes on the 75th Anniversary of the American Radio Relay League from the officers, directors and members of CRRL.

Because of the long association of Canadian amateurs as part of the ARRL family, this occasion is of special significance to us.

Since its inception in 1914, the League has been a strong leader and watchdog for Amateur Radio, not only in North America but internationally. Its service to the world Amateur Radio community has been tireless, impressive and unparalleled.

With very best wishes for the future, 73.  
—*Thomas B J Atkins, President, CRRL* ■

### 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 7009, Station E, London, ON N5Y 4J9 (519) 660-1200.

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## Calendar



**Attention:** Deadline for items is the 1st of the second month preceding the month of publication. For example, information would have to reach *QST Canada* by January 1 to be included in a March issue.

**Barrie, ON:** Hex-9 Packet Radio Symposium: cancelled for this year.

**Calgary, AB:** Fifth Annual Ham Radio Fleamarket, 9 am to 1 pm, Saturday, September 16, at Parkhill Community Centre, 4013 Stanley Rd SW. Sponsored by Novatel ARC. Tables: \$2. Talk-in on VE6NRC 146.16-.76 and 146.52-MHz simplex. For reservations, contact Novatel ARC, Box 7578, Station E, Calgary, AB T2E 3M3.

**Greenwood, NS:** First Annual Fleamarket, 9 am to 4 pm, Saturday, September 23, at Gilwell Hall. Sponsored by Greenwood ARC. Door prizes, refreshments, guest speaker from DOC. Admission: \$1 (children under 12 free). Tables: \$5. Talk-in on VE1WN, 147.27-.87, VE1BO, 147.06-.66, and 146.52-MHz simplex. For reservations or information, contact Jim Baskey, VE1VAQ, Box 63, Greenwood, NS B0P 1N0, Tel (902) 765-4570.

**London, ON:** 12th Annual Fleamarket, 9 am to 2 pm, Sunday, October 15, at Pot o' Gold Bingo Palace, Hamilton and Gore Roads. Sponsored by London ARC. Large indoor sales area, large paved parking area. Admission: \$4 (14 and under free). Tables: \$5. Talk-in on VE3LON, 147.06-.66 MHz. For reservations or information, contact Dave Noon, VE3IAE, Box 82, Station B, London, ON N6A 4V3, Tel (519) 453-2292.

**Montreal, PQ:** Hamfest, 9 am to 3 pm, Saturday, September 9, at St Richards Church, 7070 Guelph Rd, Côte St-Luc, PQ. Sponsored by Côte St-Luc Amateur Radio Association. Admission: \$2. Fleamarket setup: 8 am. Fleamarket tables: \$10. talk-in on 147.27-.87 MHz. For reservations or information, contact Joe Ship, VE2JS, 5637 Melling Ave, Côte St-Luc, PQ H4W 2C1. Tel (514) 482-6500.

**Windsor, ON:** To publicize the International Plotting Match, Maidstone Township east of Windsor, Windsor Amateur Radio Club, in conjunction with Environment Canada, will operate special-event station VE3OW from the site, 1300-2200 UTC September 19-23, 14.250-MHz phone. For special commemorative certificate, send QSL and SASE to Windsor ARC, Box 1322, Station A, Windsor, ON N9A 6R3. ■

# F28 Crash in Dryden...

ARES was ready to provide the backup communications.

By W F "Woody" Linton, VE3JJA  
R R 1, Airport Rd  
Kenora, ON P9N 3W7

**F**riday, March 10: Amateurs from the northwestern Ontario communities of Dryden, Ignace and Kenora respond to a request by Dryden Emergency Measures Organization (EMO) to provide communications after an Air Ontario F28 crashed shortly after takeoff from Dryden Airport. The jet crashed one kilometre west of the airport after failing to become airborne. The area where it hit was wooded and near a road. Fire and rescue crews had to cut their way through the woods to the crash site where the jet had broken into three pieces. Shortly after impact, its fuel caught fire. When rescuers arrived, flames had spread throughout the crash.

Miraculously, forty-five passengers survived, some walking out, others helped by fellow passengers or rescuers. Unfortunately, two of the survivors died in hospital. Twenty-two passengers did not survive.

This was the first crash of a regularly scheduled flight in Canada since 1979. At time of writing, the cause of the crash was suspected to be icing on the wings due to a wet heavy snowfall while the jet was awaiting takeoff clearance. The fast, efficient response, rescue and treatment is credited to all those who made up the response team. Dryden is a small community of just over 6000 and everyone did work together to do what had to be done.

The jet crashed at 1809 UTC. By 1839, EMO Coordinator Louis Maltais, Chief of Dryden Fire Department, had called Ken Rentz, VE3HJW. Ken activated the Amateur Radio Society of Dryden (DARS) Emergency Plan and Carol Orvis, a student in the DARS Amateur Radio classes and XYL of DARS vice-president Roy, VE3BJD, called up the members. The DARS repeater, VE3DRY, 147.24/147.84 MHz was used for communications.

Amateurs arrived at the command centre, the Town Fire Hall by 1900. The first amateur arrived at the crash site at 1908, and other amateurs soon joined the scene. On hearing of the crash, Dale, VE3EFY, volunteered to drive the ninety miles from Kenora to Dryden to assist. Bob, VE3IDJ, drove sixty miles from Ignace to Dryden, and Gary, VE3PHA, who was working at Sioux Lookout at the time of the crash, drove sixty miles back to Dryden. Five

other Dryden amateurs also responded. In the end, Dale, VE3EFY, remained in Kenora to work with Woody, VE3JJA, the District Emergency Coordinator (DEC), to provide a two-metre link with Kenora and an HF link with Red Cross officials in Winnipeg.

Communications included the following:

1. Determining the status of the runway at Dryden Airport. There had been a heavy snowfall and the crash site was on the runway approach path. Field maintenance workers who would normally determine this were assisting airport fire and rescue crews at the crash site.

2. Coordinating helicopter and ambulance movements.

3. Ordering food and coffee for the rescuers.

4. Providing communications between the crash site, local hospital and command centre.

The Ontario Provincial Police started releasing amateurs from the crash site at 2140 and, at the same time, the hospital administrator released the amateur assigned to him. The command centre

amateurs remained on duty until 0167, but with other released amateurs continued to monitor in case of a recall.

Amateurs in the Dryden area were well prepared for an emergency like this. The Amateur Radio Society of Dryden had worked with EMO for several years and had demonstrated the value of Amateur Radio through several simulated disaster exercises. Each group in these exercises had its own internal communications systems, but relied on amateurs to provide radio communications between groups at the various sites.

A simulated exercise in November 1988 had highlighted some problem areas and another exercise had been planned to re-evaluate the emergency plan. Because of this, the response to the "real thing" fell into place efficiently. Needless to say, the planned simulation has now been cancelled.

Even so, the real thing pointed out new areas that will need refinement. Because we are a "young" club, reactivated only four years ago, and because of our late entry with EMO, we were not as ready as we could have been. We were

The scene that greeted Dryden amateurs on March 10. (Photo courtesy Dryden Observer)



fortunate that the crash site was close to town and that it was not a protracted emergency. Our problems included:

1. Lack of an HF rig at the command centre. Thus, we appreciated the response of Dale, VE3EFY, and Woody, VE3JJA, in Kenora who initially provided an HF link. After Lloyd, VE3JJY, was released from the crash site and returned to his home he was able to carry Red Cross traffic on the 3750 kHz NWO ARES Net.

2. Some of us had low batteries. Most of us use Icom IC-2ATs, so now we'll be purchasing BP-4 adapters to take AA-size alkaline batteries (the Ontario Provincial Police provide their personnel with AA cells as these last longer than nicads). We now realize that commonality of equipment is important too. If everyone uses the same units, parts such as battery packs are easily interchanged.

3. Identification was a problem at the crash site. We're asking EMO to provide us with windshield stickers or dashboard signs for our cars, and photo ID cards for our coats. Stan, one of our radio class students is developing a prototype vest that will provide distinct recognition for members of the response team.

4. Indoor antennas didn't work well at the command centre. We're asking EMO to purchase and erect permanent antennas outside strategic buildings around town, and at the airport.

There will be other improvements as well. Our club is now planning the relocation and upgrading of its repeater to increase its range and reliability. This came as a result of a 1987 mid-winter power failure. The repeater was later updated to make it compatible with the JEPP plan to link northwestern Ontario communities with UHF. Kenora will be the hub of the system which, eventually, will be able to provide communications from Winnipeg to Thunder Bay. That should really improve our ability to be effective in an emergency. ■

#### F28 Crash: People who helped...

Callup:  
Carol Orvis  
Command centre at Dryden fire hall:  
Roy, VE3BJD  
Dave, VE3LMU  
Crash site, west of Dryden Airport:  
Bob, VE3IDJ  
Lloyd, VE3JJY  
Staging area, McArthur Road:  
Gary, VE3PHA  
Hospital:  
Ken, VE3JHW  
Transportation, spares:  
Dave, VE3FSD  
Joe, VE3EEK  
Karen, VE3JAK  
VHF link at Kenora, HF link to Winnipeg:  
Dale, VE3EFY  
Woody Linton, VE3JJA (DEC)

## 1989 Saskatoon Brier

The Brier came, the Brier went, and with it, fond memories of a job well done by amateurs and other volunteers who helped out with communications at the Brier Dispatch Centre. Eighteen amateurs and seven non-amateurs volunteered their services to make this Brier the best ever.

The Dispatch Centre was located at Saskatchewan Place, above the concourse level on a raised platform that overlooked the five sheets of ice. The view was excellent and everyone enjoyed watching the games before and after their shifts. Generally, shifts were scheduled for three, four or five hours, starting at 7 am and ending at 1:15 or 2 am the following morning.

Radio equipment was supplied by Motorola. Frequency: 406 MHz. A repeater at Saskatoon Square downtown gave city-wide coverage. Handhelds were used by the drivers and very few dead spots were encountered.

Just before the Brier, a training session was held to help the drivers and dispatchers learn radio procedures. This was invaluable because many had never operated a two-way radio before. By the end of the Brier, some of the drivers were operating with such expertise that we could take lessons from them!

The twenty-five drivers in charge of the thirteen cars and vans moved VIPs, baggage, management, doughnuts, bank deposits, souvenirs, dispatchers, bulletins and anything else needed to make the Brier a success.

Dispatching and coordinating the thirteen units involved much more than sitting at a microphone and talking—some of us found that out! Although we talk a lot on the radio, we don't usually have to

make quick decisions about a pickup, a drop, a special trip and so on. That's what made it interesting. Cooperation, of course, was what made it all work out.



At the Dispatch Centre: (l-r) Tom Roynon, VE5UK, Ivadelle Kulyk, Brad Wiebe, and Syl Kulyk, VE5YK.

The Dispatch Centre was in operation March 2-13. People involved: Ed, VE5GE; Janet and Bill, V5WC; Ethel and Percy, VE5RP; Bill, VE5DN; Rob, VE5OP; Ernie, VE5EH; Jim, VE5KQ; Don, VE5HQ; Mark, VE5ZU, Ivadella and Syl, VE5YK; Dave, VE5BEH; Keith, VE5VJ; Linda and Chris, VE5BAR; Eric, VE5HG; Bonnie and Bruce, VE5RC; Tom, VE5UK; Monty, VE5MN; Alan, VE5PF, Linda and Brad Wiebe. Bill, VE5WM, was unable to take an active role because of his illness.

A special thanks to my XYL, Ivadella, who was the backbone of the Dispatch Centre and looked after many of the details that helped things run so smoothly.

Next year's Brier will be held in Sault Ste-Marie. The Brier committee was so impressed by everyone's efforts, they invited Ivadella and myself to help them in the Soo. Who knows? We may do just that! —Syl Kulyk, VE5YK ■

## l'UMS en Action

Le 17 mai dernier, le club de l'Union Métropolitaine des Sans-filistes a connu sa soirée annuelle d'élections. Souhaitons la bienvenue à Jean Paul VE2 AST, secrétaire Jacques VE2 FUG et Frédéric VE2 AKZ qui se sont joints au comité de direction avec toujours comme président: Victor VE2 GDZ, vice président: Claude VE2 FUR, directeur: Georges VE2 GXS, et enfin Yves VE2 LYB qui a été réélu pour un second mandat et occupera les fonctions de trésorier parmi beaucoup d'autres. Félicitations à tous.

Pour une rare fois, nous avons plus de candidats en nomination que de postes à combler... est-ce possible? Nous avons maintenant de la compétition pour diriger notre club! Définitivement ça bouge à

l'UMS! Le même soir avait lieu l'encan annuel sous la férule de Pierre VE2 FFE en qualité de commissaire priseur. Tout un succès!

Par ailleurs, le troisième mercredi de chaque mois nous avons compté une moyenne de 75 membres par rencontre grâce à des conférenciers tels que Jean Louis VE2 DJY, Jerry VE2 AW, Andrew VE2 AYM, Robert VE2 BNC, Jean Guy VE2 AIK, Yves VE2 LYC, et Jean Louis VE2 IG. Mentionnons enfin que la nouvelle antenne VE2 RMB est maintenant en place à 160 pieds au dessus du Mont Rougemont qui a lui-même une altitude de 1200 pieds. Merci à VE2 AIK et à tous ceux qui ont rendu la chose possible. —Michel Chotard VE2 JEU ■

# W1AW Rededicated

Canadians were there...

By Marshall Killen, VE3KK  
1602-25 Westmount Rd  
Waterloo, ON N2L 5G7

Thanks to Fred Hammond, VE3HC, who had been invited as a VIP guest, four VE3s were privileged to attend the rededication of the newly renovated ARRL Headquarters station, W1AW, in Newington, Connecticut. Accompanying Fred in his radio-equipped van: Harry Norry, VE3GCR, and Harry MacLean, VE3GRO, from London, Ontario; and Ted Bodman, VE3CD, and Marshall Killen, VE3KK, from Waterloo. Also present on July 20, the date of the rededication: Tom Atkins, VE3CDM. Tom and Harry, who serve as President and Vice President of CRRL, made sure that Canada was well represented at this event.

We left Fred's QTH in Guelph around 8 am on July 19 and arrived at Farmington, Connecticut, near ARRL Headquarters, at 8 pm the same day. Fred had us booked in at the Marriott Hotel—very high class!

Next morning when we arrived at ARRL Headquarters, Fred was welcomed enthusiastically by everyone we met. We wondered why he was receiving such VIP treatment until later on the tour, when everywhere we saw signs of Hammond munificence: panels, racks, cabinets, chassis and transformers just to mention a few things—all bearing the Hammond nameplate and supplied gratis to ARRL by the Hammond Manufacturing Company of Guelph, Ontario.

Although no tours were supposed to be conducted on the morning before the rededication ceremony, basking in the shadow of Fred's presence, we lesser mortals were given an excellent three-hour tour of ARRL Headquarters building, its departments and museum. Our guide was a staffer—Mary, N7IAL, a very pretty YL from Seattle, Washington.

After reading *QST* over the years, it was interesting to visit all the departments we had read about. There are over one hundred staffers at ARRL and they have excellent working conditions. The QSL bureau was of particular interest to me. There was a pigeon hole for each country on the DXCC list and others not even on the list. I noticed that the VE3 hole was much fuller than most with cards waiting to be shipped to the VE3 bureau.

As we moved about the building, we saw that famous instrument of torture, the Wouff Hong, mounted on one wall. This queer piece of wood resembling a human

finger was designed in the early 1920s by TOM and founder of ARRL, Hiram Percy Maxim, 1AW, as punishment for errant radio amateurs who misbehaved on the air. Nearby, on another wall, nicely framed, was a letter of congratulations from RSGB, a kindred society of the ARRL across the Atlantic.

We then visited the W1AW building located across the parking lot from the main headquarters building. This building is home of the station, but at the time, it was working under difficult conditions: most of the equipment had not been wired up. We noted the racks for the transmitters and the main console, a beautiful and functional piece of work—all carrying the Hammond nameplate and donated by Fred.

A marquee was set up on the grounds between the buildings. At 3 pm, several hundred ARRL officers, staffers and visitors assembled to hear the convocation pronounced by Rev Mike Mullen, WB2BQW. This was followed by some short speeches including one by ARRL President Larry Price, W4RA. The last speech was by Fred. He was introduced as "one of the boys from across the border" and we felt proud to hear him speak so well, reminding the audience not to forget companies now gone—National, Hallicrafters, Hammerlund, Millen and more—companies that had supported Amateur Radio in the past to help it develop to where it is today.

From the marquee, we proceeded to the W1AW building to see the ribbons, which were stretched across the main door, being cut. This task was to have been performed by Hiram Percy Maxim's son, Hiram Hamilton Maxim, but due to advanced age and illness, he was unable to be present. In his stead, the ribbons were cut by ARRL President Larry Price, to much applause. After signing the guest

book, we enjoyed refreshments. The champagne and punch sure went down well—it was a hot afternoon.

Just before leaving for the long trip back to Ontario, Harry, VE3GRO, and I joined the lineup to see what was happening in the W1AW building. We found the 28-MHz station in operation so we rushed over to Fred's van parked not far away. Within a few minutes, both of us managed short QSOs with Frank (whom I think was KA1CV—I am not sure). I had



Fred Hammond, VE3HC (left), shakes hands with Mark Thompson, N2JER, of Harris RF Communications moments before the ribbon-cutting ceremony at the ARRL Headquarters station W1AW. Fred and Hammond Manufacturing donated the cabinetry for W1AW's new console and W1AW's new Harris RF-3200 series solid-state one-kilowatt transmitters.

a VE3KK QSL card with me so I quickly filled it in and delivered it to him. It was a rather unusual case of a QSO followed by instant delivery of the QSL card.

To have been able to visit ARRL Headquarters and W1AW on such an auspicious occasion, and to see this most famous of all Amateur Radio stations in operation, one that I had worked many times from different QTHs around the

W1AW—Continued on page 16

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# THE CRRL BOOKSHELF

## STUDY MATERIALS

	Non-Member	Member	Stock#	Postage	✓
Canadian Amateur Licensing Manual	\$18.75	\$17.00	100	\$1.50	<input type="checkbox"/>
Canadian Amateur Question Bank	10.00	9.00	112	.75	<input type="checkbox"/>
Canadian Amateur Regulations Book	10.00	9.00	190	.75	<input type="checkbox"/>
Canadian Amateur Code Tapes (OT)	38.00	34.25	200	2.50	<input type="checkbox"/>
Canadian Advanced Question Bank	10.00	9.00	116	.75	<input type="checkbox"/>
Banque de questions première	10.00	9.00	113	.75	<input type="checkbox"/>
Banque de questions supérieure	10.00	9.00	117	.75	<input type="checkbox"/>
First Steps in Radio, W1FB	8.00	7.25	470	.75	<input type="checkbox"/>
Premier pas en radio, W1FB (RAQI)	8.00	7.25	F900	.75	<input type="checkbox"/>
Operating an Amateur Radio Station	1.25	1.25	300	1.00	<input type="checkbox"/>

## OPERATING

Operating Manual	21.00	19.00	522	1.50	<input type="checkbox"/>
Complete DXer	15.75	14.25	440	.75	<input type="checkbox"/>
Low Band DX	14.00	12.50	890	.75	<input type="checkbox"/>
Low Band DX Software (available for many computers; send SASE for prices)					

## OPERATING AIDS

1989 North American Callbook (OT)	36.00	32.50	720	1.50	<input type="checkbox"/>
1989 International Callbook (OT)	40.00	36.00	710	1.50	<input type="checkbox"/>
1989 Callbook Supplement (OT)	12.00	11.25	730	1.00	<input type="checkbox"/>
Log Book (OT)	3.50	3.00	121	.75	<input type="checkbox"/>
Super Log Book (OT)	5.75	5.00	125	.75	<input type="checkbox"/>
Radiogram Forms (OT)	2.00	1.75	170	.75	<input type="checkbox"/>
1989 ARRL Repeater Directory (OT)	7.00	6.00	193	.75	<input type="checkbox"/>
Grid Locator for North America (OT)	2.00	1.50	800	.75	<input type="checkbox"/>
DXCC Countries List (OT)	2.00	1.50	812	.75	<input type="checkbox"/>
1989 Net Directory (OT)	2.00	1.50	823	1.50	<input type="checkbox"/>
ARRL World Map (OT)	13.50	12.25	840	2.50	<input type="checkbox"/>
Callbook Prefix Map of the World (OT)	8.50	7.75	RA10	*3.50	<input type="checkbox"/>
Callbook Prefix Map of N America (OT)	8.50	7.75	RA11	*3.50	<input type="checkbox"/>
Callbook Great Circle Map of World (OT)	8.50	7.75	RA12	*3.50	<input type="checkbox"/>

## VHF-UHF

Basic Guide to VHF-UHF	10.75	9.50	790	.75	<input type="checkbox"/>
RSGB Microwave Newsletter Collection	16.75	15.00	340	1.00	<input type="checkbox"/>
RSGB VHF-UHF Manual	32.25	29.00	370	1.00	<input type="checkbox"/>
All About VHF Amateur Radio	14.50	13.00	RP130	1.00	<input type="checkbox"/>
Satellite Anthology	7.00	6.25	700	.75	<input type="checkbox"/>
Satellite Experimenter's Handbook	16.00	14.50	540	.75	<input type="checkbox"/>

## PACKET AND COMPUTERS

	Non-Member	Member	Stock#	Postage	✓
AX.25 Packet Protocol	\$12.75	\$11.50	430	\$.75	<input type="checkbox"/>
Computer Network Conference #7	15.00	13.50	602	1.00	<input type="checkbox"/>
Gateway to Packet Radio	14.00	12.50	900	.75	<input type="checkbox"/>

## ANTENNA BOOKS

1988 Antenna Book	24.00	21.50	411	1.50	<input type="checkbox"/>
RSGB HF Antennas for All Locations	21.25	19.00	330	1.00	<input type="checkbox"/>
Antenna Compendium #1	15.75	14.25	420	.75	<input type="checkbox"/>
Antenna Notebook, W1FB	11.50	10.25	405	.75	<input type="checkbox"/>
Novice Antenna Notebook, W1FB	10.75	9.50	425	.75	<input type="checkbox"/>
Antenna Impedance Matching	18.00	16.25	450	1.00	<input type="checkbox"/>
Yagi Antenna Design	21.00	19.00	630	1.00	<input type="checkbox"/>
All About Cubical Quad Antennas	12.00	10.75	RP110	1.00	<input type="checkbox"/>
All About Vertical Antennas	13.25	12.00	RP120	1.00	<input type="checkbox"/>
Simple, Low-Cost Wire Antennas	14.50	13.00	RP140	1.00	<input type="checkbox"/>
Beam Antenna Handbook	14.50	13.00	RP150	1.00	<input type="checkbox"/>

## OTHER

1989 ARRL Handbook	32.25	29.00	494	2.00	<input type="checkbox"/>
ARRL Electronics Data Book	15.00	13.50	516	.75	<input type="checkbox"/>
RSGB Radio Data Reference Book	21.25	19.00	380	1.00	<input type="checkbox"/>
Radio Frequency Interference	5.75	5.25	532	.75	<input type="checkbox"/>
Test Equipment for Radio Amateurs	21.25	19.00	360	1.00	<input type="checkbox"/>
Solid State Design	17.00	15.25	551	1.00	<input type="checkbox"/>
Transmission Line Transformers	14.00	12.50	880	.75	<input type="checkbox"/>
Hints and Kinks, 12th edition	6.25	5.75	512	.75	<input type="checkbox"/>
QRP Notebook, W1FB	8.00	7.25	590	.75	<input type="checkbox"/>
Morse Code - The Essential Language	8.00	7.25	610	.75	<input type="checkbox"/>
200 Metres and Down	6.00	5.50	560	.75	<input type="checkbox"/>
Gil	7.00	6.25	860	.75	<input type="checkbox"/>

## CRRL INSIGNIA

Lapel Pins (OT)	2.50	2.50	130	.75	<input type="checkbox"/>
Large Cloth Diamond (5") (OT)	3.00	3.00	141	.75	<input type="checkbox"/>
Small Cloth Diamond (3") (OT)	2.00	2.00	151	.75	<input type="checkbox"/>
ARES Circular Patch (4") (OT)	4.00	4.00	161	.75	<input type="checkbox"/>
Set of 3 CRRL Logo Decals (OT)	1.00	1.00	180	.75	<input type="checkbox"/>

\*Special Note: Callbook maps ordered together can be shipped together. Add \$3.50 postage only once on orders of two and three Callbook maps.

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## More Notes from All Over

□ CARF, the Canadian Amateur Radio Federation, has responded favourably to a CRRL request to resume discussions which could lead to the creation of a single Canadian Amateur Radio organization. No timetable has been set yet, but face-to-face talks are expected to begin in September.

□ ITU, the International Telecommunications, has announced its intention to hold a WARC in the first quarter of 1992, a WARC with authority to reallocate frequencies in the following bands:

- 3-30 Mhz HF bands
- 500 MHz-3 GHz
- 12.7 GHz and above

The WARC will be held in Spain and is expected to last for four weeks. (In contrast, WARC '79, which was a general WARC dealing with *all* radio frequencies, lasted for ten weeks.) A precise agenda has not yet been developed. IARU, the International Amateur Radio Union, is making preparations to defend our amateur frequencies.

□ The Defence of Amateur Radio Fund that was initiated by CRRL will soon be independently administered. Purpose of this fund is to raise money to help IARU protect our amateur frequencies at the 1992 WARC. Recent contributions: Robert Wortman, VE1ACR (\$5), Tom Cunningham, VO1CA (\$25), York Region ARC (\$200) and South Pickering ARC (\$100). Please send *your* contribution to the Defence of Amateur Radio Fund to Box 56, Arva, ON N0M 1C0.

□ South of the border, the ARRL Board met on July 21-22. Among decisions of interest to Canadian amateurs, the ARRL Board, in a split decision, approved a proposal for an entry-level no-code licence in the US which would give holder 250 watts, all modes, on 220 MHz and above. The Board also approved holding a joint ARRL/CRRL Computer Networking Conference in London, Ontario, on 1990 September 22. This year's conference will be held in Colorado Springs, Colorado, on October 7.

□ British Columbia amateurs will no longer have to have Amateur Radio equipment installed in their vehicles to qualify for an Amateur Radio licence plate. BC Section Manager Ernie Savage, on behalf of CRRL, took the initiative and wrote to the BC Ministry of the Solicitor General, pointing out that BC was the only province in Canada where this was a requirement. The Solicitor General's office did a survey and concluded they were behind the times. They dropped the requirement immediately.

□ In case you hadn't noticed from the

### JRSD Fund: the Final Chapter

The Jack Ravenscroft Susceptibility (JRSD) Fund, which was legally started in 1985 as a non-profit trust to defray the legal expenses of Jack Ravenscroft, VE3SR, has come to an end.

Over \$89,000 was collected from supporters sympathetic to the technical enigma caused by radio-sensitive consumer equipment malfunctioning when located near an Amateur Radio transmitter.

The ensuing legal case sidestepped the real technical issue by being tried as a civil case under nuisance law. Existing legislation under the Radio Act precluded any intervention by a regulatory agency since much of the sensitive equipment was not covered by regulation.

VE3SR was ordered by the Court to suppress his neighbour's appliances and this was achieved to a degree satisfactory to the Department of Communications. He was also fined \$7500 for "damages of inconvenience". His neighbours were bound by the Court to cooperate in the suppression work. Finally a permanent injunction preventing VE3SR from transmitting was lifted after the above conditions were imposed by the Supreme Court of Ontario.

Ravenscroft lived to see the last appliance suppressed. However, his untimely passing ten days later was a short-lived technical victory which all amateurs will remember.

Trustees of the JRSD fund express sincere appreciation to all donors and all who so genuinely believed that a solution could be achieved. Over 1800 separate donations were received during the four-year course of the fund. —*Ralph Cameron, VE3BBM, Chairman, JRSD Fund*

### JRSD Fund: Notice

Take Notice that attached hereto is an account of the Administration of the Trust.

Take Notice that thirty (30) days after the publication of the accounts, if no notice has been received by the trustees of any objections to the above noted accounts, the accounts shall be deemed to be approved by all persons interested. Notice may be sent to the Trustees c/o Mr Ralph Cameron, 30 St Remy Dr, Nepean, ON K2J 1A3, or Hughes, Laishley, Toughy & Sigouin, Solicitors for the Trust, 116 Lisgar St, Ottawa, ON, Attention: Mr Timothy Ray.

### Accounts of Administration of the Trust

Statement of Cash Receipts and Disbursements for May 11, 1985 - July 31, 1989

	85 May 11- 86 Sept 30	86 Oct 1- 88 Sept 30	88 Oct 1- 89 July 31
<b>Cash receipts</b>			
Donations received	59065	21122	3144
Foreign exchange gain (loss)	2843	(78)	(35)
Interest earned	243	623	136
	62331	23667	3245
<b>Cash disbursements</b>			
Legal fees, audit, damages	24424	55123	8907
Office supplies, expenses	189	251	0
Bank service charges	71	193	85
	24684	55567	8992
<b>Excess cash receipts over cash disbursements</b>	37647	(31900)	(5747)
<b>Opening balance</b>	0	37647	5747
<b>Closing balance</b>	37647	5747	0

Made pursuant to a Trust Agreement dated the 2nd day of April, 1987, between Ralph Cameron, Bruce Lauer, Richard Van Gestel and others as the Settlers, and Ralph Cameron, Bruce Lauer and Richard Van Gestel as Trustees. Dated at Ottawa this 10th day of July, 1989. —(signed) *Ralph Cameron, Trustee*

ads, Kenwood Electronics Canada, Inc., of Mississauga, Ontario, is now Canadian importer for Kenwood's full line of Amateur Radio equipment. Lloyd Le Blanc is National Sales Rep and Hilry Cobeng is Customer Rep. Both can be reached at 959 Gana Ct, Mississauga, ON L4T 4C2, Tel (416) 670-7221, fax: (416) 670-7248.

□ Moving? All copies of *QST* for Canadian addresses and all copies of *QST*

Canada are processed at CRRL Headquarters. If you are moving, please send your change of address notices to CRRL, Box 7009, Station E, London, ON N5Y 4J9. We appreciate eight weeks' notice if possible. Please quote either your call sign or the seven-digit number from your mailing label. Thanks for helping us give you more effective service. —*Ray Staines, VE3ZI, General Manager* ■

## The CRRL Field Organization Forum

## REPORTS FOR JUNE 1989

**Alberta:** SM/STM/DEC: Bill Gillespie, VE6ABC; ASM: VE6AMM; SEC/TC: VE6AFO; OO: VE6TY. The Central Alberta Radio League (CARL) Picnic at Blackfalds was a great success and the weather cooperated nicely as well. Band conditions continue to bother local nets and problems have been experienced in passing formal traffic. Coming up this month; the Glacier-Waterton Hamfest, being hosted by the Canadians but being held at Three Forks Campground in Montana on July 14-16. Many amateurs getting ready to attend the Saskatchewan Hamfest in Regina next month as well as the CRRL Convention in Winnipeg on August 18-20.

**Manitoba:** SM: Jack Adams, VE4JA; ASM:VE4IX; SEC: VE4TM; ATC: VE4ADP; NMS: VE4LB, VE4IX, VE4TE. Field Day 1989 is now history. Weather was good except for in the wee hours of the morning without any heat except off the finals of the old FT101ZD. Thanks to Stu, VE4STU, for all his work in organizing and gathering up equipment for Field Day. As anyone who has taken on this job knows, it is trying, especially when things don't just go as they are supposed to. In last month's report, I mentioned that Keith Beach and Patti Tichon had passed their Amateur Radio exams but had not received their calls. They are now VE4KK and VE4PAT. Congratulations to you both. Packet, packet, packet! Many amateurs across Canada are becoming more involved in packet radio. Real nice to be able to work Saskatoon via VE5ABO or VE4PD @ VE5ABO. Terry, VE4VR, tells me that if things go right and the Manitoba Digital Emergency Communications Group (MDECG) is able to get a node up on the NEP site, we in the west should have packet links into Ontario and the US. Sounds good, Terry! Did note that Bill, W0CM, connected into VE5ABO. Nice haul, Bill. My compliments to Rick, VE5RF, and Glen, VE5AGJ, on the work they have done on the Ituna (SK) packet site. Now to get the voice repeater going too! There will be no Manitoba Section report next month as yours truly will be on holidays. Watch for reports in subsequent issues of *QST Canada* and have a great summer.

**Maritimes-Newfoundland:** SM: Carl Anderson, VE1UU; ASM: Ned Mulrooney, VO1MN; STM: Mel Lever, VE1VX; BM: Brent Taylor, VE1APG. Formal messages were received by the Section Manager from Field Day operations mounted by the Truro (NS) ARC and CFB Gagetown (NB) ARC. Other Field Day operations were staged by clubs in Moncton, Fredericton, Charlottetown, Amherst, Lunenburg and Halifax. Please note my change of call sign: VE1UU (formerly VE1BQO). By the time this is printed I will have returned from a road trip using HF mobile through all VE and VY call districts. As I write this, I'm looking forward to departure on July 1, and to meeting many Canadian Amateur Radio operators along the way. 73.

**Ontario:** SM: Larry Thivierge, VE3GT; STM: VE3CYR; SEC: VE3GV; BM: VE3GSA; TC: VE3EGO. Amateurs, particularly those in the Ottawa-Hull area, were saddened to learn of the passing of Arri Pech, VE2SD—VE2 Sugar Dog. Arri, first licensed in Toronto as VE3LF in 1936, was active on the Quebec Radio Net, Ontario Phone Net, Kingsmere Traffic Net, Champlain Repeater Association and a number of CW nets. He enjoyed many 160-metre contests from his cottage at Johnson Lake under his own call and the call VE2OJ. He had been retired from the National Research Council for several years and many feel his passing marks the end of an era. The Toronto FM Communications Society will be taking delivery of the new 220-MHz repeater which will be an Icom ICRP-2210. The Society also announced a new photographic net conducted by VE3DOP and VE3PXS who have both worked in photography professionally. The net will be held on Mondays at 2030 EST/EDT on VE3RPT. Thanks to the efforts of Windsor ARC's course instructors, VE3APR and VE3LFM, the following are new amateurs in the Windsor area: VE3CBH, VE3HVT, VE3JYM, VE3LRF, VE3PUR, VE3RFO, VE3RIN, VE3RKY.

**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.

**VE3RMP, VE3TEK, VE3TRW, VE3VIK, VE3WCN, VE3WEJ and VE3YDL.** South Pickering ARC's course graduated VE3HAZ, VE3YLL, VE3RDU, VE3REA, VE3REN, VE3REP, VE3REQ, VE3RES, VE3RFF, VE3SCO and VE3SLU. I acknowledge with thanks Field Day messages received from the following: Rideau ARC, Nortown ARC, Hamilton ARC, RCMP ARC, Cloverdale's Commandos, Ottawa Valley Mobile RC, Ottawa ARC, Kitchener-Waterloo ARC, Niagara Peninsula ARC, South Pickering ARC, Almonte Radio Relay League, Oakville ARC and Brantford ARC. The latter three were sent via packet. What happened to the rest of the participating clubs? VE3OSQ is a new OBS and will share duties with VE3PPE on the Capital City Net. VE3GKB has left for VE7-land.

**Quebec:** SM: Harold Moreau, VE2BP; STM: VE2EDO; SEC: VE2LYC; BM: VE2ALE. New calls were heard from our Section on Field Day. Maybe the nice weather had something to do with the good turnout. Félicitations à John, W3 HMS, pour son article dans la dernière revue de RAQI. Le club VE2 CAM (Ste-Hyacinthe) a été très actif au Field Day, et sont faire les préparatifs pour donner des cours de radio amateurs au mois de septembre.

**Saskatchewan:** SM: Bruce Rattray, VE5RC. Congratulations to Harold, VE5HG, after successfully undergoing surgery for a brain tumour at Plaines Hospital in Regina. "Fine business, Harold!" Welcome to new amateurs Dan, VE5YLS, Ina, VE5IKH, and Bill, VE5IC, all of Regina. Also nice to meet Greg, VE7FXG/5 who hangs his hat at Regina General Hospital these days. Saskatoon amateurs will be taking part in the Saskatchewan Summer Games beginning on August 14. If you wish to help, see Syl, VE5YK, or Percy, VE5RP. Once again, a few VE5s made the trip to the Glacier-Waterton Hamfest held in Montana on the weekend of July 15. A great time was had by all. Another Field Day has come and gone. Approximately 32 people came out with Regina ARA to score approximately 3300 points. Food was fantastic as always. Packet fans! VE5ARG repeater is going packet sometime in July. Don't miss the Saskatchewan Provincial Hamfest in Regina, August 11-13. Definitely a good time coming. See Bill, VE5EE, for info and get your left foot tuned for the QLF contest. Following weekend, August 18-20, the CRRL National Convention in Winnipeg. See Ed, VE4YU for details. It promised to be one of the highlights of the summer. Hope everyone's having a great one! 73. ■

## CQ QST Calls

Ten years ago, the CRRL decided to obtain call signs with QST prefixes for every call area in Canada. These distinctive calls would be used to identify the source of a bulletin being read on the air as a communication from CRRL.

Times have changed. The calls created interest in the amateur community around the world and the Worked QST Award was born.

To make the award more readily available, all QST stations have agreed to operate on the air on a regular basis and to participate in a semi-annual QST QSO Party. All QST stations are now on the air en masse on phone in the third week of April and on CW in the fourth. Similar operation occurs on the first and second weeks of November. For complete information on any QST QSO Party operation, check the "Calendar" column in *QST Canada* and the "Contest Corral" column in *QST* in the appropriate months.

Trustees of the QST callsigns are as follows:

VO1QST - Roly Peddle, VO1BD	VE5QST - Gordon Kosmenko, VE5GF
VO2QST - Ben Keane, VO2CZ	VE6QST - Bill Gillespie, VE6ABC
VE1QST - Brent Taylor, VE1APG	VE7QST - David Fancey, VE7EWI
VE2QST - Harold Moreau, VE2BP	VE8QST - Terry Keim, VE8TF
VE3QST - Dick Reiber, VE3IBV	VE0QST - n/a
VE4QST - Malcom Timlick, VE4MG	VY1QST - Bill Champagne, VY1AU

CRRL also plans to activate the call VE2BE which belonged to Alex Reid, ARRL Canadian Director 1930-1965. —Dick Reiber, VE3IBV, CRRL QST Call Manager ■

## A WARC IS COMING...

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The new TH-75A Dual Band HT from Kenwood is here now! Many of the award-winning features in our dual band mobile transceivers are designed into one hand-held package.

- **Dual Watch** function allows you to monitor both bands at the same time.
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• **Supplied accessories:** Dual band rubber-flex antenna, PB-6 battery pack, wall charger, belt hook, wrist strap, water resistant dust caps.

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- **PB-5** 7.2 V, 200 mAh NiCd pack for 1.5 W output
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- **PB-7** 7.2 V, 1100 mAh NiCd pack
- **PB-8** 12 V, 600 mAh NiCd for 5 W output
- **PB-9** 7.2 V, 600 mAh NiCd with built-in charger
- **BC-10** Compact charger
- **BC-11** Rapid charger

- **BT-6** 6-cell AA battery case
- **DC-1/PG-2V** DC adapter
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- **SMC-30/31** Speaker mics.
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August 4, 1989

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FROM: KENWOOD ELECTRONICS CANADA INC.

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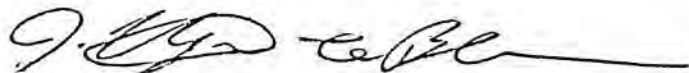
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J. Lloyd Le Blanc  
National Sales and Marketing Manager  
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## The 70-cm Band Plan

Here's another sampling of what band planning is all about. Trying to balance the needs of all users while leaving space for experimentation can be difficult indeed. I'm concerned that there seem to be many individuals in this country who do not consider experimentation a part of Amateur Radio any more, and who feel that every single hertz of the spectrum should be assigned to something. I believe this is a harmful approach that could slow the development of new technology and eventually kill the experimental spirit still alive within the Amateur Service.

A serious case in point is the allocation of FM repeater channels and ATV in the 70-cm or 430-450-MHz band. In the US, problems have cropped up and solutions are being sought. Some say that ATV could move to 434 MHz. However this would create problems for operations at 432 and 436 MHz, within the SSB and satellite sub-bands where super-sensitive receivers could easily be QRMed by both the upper and vestigial sideband energy of ATV signals. A better solution would be to maintain operations at 439 MHz but use horizontal antennas to isolate ATV from FM carriers and ask repeater coordinators not to allocate channels between 442 and 443 MHz in urban areas. Repeater coordinators and ATV operators would try to communicate to ensure that no one rode rough shod over another. That would mean meeting and discussing needs within a framework of tolerance. It would also force repeater coordinators to consider repeater allocations in a broader context than they do now. Another alternative would be to disallow ATV operation below 902 MHz.

Fortunately, here in Canada, we have

### Canadian Radio Relay League Band Plan: 430-450 MHz

STATUS: AMATEUR SECONDARY

MHz		UTILIZATION
430-431.25		DIGITAL MODES
430.05-431.25	WW	HIGH DATA RATE DIGITAL, ≥ 4800 B (1)
431.25-432.75		WEAK SIGNAL/ NARROW BAND AM
432.0		MOONBOUNCE (INTERNATIONAL)
432.1		SSB/CW WEAK SIGNAL CALLING FREQUENCY
432.2		SSB CALLING FREQUENCY (LOCAL)
432.3-432.4		PROPAGATION BEACONS
432.4-432.75		MIXED MODE EXPERIMENTATION
433-434	WW	DIGITAL EXCLUSIVE (≥ 4800 B)
434-434.5	PP	DIGITAL EXCLUSIVE (≤ 2400 B)
434.5-434.8		REPEATER LINKS AND AUXILIARIES
435-438		SATELLITE (INTERNATIONAL)
438-444		NATIONAL AMATEUR FAST SCAN TV (FSTV)
439.25		FSTV VIDEO CARRIER FREQUENCY
442-445		REPEATER OUTPUTS (2)
445-447	PP	FIXED REPEATER LINKS, SIMPLEX
446.0		NATIONAL FM CALLING FREQUENCY
447-450		REPEATER INPUTS

Footnotes:

- (1) 100-kHz channelling, 430.05 through 430.95 inclusive, and cross linked to 220.55-220.95 and 1299.05-1299.95 MHz as required.
- (2) See table of standard repeater pairs.

Packet users are requested to send comments regarding 430-450 MHz subband allocations to the CRRL VHF-UHF Advisory Committee. Band plans for other VHF-UHF bands are available. Send an SASE to VE3DSS or ask for a download on packet, VE3DSS @ VE3NUU.

not experienced many problems. However problems should be anticipated, and the sooner we start talking about them, the better. After all, despite our varied interests, we are still radio amateurs. I would be interested in hearing your opinions on these issues.

The 70 cm band does sit at an interesting point in the RF spectrum. It was a prime radar band during the war years and after, and we are lucky to have been able to convince our governments and WARC's past that we deserved access. It

is unfortunate that, a number of years ago, we lost 10 MHz of that access, almost without a whimper. CRRL, however, will continue to ensure to the best of its ability that, at any future WARC's, we have continued access to the remaining 20 MHz. In fact, CRRL, via its Spectrum 30-890 MHz submission, has asked DOC to upgrade our 430-450-MHz status to CO-PRIMARY. This would bring us into line with IARU Region 1 (Europe and Africa), except that our band would continue 20 MHz wide versus 10 MHz there. ■

### 50 MHz

May 22 brought Es into the Toronto area from W0 land, and at 1613 UTC, VE3AAY and VE3BQN worked VO1HL. May 31, Bernie, VE3AOU, called to say he was working on 6-metre capability. He had a TS-680 and needed an antenna. Despite this, he was hearing a beacon station from W5, and the band was open on Es to the Kansas and Oklahoma areas. Bernie worked his first DX contact just a few days later. Congratulations, Bernie, and welcome to the band!

Out in Saskatchewan, Doug, VE5UF, worked some good DX, thanks to those who went out on grid DXpeditions. On Friday, June 9, prior to the ARRL June VHF QSO Party, Doug's DX included W6JKV/VE8 (DP22) at 0317 UTC, K7CW (DN16), VE3JAR/3 (EO40—his signal was pinning Doug's S-meter), VE1APG (FN66—Doug's first VE1 since 1981), K1TOL (FN53), VE3KKL (FN25), VE3CTT (FN07), VE3CRD (EN58), and KL7NO (BP54). Doug further notes that many

Great Lakes-area stations were heard in Saskatoon via Es and aurora until 0600 UTC. The aurora was still going strong on Saturday morning, June 10, with W6JKV very loud between 1200 and 1700 UTC. Then band faded away in time for the start of the contest at 1800 UTC!

In the contest, in spite of few significant band openings, Doug still managed to make 185 contacts in 113 grids. Doug recently got his new homebrew 6-element quad on a 22-foot boom at the 40-foot level, and it does seem to work well for him. In fact, he worked Canadian amateur stations in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec, New Brunswick, and the Northwest Territories (we'll make an exception for Jim, W6JKV/VE8, eh?)—all on 50 MHz! Incidentally, Jim managed 130 QSOs from VE8 on the contest weekend. Now if we could just get some permanent activity up there, we would have the whole country six-metre QRV for the fall F2 season!

For the contest, Vic, VE3JAR of Atikokan, activated grid EO40 near Savant Lake, Ontario,

and made over 100 QSOs on the Friday night prior to the fray and 93 during the contest. Vic reported a fantastic auroral display on Sunday morning, and he heard much DX including 6Y5, EA8, and Africa! Keep up the good work, Vic!

In further reports from Saskatchewan, Doug, VE5UF, found that six opened on Es from Saskatoon on June 20 for the first time in weeks. Ross, VE5LY, continues to be plagued by power line noise in Regina, and so far has found Saskatchewan Power and DOC uncooperative in resolving what should be a straightforward technical problem. Does anyone know of ways to get these organizations to listen and respond to these kinds of problems?

Things were pretty quiet on 50 MHz until the July 1 weekend. That was when Mother Nature decided it was time for some of the most incredible sporadic E openings I have ever witnessed. Don, VE2DFO (FN25), worked dozens of stations in Europe including some new calls in Portugal. He reported reception of the ZB2VHF (Gibraltar, 50.35 MHz), OX3VHF

(50,045 MHz) and CT0WW (50.030 MHz) beacons, all at the same time on June 30. Don also heard what may have been the SV1SIX beacon on 50.040 MHz. VE1APA, VE1MR, VE2DLS, VE2FUT, VE3EVW, VE3SST, VE4UD and stations in EN99 and EN86 were heard working oodles of DX. VE3ASO (FN25) even contacted Martinique (FM25)—a new country.

Openings continued all week to the south, west, northwest and east, from the Toronto area. Some of the more interesting DX worked by VE3DSS included WP4G (FK58), W7ZRC (Idaho, state 49 for WAS), ZF1DC on July 7, HI8W on July 8, CR8LN (QSL via CT1LN) and CT4KQ on July 9. Peter, VE3EMS (FN02), picked up CR8LN and CT4KQ as well, and further reported that EA8/G3JVL was hearing me. Unfortunately, I could not pull him out of the noise. Another new country missed! Other stations heard included 9Y4VU, CO2KK and KP4FKB. VE3KRP in Thunder Bay was heard working WP4G. How about some activity reports, hi?

During the July 9 sporadic E session, VE1s were heard working KL7IYK, and VE4s into W4 land. Look out this fall, everyone. Keep that feedline dry! Six metres is going to be the place to work real DX—like Gus, HC5K (see the photo on the right). Never mind that HF stuff. If you miss this winter's six-metre season, you may never see the likes of it again!

#### 144 MHz

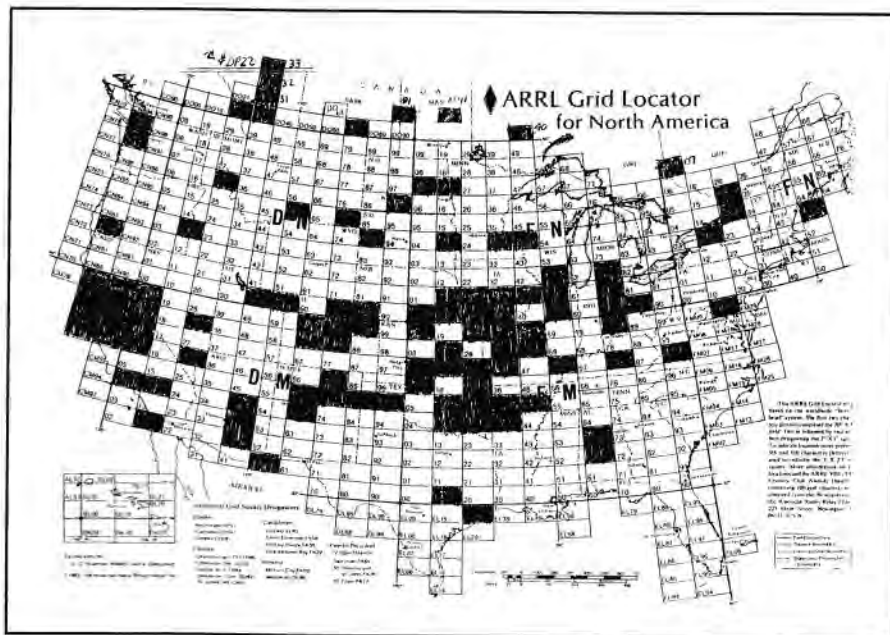
On May 31, Ray, VE3FN (FN25), found the MUF to the gulf states sitting at 108 MHz. Calls on 144.2 MHz were inconclusive, with a W4 heard briefly. Doug, VE5UF, mentioned a 2-metre Es opening from Oklahoma and Kansas into the Seattle area, on or about June 14. Neil, VE3SST, part of the VE3YRA/MM DXpeditionary Force, floated around on Lake Simcoe during the contest. The effort paid off with lots of contacts on 50, 144 and 432 MHz—and probably the marine mobile plaque from ARRL!

From Quebec, VE2BLX (FN35) sent a contest report showing good activity on 144 MHz, including VE2IBM (FN35), VE2FOT (FN25), VE2FUT (FN25), VE2DFO (FN25), VE2OSC (FN25), VE2NI (FN35), VE2ARM (FN35), VE2HMB (FN35), and VE2ERJ (FN35).

The week of July 4-9 brought the most extensive display of 144-MHz sporadic E that I have experienced in 19 years of operating. Not only were the openings of a duration unheard of, but the number of stations worked by Canadian VHFers and the distances covered were phenomenal. Many stations chalked up new provinces, states and grids.

A call from Ray, VE3FN, advising that the MUF was at 144 MHz, brought VE3DSS, VE3FAC, VE3WCB, VE3OZB, VE3EMS, VE3DIR and others onto the air and the 20-over-9 pileups started. By the time the band closed an hour later, these as well as VE3SMA, VE3FGU, VE2DFO, VE3ASO and VE3FN had picked up a pot full of stations in South Carolina, Georgia, and Central Florida. Clarke, VE3WCB, listed the following: W4AMJ (EL86), K4RAW (EL97), WD4AHZ (EL87), K4QXX (EL87), K4PBP (EL87), and W5HUQ (EM90). VE3FAC worked 13 stations picking up three new states and seven new grids, and VE3DSS contacted AB4CQ (EL98), WD4AFY (EM92), K4SM (EL98), WD4AHZ (EL87), K3KTY (EL87) and K4QXX (EL87), all with just ten watts and a 14-element yagi. Don, VE2DFO, reported working stations in Georgia, Alabama, and Florida.

July 7 brought DX to Tony, VE3DIR, who worked WB4MJE (EL94) in the Florida Keys! A bit farther, and a 144-MHz contact with CO2KK in Cuba would have been a reality. Incidentally, the Florida stations were working sporadic E into Wyoming and South Dakota, as well as Nova Scotia, Maine, Ontario and Quebec. July 8 brought more DX as the Ontario



The band was open: grid squares worked on 50 MHz, VE5UF, June 1989 VHF QSO Party.

gang worked more stations in Florida, including WB4MJE (EL94), AB4CQ (EL98) and WA4GHK (EL97). On July 11 at 1230 UTC, VE3EMS (FN02) found the band alive with 20-over-9 tropo signals from the Milwaukee, Wisconsin, area. Stations worked included W2UHI (EN62), W9CCZ (EN53), K9VGE and W8GGN. The tropo lasted for about three hours and Peter described it as a real treat.

#### 220 MHz

Aurora contacts abounded on 220 MHz during the June ARRL QSO Party. VE3DSS found superb aurora conditions on 144 MHz during the early part of the contest, and after working N1IW (alias VE3BFM), QSYed to 220 and worked him there as well. After a successful 59A CW contact, VE3DSS worked 25 other stations via aurora including K4LHB (FM18), VE3ASO (FN25), WA8VPD (EN82), and N0CIH (EN44). Signals died out at 2145 UTC.

#### 903 MHz AND UP

Dennis, VE3ASO (FN25), now has a quad array of super-loopers on 903, 1296 and 2304 MHz. Look for his strong tropo signals on most evenings. Call him on landline or on 144 MHz to set up nightly skeds on these higher, more vulnerable bands. Incidentally, Dennis is planning to erect a 28-foot dish at his QTH. He should be on moonbounce soon.

Just recently, Dennis packed his 10-GHz tellurometer and scrambled up Whiteface Mountain, NY. From the top, some 4500 feet above sea level, he worked Ralph VE3BBM in Cornwall, Ontario, a distance of about 100 miles. Ray, VE3FN, was at Camp Fortune with his unit, but could not get a clear shot at Dennis. Congratulations to all, and let's see what other DX can be worked at 3 cm.

#### CONTEST NOTES

☐ The following entered the highest Canadian scores in the June ARRL VHF QSO Party and won trophies: VE5UF (50 MHz), VE3AOG (144 MHz-QRP), VE3EMS (144 MHz), VE3DSS (220 MHz), VE3EMS (432 MHz), VE3DIR (1296 MHz), and VE5UF (overall). Thanks to Bob, VE3WY, Richard, VE3FAC, and Sinclair Radio Labs for continued support.

☐ After the September contest, remember to send a copy of your log directly to ARRL and a second copy to VE3DSS so you will be eligible for the Canadian trophies. Also, don't forget the

barbecue at Richard, VE3FAC's place after the contest. Dick, VE3CIE, will be the presenting a talk on "Auroral Propagation" at this meeting. Details will be mailed to everyone on my list. If you are not on this list, please drop me a note. We should mention that the June meeting was a roaring success. It was a special pleasure to have Doug, VE5UF from Saskatoon, Paul, VE3FIB/NO0T from Raleigh, and Earl, VE3EB from Huntsville, in attendance.

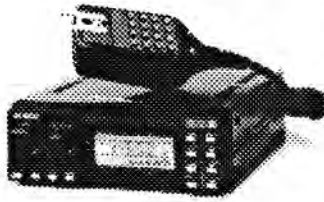
#### WIND PROFILER UPDATE

I recently spoke to the folks at Atmospheric Environment Services (AES), and was advised that nothing was being done to implement the wind profiler program. Apparently, key people who were pushing the program have retired and the program has been put on the back burner. Also, I suspect, there are pressures from outside of Canada, from those who, at the next WARC, will be seeking an exclusive allocation for wind profilers around 500 MHz. Let's wait and see.



Here's Ted, HC5K, of 50-MHz fame at this year's Dayton Hamvention. Ted has already worked many Canadian stations on 50 MHz during Cycle 22. (VE3DSS photo)

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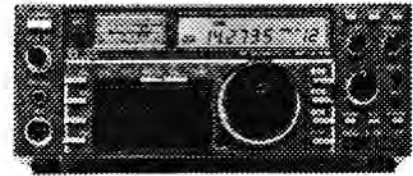


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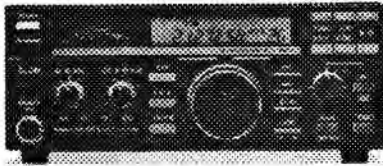


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Direct digital synthesizer resulting in 105db dynamic-range.  
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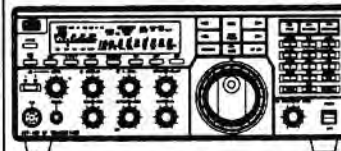


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# Fred Howe, VE3UJ

An old-timer whose life spanned the development of radio.

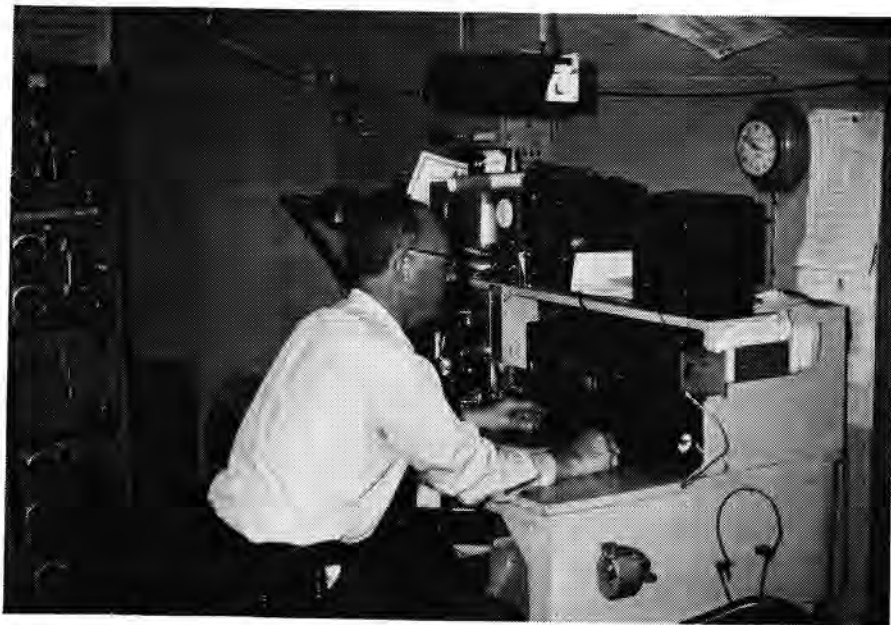
By W L "Bill" Skidmore, VE3AUI  
R R 1, The Anchorage  
Hyde Park, ON N0M 1Z0

On September 9 of last year, Fred Howe, VE3UJ, passed away. He was in his 84th year. Fred was one of Canada's real old timers. He had a long and fruitful association with the radio art and he stuck with it so constantly that his span of years covers the history of radio—particularly Amateur Radio—from its earliest days.

Fred was born in Meaford, Ontario, 31 years after Marconi was born in Italy. Marconi had spanned the Atlantic with his Morse code "S" in 1901, only four years before Fred's birth. It was with equipment very much of the same vintage that Marconi had used that Fred started in radio. Fred wrote, "I first became interested in radio in 1917 with a home-built Tesla coil. A few weeks after the armistice in 1918, I fell heir to a large box of pre-war wireless gear and proceeded to get on the air...." When Fred started, the Armstrong regenerative circuit using audion tubes had been known and used in receivers for five years, but the possibility of transmitters with tubes, using the same feedback principle, was still in the laboratory stage. Fred's active ham life, then, predates the use of CW by several years, and the complete disappearance of spark by many more.

It is worth noting the early development of Fred's equipment because it so closely mirrored the development of radio itself. Fred began with a spark coil. The receiver was a loose coupler with a chemical detector. In other words, the receiver had two tuned circuits and no amplification of any kind. But he soon improved his transmitting ability with a one-inch spark coil and then a half-kilowatt rotary spark set. Based on information collected by ARRL and reported in *Two Hundred Meters and Down*, it is a good guess that Fred's earliest transmitter had a range of about twenty miles, and his rotary spark station a range of two to three hundred miles, under optimum conditions. His receivers would have received the highest power military and commercial stations five to six hundred miles away but amateur stations no farther away than he could transmit.

However, Fred improved his receiver as well as his transmitter. In the earliest days of radio, availability of parts was a problem. Even if you could afford an



VE3UJ, in his "radio room" at "The Anchorage" near Hyde Park, Ontario, in the early 1950s.

audion, they were not readily available. Fred imported some tubes from France with which to experiment and he had built a receiver with a triode detector by 1919.

As other stations improved their receivers, the range of Amateur Radio communications increased dramatically. It was not so much that the DX possibilities of spark were limited, but the early detectors were extremely inefficient. By 1920, Fred was working a few hundred miles on good nights, and in 1922, *QST* reported that his station had been heard in all US call districts. It was also in 1922 that Fred put his first tube transmitter on the air. It used some of the very first transmitting tubes produced, the 202 and 203.

As a boy, Fred and his family had come to London, Ontario. Although he lived in other places, London would always remain home to him. In 1924, at age 19, Fred was becoming quite the man of radio. He passed his First Class Commercial Wireless Operator exam and became a ship's "sparks". This mix of radio and the sea marked Fred more than he knew, for his career later found him at sea in the Arctic, and as an overseer in the construction of battleships during World War 2.

Around the time of obtaining his com-

mercial ticket, Fred assisted with the construction of CJGC in London. This was the first local broadcast station in the area and would later develop into CFPL. He also set up business in London, selling radios and constructing custom-built equipment. This was in the time when radio equipment was often home built and installed to the specifications of the customer, much in the same spirit as coach-built cars of the time. One of Fred's most interesting jobs was the installation of a set and an antenna for the Lombardo family so family members remaining at home could hear the boys play on the Cleveland and Chicago radio stations in the earliest days of the Guy Lombardo band.

In 1928, still unmarried and full of adventure, Fred joined the Department of Transport to install direction finding equipment along Canada's east coast. This work took him to sea again, as far north as southern Baffin Island. In 1929 Fred joined Canadian Marconi, working in Montreal and Drummondville. Fred was in the right place at the right time, because it was in those days that Marconi was developing its high-power transatlantic stations in Quebec, with their Ascension Island relays, acres of rhombic antennas, multi-channel duplex phone and

the earliest single sideband transmission and reception.

In 1932, Fred married. His children were born in Drummondville. It looked as if Fred might have settled down, but, as for so many in those years, World War 2 intervened. Fred joined the antisubmarine branch and became lieutenant-commander, later becoming involved with engineering work on the Tribal Class destroyers being built in Halifax.

A conversation with Fred concerning those years has remained vivid in my memory. He was telling me how he had been working on problems like orienting an antenna on a pitching and rolling ship, fire control, operating machines at remote distances and so on. Now Fred's house, which later became my house, has a very long porch, over forty feet long and twelve feet wide. Fred thought he might still have some of his old drawings laying around from Halifax days. He disappeared into one of his glorious attics and emerged a few minutes later with what I thought was a rolled map, but with the dimensions of a rug. Out for the full forty feet of the porch, with more left that he couldn't unroll, came a document absolutely covered with the most complicated, and to me, unintelligible schematic diagrams I had ever seen. "See, this is it," said Fred.

Radio and the navy were Fred's first loves, but they were to give him pain for the rest of his life. From time to time, during his Halifax days, Fred went out on sea trials. During one of these trials, a piece of loose gear slipped, injuring his foot. This seemed to him the start of his rheumatoid arthritis which put him in DVA hospitals and eventually, out of the navy in 1946.

Fred returned to the outskirts of London where he could pursue both Amateur Radio and his farm implement business. He bought a seven-acre parcel of land and somehow arranged for the erection of hydro poles at eight strategic locations

around his place. These poles supported a system of switched V-beams with 320-foot legs. Notes for this installation are still extant, as are his markings on a copy of *QST* in which a similar array was described. His station equipment went through the typical development of ham gear during the late 40s and early 50s. It was never dull. When I first saw his radio room, it was much as it had been in the 50s, with a wooden rack and a separate table for controls and the receiver. The preselector, scope and speaker sat on a shelf above. The transmitter was probably capable of the legal limit of power if only locals were to be worked. Fred's Marconi experience with high power point-to-point communications was evident everywhere. The 75-metre rig used a modified command transmitter for the VFO-exciter and ended in an 833A modulated by a pair of 810s. The power supply used an ex-Ontario Hydro "pole-pig" transformer which was easily capable of delivering 4000 volts at several amps.

The 20-metre transmitter used the same power supply. It was even more interesting because it had a pair of 304TLs in the final. 304TLs were not easy to drive. A neat exciter capable of several hundred watts was built into the rack, and once again the Marconi experience came out: the 304s were *linear* amplifiers, requiring tricky adjustment of excitation, plate currents and modulation to achieve good AM phone quality. During the 50s, Fred also played with two metres, built a mobile station in his '51 Chevy, and further developed his receiving setup. In later years, he put together a modern SSB station using Drake equipment which he took with to him when he wintered in Arizona.

As you may imagine, Fred was an interesting fellow, always mixing transmitters and antennas with talk of the Arctic, his fondly remembered destroyer Micmac, dogs he had known and loved, and amusing incidents of a lifetime very

much in the spirit of Amateur Radio. Fred was a thoroughly nice man. He was kind and generous and always curious about things. Spending so much time in the southwest in later years, he delved into the lore of the Hopi, gold mines and desert vegetation. Of course, this was intended to be a short "radio biography", but be assured that Fred had various interests and a very steady centre that made him a pleasure to know and easy to respect.

*Direct quotes and some of the technical information about Fred Howe's early radio experiences are from untitled and unfinished notes that he wrote in the early 1950s. These notes were kindly furnished by Fred's daughter, Betty.* ■

## W1AW—continued from page 5

was certainly a highlight of my seventy years as a radio amateur.



Fred Hammond, VE3HC, speaks to the multitude assembled at the rededication of W1AW. His message: Don't forget those who came before. ■

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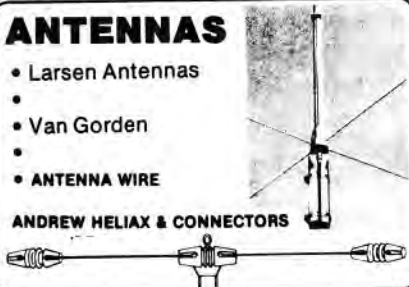
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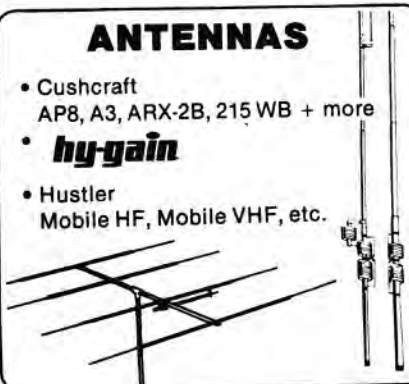
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## ARES in Ontario's Bruce County

Recently, we asked Bill Hardie, VE3EFX, EC for Bruce County, for a report on his group's activities. He replied as follows:

"Our ARES group has been active for about nine years. Fortunately, we have not had any disasters in our area, but one could happen at any time. There is a commercial airline starting daily flights in and out of Kincardine so there is always the chance of accidents happening. We have made the airport manager aware of our ability to help. We have eighteen amateurs signed up, some of whom have taken the Red Cross Level 1 Course, and most of whom have participated in our exercises.

"The largest exercises we have been involved in were a couple of Ontario Hydro simulated nuclear disasters. For these we used two metres for local communications and 80 and 40 metres to pass traffic into Toronto where stations were set up at the Ontario Provincial Police and Red Cross Headquarters.

"We also conduct a simulated emergency test each year to give our members training in message handling. In the winter we provide communications for ski races while in the summer we help with bicycle races and runs and walks for charitable organizations. We also assist with crowd and traffic control at the air shows at Kincardine Airport. Last Hallowe'en, for the first time, we helped police, and that went very well.

"We are in a snow belt, so one of our problems is poor driving conditions during winter storms. When necessary, we put weather and road conditions on the packet bulletin board in Goderich, so we can have access to weather information at various points in the area.

"I recently started a net for our ARES members on 3.737 MHz on the first Monday of each month. Not everyone can get into the repeaters in Port Elgin and Kincardine, but all can participate in the new 80-metre net. The net has been well attended, and it allows us to discuss problems, make suggestions and get questions answered. Some of our local amateurs are now checking into the Ontario Phone Net and familiarizing themselves with traffic handling procedures."

### BROCKVILLE ARES

Last June I had the pleasure of visiting the Brockville club, along with two of our AECs, and gave a talk on ARES and ARES activities in the Kingston area. The Brockville club, while small, is quite active and the hospitality extended by President John Lesperance, VE3PSG, and Past President Wilf Jobbins, VE3MNI,

was much appreciated. We enjoyed chatting after the meeting with the Prescott-Brockville EC, Clarence Angst, VE3LBU. His problems in organizing and training an effective ARES group were much the same as ours, and the exchange of ideas was mutually beneficial. Point: It pays to communicate.

### FIXED EMERGENCY ANTENNAS

What fixed locations in your area are likely to require a station in an emergency? Certainly the municipal emergency control centre is a prime candidate. What about police headquarters, Red Cross headquarters and the like? In the survey of ARES organizations across Canada, I learned that many groups had examined their local communities and had installed

fixed antennas on key buildings, ready to be put into use with handheld or other transceivers. Practically all the antennas were for two metres.

Here in Kingston, we are installing Sinclair 2-metre folded dipoles on their Kingston Township Headquarters Fire Hall, which is the township emergency control centre, and on the Red Cross headquarters building in downtown Kingston. Other buildings will be similarly equipped later. We selected Sinclair because we wanted commercial quality, an expected life span of many years needing a minimum of attention. The antenna chosen, a Sinclair Model SRL-210, has sufficient gain for most anticipated needs and is within easy reach costwise.

In each building, an area has been

## Field Organization Reports June 1989

### National Traffic System

Net (Mgr)	Sess	QNI	QTC
APN (VE1VX)	10	37	48
KTN (VE3AJN)	12	92	7
OLN (VE3POJ)	24	487	14
OPN (VE3IN)	30	513	123
QQN-1 (VE3GSQ)	24	45	15
QQN-D (VE3ORN)	28	78	7
QQN-E (VE3CYR)	25	88	75
QQN-L (VE3GSQ)	17	45	17
SATN (VE5AGM)	12	24	2

### CRRL Section Traffic Manager Reports

Call	Orig	Rcvd	Sent	Divd	Total
VE1DLC	1	9	4	3	17
VE1ALU	0	6	4	2	12
VE1ADJ	0	3	7	0	10
VE1BTV	0	4	5	0	9
VE1IH	2	2	0	0	4
VE1BKM	0	2	2	0	4
VE2BP	4	14	14	12	44
VE2WH	2	11	10	11	34
VE2EC	7	4	3	4	18
VE2ALE	0	2	4	0	6
VE3CYR	0	70	29	1	101
VE3GSQ	0	48	34	0	82
VE3DVE	8	24	34	1	64
VE3GNW	0	20	41	0	61
VE3IN	3	37	3	2	45
VE3GT	0	11	26	0	37
VE3EAM	4	10	4	9	27
VE3KCZ	1	11	3	9	24
VE3AJN	0	11	10	0	21
VE3WV	0	7	2	6	15
VE3SB	0	2	9	0	11
VE3NVJ	1	3	4	0	8
VE3BAJ	0	1	1	1	3
VE3AJN	0	4	4	0	8
VE6CHK	-	-	-	-	29
VE6GPP	-	-	-	-	18
VE6ABC	-	-	-	-	7
VE6AKY	-	-	-	-	3
VE6EO	-	-	-	-	3

### 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 570:

Reporting	ARES Members
VE3GV (VE3s EFX, GNW, ITT, JJA, KBU, LPM, MB, SV)	570

### 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

This listing is available to amateurs whose public service performance during the month indicated qualifies for 60 or more points in the following nine categories (as reported to their SM). Please note maximum points for each category: (1) Checking into CW nets, 1 point each, max 30; (2) Checking into phone/RTTY nets, 1 point each, max 30; (3) NCS CW nets, 3 points each, max 12; (4) NCS phone/RTTY nets, 3 points each, max 12; (5) Performing assigned NTS liaison, 3 points each, max 12; (6) Delivering a formal message to a third party, 1 point each, no max; (7) Handling an emergency message, 5 points each, no max; (8) Serving as an EC or NM for an entire month, 5 points max; (9) Participating in a public-service event, 5 points each, no max. 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: VE3ORN (98), VE3CYR (70)

### 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	87	3
ARES ONTARIO (VE3GV)	1	5	0
CRRL ONTARIO (VE3FOV)	30	8370	0
ARG (VE5EE)	29	738	2
MJARC (VE5MML)	28	318	0
SWX (VE5EX)	30	601	0
SPN (VE5AE)	21	266	0
AARES (VE6AMM)	4	60	0

identified and marked as the location for the ARES station. The fire hall has an excellent emergency power system and a 120-volt outlet has been provided for our operating position. Funds for the antennas are being made available by the organizations involved. They are most anxious to assist us with our emergency role. The antennas also provide visible continuing evidence of ARES and contribute to the public awareness of our ability to serve the community in times of emergency.

### EPC COURSES

In Canada, the agency responsible for coordinating the federal response to emergencies, for encouraging emergency preparedness to protect life, health and property of Canadians, is Emergency Preparedness Canada (EPC). This directorate gives or sponsors more than 100 courses, conferences and seminars a year at the Canadian Emergency Preparedness College in Arnprior, Ontario. Each year, about 3000 representatives from all levels of government and from the private sector are trained in the techniques of emergency planning and management. Most courses run for one week and topics range from emergency health and welfare services to transportation of dangerous goods. EPC pays all travel and living expenses from the time course participants leave home to the time they return.

One course of particular interest to

amateurs is on emergency communications planning. This course is structured to provide participants with an understanding of how to conduct a communications-needs analysis, how to develop a communications plan, how to conduct communications training, how to exercise a communications plan, and, finally, how to manage a municipal communications system. Thanks to several Ottawa-area amateurs who assisted in developing course content, the course includes information on ARES functions and capabilities.

EPC courses have become extremely popular, with the result that candidates must enrol several months in advance of scheduled course dates. If you wish to attend the communications course or any of the other excellent courses, contact your provincial emergency preparedness officer through your area emergency organization. If convinced of the need, that office can arrange a place for you at an upcoming course.

From past personal experience on two one-week EPC courses, I can vouch for the high quality of the instructors and facilities. Accommodations, in refurbished army H-huts, are comfortable if not deluxe. The food is great and there is even a physical exercise room to keep you in shape. And best of all, all expenses—except the bar bills—are paid by EPC! —Bob Boyd, VE3SV

It is hoped that this column, which also appears in *The Canadian Amateur*, will serve as an ongoing source of news and information about ARES activities across Canada. ARES members, particularly ECs, are invited to send information on what they are doing and developments they would like to share. Bob Boyd, VE3SV, will pull this together for future columns with the objective of increasing our ability to serve, should disaster strike.

## Silent Keys

Conducted By Ray Staines, VE3ZJ

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

VO1II, Clifford Hierlihy, Gander, NF  
 VE3AJR, Olive "Dell" Daykin, Kingsville, ON  
 VE3EWH, Bill Gibson, Oshawa, ON  
 VE6GR, Frank Nyl, Thorsby, AB  
 VE7BR1, Roy Bamham, Nanaimo, BC  
 VE7GBW, Bill Davidson, Victoria, BC  
 VE7GCX, Conrad Osgoode, Victoria, BC

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

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