

QST 

CANADA

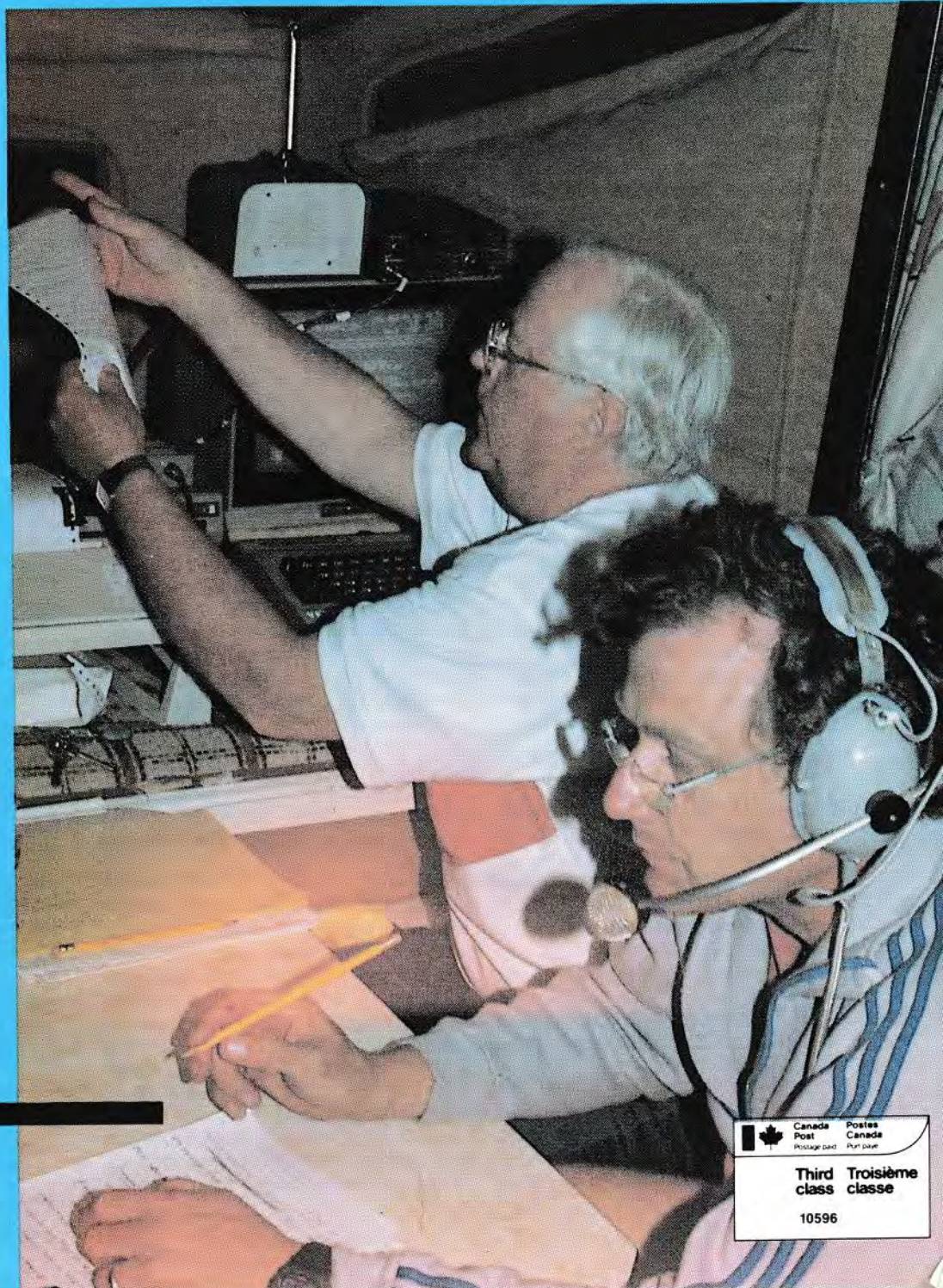
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Entièrement consacré à la radio amateur canadienne


**The
OSTA**


**DOC
Deregulation
Proposals**

**South
Pacific
Tales**

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Test Equipment for Radio Amateurs	21.25	19.00	360	1.00	<input type="checkbox"/>

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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. Second-class Mailing Permit pending.

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Subscription rates: \$27 for one year (\$50 for two years and \$72 for three years); in combination with *QST*: \$45 for one year (\$86 for two years and \$126 for three years). Discounts are available for seniors over 65. Please write for details. Copyright © 1989 by CRRL Publishing, Inc.

ABOUT THE COVER

Field Day is only three months away! How are your plans coming along? Here's Jim DiZorzi, VE3ZK (above) and Dave McCarter, VE3GSO, last year, operating packet at VE3QST. (VE3GRO photo)

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

75 Years of ARRL

Maxim, Tuska, relaying, NTS, ARES, Field Day, Sweepstakes, the Wouff Hong, QST, WIAW.... How many things in your hobby are related to ARRL? Lots probably, because ARRL has been the standard bearer of Amateur Radio for seventy-five years.

It's often said that if it hadn't been for ARRL, there'd be no Amateur Radio today. That's probably true. During the First World War, amateurs were taken off the air. In the United States, with the signing of the armistice, bills were introduced to give the Secretary of the Navy control over all radio. ARRL, then a small organization whose liquid assets had once dwindled to \$33, authorized Hiram Percy Maxim, 1AW, to attend the hearings. He did and presented a detailed and highly effective brief in opposition. Then ARRL appealed to families of radio amateurs who had served in the war. Thousands of letters of protest reached congressmen—letters from families of amateurs who were still in the service and letters from mothers whose sons had been killed. It was the most effective gesture Amateur Radio had ever taken and a powerful example of the united strength that could be brought to bear by courageous, concerted leadership. And it brought amateurs back on the air—first in the United States, and then in Canada and around the world.

Through its actions, ARRL not only preserved Amateur Radio, but also defined what an Amateur Radio organization should be—and what an Amateur Radio organization should do. The battles, of course, continue. No one knows, for instance, how 220 MHz will turn out. But the spirit of those early leaders of ARRL carries on. ARRL is fighting the present battle with determination and class, and no one will be too surprised if, one of these days, they copy WIAW and learn that, once again, ARRL has won.

Congratulations, ARRL—on seventy-five years of setting the standard.

DEREGULATION

Elsewhere in this issue, we've summarized DOC's proposal to deregulate the Amateur Service. Some amateurs will be surprised. They shouldn't be. We had reported for several years, in the *QST* Canadian NewsFronts column, that DOC had this in the works. They could also have read it in *TCA*.

At a personal level, we've gotten beyond trying to figure out if deregulation is good or bad. The reality is that it's going to happen. Now that the free trade debate is over, Canadians are rediscover-

ing the federal deficit. Everyone agrees it has to come down. That means more taxes and less spending by government departments like DOC.

DOC sees its mandate as spectrum management. In recent years, DOC has reviewed that mandate and discovered it's been carrying some regulations that contribute little if anything to spectrum management: regulations about who is allowed to operate what where in the amateur bands, regulations about CW and voice identifications after FSK transmissions, and regulations about operating Amateur Radio on board aircraft. These regulations cost money to promulgate and update. That's why, whether we like it or not, DOC is going to deregulate (or in the case of operating Amateur Radio on board aircraft, pawn the regulation off onto the right government department, hi).

Deregulation, and here we are thinking of deregulation of mode subbands, can work. It does in many countries. The key to its success is not to go wild on the bands, operating any mode anywhere, but to voluntarily comply with band plans recommended by IARU and national Amateur Radio organizations. Think about it. What keeps you from operating phone, right now, on 14.050 MHz? Would DOC really come to your door if you did it? You comply with DOC band plans because you want to maintain the friendship and respect of your fellow amateurs at home and around the world.

This is mechanism that keeps us honest now, and this is the mechanism that will keep us honest after deregulation. The only difference will be that, in the future, in Canada, the band plans will be made by amateurs, through their national organizations.

These are interesting times.

AT LEAST SHE GOT THE CONVENTION PART RIGHT

Dayton, Hamvention weekend, Bob Evans Restaurant, Sunday morning for breakfast. The restaurant was crowded and practically every customer was an amateur wearing a callsign badge or carrying a handheld. To speed things up, the restaurant had a young girl taking orders from the people in line, people who hadn't been seated yet. We were at the end of that line and when she got to us, she was, well, exasperated.

"I just don't get it," she said. "Here you guys come to a pork convention and all you do is order bacon and ham—pork, pork, pork...."

At least she got the convention part right. —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.

TOP CERTIFICATE SHOULD BE "A"

It bothers me that the new amateur classes of licence are lettered backwards from those in other countries. Almost everywhere, "A" is the highest class licence, "A" standing for *Advanced*. Our backwards system of naming licences is only going to cause confusion in international circles. —Roy Parrett, VE7TG

HAM RECORDS

I read with pleasure that VK5ON very is active with his Ontario friends. Without breaking their record, I would like to point out that between May, 1960, and October, 1970, I established 3597 phone QSOs with F9RH on 15 and 20 metres. It would have been more, but F9RH passed away in November, 1970.

Since 1969, I have been manager for DAF, the Diploma for the French Americ-

as. To be eligible, all that is needed is one QSO with FP, FG, FM, FS or FY. Cost is ten IRCs. —Alex Desmules, VE2AFC

EMI STANDARDS

DOC seems sharpening its teeth. If DOC actually enforces its digital EMI standards, outlined in TRC-77, perhaps they will also enact the next step: compel manufacturers, importers, etc to market products built to reject unintended signals, or demand that equipment carry labels that state that if the equipment receives unintended signals, the problem is with the equipment and the solution is the responsibility of the manufacturer.

We may yet see the day when a person running a clean radio transmitter will not be held guilty—all or in part—for "interference" to poorly designed equipment. —Lyle Stanway, VE3LHS

OPERATING PROCEDURES

I hope you can inform your readers about legal and proper operating procedures. I encounter many Canadians on SSB, talking to Americans below 14.15, 21.2 and 28.3 MHz. I usually mention to them that this is illegal but, as a rule, they claim ignorance of the law.

I have been hamming for 45 years and as long as I can remember, there was a gentlemen's agreement that CW stayed below 14.1, 21.15 and 28.2 MHz. Now I find Americans continually operating CW in the 14.1–14.15, 21.15–21.2 and 28.2–28.3-MHz bands. Maybe the CRRL could entice the ARRL to mention the "gentlemen's agreements" in *QST*. —Ben Velleux, VE6IH

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.

Blainville, PQ: Le Club Radio Amateur Laval-Laurentides, en collaboration avec Mesure d'Urgence de Blainville, a un encan et marché aux puces le 6 mai 1989 au 421 Blvd Labelle à Blainville. Prix d'entrée: 1\$. Prix des tables pour marché aux puces: 7\$. Guidage: 147.315 MHz+ et 145.45 MHz. Information: VE2 GDL (514) 627-5600, VE2 KAR (514) 477-9820, ou VE2 BWG (514) 430 2424. Bienvenu à tous.

Calgary, AB: Annual Spring Auction, April 8 at Golden Age Club, 610–8 Ave SE. Sponsored by Calgary Amateur Radio Association (CARA). Doors open at 0900 with auction at 1000. No admission charge but 10% commission on all items sold goes to CARA. For further information, contact Ken Oelke, VE6AFO, 7136 Temple Dr NE, Calgary, AB T1Y 4E7 Tel (403) 280-5340.

CRRL "QST" QSO Party: Phone portion: April 15–16, CW portion: April 22–23. Look for as many as eleven CRRL-sponsored Stations using the "QST" suffix between 1500 and 2200 UTC on each of the four days. Band: 80 and 20 metres—and on other bands if conditions permit. Contacts with any eight "QST" stations qualify for the *Worked All QST Award*. Send log data and business-size envelope to CRRL Awards manager, Garry Hammond, VE3XN, 5 McLaren Ave, Listowel, ON N4W 3K1.

International Marconi Day: 0000 to 2400 UTC, April 22. Sponsored by Cornwall Radio Amateur Club (CRAC) in the UK. Seven stations will be operating from Marconi sites. Look for: K1VV/IMD, Cape Cod; Massachusetts, VE1MD, Glace Bay, Nova Scotia; VO1IMD, St John's, Newfoundland; EI2IMD, southern Ireland; IY4FGM, Bologna, Italy; GB0IMD, Isle of Wight; and GB4IMD, Cornwall, England. Frequencies: 3.77–3.78, 7.07–7.08, 14.26–14.28, 21.36–21.38, 28.36–28.38, 28.76–28.78, 50.26–50.28 MHz. A special certificate is available for working any six stations. Send log data and \$US 5 or 10 IRCs to CRAC, Box 100, Truro, Cornwall, TR1 1RX England.

Spokane, WA: Inland Empire Hamfest, April 15–16, at Spokane Youth Sports Association Building, 2200 Sprague Ave. ARRL approved. Admission: \$5 for both days. Seminars, swap tables, dealers, factory reps, QCWA spring meeting, spouse program, Saturday night dinner dance, Sunday breakfast. For more information, contact Inland Empire Hamfest, West 728 Spofford Ave, Spokane, WA, 99205.

The OSTA—An Outrageously Simple Tone Alert

Need a fast way to get everyone together? That's only one use for this easy-to-build third-generation version of the London Tone Alert.

By T C "Ced" Tanner, VE3BBI
548 Upper Queens St
London, ON N6C 3T9

A good response to our earlier articles in *QST* indicates there's lots of interest in tone alerts.¹ Perhaps the reason for the small number of units in use so far is their complexity. This "bare essentials" model of the London Tone Alert should change all that. It is so outrageously simple to build, adjust and operate, I have named it the OSTA.

Uses

(1) Let's suppose you want to alert a fellow ham. He's a friend and you have a message for him. Your group usually monitors the local repeater so you grab your handheld, press the appropriate touchtone button, and a buzzer sounds—but only at your friend's place. When he answers, you QSY and have your conversation. (2) Perhaps you want to alert the members of your coffee club about a special event. Members each have an OSTA tuned to a single tone, say button seven. When you press that button, the alert sounds in every members' house—but in no others. Each member checks into the repeater and within a minute they are ready for your announcement. (3) The OSTA is a neat way to round up your ARES executives or volunteer fire fighters! (4) Instead of sounding a buzzer, the OSTA can close a relay. Just imagine what you could do with that!

How It Works

The OSTA is designed to be used with an FM transceiver. It requires only three connections: 12 volts, ground and audio. Many transceivers have these available at an auxiliary socket on the back panel. If not, they can easily be found inside.

Refer to the picture and the schematic in Fig 1. The first major component is the NE567 decoder chip. When it detects audio at the frequency for which it's been tuned, a logic low (0 volts) appears at pin 8. Note that a fixed resistor has to be selected for the tone you wish to use. More on this later. Also note that three of the capacitors associated with the decoder

chip are the tantalum type. This gives the decoder circuit stability.

When pin 8 goes low, the LED lights up, indicating the proper tone is being received. This is a big help in tuning up because it lights *only* with the correct tone. The low or negative condition at pin 8 is applied to the base of the PNP transistor through a 1N914 diode which insures that no positive charge reaches the base. When the base of a PNP transistor goes low or negative, the transistor conducts. Now there is a positive charge at the ungrounded end of the 10k resistor in the transistor's collector circuit. This is routed to the gate of the 2N5061 SCR, which turns on and allows current to flow through the buzzer to ground.

It is the nature of an SCR, once turned on, to keep conducting until the current through it is interrupted. It is the nature of a buzzer to interrupt current as it produces its sound. This little problem is solved by connecting a 100 μ f (6-working volts or more) capacitor across the buzzer. It charges and maintains the current through the SCR while contacts in the buzzer are open, and the SCR thinks—quite correctly—that all is well. The buzzer continues to sound until the reset button is pushed, completely opening the circuit.

Wiring the Board

The OSTA circuit board was designed to fit into a little plastic case available for less than an dollar at a local surplus

store.² By cutting a notch in the side of the board, there was room for a 9-volt battery which readily powers the OSTA for portable or emergency use. Etching pattern and parts placement are shown in Figs 4 and 5 respectively. All resistors are mounted on their ends. Low-voltage components are used to keep the size down. Of course the OSTA could be built up breadboard style. Nothing is critical. You are only dealing with audio frequencies.

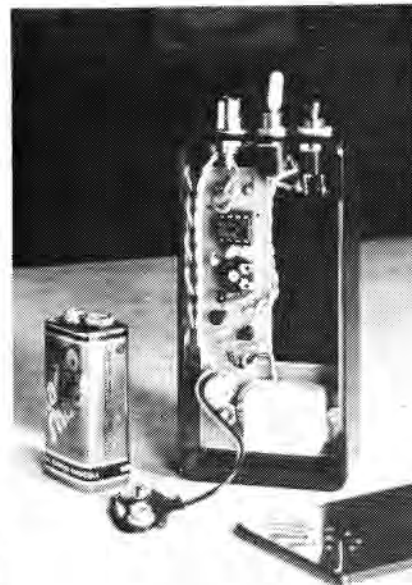
Adjustment

Each button on a touchtone pad produces two tones, but for simplicity, we use only one of them to activate the OSTA. Refer-

ring to Fig 3, we can see that eight frequencies are available (seven if your pad does not have an ABCD column). Some are common to the horizontal rows, others to the vertical columns. This means that if you pick 697 Hz as your frequency, button 1, 2 3 or A will give it to you. Similarly, if you pick 1336 Hz, you can use 2, 5, 8 or 0.

The OSTA detect-frequency is selected by changing Rx, the resistance between pins 5 and 6 of the NE567. Table 1 shows the value of

Rx needed for each tone. Let's pick 852 Hz as our tone. This can be obtained by pressing 7, 8, 9 or C. To adjust the OSTA, apply power and connect it to the speaker output of, say, your 2-metre rig. On a handheld or other 2-metre rig, press a 7, 8, 9 or C and slowly turn the 5 k Ω potentiometer until the LED lights up. It will only light up as long as the button is held



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 160m to 6m



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2 MTR

TH-315A

220 MHz

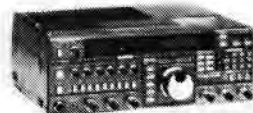
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 FT-212RH New 2m, 45w mobile
 FT-211 RH 2m, 45w FM
 FT-290R All Mode Portable
 FT-23 R/TT Mini HT

UHF
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 FT-711RH FM Mobile 35w
 FT-73 R/TT Mini HT
 FT-709RH FM HT 4w
 FT-790R MKII FM/SSB, 25w
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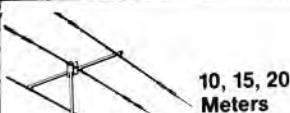
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down, so you need a fairly long burst. (The tone could also be fed from a signal generator. Then nothing would have to go on the air.) The frequency could be checked with a frequency counter connected to pin 6 of the NE567.

Comments and Modifications

All parts for the OSTA are readily available from surplus houses or Radio Shack.

Instead of a 2N5061, a 2N5060 works equally well. The NE567 likes 5-6 volts. We used a Zener diode for our voltage regulator. A 7805 might have been a better choice, but the Zener offered simplicity and small size.

Suppose you come home after an absence of a couple of hours and hear the OSTA buzzing. The OSTA is warm and it's obvious it's been buzzing for a long time. There are two things you can do about this: (1) make sure your rig is off before you leave the house, or (2) simplify your OSTA even more by leaving out six parts. The buzzer will sound only as long as the sender holds the tone button down. All you have to do is tell your friends to give you a long buzz! Mods for the revised even-more-simplified OSTA—which fits on the circuit board for the regular OSTA—are shown in Fig 3.

Conclusion

If you've never built anything before, this is an excellent first project. There's lots of "solid-state" experience in this project which uses diodes, a transistor, an integrated circuit and an SCR. With a tone alert this simple and easy-to-build, no radio amateur should be without one.

The author welcomes correspondence about this tone alert and would be particularly interested in any novel uses to which it might be put.

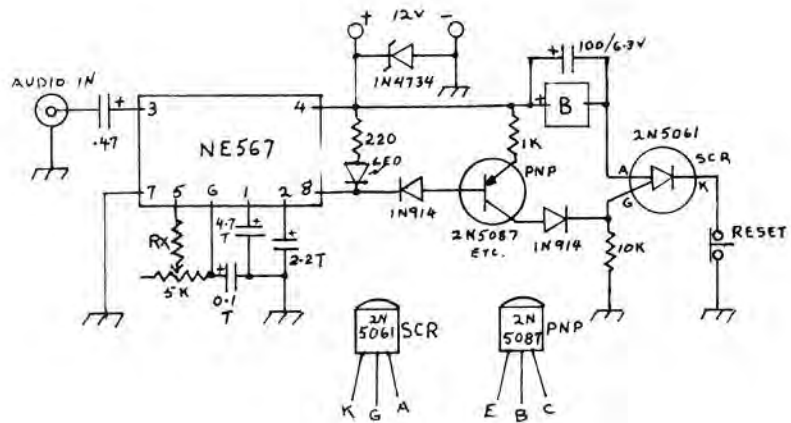
Ced Tanner, VE3BBI, was first licensed in 1945. Main interests in Amateur Radio: fast scan television (FSTV) and building—particularly power supplies and tone alerts. Other interests include woodworking, photography and music. An accomplished musician, Ced used to conduct dance bands. He now enjoys playing popular music on a rather large electronic organ in his living room. For many years, Ced was a physics teacher at Central Secondary School, London, Ontario. He is now retired. Married, Ced has two children, two grandchildren and a dog (who frequently appears in Ced's FSTV transmissions) named Sam.

Notes

¹T C Tanner, VE3BBI, "The London Tone Alert," *QST*, 1983 Nov, p 35, and "The Miniaturized, Simplified London Tone Alert," *QST*, 1987 Feb, p 30.

²The author will supply undrilled circuit boards, shipped anywhere in Canada for \$5.00 each. CRRL and *QST Canada* in no way warrant this offer. ■

VE3BBI OSTA Notebook



F ₁	F ₂	D	T	M	F	R ₁
697	1	2	3	A		15 K
770	4	5	6	B		12 K
852	7	8	9	C		10 K
941	*	0	#	D		9.7 K

FR 4A 1208/1334 1+77 1023
 RX 11.8K 156K 51A 47K

Fig 1 (above)—Schematic for the regular OSTA.

Fig 2 (left)—DTMF frequencies and values for RX.

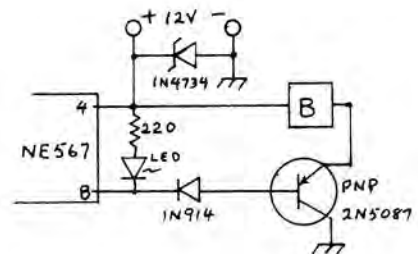
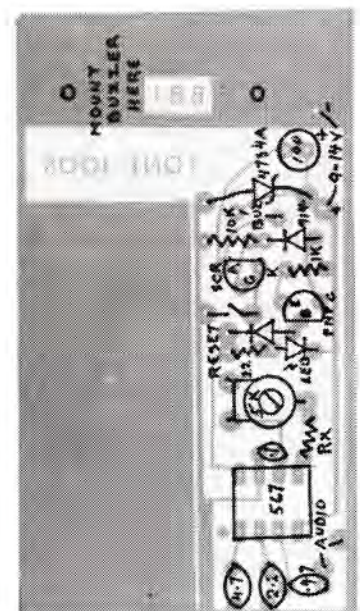
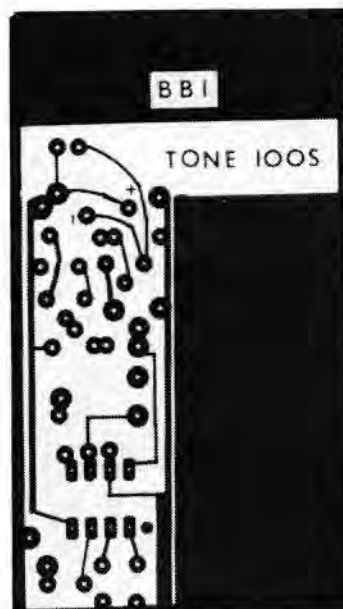


Fig 3 (right)—Mods for the even-more-simplified OSTA.

Fig 4 (below)—Full-size etching pattern for circuit board and Fig 5—Parts placement.



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DOC Proposes Deregulation

In the 1989 February 18 *Canada Gazette, Part 1*, DOC outlined its long-awaited proposals for deregulating the Canadian Amateur Service. If implemented, the deregulation (not to be confused with restructuring, which is also going ahead), will 1) eliminate restrictions on the types of emissions Canadian amateurs may use within the radio frequency bands allocated to the Canadian Amateur Service, and instead, simply specify maximum permissible bandwidths for those bands, 2) eliminate the six-month and one-year endorsements for holders of the Amateur certificate (the six-month endorsement is known by most amateurs as the "ten-metre endorsement"), 3) amend the regulations to permit foreign amateurs visiting Canada to operate with the same frequencies and emissions as Canadian amateurs, 4) revoke certain outdated restrictions on station identification (this would include voice or Morse code identification at the end of RTTY transmissions—a requirement ignored for years), and 5) leave amateur operation on board aircraft to be regulated by the Department of Transport.

The first item in the proposal is the most far-reaching. In effect, it would eliminate mode subbands from Canadian amateur bands and permit Canadian amateurs to operate any mode on any frequency within a band, limited only by the maximum bandwidth specified by DOC, privileges conferred by the operator's certificates, and voluntary compliance with band plans recommended by amateur organizations.

What reasons does DOC give for deregulation? DOC says it wants to allow Canadian amateurs to experiment with new emissions and protocols without having to grant special permission or amend existing DOC regulations. DOC says deregulation addresses the need for more phone frequencies, expressed by many Canadian amateurs after the last round of US phone band expansions. Further, it would allow Canadian amateurs to expand phone operation without having to wait



CRRL President Tom Atkins, VE3CDM, visited Radio Society of Great Britain (RSGB) Headquarters last October, during RSGB's 75th Anniversary. Left: the RSGB Headquarters building. Right: Tom (on the right) with RSGB Secretary David Evans, G3OUF. (VE3CDM photos)

for DOC, should US phone band expansion take place again. DOC noted that existing regulations do not assist them in their task of spectrum management and that they are fully confident that amateurs can best decide what frequencies are appropriate for their on-the-air activities.

Here are details of the maximum bandwidths that will be permitted—and the privileges that will be conferred by various certificates—if the proposals move ahead. Note that this information is referenced to present and not to proposed or restructured certificates: 1.8–28-MHz bands: 6 kHz; 50- and 144-MHz bands: 30 kHz; 220-MHz-band: 100 kHz; 430-, 902- and 1240-MHz bands: 6 MHz; remaining bands in the microwave region: not specified. With the elimination of endorsements, holders of the Amateur Certificate would be able to operate 1) aural or direct printing telegraphy (at press time, it was not clear if this included RTTY and packet radio) on bands below 30 MHz, 2) other modes including SSB phone on 1.8–2.0 and 28.0–29.7 Mhz, and 3) all modes above 30 MHz—subject to the bandwidth limits outlined above. Holders of the Advanced Amateur certificate would be able to operate all modes on all bands, and holders of the Digital certificate would be

able to operate all modes on bands above 30 Mhz—again, subject to the bandwidth limits outlined above.

DOC noted that the proposals have the support of CRRL and CARE. At its 1987 August Annual Meeting, the CRRL Board did note that deregulation of mode subbands is successful in many parts of the world. Still, the Board had concerns and passed the following resolution:

WHEREAS DOC appears to be committed to Deregulation of Mode Subbands, and

WHEREAS Canadian amateurs have expressed a continuing need for guidelines,

MOVED that, should Deregulation of Mode Subbands take place, DOC be requested to recommend the use of IARU bandplans in their *General Radio Regulations, Part 2*, and to publish current IARU bandplans in *RIC-25*.

At press time, copies of the proposal were available from local and district offices of DOC, and at public libraries, in the 1989 February 18 *Canada Gazette, Part 1*. DOC allowed only a short period for submitting comments: 30 days ending on March 18. CRRL planned to submit comments on behalf of its members. ■

WIND PROFILER UPDATE

The following communique on the Atmospheric Environment Service (AES) wind profiler was prepared by Paul Smith, VE3PS, and was released 1989 February 12. Paul is chairman of the Ad Hoc Committee on UHF Utilization.

The core group of the Ad Hoc Committee on UHF Utilization consists of representatives of CRRL, CARE, SAAC, the

VE3ULR Repeater Network and the Toronto FM Communications Society. Environment Canada's AES places considerable importance on its wind profiler program due to its ability to gather real-time data on wind patterns for studying violent storm conditions, particularly tornados and hurricanes. The Department of Communications (DOC) has had outstanding—since 1985—a frequency request from AES for wind profilers in

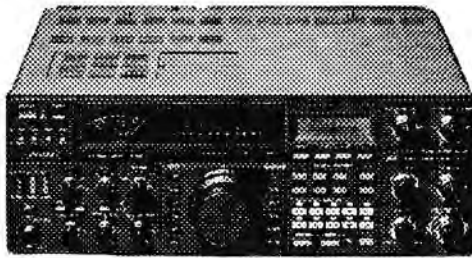
the 400–500-MHz band. DOC has just now assigned a frequency for the first profiler, to be located near Egbert, Ontario: 441.0 MHz in the 70-cm (430–450-MHz) band.

Initially, the Amateur Radio community heard of DOC's intention to assign a frequency in the 70-cm band only indirectly, close to two years ago. The Ad Hoc Committee investigated and submitted a brief opposing the assignment,

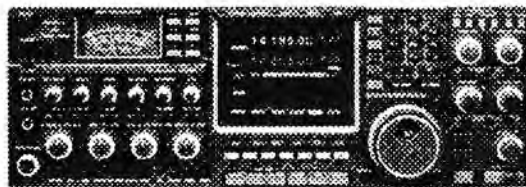
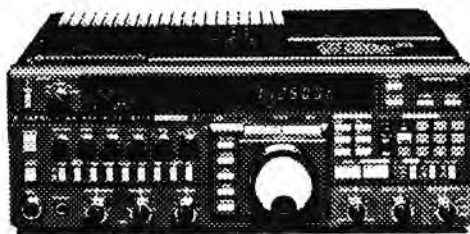
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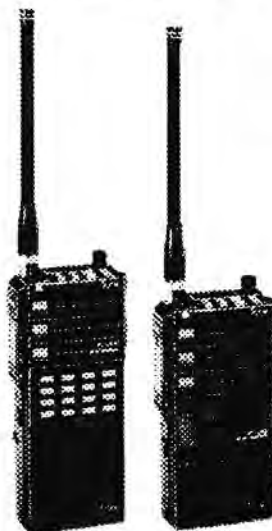


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proposing the use of 404.37 Mhz instead.

After long technical investigation and negotiation with DOC, the committee's last report, submitted in September, 1988, continued to endorse use of 404.37 MHz. That endorsement was based on all facts available at the time. In the report, the committee noted that if the data in DOC's report, *RP-135*, was valid, there was potential for interference to the SARSAT search and rescue satellites operating near 404.37 Mhz.

DOC contacted AES during its review of the Ad Hoc Committee's report and a meeting was convened in November. In attendance: DOC, the core group from the committee, and a representative of the Southern Ontario Western New York Repeater Council. DOC confirmed that its data was correct. AES intended to use its wind profilers for research rather than for simple weather forecasting as in the United States. This would require greater power and narrower pulse widths than used in the United States. The resulting greater bandwidth would move interference to SARSAT from the realm of "potential" to that of "real". With this knowledge and a concern for the security of the SARSAT program, the Ad Hoc Committee could no longer endorse a frequency assignment at 404.37 MHz.

During the lengthy negotiations, the Ad Hoc Committee examined all possible alternatives, but was unable to find an acceptable 400-500-MHz frequency outside the 70-cm band. Under International Telecommunications Union (ITU) rules, the 70-cm 430-450 Mhz is RADIOALLOCATION primary with AMATEUR only secondary.

Earlier, after extensive technical investigations that involved the entire Ad Hoc Committee, and after consultation with several special-interest groups, the Ad Hoc Committee concluded that an assignment at 441.0 Mhz would be least disruptive to amateur activity in the 70-cm band. DOC concurred and assigned the profiler to 441.0 MHz.

At the end of the meeting, AES reaffirmed its willingness to cooperate with the Amateur Radio community to minimize possible interference by aligning the profiler's antenna in a favourable direction, building berms and the like. The Ad Hoc Committee will be contacting AES to follow up.

A DOC statement on the frequency assignment appears in the sidebar above.
—Paul Smith, VE3PS

OTHER DOC NEWS

□ DOC has responded to concerns of the Amateur Radio community about the marketing of Radio Shack's new HTX-100 10-metre transceiver. The radio is not yet available in Canada. In a letter to Radio Shack, DOC stated that, when the radio does become available, the concerns

DOC Summary: AES CADR 441-MHz Frequency Assignment

In 1985, the Atmospheric Environment Service (AES) approached the Department of Communications (DOC) for advice as to which 400-MHz frequency band would be acceptable for their proposed Clear Air Doppler radar (CADR). The CADR would be installed at various locations and would be used to experiment in the sensing of wind velocity versus height data over a range from near to the ground to the maximum level possible. As the CADR was determined to be a radiodetermination/radiolocation device in accordance with the ITU definition, AES was advised that the 430-450-MHz band, allocated to RADIOLOCATION on a primary basis, would be appropriate. AES subsequently submitted applications to operate an experimental CADR in the 430-450-MHz band as part of its newly established facilities at Egbert, Ontario. At that time, the frequency of 433.5 MHz was tentatively selected for CADR use.

To respond to the concerns of the Amateur Radio community on this matter, a working Ad Hoc Committee comprised of various amateur representatives, including the two national organizations, CRRL and CARF, was formed to formulate recommendations as to selection of a suitable frequency for the proposed radar system, one which would have a minimum impact on amateur operations.

During the past year, several meetings between the department and the Ad Hoc Committee took place to discuss the various technical issues of the matter. These meetings served to explain and clarify the technical parameters of the radar, and to discuss the technical reports presented by the department and the Ad Hoc Committee. As a result of this extensive dialogue, a consensus was reached, one that recognized the adverse effect that could result to the SARSAT system if the CADR was accommodated in the 401-406-MHz band. In view of the safety aspect associated with the SARSAT system, it was recognized that the only suitable alternative was in the 430-450-MHz band.

In conclusion, the department accepted and concurred with the committee's recommendation of 441.0 MHz as the most suitable frequency in the 430-450-MHz band. AES has been advised of the assigned frequency, 441.0 MHz, and has indicated a willingness to work closely with the Amateur Radio community to minimize mutual interference to their respective services. ■

of the Canadian Amateur Radio community would be lessened if Radio Shack displayed a warning label on the radio's packaging. The label would state that a license was required and that an operator must possess the appropriate certificates before installing or operating the radio. DOC offered to work with Radio Shack in developing appropriate wording for the label.

□ Once again, Marcel Masse is Minister of Communications. Mr Masse replaces interim Communications Minister Senator Lowell Murray and former Communications Minister Flora MacDonald, who lost her House of Commons seat in the November 1988 federal election.

CRRL NEWS

□ CRRL is preparing the 1989 *Canadian Repeater Directory*. If you have changes and updates for this directory, send them to CRRL soon—through the mail, through NTS, or by packet radio to VE3ZJ @ VE3GYQ.

□ Don't forget the April QST QSO Party, phone portion scheduled for April 15-16 and CW portion scheduled for April 22-23. Look for for up to eleven CRRL-sponsored stations using the "QST" suffix between 1500 and 2200 UTC each day on 80 and 20 metres—and on other bands if conditions permit. Work any eight "QST" stations—any band, any mode—to qualify for the Worked All QST Award. To receive the award, send log data and a business-size envelope to CRRL Awards Manager Garry Hammond, VE3XN, 5 McLaren Ave, Listowel, ON N4W 3K1.

NOTES FROM ALL OVER

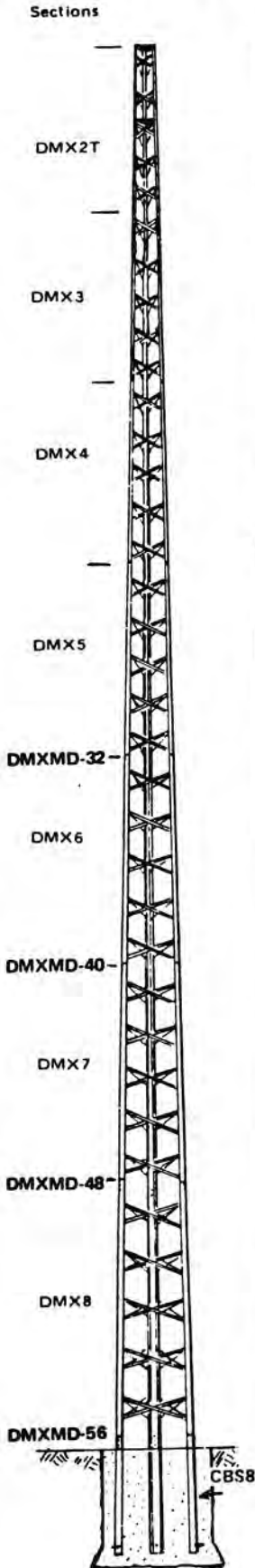
□ Effective January 31, the US FCC opened the 18-MHz band to US amateurs. Stations with US General, Advanced and Extra Class licences may use A1A (CW) emissions over the entire band, 18.068-18.168 MHz. Digital emissions for direct printing telegraphy (RTTY), computer communications (packet) and the like are permitted below 18.110 MHz. Analog emissions including FAX, SSTV and SSB phone are permitted above 18.110 MHz. This follows the IARU recommended band plan. Canadian amateurs have had access to the 18-Mhz band for some time. DOC did not specify what modes amateurs should operate where, but CRRL has asked Canadian amateurs to voluntarily operate in accordance with the IARU band plan, now officially adopted by US FCC.

□ Still south of the border, the ARRL has divided the Washington Section into two Sections: Eastern Washington (EWA) and Western Washington (WWA). This brings the total number of ARRL and CRRL Sections to seventy-six.

□ Calgary Amateur Radio Association has extended the deadline and it's not too late to apply for the Calgary Olympic Award. If you worked special-event station VX6OCO twice (two bands or two modes) between 1988 January 01 and February 14, or once during the 1988 Winter Olympics, February 14-28, you qualify for the award. Send log data and \$3 or five IRCs to Olympic Awards Manager, Calgary Amateur Radio Association, Box 592, Calgary, AB T2P 2J2. ■

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DMXMD-48	48 ft.	DMX2T, DMX3, DMX4, DMX5, DMX6, DMX7	272	\$585.00
DMXMD-56	56 ft.	DMX2T, DMX3, DMX4, DMX5, DMX6, DMX7, DMX8	351	\$719.00
DMXHD Heavy Duty Towers				
DMXHD-32	32 ft.	DMX3T, DMX4, DMX5, DMX6	170	\$399.00
DMXHD-40	40 ft.	DMX3T, DMX4, DMX5, DMX6, DMX7	241	\$535.00
DMXHD-48	48 ft.	DMX3T, DMX4, DMX5, DMX6, DMX7, DMX8	314	\$669.00



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DAIWA



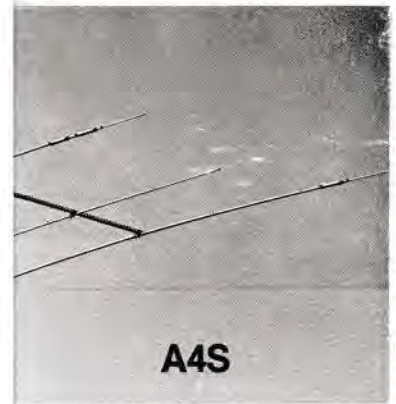
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	2 motors	11,000 kg/cm (9,560 lbs/in)		(\$699.00)	9,000 lbs/in	20 sq ft
	3 motors	2,100 kg/cm (1,825 lbs/in)	26.4 sq ft	HDR300	5,000 lbs/in	25 sq ft
	4 motors	16,000 kg/cm (13,906 lbs/in)		(\$1359.00)	7,500 lbs/in	
4 motors	2,800 kg/cm (2,433 lbs/in)	30 sq ft	not available			
4 motors	21,000 kg/cm (18,251 lbs/in)					
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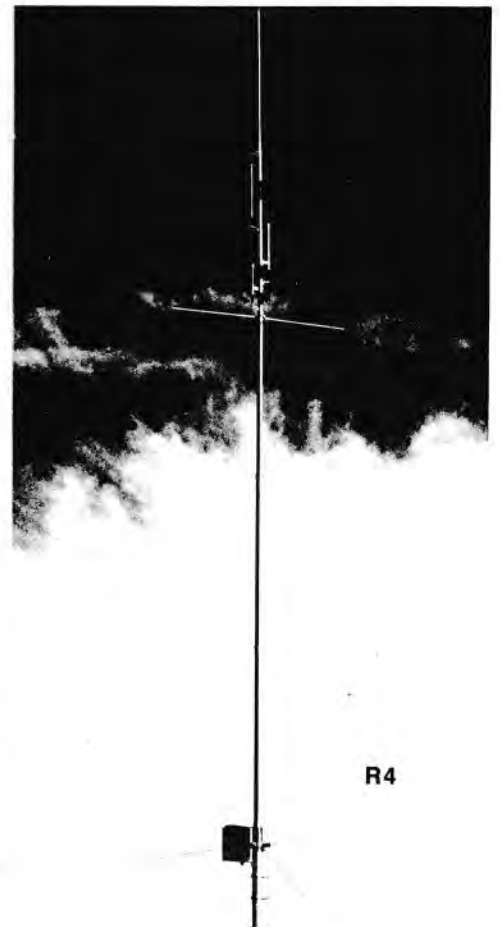
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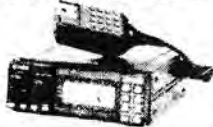
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The CRRL Field Organization Forum

SECTION MANAGER ELECTION NOTICE

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

..... (place and date)

CRRL Field Services Manager

Box 7009, Station E

London, Ontario N5Y 4J9

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

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

Petitions will be received at the CRRL Headquarters office until 1600 EDT 1989 June 10. If only one valid petition is received, the person nominated will be declared elected. If more than one valid petition is received, a balloted election will take place. Ballots will be mailed from CRRL Headquarters on 1989 July 01. Returns will be counted after 1989 August 20. A Section Manager elected as a result of these procedures will serve for a two-year term of office beginning on 1989 October 01.

If no valid petition is received, the Section will be resolicited in the 1989 October QST Canada. You are urged to take the initiative and file a nominating petition immediately. —Jack Strangleman, VE3GV, Field Services Manager ■

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

being manned several times a week with much enthusiasm from the public and the amateurs. Alberta amateurs saddened to learn of the death of Elsie Thompson, VE6YW. She will be missed by all her friends.

British Columbia: SM: Ernie Savage, VE7FB. BC Public Service Net Manager Jim, VE7JN, reports checkins high of 212, low of 140 and total 5285. Ford, VE7DDF, has volunteered as my Assistant Net Manager. Real nice to have him back in action again. BC Emergency Net Manager Ferdi, VE7EJU, reports ONI 813, QTC 162. Ferdi says QTCs sure have dropped now that the Christmas rush is over. Remember that traffic is the lifeblood of a net, so please send a message to Aunt Suzy and others. Your SM says "thanks" to net control stations of both nets for their time in supporting the nets and their members. Thanks also to clubs that mail in their newsletters. We appreciate hearing from you all.

Manitoba: SM: Jack Adams, VE4JA. "Amateur Radio at the Crossroads" is the theme of the CRRL National Convention to be held in Winnipeg on August 18-20. Winnipeg Amateur Radio Club is hosting this convention which will include interesting programs—and forums on packet radio, DX, EME, antennas, contests, public service and restructuring of the Canadian Amateur Service. There will be vendor displays, a large flea market, interesting exhibits for OMs and YLs, and a program for spouses and children. Special things are planned for the Saturday night banquet and the Sunday morning breakfast. A secondary theme of the convention is "Western and Casual". The aim here is to make eyeball contact with amateurs from all over the country, have fun and enjoy some of the happenings in Winnipeg itself. The world renowned *Folkarama* festival will be on and the *giant pandas* will be in town. Plus summers in Winnipeg are always great. For information on registration and accommodation, contact Ed Henderson, VE4YU.

Maritimes-Newfoundland: SM: Carl Anderson, VE1BQQ. Brent Taylor, VE1APG, has been appointed Section Bulletin Manager. He is also taking over one of the Official Bulletin Stations and will become trustee of the special CRRL callsign VE1QST on April 1. Brent will be looking for volunteers to read CRRL bulletins (these are sent via packet radio and through the mail) on HF and VHF nets throughout the Section. Contact Brent on the Maritimes Phone Net (3750 kHz LSB, 1700 AST/ADT daily) if you are interested in bulletin work. Here are the 1989 officers of Dartmouth (NS) ARC: President: VE1BXI, Vice President: VE1VCN, Secretary: VE1TI, Treasurer: VE1WZ, Executive Member-at-Large: VE1AGU. Other clubs, please send me your list of officers and correct mailing address. Halifax ARC plans to issue a new edition of the *VE1 Callbook*. The last issue was in 1986.

Ontario: SM: Larry Thivierge, VE3GT, STM: VE3CYR, SEC: VE3GV, BM: VE3GSA, TC: VE3EGO. 1988 statistics for our local and Section net operation reveal that 2103 sessions were held (-2%) with 18,733 checkins (-0.5%), 6,046 pieces of formal traffic handled (-12%) in 25,601 minutes of operation (-8%). Percentages in brackets represent decrease over 1987 figures. My sincere thanks to all who participated in these activities and helped carry on this fine tradition that is such an important part of Amateur Radio. Comments expressed after the CW portion of a recent 160-metre contest indicate that contest operators who use computers to control their stations don't listen long enough between calls. VE3SB, just fresh back from skin

diving in St Lucia, and VE3CD, have both been licensed for twenty-six years. Congratulations to both. The Transprovincial Net (TPN) operates daily from 1000 to 1500 EST/EDT on 7.055 MHz LSB. VE3EUI is net manager with VE3CUV handling public relations and VE3AJB running the new swap net on Saturdays at 1000 EST/EDT. They'd all like to hear you check in. VE3POS, VE3PUA and VE3PYA were among the first to earn the Ontario Provincial Award sponsored by South Pickering ARC. VE3FIO in Windsor is a new addition to the PL Club. I had an enjoyable eyeball contact with VE3CLX who is deeply involved in restoring antique radio equipment. Niagara Peninsula ARC has a new 2-metre SSB net active nightly on 144.24 MHz USB. Starting time is around 2000 EST/EDT and it's all very informal: first person on the frequency is the NCSI Next luncheon meeting for QCWA Southern Ontario Chapter 73 will be held at the Mohawk Inn in Campbellville on May 13. VE3EXP recently flipped the switch that brought the new VE3ZZZ repeater to life. It operates on 145.25 MHz and is sponsored by the Farout Amateur Radio Team in Windsor. VE3CDM will act as special Canadian liaison to the ARRL No-Code Study Committee charged with exploring the implications of a no-code amateur licence for the United States. Amateur Radio is expanding in China. Soon you'll be hearing individual stations with BG prefixes, special-event stations with BT prefixes, and foreign-operator stations using BW prefixes. Windsor ARC had twenty club members back in 1981 and a history of up and down growth. Now they've hit a new high of 180 members. They must be doing something right! VE3NXT and VE3NXS have relocated to the Hamilton area. VE3RIN is a new amateur while VE3JPU, VE3ORU and VE3PKH now have their Advanced. Welland County ARC is looking to improve their organization and use packet radio for various races and events they are involved with. Field Day dates are June 24-25. How are *your* plans coming along?

Quebec: SM: Harold Moreau, VE2BP, STM: VE2EDO, SEC: VE2LYC, BM: VE2ALE. Welcome to Bruce Balla, VE2QO, our new Quebec Regional Director who was recently nominated and elected for a two-year period that began on January 1. Adrien, VE2 TI, est revenu actif après plusieurs années de silence. Félicitations à Claude, VE2 AJD, qui a complété son troisième DXCC.

Saskatchewan: Bruce Rattray, VE5RC. It's February 7 and we've still got plenty of snow, high winds and bone-chilling temperatures. But I must admit that things have warmed up since it's only -28 degrees tonight! Rumour has it that the Saskatchewan crew has a digital repeater going at Hanley and part of the idea is to link into Regina with packet. The repeater building constructed by Avonlea Repeater Group is doing a great job protecting the machine. Anyone who has been up to the 3000-foot location knows the building is taking the full brunt of Old Man Winter. The results of the Saskatchewan Merger Survey have been printed in full in the February issue of *TCA*. Our sincere thanks to CARF and Bill, VE5EE. Bill is also chairing the committee for the August 11-13 Saskatchewan Hamfest and has things well under way. Don't forget that one week later, a CRRL National Convention will be held in Winnipeg. Ed Henderson, VE4YU, is convention chairman. You can get in touch with Ed on the regular nets. Look for your net's monthly report in the *QST Canada* "Public Service" column. Did you know that Gordon Wightman, VE5XU of Regina, was first licensed in 1933? Or that Stan Ford, VE5NG of Moose Jaw, was first licensed in 1937. Now you know! 73. ■

REPORTS FOR JANUARY 1989

Alberta: SM, STM, DEC: Bill Gillespie, VE6ABC, ASM: VE6AMM, SEC/TC: VE6AFO, OO: VE6TY. Most amateur activity restricted to indoor because of the severe cold weather and heavy snows. NARC is still working towards a hamfest to be held just north of Edmonton on May 26-28. Amateur Radio station at Edmonton Space Sciences Centre

KENWOOD



TS-940, 440, 140



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TH-215AT, 315A,
415A, TH-205AT

TH-25AT, 45AT

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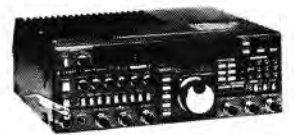
IC-02AT, 03AT, 04AT, IC- μ 2,



IC-28H, 38A, 48A



YAESU



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Tales of the South Pacific

The customs official regarded my seven-foot antenna package with great suspicion. He had intercepted a bazooka the day before. "Open it," he ordered, but I managed to talk him out of it, explaining, "aerial". He had not understood "antenna". He was British-trained.

I was arriving at Fiji, for a short stay before heading for Vanuatu republic, formerly the New Hebrides Island. There is some political trouble in both countries, hence the close scrutiny. There were soldiers at the airport and at the docks, and a few roadblocks. However, I made it to Nadi without further difficulty.

Fiji was one place for which I had not bothered to obtain a licence, so I headed into Suva the next day to get one. Here I ran into another slight problem. Because of the local trouble, there is normally a delay of two weeks to a month while the police look you over. But officials were aghast that I had my equipment in the country without a licence. Fortunately, they decided not to make an issue of it. They were most friendly and cooperative. I got my licence.

In Fiji, I operated my Yaesu FT-77 transceiver—battery powered—and a two-element triband beam with great success. It is refreshing to create pileups from exotic places. It was also great to hear so many Indian, Korean, Chinese, Philippine and Indonesian stations—and to work them without half trying.

Carolyn, VE7FOX/VE0MER, was on her yacht in these waters with an FT-707, a vertical antenna and a great signal. I talked to her many times as she was en route from New Zealand and while she was tied up at Suva. I even visited her boat, but never saw Carolyn. She was out shopping when I called.

While in Fiji, I checked in regularly to the DDD Marine Net on 14.115 MHz, and spoke to Gerry, VE7CEM, a white caner and net control station on most evenings. The net meets at 0500 UTC—a great service for boaters and others abroad.

After a month in Fiji, I headed to Vanuatu where I had been invited by Norman, YJ8NJS, who is active from Port Villa. Norman met me at the airport—a great help, as he is head of customs in Vanuatu. He installed me in Iririki Island Resort where the owners and staff were most cooperative, very understanding about antennas, and generous with post cards of Iririki, and travel folders too.

The next morning, Norman; Robert, YJ8VRL; Rod, YJ8NRN, and several others from the local radio club were at my door—before I was out of bed. They

were ready to put up the beam. Robert had brought along Rob's twenty-foot rotatable mast, a 12-volt battery and tools. Rod had brought a big box of rope, tiedown pegs and other gear. They soon had the beam, and a dipole strung between a couple of coconut trees. I was on the air.

Besides operating from Iririki Island, Robert gave me a key to the clubhouse—supplied by the Vanuatu government—so I could use the club's beam and Butternut verticals. I did, with great success, though I had to wait until after five pm each day. The computer centre was just next door and the "birdies" were overwhelming.

After a few days of operating, Norman laid on a bit of a reception for me, attended by the antenna gang and Roy, YJ8NRM, and Achilles, YJ8PE/MM. It was great to be part of this friendly group.

Norman conducted me to the local Post and Telegraph office where, for \$5, they issued me with the call YJ0ARP (the zero indicated that I was a visitor) and a receipt. They suggested I call later for the licence. I called several times during the next few days and each time, they said call later. Finally, they said, "We are not worried about you. Just go ahead and operate." This is the charming way they do things in the South Pacific. James Michener wrote the famous book, *From These Islands*, and he was right. It's a paradise.

Years ago, the "Wackiest Ship in the Army" sailed out of Port Vila. The "Baa, Baa Black Sheep" marine fighter squadron was based here too. And many years ago, Captain Bligh of Bounty fame sailed through these waters after the mutiny, naming Banks Island en route. It was my intention to operate from Banks, as, to my knowledge, no amateur has ever been there. However, travel arrangements were just too difficult.

It was also my intention to operate from Kiribati's Tarawa and Beru Islands too, but the airline was on strike all the time I wanted to go.

So far, I've received 3300 QSL cards from my trip and they are still coming in. Most of my contacts have been good about enclosing IRCs or a green stamp, but most Canadians and Americans simply enclose a number six envelope—too small for my QSL and the colourful travel folders provided by the Iririki Resort. All Japanese contacts enclosed a self-

addressed envelope of suitable size. Very clever, these Japanese!

On this South Pacific DXpedition, Gerry, VE7BG, was my anchorman, and a fine job he did too. In 1988, 10 metres was not too reliable, but with the increasing number of sunspots and improved propagation conditions, I plan a return expedition in March or April of this year,



The author, VE7TG/YJ0ARP (centre), with Achilles, YJ8PE (left) and Norman, YJ8NJS, with Achilles' yacht and Iririki Island in the background. (VE7TG photo)

mainly using 10, 15 and 20 metres, but using other bands as well. The antenna will be a Minibeam, a three-band dipole and a long (several hundred feet) wire.

This time I hope to make it to Tarawa and Beru Islands too. As far as I know, there has never been an operation from that island and I am fortunate in knowing a teacher on Beru, a graduate from Pearson College where I work.

My call is T30TD. Hope to work you from the South Pacific. Bali Ha'i! —Roy Parrett, VE7TG



Roy Parrett is an instructor at Lester Pearson College in Victoria. Here's Zhi-qiang Gu, a student at Lester Pearson, listening for Chinese broadcasts on one of the college's shortwave receivers. This particular receiver was donated by Ken, VE7XA, and renovated by Stuart, VE7ANF. Students from sixty-two countries attend Lester Pearson which sponsors club station VE7LPC. (VE7TG photo)

Using Visitors Effectively

Many times in this column, I've stressed the importance of using visitors—outside amateurs—to help present parts of the course. Besides giving another viewpoint, a visitor can probably teach you a thing or two in his or her area of expertise. I have been particularly fortunate in being able to draw on a number of local amateurs who have kindly come to the class and shared their enthusiasm and talent for antennas, packet radio and repeaters. On one occasion, the class itself became a visitor when we dropped in on the local Amateur Radio club to hear a special out-of-town speaker. The class said that coffee and doughnuts were better at the club than at Fanshawe College where we meet, and is now looking forward to dropping in again.

Antenna Visitors

For antennas, we invited Dave McCarter, VE3GSO. Dave has built everything from loooooong wires to helicals for satellite tracking, so we knew that everything from LF to UHF would be discussed. For this visit, I told Dave how much time he had, and, after a short introduction, he took over. This method is in contrast to doing a lot of preparation before the visitor arrives. Dave began with the fundamentals—some demonstrations and antenna pieces (Dave brought a few samples to class). Then he took the class through the world of antennas. It was more information and theory than any new amateur would need for a test, but the presentation had a great advantage: it was an outstanding overview of antenna types and construction techniques that could only have been presented after many years of study and experimentation.

What about follow-up? In the next class we reviewed, simplified and pointed out material that would be relevant to the test. It has always been my practice to give students a little more material than needed "for the test". An overview with review and simplification makes difficult concepts easy to understand.

Sometimes I ask students to explain how they understand or explain a principle to themselves. This is always a profitable exercise. At times the explanation is incorrect. This makes it a perfect time to review and correct a wrong assumption or a note that the student has taken. Then we work together to come up with a simple, sound, understandable explanation. When doing regs for example, we get someone with boating experience and a radio license to explain distress and safety, using his boating regs booklet.

Repeater Visitors

Our repeater visitors were handled differently, and this might suit your class better. Before they came, I discussed FM and reviewed VHF propagation. I introduced the idea of repeaters, and we all listened to repeaters on 2 meters. Thus, the students were aware of repeaters and some of the terminology used by repeater people when our visitors walked in. They were comfortable with the subject.

With our visitors, I had discussed timing and passed along some precautions about technical depth. So the repeater group was also ready. They knew what the class could handle.

Well, they arrived and conquered. Four enthusiasts each took a part of the time, (a) explaining technical characteristics of a repeater, (b) demonstrating oper-

ating techniques (c) explaining phone patch operation, leaving messages, mailboxes and linking, and (d) extending a friendly invitation for the members of the class to meet on Saturday for coffee. So besides being informative, the visitors also invited the students to become a part of the Amateur Radio community.

Once the visitors left it was time to review the material. Students will ask you questions that they will not ask a visitor, so it is important to have this review and question period. This is also a perfect time to relate material that was presented to the upcoming test. ■

Silent Keys

Conducted By Ray Staines, VE3ZJ

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

VO1PO, Cyril Buffer, St John's, NF
VE1DE, Henry Fougere, Dartmouth, NS
VE1PV, James W Murphy, Dartmouth, NS
VE3BAS, Norman E Rickards, Frankford, ON
VE3CGM R Stewart MacKinnon, Wiarton, ON
VE3DEL, Arthur N Liley, Corbeil, ON
VE3DZT, Wilf Hargraves, London, ON
VE3HYZ, Gene M Rogers, Palmerston, ON
VE3JDW, John Wallace, Nepean, ON
VE5GW, Gary Winsnes, Regina, SK
VE7CQO, Gordon Evans, Burnaby, BC
VE7CZI, Dougals Heritage, Burnaby, BC
VE7DLT, John Edgar, Kamloops, BC
VE7ERQ, Robert McAllister, Vancouver, 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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BCEN, Messages and Publicity

BC EMERGENCY NET

The British Columbia Emergency Net (BCEN) has operated daily at 3650 kHz, 1900 local time, for many years. Away back in 1973, the first issue of the *BCEN News* was published. That newsletter was the brainchild of SM and EC Ernie Savage, VE7FB, and Ken Wilmot, VE7QQ, who became its first editor. When Ken became a Silent Key, Ernie carried on. The current issue is filled with news of the net, and contains many useful technical and operating tips. The Honour Roll of the top fifty stations to check into BCEN during the past year is most impressive: VE7EJU and VE7EJW share top honours with 349 checkins each and thirty-two stations had over 100 checkins each! Net manager Ferdi Wenger, VE7EJU, deserves congratulations for running a most effective net that could make a major contribution if disaster should ever strike our most westerly province.

TRAFFIC HANDLING

There are those who claim that emergency communications can be provided on an ad hoc seat-of-the-pants basis, and that standard message format is for the birds. The contrary view, held by experienced ARES operators, is that messages must be handled in standard format with a proper preamble. An important facet of ARES training is the efficient, effective handling of formal messages, both on CW and on phone.

Bert Lussier, VE3TNL, EC for Sault Ste Marie, recently organized an emergency exercise to give members in his group additional experience in message handling. The mock scenario involved a major gasoline spill from a ship—a disaster that required evacuation of part of the city, and overnight housing and feeding of hundreds of evacuees at three Red Cross reception centres. There were five simulated emergency sites: the Red Cross headquarters, three emergency shelters and a mobile unit at the site of the disaster. Three or four operators were assigned to each of these sites and provided with subject matter for several messages—to be put into standard form for forwarding on the air. As a result of this exercise, Bert now feels he has fifteen operators who can make effective use of standard radiogram format in time of disaster.

PUBLIC RELATIONS

Nowadays, it seems that every organization is competing for an opportunity to tell its story to the world through the

media. As members of ARES, we have a particular obligation to keep authorities—and the general public—aware of our ability to contribute in time of disaster. Recently, in our mail, we have received several examples of how our fellow ARES members are doing it:

□ In the *Belleville Intelligencer*, we note an excellent story on emergency communications during the Jamaican hurricane. It covers help provided by Canadian Forces Base Trenton and describes how

local amateurs handled welfare inquiries from the Belleville area. The article is headed with a fine photo of John Lester, VE3MB, EC for the Quinte region.

□ Algoma ARC operated VE3SOO in 1988 Field Day and, using sixteen operators, ran up a respectable score of 2974 points. Bert Lussier, VE3TNL, EC for Sault Ste Marie, sent us a clipping of an interesting article on the operation. The article, from the *Sault Star*, was complete with photo of Algoma ARC President

Field Organization Reports January 1989

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 789:

Reporting	ARES Members
VE3GV (VE3s EFX, FOB, FUN, GNW, ITT, JJA, KBU, KXB, Lfv, LKI, LPM, LYW, MB, MPF, NHZ, OIP, PJC, TNL, SV)	557
VE6AFO	232

CRRL Section Traffic Manager Reports

Call	Orig	Rcvd	Sent	Divd	Total
VE2JN	1	27	23	6	57
VE2BP	4	17	16	11	48
VE2WH	1	11	12	14	38
VE2EC	8	14	9	5	36
VE2ALE	0	9	5	3	17
VE3ORN	0	106	92	15	217
VE3FAS	0	113	81	0	194
VE3BCZ	17	78	91	4	190
VE3GSQ	0	103	78	2	183
VE3GNW	0	57	73	1	131
VE3CYR	0	76	37	1	114
VE3GT	0	39	68	0	107
VE3EAM	14	24	14	23	75
VE3IN	0	37	3	2	42
VE3KXB	0	16	18	0	34
VE3SB	1	10	13	1	25
VE3AJN	0	13	10	1	24
VE3NVJ	3	6	7	3	19
VE3K CZ	2	8	4	4	18
VE3BDM	0	2	11	0	13
VE3BAJ	0	1	4	1	6
VE3WV	0	1	1	1	3
VE3EWD	0	1	1	0	2
VE4FP	1	31	32	7	71
VE4JR	1	33	30	2	66
VE4JA	9	19	11	13	52
VE4TE	0	27	2	0	29
VE4KE	0	0	28	0	28
VE4STU	3	1	11	0	15
VE6CHK	—	—	—	—	63
VE6CPP	—	—	—	—	26
VE6XG	—	—	—	—	18
VE6GUS	—	—	—	—	7
VE6ABC	—	—	—	—	6
VE6AKY	—	—	—	—	2
VE7EJU	4	85	120	0	209
VE7ANG	2	40	68	5	115
VE7FB	4	21	21	8	54
VE7CCJ	8	23	17	3	51
VE7XA	4	13	14	9	40
VE7BCL	1	15	5	10	31
VE7FRZ	1	10	17	0	28
VE7EGM	0	10	8	2	20
VE7BZI	4	4	4	3	15
VE7EIR	0	1	5	0	6

National Traffic System

Net (Mgr)	Sess	QNI	QTC
KTN (VE3AJN)	31	124	15
OLN (VE3POJ)	31	617	34
OPN (VE3IN)	31	666	212
OQN-1 (VE3GSQ)	31	52	22
OQN-D (VE3ORN)	31	194	123
OQN-E (VE3CYR)	27	137	85
OQN-L (VE3GSQ)	28	99	26
MEPN (VE4LB)	31	1310	19
MMWX (VE4TE)	31	465	21
MTN (VE4IX)	29	277	42
SATN (VE5AGM)	25	175	4
SPN (VE5AE)	29	1555	7
APSN (VE6AKY)	31	1552	27
ATN (VE6CPP)	31	233	86
BCEN (VE7EJU)	31	813	162

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: VE4JA (119), VE3ORN (104), VE3BCZ (89), VE4RO (86), VE7EJU (84), VE3GT (73), VE4STU (72), VE4FP (71), VE4JR (66), VE3GSQ (61), VE4ABG (60), VE7FB (39)

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	105	0
ARES ONTARIO (VE3GV)	1	—	0
CRRL ONTARS (VE3BC)	31	14235	0
ARG (VE5EE)	30	612	0
MJARC (VE5MML)	28	316	0
SWX (VE5EX)	31	879	0
AARES (VE6AMM)	5	136	0

Roy Brockelbank, VE3FOD, and a second operator using a solar-powered station.

□ The Ministry of the Ontario Solicitor General publishes *Emergency Planning News* four times a year. The Fall 1988 issue carried a half-page article called "Amateur Radio Responds in Emergencies". The article begins with these words: "The term 'Amateur Radio' is a misnomer. The people who have these skills are professionals all the way...." The article summarizes the contributions amateurs have made in disasters like the Barrie tornado and goes on to recommend that municipal planners include radio amateurs in their emergency plans.

□ Last month, we referred to the splendid article in *News and Notes* published by Alberta Public Safety Service (APSS). The article describes the contributions of Alberta ARES to emergency communications following the Edmonton tornado. It says: "The citizens of Alberta owe a debt of thanks to all these dedicated volunteers for their humanitarian assistance..." and includes a great photo of Alberta SM Bill Gillespie, VE6ABC, at the controls of the newly established emergency station at APSS Headquarters in Edmonton.

□ In October, Bruce County ARES provided a Hallowe'en patrol for police in Kincardine, Ontario. EC Bill Hardie, VE3EFX, was rewarded with a letter of thanks from the Kincardine Police Force for helping curb acts of vandalism.

□ Finally, George Samson, VE3LXA, and yours truly were interviewed on a recent CKWS *Morning Break* show. We described some of the attractions of Amateur Radio and covered the role of our local ARES group in civil emergencies. We made the point that ARES is specifically included in the emergency plan for the Township of Kingston. Feedback from viewers was encouraging, interest in emergency planning has increased and we may even have attracted some newcomers to our hobby. —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.


ARES is a branch of the CRRL Field Organization, although you you not have to be a CRRL member to take part. Interested in forming an ARES group? Contact your CRRL SM or SEC for details. Interested in meeting other amateurs interested in emergency communications? Check into the ARES Canada Net, 14.115 MHz, every Sunday at 2000 UTC. ■

Winnipeg—Where the West Begins...

Howdy! In just four months it will be time to saddle up and hit the trail. The date is August 18–20 for the CRRL National Convention in Winnipeg. The emphasis is western—casual and fun. The theme, "Amateur Radio Communications... at the Crossroads", will be evident in the many forums and events. Celebrate with us and enjoy Winnipeg's many attractions as well: first-class museums, the world famous Folkarama festival and the visit of the Giant Pandas. Save money and be eligible for special prizes by registering early. For latest details, contact Ed Henderson, VE4YU, CRRL '89 Convention Chairman, Box 352, Winnipeg, MB R3C 2H6. ■


Winnipeg—où l'Ouest Commence...

Salut tout le monde! Bientôt il sera temps de vous décider et de vous mettre en route. La Convention nationale du CRRL se tiendra à Winnipeg du 18 au 20 août 1989. L'accent est mis sur l'Ouest, la desinvolture et l'amusement. Le thème "Nouvelles Voies de la Radio Amateur" se présentera sous de nombreux forums et événements. Célébrez avec nous et profitez aussi des nombreuses attraits de Winnipeg: musées de première class, festival Folkorama de renommée mondiale et visite des Pandas géants n'en sont que quelques exemples. En vous inscrivant tôt, vous économiserez et vous serez admissible à des prix spéciaux. Pour de plus amples informations, inscription et réservation, contactez ou écrivez à Ed Henderson, VE4 YU, Président, Comité de la Convention 89, CP 352, Winnipeg, MB R3C 2H6. ■




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We carry a vast assortment of items ranging from medical, laboratory, scientific, photographic, optical, antiques and other strange pieces for the experimenter and enthusiasts as well as schools, labs and electronic firms. If in the area when we are open, feel free to drop in and browse through two floors loaded with surplus.

We are always happy to answer queries by phone or mail. Don't hesitate to phone us any time at home or warehouse. If by mail, a postage stamp to defray the cost of a reply would be appreciated. Due to the nature of surplus very few items are stocked in depth and as a result it is impossible to prepare a catalogue or listing which would remain valid for even a short period of time.

Some interesting items for this month include: M/W Tellurometer units complete with a built in parabolic dish and antenna under a radome, solid state, tuneable cavity, dual miniature meters, modular pwr supplies, runs off internal or external batteries supplying 10 to 16 VDC. All in portected case approx 12x12x12 inches. Accepts headphones and microphone for voice transmission. Very clean with canvas carrying case. \$95.00

(2) Another interesting item is Swiss Wild model BL16-21 subtense bars complete with 4 Ft. leather and canvas carrying case. These are the illuminated version with precise 3 pt transit style levelling head, bubble level and optical plumb bob. These are available at a fraction of acquisition cost, in very good condition. \$50.00 (3) We have a few rigid wood 5 ft. tripods to hold the tellurometer units. They come complete with foot protector and plumb bobs. \$25.00 (4) Finally we have a few solid state Eddystone receivers, Model 958/3 covering 10 KHz to 30MHz. These come with a copy of the manual plus an assortment of spares which include mechanical components as well as various modules, pcb's and components which the military felt were worth stocking. Due to the variety of spares, no two receiver kits are identical. The complete package is available for \$600.00

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