

QST 

CANADA

Official Journal of the Canadian Radio Relay League
Journal officiel de la Ligue Canadienne de la Radio Amateur

*Odysée
Loppet/Mont
St-Anne*

VX6OCO

*Training
Column*

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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 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. "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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“It Seems to Us... /Il nous semble...”

Thank You

Elsewhere in this issue, we've become a bit self-serving and published some letters congratulating us on our first issue of *QST Canada*. Many of you have been most kind and your comments have been encouraging to all of us working on this project.

You might be interested in how *QST Canada* came about. About sixteen months ago we ran into ARRL's Dave Sumner and Paul Rinaldo at the Dayton Hamvention. Amid our musings about CRRL and the fact that things were going pretty well, we mentioned that it was too bad there was no way to send CRRL members some extra Canadian news with their *QST*. That's when Paul said "Why don't you?" and we began.

Our first idea was a four-page supplement along the lines of the *ARRL Letter*, possibly bound into *QST*. Eventually, we settled on a sixteen-page stand-alone magazine. Even before the first issue was printed, we knew that sixteen pages wouldn't be enough. All kinds of people wanted advertising space and all kinds of people wanted to write for us. Thus, our second issue had twenty pages and this one has twenty-four. Twenty-four is where we will hold it for a while until we catch our breaths.

Because *QST Canada* comes with *QST*, a few people think it is produced in the US, possibly with ARRL help. This is not the case. *QST Canada* is produced by volunteers in London, Ontario. Text is typeset by our printer in nearby Hyde Park, Ontario. Rough layout is done at the editor's house. Final layout is done cooperatively, back at the printer's. We are currently printing 7000 copies of *QST Canada* each month. 6000 are shipped to Glasgow, Kentucky, where they are packaged with *QST*. There are no free rides anywhere along the way. CRRL pays for everything including the shipping to Kentucky, the packaging and any extra postage back to Canada.

Again, thanks for your kind comments and your continued support. — VE3GRO

A CASE FOR CODE

VE4KZ has been corresponding with a boy of 13 who wants to become a ham. The boy is about to learn the code. What do you tell a computer-age kid about a language called CW?

Dear Justin:

As promised, here's the code practice tape.

You might think that Morse Code is an old-fashioned way of communicating. It is! The Code was invented 150 years ago by Samuel F. B. Morse (I like his middle initials — they're often used in radio to mean Fine Business, a sentiment similar to "that's great!").

Old-fashioned, yes. But Morse Code really works. Radio conditions were poor a few weeks ago. There was much static (we call it QRN) and signal fading (QSB). Voice signals were not getting the job done. Radioteletype and computer communications weren't either. Morse Code (called CW) was. CW almost always gets the message through in that kind of situation.

Morse Code is efficient. You're likely to work more stations with a given transmitter power using CW than using any other mode (voice, etc). Amateurs who communicate by bouncing signals off the moon use CW to best employ their transmitted power.

I like CW. I didn't always. I learned it the wrong way by memorizing a chart in a Scouting book. Although I knew the "dot" and "dash" patterns for the letters, numbers and punctuation, I didn't know what they sounded like. It took me time to relearn the code as it sounds.

That poor start made it difficult for me to increase CW copying speed. My speed eventually increased: first, sufficient speed to pass the government tests; later, enough speed to earn some awards for CW copying proficiency. I have been working on building more speed for the fun of it.

Most of my operating is on CW. It's fun. It works. And I guess there is some "romance", recalling visions of early ham and shipboard operators. CW also brings to mind my very first halting contact some 30 years ago.

CW is something of a language, binding radio operators the world over. It's special and so are we. You might say that mastering CW a "rite of passage" from not being to being a radio operator.

That's it for now. Good luck (GL is the Morse Code abbreviation) and 73. — Bill Karle, VE4KZ

All letters will be considered carefully. We reserve the right to shorten letters in order to have more members' views represented. The publishers of *QST Canada* assume no responsibility for statements made by correspondents.

QST CANADA KUDOS

□ Congratulations on the first issue of *QST Canada*! It looks great and I hope it will continue to grow and prosper and serve the radio amateurs of Canada. CRRL is forging ahead now because of the enthusiasm of a dedicated group of volunteers. It is an exciting period for you and Amateur Radio in Canada. Best wishes for your continued success, and for your continued enthusiasm. —Richard Baldwin, WIRU, President, IARU

□ Congratulations on the very fine premier issue of *QST Canada*. It appears that the new publication is off to a running start. Best wishes for future growth and continued success. —Larry Price, W4RA, President, ARRL

□ I was delighted to discover at Dayton that *QST Canada* was no longer just a dream! With the launching of its own official journal, produced entirely within Canada, CRRL has entered a new era of service to Amateur Radio. On inspecting the premiere issue, the first two words that came to mind were "attractive" and "informative". Congratulations! —David Sumner, KIZZ, Executive Vice President, ARRL

□ What a pleasant surprise and I'm sure that every VE-type Canuck will like it. I only hope that all those competent writers — and I think there are many of them — will unlimber their pens/Underwoods/PCs. As you pointed out, we are not (yet?) so big that the warmth and

gentlemanly spirit of VE's are in danger, so let's see that *QST Canada* provides that spirit no matter how big we grow. —F. W. Marsh, VE3SB

□ I have just read my copy of the new *QST Canada* and I want to let you know that I agree with everything you said in your opening page statement. I like the look of the new publication and I'm sure that, as time goes on, *QST Canada* will get larger and better with each issue. —Joe Cusimano, VE3OV

□ Have just had the opportunity to preview the premier issue of *QST Canada* and wish to offer my congratulations to the CRRL gang for a fine business publication, a welcome addition to *QST* magazine. The Canadian advertising is extremely welcome and I was also pleased to see the familiar format used for "Section News" and "Public Service". I believe you have a winner in *QST Canada*. I wish you every success. —Bill Munday, VE5WM, Saskatchewan SEC

□ I received some advance copies of June *QST Canada* and it certainly is a first-class magazine. Congratulations! I look forward to contributing to it. —Carl Anderson, VE1BQO, Maritimes- Newfoundland SM

MANUEL KUDOS

J'apprécie grandement l'importance que détiennent la radio amateur dans notre pays. En plus d'offrir un loisir agréable à des milliers de

Canadiens et Canadiennes, elle permet également de promouvoir la communication et l'échange d'informations entre différentes régions. Pendant les situations d'urgence, elle est en mesure de fournir un service public vital.

Je me réjouis du fait que le *Manuel de formation - certificats de radio amateur* soit maintenant disponible dans les deux langues. Les plaisirs et bénéfices de la radio amateur seront maintenant plus accessibles aux Canadiens et Canadiennes de toutes les régions du pays. A titre de ministre de Communications au Canada, il me fait plaisir que Communications Canada ait pu offrir son soutien à votre organisme dans cette entreprise.

Permettez-moi de vous offrir mes meilleurs vœux de succès ainsi qu'à vos membres pour plusieurs années encore. —Flora MacDonald

SKITREK KUDOS

Congratulations to you and Canadian amateurs concerned in the historic and invaluable work being done in support of the USSR-Canada Polar Bridge Skitrek Expedition. I was so impressed with this great story about Amateur Radio that I have taken the liberty of translating the information into Japanese so it can be published in the next issue of *JARL News* and *IARU Region 3 News*. —Masayoshi Fujioka, JMIUXU, Secretary, IARU Region 3, Tokyo

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Odyssée Canadienne de ski Loppet/Mont Ste-Anne

Des aventures avec un répéteur portatif!

Par Jean-Paul Bélanger,
VE2 JPB

780 des Frênes est
Québec, PQ G1J 1J8

J'ai posé la question à plusieurs personnes avant d'apprendre ce que voulait dire "LOPPET". Je croyais que c'était la contraction de quelques mots comme on le constate pour certains sigles. Mais non, c'est tout simplement une expression suédoise qui signifie "course à ski". Donc le Loppet/Mont Ste-Anne c'est une course à ski de fond qui se déroule entre le Camp Mercier, dans la réserve faunique des Laurentides (60 km au nord de Québec) et le Rang St-Julien situé à 10 km à l'est du Mont Ste-Anne sur une distance de 65 km. Neuf provinces du Canada organisent une course semblable pour la promotion du ski de fond et sont regroupés sous l'appellation "Odyssée canadienne de ski".

C'est la troisième année consécutive, cette année, que les responsables de la course nous demandent d'organiser un réseau de communication afin de pouvoir contrôler efficacement le déroulement de l'activité. Pour plusieurs raisons, nous avons dû refuser de nous impliquer. Cette année, le CRAQ (Club Radio Amateur de Québec) a décidé d'apporter son concours en raison de la similitude de cette activité avec une opération du Réseau d'urgence, considérant les inconnus et les imprévus qui seraient rencontrés.

Nous avons à peine trois semaines pour nous organiser! Une première difficulté est évidente: une zone de silence le long du parcours. En effet, Pierre VE2 EZZ à qui la requête de Loppet avait été acheminée à titre de directeur des activités, connaît les lieux et affirme que les hautes montagnes disséminées sur le parcours, nuiront ou même empêcheront les

communications entre les deux posterelais de la vallée et les répéteurs VE2 UX et VE2 RMG. La solution proposée par Pierre: installer un répéteur de campagne.

C'est parti! D'une part on s'assure d'obtenir le matériel requis du Bureau de la protection civile, grâce à la collaboration de Jean-Guy VE2 FVT, coordonnateur du Réseau d'urgence RAQI de la région 03, et avec l'appui inconditionnel de Jacques VE2 DBR du comité de gestion.

D'autre part, notre spécialiste en réseaux de communication VE2 GHO étudie des cartes de contours altimétriques, griffonne des cônes de signaux possibles, repère les barrières naturelles où les signaux seront étouffés et décide du point où sera installé le répéteur.

On est mercredi le 24 février, à dix jours de la course. On est confiant que ça va bien aller, mais on serait plus sûr si on procédait à un essai. C'est décidé, dimanche prochaine six jours avant la course, on se rendra à Mauriceville (kilomètre 30 de la course à environ 40 km au nord de Ste-Brigette-de-Laval).

De là, des motoneiges tirent des traineaux sur lesquels on a attaché le répéteur, antennes, accumulateurs, génératrice, etc, et on rend au kilomètre 22 de la course. Simultanément, Guy VE2 AFO se rend au Camp Mercier en compagnie de Pierre VE2 HOP tandis que Léandre VE2 FLI pour se part, se rend au Mont Ste-Anne.

Les premiers essais, qui s'effectuent comme suit, nous prouvent l'existence des zones de silence précitées. Leandre VE2

FLI conduit en montoneige par un responsable de la course, se dirige vers le répéteur VE2 RUK à partir du rang St-Julien. Pierre VE2 HOP se rend quant à lui jusqu'au site du répéteur à partir du Camp Mercier en compagnie d'un autre responsable.

Lorsque le répéteur sera opérationnel, les courses de VE2 FLI et de VE2 HOP se feront à l'inverse. VE2 IPT qui a transporté le matériel à Mauriceville s'affaire à installer le répéteur avec Gaétan VE2 GHO. Les essais sont concluants. A titre d'exemple, Jean-Paul VE2 JPB en attente à Mauriceville entend toutes les communications mais n'en peut faire aucune même avec 30 watts et une 5/8. Aussitôt VE2 RUK en fonction, 350 mW et une rubberduck suffisent. Fatigués mais heureux, on revient en ville vers 19h00. Que samedi arrive!

Et c'est samedi. Dès 04h30, on entend des voix endormies qui s'identifient sur VE2 UX; on veut être sûr que personne ne passe tout droit.

Camp Mercier, 06h45, température -23 degrés C, fort vent du nord plus indice de refroidissement de -25 degrés — total -48 degrés. La course est donc retardée d'une demi-heure, on attend que le soleil saot plus haut. Pierre, Guy et Jean-Paul installent la station VE2 CQ après avoir fixé au bras de galerie du 2ème niveau du camp un tuyau de dix pieds surmonté d'une Ringo Ranger. Les communications s'établiront soit sur VE2 UX-RMG, VE2 RUK ou le cas échéant sur VE2 RCB. Suite à quoi, VE2 HOP arrime sur une motoneige un accumulateur marin de 12



V, un ampli de 30 W et une antenne 5/8. Pierre, avec son conducteur, patrouillera la piste jusqu'à 17h00. Il faut le faire.

Pendant ce temps, au rang St-Julien, VE2 GHO et VE2 FVB chargent le répéteur et son équipement à bord d'un hélicoptère qui les conduira au site du répéteur. Par la suite, VE2 GHO sera affecté au relais 22 kilomètres et VE2 FVB au relais 30 kilomètres. Alors on s'installe, la Ringo est montée sur son mat de 30 pieds, les raccordements sont corrects, on n'a qu'à démarrer la génératrice. Niet! Pourtant, la dimanche précédent elle avait démarrée au premier coup de "crank"! C'est vrai qu'il ne faisait que -10 degrés. Ca dépend sans doute de la bougie mais il n'y a pas de bougie de rechange. On l'essuie du mieux que l'on peut. Mais non! Le commutateur semble avoir quelque chose. On le démonte et le remonte. Rien à faire. Si on avait un bout de broche, on pourrait raccorder les deux accumulateurs en parallèle, parce qu'avec ce froid, on va manquer de "jus".

Soudain, la voix calme de VE2 FVT qui écoute depuis Québec appraise tout le monde: "les gars, vous avez des accumulateurs de 125 ampères qui peuvent alimenter le répéteur à haute puissance soit 20 watts pendant huit heures chacune!" Ouf!

Au rang St-Julien, Pierre VE2PSO, Denis VE2 AAE et Pascal VE2 IPT installent leur matériel et mettent VE2 CDX en fonction pour sa première sortie. Denis a même monté le long d'une clôture un onze éléments en direction de VE2 RUK. Le vent, ayant un moment donné déplacé l'antenne, on a vu Denis faire une transmission momentanée en le tenant à bout de bras, hi! Du Rang St-Julien, une motoneige a amenée Léandre VE2 FLI au relais 50 kilomètres tandis qu'un autobus conduisait les deux Alain VE2 LGA

Quelques notes supplémentaires

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1er : Pierre Harvey 3:53:12

2ème : Jocelyn Vezina 3:57:30

3ème : Yves Bilodeau 4:13:23

Les femmes:

1er : Julie Maheu 4:39:06

2ème : Lise Demers 5:07:00

Nombre de participants: 286

P.S.: Demandez à Gaétan VE2 GHO comment fixer une antenne quart d'onde sur un passe-montagne!



Le groupe qui a fait les communications lors de la course en ski de fond de 65 km Loppet/Mont St-Anne: (g-d) 1ère rangée en avant: Denis VE2 AEE, Pascal VE2 IPT, Alain VE2 AWW; 2ème rangée: Gaétan VE2 GHQ, Pierre VE2 HOP; 3ème rangée: Jean-Paul VE2 JPB, Pierre VE2 PSO, Guy VE2 AFO; et dernière rangée: Bernard VE2 FVB, Léandre VE2 FLI, et Alain VE2 LGA.



Chargement de l'hélicoptère.



Avant le départ: VE2 FLI, VE2 IPT et VE2 GHQ. Remarquer la ground plane 14 de longueur d'onde sur le casque de Gaétan VE2 GHQ qui a été surnommé R2D2, hi.

et VE2AWW au relais 42 kilomètres d'où ils patrouillaient selon les besoins.

Cette expérience très intéressante fut aussi enrichissante au niveau expérience. Les communications furent nombreuses et bien ordonnées. Nous nous sommes rendu compte que dans une situation d'urgence, il faut non seulement que le matériel soit en très bon ordre, mais aussi qu'il faut prévoir l'imprévisible.

En terminant, je peux vous dire que les organisateurs du LOPPET sont ne peut plus enchantés de notre contribution. Ils s'attendent bien l'an prochain pouvoir encore profiter de notre expertise; d'autant plus que le LOPPET 1989 aura une incidence internationale.

Merci encore à tous ceux qui de près ou de loin ont contribué au succès de cette activité.

Calendar/Calendrier

Conducted By Ray Staines, VE3ZJ

Attention: Deadline for items is the 1st of the second month preceding the month of publication. For example, information would have to reach CRRL Headquarters by January 01 to be included in a March issue.

Fredericton, NB: Atlantic Hamfest, 1988 August 19-21 at University of New Brunswick, Fredericton Campus. Sponsored by Fredericton ARC, Box 3567, Station B, Fredericton, NB E3A 5J8. Commercial displays, giant flea market, meetings, CRRL and CARF forums, tech forums, guest speakers, family activities, banquet and dance.

Brantford, ON: Brantford Amateur Radio Club Flea market, 0800-1300 EDT, 1988 August 13, at Woodman Park Community Centre, 491 Grey St. Admission: \$3 with children under 12 free. Commercial vendors, refreshments, auction sale. Talk-

in on VE3TCR, 147.75-15 Mhz and 146.52 Mhz simplex. For more information, contact Marvin Ford, VE3MWF, Box 1661, Brantford, ON, Tel 519-442-6298.

Toronto, ON: VE3CNE will operate daily, August 17-September 5, at 1000-2200 EDT, from the Amateur Radio display at the Arts and Crafts Building, 1988 Canadian National Exhibition. This is probably the premier public display of Amateur Radio activity in Canada. Amateurs in Toronto during Exhibition weeks are invited to visit the display, operate, and talk to the public about Amateur Radio. Amateurs are also encouraged to look for VE3CNE on the air, on voice, code, RTTY and packet radio, on 80-10 and 2 metres.

Smithers, BC: 10th Annual Northern Net Hamfest,

1988 September 3-5 at Riverside Park. Sponsored by Bulkley Valley Amateur Radio Society. On-site camping, flea market, code contest, homebrew contest, activities for the XYLs and kids, and barbecue. Talk-in on 146.28-88 Mhz. For more information, contact Northern Net Hamfest, Box 23, Smithers, BC V0J 2N0.

Sidney, BC: Hamfest, 1988 September 10-11 at Saancho Hall, Beacon Ave. Opens 10 AM. Admission \$5 per family, students \$1. Swapshop, auction, forums, seminars, contests, refreshments, pot luck dinner and Vancouver Island Club Conference. Talk-in: Call VE7EZ on 147.92-.32 MHz, 146.52 MHz simplex or on 80 or 20-metre phone. Sponsored by Victoria Shortwave Club. For more information, contact Larry Michaels, VE7GBY, 975 Tattersall Dr, Victoria. BC V8X 2X1. Tel 604-385-3237.

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Operation VX6OCO

By Ken Oelke, VE6AFO
7136 Temple Dr. NE
Calgary, AB T1Y 4E7



Calgary Amateur Radio Association (CARA) was instrumental in activating special-event station VX6OCO to commemorate the XV Winter Olympics in Calgary, Alberta. As soon as DOC approved the special call sign, CARA was in the market for a station manager to take on this large venture, and an awards manager to organize the flow of requests for the special award that CARA would introduce. Renne Nussbaumer, VE6RK, became station manager and Willy Markhasin, VE6JO agreed to look after awards. After filling these positions, the task was finding enough operators to keep the station on the air at least twelve hours a day. Fortunately, response from CARA members was excellent: ninety amateurs and one SWL signed up.

Facilities for the station were provided by the 18th Scout Group in Calgary SW. Before we could install the beautiful equip-

ment loaned to us by ICOM America, we did have to renovate the Scout hall. Out came our electricians, carpenters, painters and other club members with the skills needed to make VX6OCO's operating quarters presentable. Renovations complete, in came the IC-751A transceiver, the IC-2KL linear, the AT-500 antenna tuner and the IC-275A 2-metre radio. Antennas for 80 and 40 metres were set up, and checked out along with the existing tri-band beam. The tower received a set of Olympic rings. These were lit at night.

At 1400 UTC on January 1, VE6RK and VE6AEM put VX6OCO into operation. That set things into motion for the next sixty days. A daily roster, filled by volunteers, ensured the presence of at least two operators during each four-hour shift: 0900-1300, 1300-1700, or 1700-2100 hours. A few operators, including some from the ABC television crew, worked until 2359.

This was balanced by the few days when, due to unforeseen circumstances we lost an operator, or due to poor band conditions, VX6OCO was off the air.

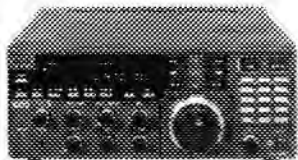
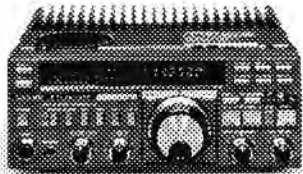
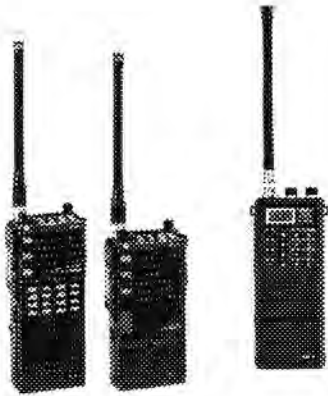
In the end, VX6OCO made over 8000 contacts. The operation was judged a huge success. Really, it was the enthusiasm of the CARA members that clinched this success. But we must not forget visiting operators who took some shifts to help out: operators from the US, England, Argentina and Bulgaria, as well as a good representation from all parts of Canada. The guest book held eighty-one signatures from visitors.

We did take a few photos of our operators in action, and also a group picture of everyone we could get together. On the last shift, February 29 at 0100 UTC, VE6RK and VE6XT pulled the switch on VX6OCO, ending a memorable operation.

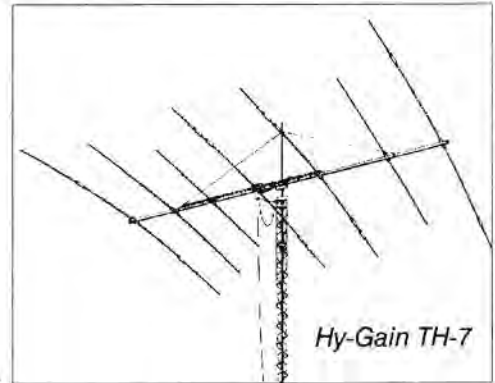


Top right: Randy Park, VE6CPO, operates VX6OCO during the XV Olympic Winter Games. (VE6RK photo) Above: Operators of VX6OCO: VE6s (top row, l-r) JX, CAK, VK, JK, MV, CCY, CT, JIM, CIZ, AVF, CPO, GK, AJM, CSO and RK; (new row, l-r) T, TZ, LP, CJZ, BOJ, CMD, CCO, EFF, CCM, ? and COD; (next row, l-r) CPG, NA, CBO, QY, CCL, AXB, AGP, JO, EY, ANL, CSZ, CNN, GQ and NU; and (bottom row l-r) SL, KC, CCB, AMR, AEM, AFO, AW, MD, CNG, CRP and AFO. (VE6COD photo)

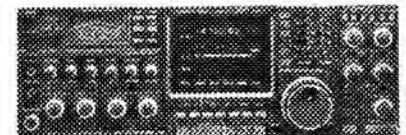
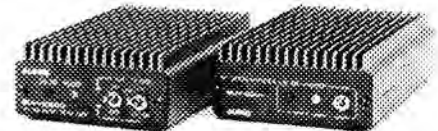
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Polar Skitrek a Success

At 1435 UTC on 1988 June 1, the thirteen Soviet and Canadian skiers, members of the Polar Bridge Skitrek Expedition, completed their ninety-day 2000-km trek from Cape Arktichesky in the Soviet Union, over the North Pole, to Ward Hunt Island, near Cape Columbia on Ellesmere Island in Canada. All were reported to be in good health and they walked ashore side-by-side, personifying the spirit of cooperation between the two groups of skiers, that made this first-time crossing of the Arctic possible.

Word of their safe arrival was passed, via Amateur Radio, to the Canadian base station, CI8C, at Resolute Bay, which then relayed the information to Ottawa and Moscow. Amateur Radio has provided the safety and housekeeping lifeline for the expedition.

With the exception of a loss, due to a sudden opening in the ice, of the Canadian radio equipment from the Soviet scientific ice station, NP-28, the entire communications system worked very well. This is a tribute to the Skitrek Radio Network team all amateurs who provided support for the expedition during its three months on the ice.

There will be a complete wrapup of the Polar Bridge Skitrek Expedition in next month's *QST Canada*.



Members of the Soviet-Canadian Skitrek Expedition reached the North Pole on April 26. Shortly after their arrival, they were joined by representatives of the Soviet and Canadian governments and the news media who arrived by helicopter from Soviet Ice Island 28, located 20-30 km to the south. (It's all south at the pole, hi.) This is what the party looked like. (Photo courtesy VE3CDM)

CRRL NOTES

□ Second Call to all CRRL members: You are hereby solicited for nominating petitions pursuant to an election for a Regional Director for your CRRL Region. Nominating petitions must arrive at CRRL Headquarters by

1600 EDT 1988 August 19. For further details, see this column in last month's *QST Canada* or contact CRRL Headquarters.

□ The CRRL Board of Directors held its 1988 Annual Meeting in Rexdale, Ontario, on July 2-3. A full report should be available next month.

□ CRRL Outgoing QSL Bureau Manager Don Welling, VE1WF, reports that during the first quarter of this year, 283 amateurs and Amateur Radio organizations had used the CRRL Outgoing QSL Bureau to forward some 45,790 QSL cards to bureaus in Canada, the US and around the world. Use of this outgoing bureau is free to CRRL members.

□ A small number of CRRL members have reported not receiving a copy of *QST Canada* with their June *QST*. If this has happened to you, please contact CRRL Headquarters in London, Ontario, as soon as possible and a copy will be forwarded.

CC NOTES

□ Communications Canada (CC, formerly DOC) pilot projects in volunteer examining, conducted in Montreal and in London, Ontario, are almost complete. CC is hoping to bring volunteer Amateur Radio examining to Canada soon. The current state of CC thinking is that any person recommended by a national or provincial Amateur Radio organization (e.g. CRRL, CARF, RAQI), an educational institution (e.g. school, college, university) or a person in authority (e.g. police chief, judge) might become an accredited examiner. CC would continue to control the makeup of all examinations and issue all certificates.

□ As a result of discussions with CRRL and CARF, CC has agreed to include transmitting equipment built from commercial kits in its definition of "commercial transmitting equipment". CC's proposal for a restructured Canadian Amateur Service limits holders of all but the highest-class certificate to "commercial transmitting equipment only". CC declined to accept a CRRL and CARF proposal that would have allowed holders of the lower-class certificates to use homebuilt transmitting equipment if that equipment had been checked out by a higher-class amateur.

MORE ON THE WIND PROFILER

□ The editorial staff of *Canadian Electronic Engineering* has joined the Amateur Radio press in expressing concern over a Communications Canada (CC, formerly DOC) decision to assign an Atmospheric Environment Service (AES) Clear Air Doppler Radar (CADR) "wind profiler" to 441 MHz. The article, entitled "Furious over Fed AES Radar Trick", takes the same positions as CRRL and other Amateur Radio organizations: The wind profiler is a METEOROLOGICAL AID and not

a RADIOLOCATION device, and has been assigned to the wrong band. The article expresses concern about interference to Amateur Radio operation in the 430-450 Mhz band, and about possible second harmonic (882 MHz) interference to Bell and Cantel cellular telephone stations located near the site of the first proposed wind profiler near Egbert, Ontario. □ On May 19, representatives of CRRL, CARF, the Toronto-area Ad Hoc Committee on VHF Utilization and other concerned amateurs met with representatives of Communications Canada (CC) to discuss the assignment of an Atmospheric Environment Service wind profiler to a frequency in the 430-450 MHz band. The amateurs presented their case through a professional-quality 15-minute video, and CC agreed to do further technical investigations.

NOTES FROM ALL OVER

□ Amateurs in the Kenora and Lake-of-the-Woods, Ontario, have been meeting with their counterparts in Minnesota to try to improve each other's emergency communications capabilities. The result: An agreement to cooperate that could see Canadian amateurs, coordinated by sheriffs and civil defence directors, assisting US amateurs in the US, and US amateurs, coordinated by local detachments of the Ontario Provincial Police, assisting Canadian amateurs in Canada.

□ A Montreal-area man, convicted of operating a private commercial radio without a licence, was recently sentenced to a \$600 fine or 30 days in jail.

□ Once again, the Foundation for Amateur Radio (FAR) is offering scholarships for licensed radio amateurs pursuing full-time studies at accredited universities, colleges or technical schools. Canadians are eligible to apply. For more information, write to FAR Scholarships, 6903 Rhode Island Avenue, College Park, Maryland 20740.

□ A reminder that there is still a \$15,000 shortfall in the Jack Ravenscroft Susceptibility Defence Fund. Even if you have donated before, please send a cheque to the JRSD Fund, Box 8873, Ottawa, ON K1G 3J2.

ABOUT THE COVER

Having a Canadian call directory in your shack is a little like having air conditioning in your car. Once you have it, you wonder how you ever got along without it. The *Canadian Amateur Call Directory* is an up-to-date easy-to-read listing of Canada's over 22,000 amateurs. Cost is \$20, \$18 for CRRL members. Add \$1.50 for shipping. Ontario residents add 8% PST. Order from CRRL Publishing, Box 7009, Station E, London, ON N5Y 4J9. You'll be glad you did.

The CRRL Field Organization Forum

SECTION MANAGER ELECTIONS: SECOND NOTICE

To all CRRL members in the Quebec and Saskatchewan Sections: You are hereby solicited for nominating petitions pursuant to an election for Section Manager. Nominations will be received at CRRL headquarters until 1600 EDT 1988 September 9. For further details, see this column in last month's *QST Canada* or contact CRRL Headquarters.

SECTION MANAGER ELECTION RESULTS

Congratulations to Carl Anderson, VE1BQO, who was recently elected Maritimes-Newfoundland Section Manager. Carl, who is presently Acting Section Manager, ran unopposed and will serve for an 18-month term that will begin on 1988 October 01.

Alberta: SM/STM/DEC: VE6ABC, ASM: VE6AMM, SEC/TC: VE6AFO, OO/RFI: VE6TY. May 14 Fleamarket and Barbecue was very well attended. Over 130 steaks served! A good time was had by all and lots of "fleas" changed hands. Field Day crew getting ready for the big weekend later this month. Other than Field Day, all club activities have ceased until September. One exception: the "Bring 'em Back Alive" program with the Alberta Motor Association continues each long weekend, reporting traffic flow on major highways in and out of Edmonton.

British Columbia: SM: VE7FB. British Columbia Public Service Corp Net meets on 3729 kHz, at 0130Z. Net Manager Jim, VE7BLO, reports high check-ins 159, low check-ins 80, and a total of 4023. Jim has requested that, in August, he would like to retire as Net Manager. So the BCPS Net starts looking for a new volunteer. British Columbia Emergency Net meets on 3650 kHz at 0600Z. Net Manager Fergie, VE7EJU, reports 295 check-ins. Both of these nets operate every day of the year and both handle traffic. BCEN is a CW net operating at 10 wpm and invites you to check in. BCEN is also a member of the National Traffic System and, twice each night, has a representative checking into RN7 for receiving or relaying messages. No better way to dispatch messages out of BC.

Manitoba: SM: VE4JA, ASM: VE4IX/MAX, SEC: VE4VR, STM: VE4OO, ATC: VE4ADP, OO/RFI: VE4FK. Spring has sprung. Hot too! 35 degrees C on May 31. By the time you read this, the International Hamfest will be history. Hopefully, we had a good time and will be back next year. FB job in putting the new *Canadian Call Directory* together. Only a few errors which I will forward prior to the next issue. My compliments to those who put this book together in a very short time. Speaking of callbooks, the Manitoba Digital Emergency Communications Group (MDECG) has put together a very good up-to-date *Manitoba Call Book* which I recommend every amateur in Manitoba purchase for \$8. A very good buy for a worthy cause. All funds raised go back into Amateur Radio. It is surprising the number of individuals interested in obtaining this callbook for nothing or who take the liberty to xerox a copy for their friends when (c)1988 appears on each page. No one wants to sue for copyright protection, but this can happen. A big thanks to Terry, VE4VR, Murray, VE4TV, Al, VE4ADA, Bill, VE4UB, Rick, VE4ALN and others involved in this project. Some time ago, I complimented Doris, VE4APL, on her dedicated work

Section Managers of the CRRL: For purposes of the CRRL Field Organization, Canada is divided into seven Sections, each headed by an elected Section Manager (SM). Your SM welcomes reports of individual and club activities. CRRL Field Organization appointments are available for a wide range of volunteer interests. Check with your SM for details.

Alberta	William Gillespie, VE6ABC, 10932 68th Ave, Edmonton, AB T6H 2C1 (403-438-2510)
British Columbia	Ernest Savage, VE7FB, 4553 West 12th Ave, Vancouver, BC V6R 2R4 (604-224-5226)
Manitoba	Jack Adams, VE4JA, 227 Davidson Ave E, Dauphin, MB R7N 2Z4 (204-638-9270)
Maritimes-Nfld	Carl Anderson, VE1BQO, 25 Lawnsdale Dr, Dartmouth, NS B3A 2N1 (902-469-9756)
Ontario	Larry Thivierge, VE3GT, 34 Bruce St W, Renfrew, ON K7V 3W1 (613-432-5967)
Quebec	Harold Moreau, VE2BP, 80 rue Principale, St-Simon PQ J0H 1Y0 (514-798-2173)
Saskatchewan	Bruce Rattray, VE5RC, 128 Durham Dr, Regina, SK S4S 4Z2 (306-584-2059)

for the fraternity while caring for her husband whose health was gradually failing. Since that time, her husband, Bill, VE4ANI, became a Silent Key. Doris, VE4APL, being the wonderful lady she is, donated Bill's specialized radio to another white cane amateur, Charlie, VE4LB. Doris: Thank you for your generosity. Hopefully, we will have you back on the HF bands with a new rig in the near future. Graham Watt, VE4GRW, became a Silent Key on May 24. Sympathies to the Watt family.

Maritimes-Newfoundland: SM: VE1BQO. Just over 300 Maritimes radio amateurs attended the Downeast Fleamarket '88 in Halifax on May 28. The 2-metre transmitter hunt was won by Leigh, VE1GA, and XYL Frances. Halifax and Dartmouth ARCs thank all who attended and helped out. Two amateurs from our section, Andy, VE1ASJ, and Rick, VOISA, are back from operating C18C for the Canada-USSR Trans-Polar Skitrek Expedition. We look forward to hearing about their experiences at the Atlantic Hamfest, 1988 August 19-21, UNB campus in Fredericton. Get last minute hamfest information from Murray, VE1TE, or John, VE1BF, VE0MMA is now operating from the original radio shack of the CSS Acadia, a 75-year old hydrographic survey vessel permanently berthed at the Maritime Museum of the Atlantic in Halifax. An attractive commemorative QSL card will confirm contacts with VE0MMA, a joint project of Halifax ARC and the Museum. VE0MMA's operating schedule will be published here next month. Want to improve your CW operating skills through net operation? Try the Lunenburg County (NS) ARC VE1LUN Slow Net, 3695 kHz at 2100 AST/ADT. The net is controlled but does not handle formal traffic. NCs are John, VE1CZC, Peter, VE1BZI, or Martin, VE1AUZ.

Ontario: SM: VE3GT, BM: VE3GSA, SEC: VE3GV, STM: VE3CYR, TC: VE3EGO. Subject to Privy Council approval, target date for implementation of the new certificate structure is expected to be mid-to-late 1989. When this takes effect, we might see an influx of newcomers into our great hobby that we haven't seen since the late 70s. We should all prepare for this possibility because, if others are to learn from those already active, we must be ready to share our knowledge and expertise to guide those getting into the hobby for the first time. As I've mentioned before, club courses should include a few lessons on proper operating technique. Now may be just the time to start if you haven't already. Niagara Peninsula ARC, through the efforts of VE3BGH, are sponsoring a new award to recognize that elite group of amateurs known as "homebrewers". Details are available from Len, VE3BGH. VE3CNE will again be in operation from the Canadian National Exhibition in Toronto, August 17 to September 5, 1000 to 2200 daily. There will be a special QSL for contacts with this station. VE3WV is pull-

ing up stakes in Thornhill and moving to Renfrew. At a recent Windsor ARC meeting, VE3LPM and VE3LHV demonstrated the ability of packet radio to send text and graphics in colour between stations. Peel ARC is one of the Amateur Radio clubs that provides a location for Southern Ontario Packet Radio Association (SOPRA) digipeaters and, as such, provides a valuable service to the amateur community. VE3PTZ is on his way to VE7 land while VE3SPT leaves Windsor for Ottawa. Regretfully, I report that VE3JAA in Thunder Bay has become a Silent Key. Please note that, when sending an SASE to the United States, the postage rate to Canada from the US is now \$.30 for a first-class letter. New calls in the section are VE3KBD, VE3GJS, VE3RNB, VE3GFA, VE3MID, VE3PZS, VE3WEM, VE3GRV, VE3EPM, VE3RFS and VE3LJW and his XYL VE3PBV. Upgrades to Advanced are VE3INB, VE3HAB, VE3SLL, VE3EBB, VE3OGE, VE3TUR and VE3CJF. The Fourth Packet Radio Symposium will be held in Barrie on September 17 at Georgian College.

Quebec: SM: VE2BP, SEC: VE2LYC, STM: VE2EDO, BM: VE2ALE. Welcome to Yves, VE2LYC, who is now Quebec Section Emergency Coordinator. The Sorel-Tracey Hamfest was a great success. Congratulations to all members of VE2CBS. VE2DBR is now VE2AB. Felicitations à Victor, VE2GDZ, qui a été réélu président de l'UMS. Prompt rétablissement à Eugène, VE2RA, qui est à l'hôpital.

Saskatchewan: SM: VE5RC. New records are being set daily with coax- melting weather and temperatures of 38-42 degrees C this June. Saskatchewan hams reporting a Doppler effect on all transmissions as antenna elements expand and droop in the heat. RARA Fleamarket and Social on June 4 was a great success. Hats off to the committee. 400 copies of the CRRL-CARF Provincial Survey distributed so far. Returns proving very interesting. Return your survey to VE5WM. Ron, VE5AB, indicates Prince Albert moving towards excellent 2-metre coverage of the northern area. RARA will be using VE5QST on Field Day. Regina hams will provide RF for Girl Guides International Jamboree at Echo Valley Provincial Park, July 12-22. Saskatchewan hams may use CG5 prefix for 1989 August Summer Games. Public service events: Cosmopolitan Orange Drive with VE5s AAA, AFQ, CS, OI and WM on May 2; Muscular Dystrophy and Saskatchewan Cycling Association "Wheelathon" with VE5s OI, AAA and WM on May 25; Blind Sports Association "Run for Light" with VE5s RN, OI, EE, RC, AAA, ELJ, GHC, TH, AHW, WM, and UU on May 27; and Cystic Fibrosis-Kinsmen-Zellers "Moonwalk" with VE5s UU, AAA, GHC, BW, ELJ, TH, AHW and WM on May 29.

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	18.5 - 21.6 MHz	Safety Trips:	Plate Current: 1.3A
	24.8 - 25.0 MHz		Grid Current: 120mA
	28.0 - 30.0 MHz		Filament Volts: 12.8V DC
Drive:	60-80 Watts		Reverse Power: 500 Watts
Input SWR:	1.5:1 (Slightly higher on WARC)		Mistuned: 1600 Watts diss.
Harmonic Suppression:	-45dB	Controller Connectors:	Key In 1/4" phone jack
Intermod Products:	-45dB		Key Out RCA
ALC:	0 to -10V DC		ALC RCA
AC Power:	230V AC, 60Hz		PTT RCA
Plate Voltage:	2250 Volts, Nom.		RS-232 Female D (25 pin)
Input/Output Impedance:	50 ohms, unbalanced		RF Deck Male D (25 pin)
Output Configuration:	Pi-L	RF/Power Supply Connectors:	RF In BNC
Motors:	Gearhead DC		RF Out SO-239
Interlocks:	3 Cabinet and 1 HV Shorting	AC Power:	8-foot cord with stripped ends
		Dimensions:	Controller: 10"W x 8"H x 9"D
			RF/Power Supply Deck: 14"W x 24"H x 13"D

Kingston-area ARES

For years, we Kingston-area hams conducted exercises to prepare ourselves for an emergency. Three years ago, we decided to formalize things. We applied to and were accepted by ARES. George Samson, VE3LXA, was our first Emergency Coordinator (EC) and under his leadership, we made a good start on tightening up our organization and improving our skills and facilities. Yours truly, as the current EC, with Assistant Emergency Coordinators (AECs) Frank, VE3FMF, Peter, VE3LYW, and Bill, VE3MNV, are building on this work.

Our ARES organization consists of thirty-five amateurs. Each Tuesday at 1915 local time, we hold a short net on the Kingston 2-metre repeater. After check-ins under the direction of a rotating net controller, news items and announcements are made by the EC and AECs.

Early on, we searched for a means of identifying ourselves in a disaster. We considered hard hats with ARES decals. We considered luminescent vests. We finally settled on arm bands. These are red canvas bands about five inches wide with an ARES patch sewn on. They are held on the arm with Velcro. Materials for each band was about five dollars. Labour was free, courtesy of Bill, VE3MNV, assisted by his XYL (or maybe the other way

around, hi!)

We also put together a communications plan which will be described in a later column. Copies of this plan were distributed to each ARES member and most of the area's emergency response agencies, including the Red Cross, with which we have a good working relationship.

Since joining ARES, we have conducted several emergency exercises on our own. These were designed and directed by Bert, VE3EW. Also, we have participated in two emergency exercises organized by others. Two and one-half years ago, the Disaster Planning Sub-committee of the Kingston Health Sciences Complex held a major exercise dubbed "Kaper-85". The simulated scenario was the collapse of a large arena during a performance. Student volunteers acted the parts of seventy-five casualties. Teams from Kingston Fire Department rescued them, taking them to a safe area beside the arena for triage. Then they were taken by ambulance to one of two acute care hospitals in Kingston. To make room for them, some twenty-five patients were moved from these hospitals to four chronic care institutions in the area.

Kingston-area ARES provided three 2-metre nets. One handled communications be-

tween the two acute care hospitals. Another covered communications between the acute care hospitals, the chronic care hospitals and the disaster site. The third provided personal communications for the exercise coordinator and his assistants.

Then later, last fall, Kingston Township planned and conducted "Exercise Autumn Leaf" — a simulated collision between a loaded school bus and a road tanker containing a hazardous, inflammable chemical. (These days, school bus accidents are very popular with emergency planners across the country.) In this exercise, the emergency response team had to deal with thirty-five casualties (one fatal) and the hazard to the nearby population created by the tanker's lethal contents.

This exercise was designed primarily to test the township's emergency plan and response organization. This included the township's Emergency Control Group, the police, fire, ambulance, works and social service departments, Kingston Red Cross, Ministry of the Environment support, and, of course, our ARES group.

ARES provided only two nets for this exercise. The exercise director's net consisted of a net control station (NCS) and five stations in the field, all Continued on page 20

CRRL Field Organization Reports 1988 May



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 656:

Reporting	ARES Members
VE3GV (KG6MU and VE3s EGM, FUN, GNW, HNH, HSF, IFR, JJA, KXB, LBU, LFW, LKI, MB)	549
VE5WM	-
VE6AFO	-
VE7FB	107

National Traffic System

Net (Mgr)	Sess	4023	12,122
APN	31	-	127
KTN (VE3AJN)	13	94	12
OLN (VE3POJ)	26	478	30
OPN (VE3BUO)	31	506	114
OQNI (VE3GSO)	29	57	45
OQND (VE3GSO)	28	71	46
OQNE (VE3CYR)	30	144	98
OQNL (VE3GSO)	25	91	59
MEPN (VE4LB)	31	926	15
MMWX (VE4TE)	30	494	24
MTN	18	135	25
APSN (VE6AKY)	-	840	8
SWN	28	656	0
SATN	14	33	5
ATN (VE6XV)	-	143	38
AARES (VE6AMM)	-	170	65
BCEN (VE7EJU)	31	740	295
BCPS (VE7BLO)	-	4023	-

CRRL Section Traffic Manager Reports

Call	Orig	Rcvd	Sent	Divd	Total
VE1BKN	-	-	-	-	67
VE1VX	-	-	-	-	43
VE1ALU	-	-	-	-	10
VE1IH	-	-	-	-	7
VE2BP	4	19	17	17	57
VE2EDO	7	16	17	10	50
VE2WH	2	14	11	12	39
VE2JN	3	12	8	5	28
VE2EC	3	2	6	4	15
VE3FAS	1	87	88	0	175
VE3CYR	0	94	58	2	154
VE3GSO	0	90	56	4	150
VE3ORN	3	39	56	8	106
VE3ISD	8	38	46	8	100
VE3GNW	0	27	44	0	71
VE3DPO	0	47	13	0	60
VE3GT	0	14	42	0	56
VE3BUO	0	35	2	2	39
VE3SB	0	16	21	0	37
VE3WG	1	14	14	0	29
VE3EAM	4	6	4	6	20
VE3KCZ	0	8	4	4	16
VE3NVJ	2	5	6	2	15
VE3AJN	0	8	4	0	12
VE3EWD	0	0	2	0	2
VE4JR	10	30	20	12	72
VE4JA	12	20	9	12	53
VE5AGM	1	6	1	6	14
VE6XV	-	-	-	-	30
VE6CHK	-	-	-	-	24
VE6ABC	-	-	-	-	8
VE6CPP	-	-	-	-	3
VE7BNI	20	95	136	24	275
VE7EJU	6	105	82	6	199
VE7EJW	0	44	35	21	100
VE7BNH	0	26	56	4	86
VE7XA	2	34	33	11	80
VE7FB	3	20	10	14	47
VE7FME	1	12	17	3	33
VE7EGM	0	9	12	3	24
VE7EIR	0	2	6	0	8
VE7BCF	0	1	6	0	7
VE7BZI	1	2	1	2	6

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 (118), VE4LB (110), VE3ORN (102), VE3DPO (89), VE4IX (89), VE4RO (88), VE7EJU (87), VE7EJW (75), VE7BNI (73), VE3CYR (68), VE3GSO (63), VE4JR (60)

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.

Service and Specialized Nets

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

Net (Mgr)	Sess	QNI	QTC
CRRL ARES			
CANADA (VE3GV)	4	96	3
CRRL ARES			
ONTARIO (VE3GV)	1	4	1
ONTARS (VE3AQ)	30	-	12,122

Teaching Amateur Radio

Another fall season is approaching — that time of year when lots of folks start thinking that this will be “the year” in which they’ll get their Amateur Radio license. You can be the one to help, the one to make it finally happen.

As an Amateur Radio instructor, you should have an interest in Amateur Radio, some knowledge of electronics, and a desire to help others enjoy the greatest hobby in the world. Also, some experience in education would help. Well, three out of four isn’t bad. Let me try to help you with the fourth item, since, for the next few months, that’s what this column will be about. I’ve had over twenty years of Amateur Radio classes in which to get things right!

This first column is directed to anyone who might be considering teaching an Amateur Radio course, or who might already be active in this field. I’ll share some opening thoughts and ideas — “hints and kinks” — and give you some food for thought. Like teaching, this should become a two-way dialogue, and later, through this column, I hope to be able to pass along some of your favourite ideas.

First, much of the knowledge you will require is available in magazines, books and study guides. These can even provide an approach to teaching Amateur Radio. Remember, however, that you need to relate these materials to your own situation. In other words, a book or study guide can tell you what to teach, the order in which to teach it and what to emphasize, but you still must tailor everything to the facilities at your disposal and the needs of your students.

I’m going to describe a complete Amateur Radio course and some of the practices I have adopted over the past 22 years. Whether you are just thinking of starting a course, actually beginning one or helping with one, *please, don’t be overwhelmed with the total picture*. Remember, like a puzzle, the whole picture is made up of smaller pieces which finally come together. Work on each piece individually, share the work with someone else and ask questions when you don’t have the answer. *Don’t be an expert — not just yet!*

Environment

Physical factors can really add to the effectiveness of your teaching. Features like room ventilation, lighting and equipment play important roles. Therefore, a major goal of any class should be to create an environment conducive to learning. Twenty to thirty students can fall asleep in fifteen minutes in a small room without re-cycled air... well, most of them can anyway. Closely related to air quality is temperature. Slightly cool rooms tend to keep people alert. Of course, snow drifting across the floor is definitely out!

Teaching

Effective teaching principles keep students alert and interested. One such principle is

KISS: Keep It Simple, Stupid. Instructors will sometimes get so bogged down in detail that the point of their teaching becomes lost. Remember that you are not trying to impress students with your knowledge. They will be more impressed if they can understand the subject. Complicating a lesson by introducing too much detail can lead to overload. We can only absorb a certain number of new ideas in given period of time.

Materials

The cost of resource materials can range from free to over \$25. Communications Canada (CC, formerly DOC) can supply you with free sets of RIC-24 and RIC-25, the syllabus and regs. They also have other useful free materials. Just drop in at your local CC office and tell them what you’re doing. Then there’s...

QST, covering most aspects of Amateur Radio.

CQ, 73, and *Ham Radio* covering operating, awards and contests, building and high tech.

The *CRRL Amateur Radio Licensing Manual**

The *CRRL Regulations Book*

The *CRRL Questions and Answers Book* and *Amateur Radio Question Banks**

ARRL publications such as: *Tune in The World*, *Understanding Amateur Radio* and *First Steps in Amateur Radio*, all available from CRRL Headquarters in London.

Finally, handout material prepared by you is always helpful.

Equipment

For demonstrations, I suggest the following: a variable DC power supply, a VOM or VTVM, an AF signal generator, an RF signal generator, an oscilloscope, a general-coverage receiver, an older tube-type transmitter, a two-meter FM transceiver, and lots of capacitors, resistors, and inductors from the junk box. None of these items need be state-of-the-art and can be found, scrounged or borrowed for the course. Remember to keep things simple. Old Heath and EICO signal generators can be found at most Amateur Radio flea markets or gathering dust in attics. A Johnson Ranger is an excellent demonstration transmitter and an old ICOM IC-22 is fine for two-meter FM.

Classes

My classes are in the evenings, three hours long, once a week for twenty exciting weeks. Over the years I have developed the following plan. I start with 15 minutes for homework, questions and settling in. Then, while everyone is still fresh, there is 20 minutes’ code practice. This is followed by the main lesson of the evening. It lasts 45-60 minutes. At the end of this, we are ready for a nice long break. I use this time to set up for the last part of the class. The last part of the class can be very interesting and deals with topics that bring all the other parts of the class together. This part

may involve the use of slides, movies, and video presentations on Amateur Radio; visits and/or demonstrations by local experts in RTTY, PACKET, OSCAR, DX, QSLing, traffic handling or contesting; visits by the local CC Radio Inspector or the local Amateur Radio club president; receiver set-up and listening to various modes on the various amateur bands; transmitter tuneup by students, into a dummy load; practice QSOs across the room using the transmitter fed into a dummy load; computer applications in Amateur Radio: CW, RTTY, propagation prediction; pre-arranged visits to local amateurs; or calculating, measuring and cutting a dipole and tuning it to resonance using a GDO, noise bridge or SWR meter.

Near the end of the evening, we stop 15 minutes early to allow some students to leave while others ask questions requiring individual attention.

Code

I make up fifteen code tapes with scripts. These begin at a comfortable level and gradually move toward higher speeds as the weeks pass. The students receive “new” tapes every week in exchange for their “old” ones. Since the tapes are continually updated, no memorization of material takes place. For sending, oscillators and keys are sold during the first few evenings of the course.

Conclusion

As I said at the beginning, it looks like a huge puzzle, but by preparing the individual pieces carefully, the picture comes together very nicely. Remember to invite local amateurs to contribute to your classes, and have them tell your students about their interests. And do your best to communicate your own enthusiasm about Amateur Radio. Only by sharing your special interests and skills can you hope to have others join us and become active members of our fraternity. 73.

[* Aussi disponible en français.]

Silent Keys

Administered By Ray Staines, VE3ZJ

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

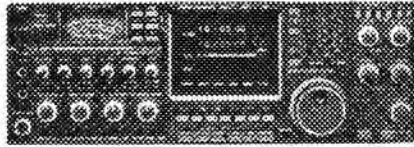
VE1ABZ, Norris L Hayward, Hartland NB
VE2GVP, Pierre Langlois, St-Paul, PQ
VE3BSP, Gordon J Preston, Islington, ON
VE3DAX, Howard Vardon, Ajax, ON
VE3EQU, Geoffrey C Basden, Amherstburg, ON
VE3GVL, Ed Bilkey, Willowdale, ON
VE3KTR, Wray Rutherford, Brantford, ON
VE3MEN, George Wither, Islington, ON
VE3NCN, Bert Crewson, West Flamboro, ON
VE3NLB, Larry Mahon, Peterborough, ON
VE3OY, Ernest Aylesworth, Brantford, ON
VE3TW, Cyril Williamson, St Catharines, ON
VE4BI, Joseph L Matthews, Winnipeg, MB
VE7BZO, John Ohligschlaeger, Ft Langley, BC
VE7KU Les Hammer, Port Alberni, BC
VE7WM, Bill McCarter, Vancouver, BC
VO1EL, Russel N Cave, Sain John’s, NF
VO1KQ, Sheldon Boone, Clarke’s Beach, NF

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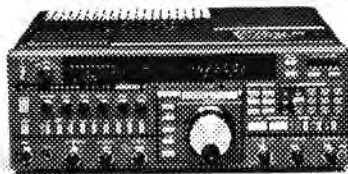
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IC02AT	539
ICu2AT	459

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TM221A	549
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IOTA = IslanDXing

The author, James Michner, and I have at least one thing in common. We both suffer from *neosomnia*... a madness for islands. As a traveller, I have enjoyed visiting islands from Crete in the east and Hawaii the west to Trinidad and Tobago in the south and, most recently, Baffin, Cornwallis and Ellesmere Islands in the north. As a geographer, I must teach about their formation, their problems and their successes, their economies and their peoples. As an active radio amateur, I continue to enjoy talking to other amateurs located on islands far away and close to home.

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Canadian Islands for IOTA Awards

ARCTIC ARCHIPELAGO - includes all islands north of 60-N

- NA-07 a. AKPATOK IS
- b. SOUTHAMPTON group (includes COATES, MANSEL, NOTTINGHAM, SALISBURY)
- NA-47 c. BAFFIN group (includes PRINCE CHARLES, RESOLUTION, etc)
- NA-06 d. NORTHWEST PASSAGE group (includes BANKS, PRINCE OF WALES, SOMERSET, VICTORIA, etc)

QUEEN ELIZABETH ISLANDS

- NA-08 e. ELLESMERE IS
- NA-43 f. SVERDRUP IS (includes AMUND RINGNES, AXEL HEIBERG, ELLEF RINGES, etc)
- NA-09 g. PARRY IS (includes BATHURST, CORNWALLIS, DEVON, MELVILLE, PRINCE PATRICK, etc)

EAST COAST ISLANDS

- NA-27 h. NEWFOUNDLAND island
- NA-44 i. BELLE ISLE
- NA-63 j. SABLE IS
- NA-10 k. CAPE BRETON group (includes MADANE, ST PAUL)
- NA-14 l. GRAND MANAN group (includes BRIER, CAMPOBELLO, DEER, LONG)

- NA-81 m. LA HAVE IS (includes TANCOOK)
- NA-68 n. MISCOU group (includes LAMEQUE, etc)
- NA-29 o. PRINCE EDWARD ISLAND
- NA-77 p. ANTICOSTI
- NA-38 q. MAGDALEN IS
- NA-64 r. HARRINGTON IS

HUDSON BAY ISLANDS

- s. AKINISKI group (includes BEAR, CHARLTON, NORTH and SOUTH TWIN, etc)
- t. BELCHER ISLANDS
- u. OTTAWA ISLANDS

WEST COAST ISLANDS

- NA-75 v. GULF IS (includes GABRIOLA, GALIANO, MAYNE, PENDER, SALT-SPRING, SATURNA, THETIS, etc)
- NA-61 w. PRINCESS ROYAL group (includes BANKS, CALVERT, KING, PITT, PORCHER, etc)
- NA-51 x. QUEEN CHARLOTTE IS

most recent IOTA addicts, hi. An up-to-date directory of IOTA islands around the world, and rules for the IOTA awards, is available for \$US 3 from G3KMA at La

Quinta, Mimbridge, Chobham, Woking, Surrey, England GU24 8AR. QRX for more island news in an upcoming *QST Canada*.



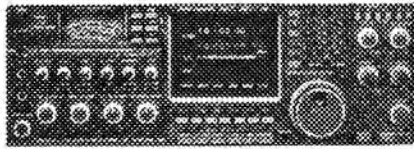
(Left) To help cool you down on those lazy, hazy hot summer days, study this photo of Eureka on Ellesmere Island, taken at the nine-man Atmospheric Environment Service weather station during an April 14 getaway from operating duties at CI8C. (Centre) While in Eureka (NA-08), we met Chief Radio Operator, Darrin Elke of LaSalle, Manitoba. Darrin has promised to activate VE8MA once a new antenna rotator arrives. As luck would have it, a new FT757GX had just arrived. Operating time was short, but we did have a nice QSO with John, G3AAE, an old-time DXer. (Right) While we were on the Eureka tour, John Hutchinson, better known as Kip, CI8JH took over at CI8C. When not handling Skitrek traffic on 14.121 and 14.182 Mhz or on the secret channels, Kip was active on CW. Not unusual. Kip is the only Canadian on the CW DXCC Honor Roll. Kip, whose home call is VE3CKF, is a self-employed radio-TV technician. (VE3XN photos)

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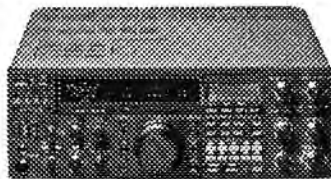
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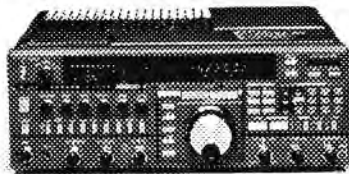
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FT212RH	679
FT727R	769
FT23R	399
FT73R	429

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NA-08	e. ELLESMERE IS
NA-43	f. SVERDRUP IS (includes AMUND RINGNES, AXEL HEIBERG, ELLEF RINGES, etc)
NA-09	g. PARRY IS (includes BATHURST, CORNWALLIS, DEVON, MELVILLE, PRINCE PATRICK, etc)
EAST COAST ISLANDS	
NA-27	h. NEWFOUNDLAND island
NA-44	i. BELLE ISLE
NA-63	j. SABLE IS
NA-10	k. CAPE BRETON group (includes MADANE, ST PAUL)
NA-14	l. GRAND MANAN group (includes BRIER, CAMPOBELLO, DEER, LONG)
NA-81	m. LA HAVE IS (includes TANCOOK)
NA-68	n. MISCOU group (includes LAMEQUE, etc)
NA-29	o. PRINCE EDWARD ISLAND
NA-77	p. ANTICOSTI
NA-38	q. MAGDALEN IS
NA-64	r. HARRINGTON IS
HUDSON BAY ISLANDS	
	s. AKINISKI group (includes BEAR, CHARLTON, NORTH and SOUTH TWIN, etc)
	t. BELCHER ISLANDS
	u. OTTAWA ISLANDS
WEST COAST ISLANDS	
NA-75	v. GULF IS (includes GABRIOLA, GALIANO, MAYNE, PENDER, SALT-SPRING, SATURNA, THETIS, etc)
NA-61	w. PRINCESS ROYAL group (includes BANKS, CALVERT, KING, PITT, PORCHER, etc)
NA-51	x. QUEEN CHARLOTTE IS

most recent IOTA addicts, hi. An up-to-date directory of IOTA islands around the world, and rules for the IOTA awards, is available for \$US 3 from G3KMA at La

Quinta, Mimbridge, Chobham, Woking, Surrey, England GU24 8AR. QRX for more island news in an upcoming *QST Canada*.



(Left) To help cool you down on those lazy, hazy hot summer days, study this photo of Eureka on Ellesmere Island, taken at the nine-man Atmospheric Environment Service weather station during an April 14 getaway from operating duties at CI8C. (Centre) While in Eureka (NA-08), we met Chief Radio Operator, Darrin Elke of LaSalle, Manitoba. Darrin has promised to activate VE8MA once a new antenna rotator arrives. As luck would have it, a new FT757GX had just arrived. Operating time was short, but we did have a nice QSO with John, G3AAE, an old-time DXer. (Right) While we were on the Eureka tour, John Hutchinson, better known as Kip, CI8JH took over at CI8C. When not handling Skitrek traffic on 14.121 and 14.182 Mhz or on the secret channels, Kip was active on CW. Not unusual. Kip is the only Canadian on the CW DXCC Honor Roll. Kip, whose home call is VE3CKF, is a self-employed radio-TV technician. (VE3XN photos)

CRRL BOOKSHELF

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Canadian Amateur Question Bank	10.00	9.00	112	.75	<input type="checkbox"/>	#6 Computer Network Conference	14.00	12.50	601	.75	<input type="checkbox"/>
Canadian Amateur Regulations Book	10.00	9.00	190	.75	<input type="checkbox"/>	Gateway to Packet Radio	14.00	12.50	900	.75	<input type="checkbox"/>
Canadian Amateur Code Tapes	OT 38.00	34.25	200	2.50	<input type="checkbox"/>	Get *** Connected to Packet	18.25	16.50	620	.75	<input type="checkbox"/>
Canadian Advanced Question Bank	10.00	9.00	116	.75	<input type="checkbox"/>	RSGB Amateur Radio Software	21.25	19.00	310	1.00	<input type="checkbox"/>
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Banque de questions d'exams premiere	10.00	9.00	113	.75	<input type="checkbox"/>	Basic Guide to VHF-UHF	10.75	9.50	790	.75	<input type="checkbox"/>
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First Steps in Radio	8.00	7.25	470	.75	<input type="checkbox"/>	Proceedings '87 MidAtlantic VHF	14.00	12.50	930	.75	<input type="checkbox"/>
OPERATING AIDS					OPERATING						
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Super Log Book	OT 5.25	4.50	125	.75	<input type="checkbox"/>	Radio Frequency Interference	5.75	5.25	532	.75	<input type="checkbox"/>
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1988 Net Directory	OT 2.00	1.50	822	.75	<input type="checkbox"/>	Fifty Years of ARRL	5.75	5.25	460	.75	<input type="checkbox"/>
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ARES Circular Patch (4")	OT 4.00	4.00	161	.75	<input type="checkbox"/>	Antenna Notebook	11.50	10.25	405	.75	<input type="checkbox"/>
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Mini-Mobile Mount

Ted Hamer, VE3LI has submitted a idea too good not to share. Looking for a place in his car to mount his new subcompact 2- metre rig. Ted, who like most of us, has turned his back on the Foul and Noxious Weed, decided to put his now redundant ashtray to good use. A detailed description of what Ted did would apply only to those who own exactly the same car and rig as he does. However, the concept will be of interest to all.

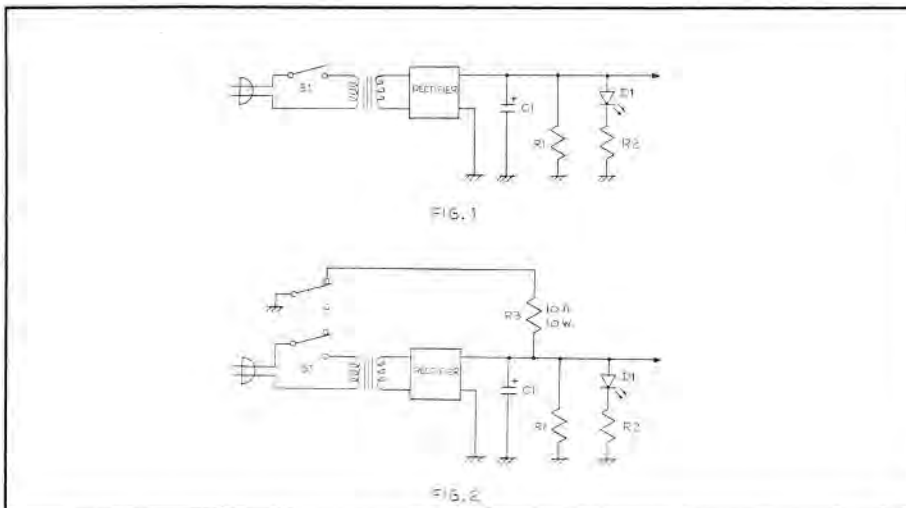
All you have to do is invent a way of mounting your rig to the front of your ashtray. If you don't want to deface your ashtray, buy another one at the local car dealer or auto wrecker. Most modern tiny rigs have a removable top cover which can be bolted directly to the face of the ashtray. If necessary, use spacer washers to help the rig stay clear of paraphernalia on the dashboard. At worst, you may have to fashion a simple bracket.

What you now have is a rig that can be popped out to a handy operating position, and a rig that can easily be removed, tray and all, for safe storage in the glove compartment or for use outside the car. Depending on its size, the tray that used to be full of ashes can now be used to store a microphone, spare fuses, folded lists of repeater frequencies and various bric, not to mention brac. The car ashtray is often mounted close to the cigarette lighter which is usually separately fused — a good place to hardwire or plug in the mobile rig.

If you require further information, VE3LI graciously offers to send you his car and his rig in exchange for a certified blank cheque.

SLOW LEAK

Murph, VE3ERP (that's me, the conductor of this column), has a pet peeve. He gets all nervous and upset when he turns off a piece of gear and the LEDs stay lit until they Slow Leak themselves into Oblivion. What causes this is shown in Fig 1, a diagram of a typical power supply.



S1 is the on-off switch, C1 is the filter capacitor, R1 is the bleeder resistor and D1, with its associated voltage-dropping resistor R2, is your typical LED. Of course, there may be several LEDs in a piece of gear. R1, the bleeder resistor, is the culprit. R1 is usually a relatively high resistance so it will not consume too much power while the gear is being used. Its major functions are to provide a minimum load when the equipment is using little or no power, and to bleed off any electrical charge remaining in C1 after S1 is turned off. If C1 were left charged, it could later provide an unauthorized jolt to something or someone not expecting it. If you look up time constants in the *ARRL Handbook*, you will discover it does take time for C1 to discharge through R1. As long as there is sufficient charge in C1, D1 will remain lit.

Fortunately, it's easy to fix things so all your LEDs go out when you pull the switch, Fig 2 shows how to do it.

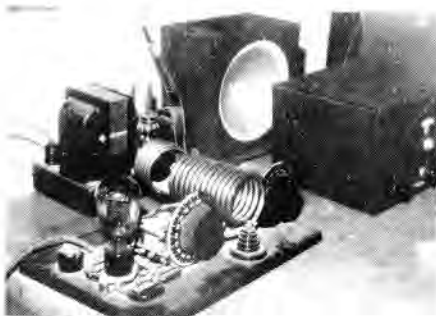
First, replace the SPST on-off switch with a DPDT switch. Now, dive into your equipment and find C1. Physically, C1 will probably be the biggest capacitor there. Electrically,

it will have a value of 1000 or more. When you find it, identify the positive terminal, and that's where you connect R3. R3 should be a low-resistance high-wattage resistor capable of quickly discharging C1. Radio Shack's #271-132 (10 ohms, 10 W) is fine for most 12-V power supplies.

Wire the rest as shown in Fig 2 and you are in business. Now, when you shut off S1, C1 discharges through R1 and R3. Don't be cheap and replace R3 with a jumper. R3 limits the discharge current. Without R3, you might burn out S1. This entire exercise causes D1 and any other LEDs in your gear to quit in immediate disgust.

Tech Topics/Technique needs your input. Send your ideas to me at the address given above. According to the established laws of journalism, I will file your ideas and then, when the Editor phones to say that the deadline is tomorrow, I will stay up all night trying to rewrite your material to fit the meager space allowed by the Editor. Not to worry. When Einstein submitted his Theory of Relativity to *Playboy*, they rejected his submission. He should have sent it to QST Canada. We recognize genius out there. —VE3ERP

Strays/Méli-Mélo



Real ham equipment for the real ham. The 1929 transmitter and power supply was built by your editor using authentic vintage parts. The companion receiver is a restored National SW-3.

□ AMSAT North America Chairman John Browning, W6SP, has retired. As a result, First Alternate Director John Henry, VE2VQ, takes a seat on the AMSAT Board as a voting AMSAT Director.

□ To mark his 60th year as a radio amateur, Fred Western, VE3FYW, has built a replica of his first station, 3BP. It includes a 210 transmitter, a "blooper" receiver, a power supply with soup jar rectifiers and a wavemeter. Fred will demonstrate his station to clubs. Contact him at Box 113, Beaverton, ON L0K 1A0, Tel 705-426-7981.

□ A reminder: Only CRRL has your membership records. When you move, send your change of address to CRRL, not ARRL.



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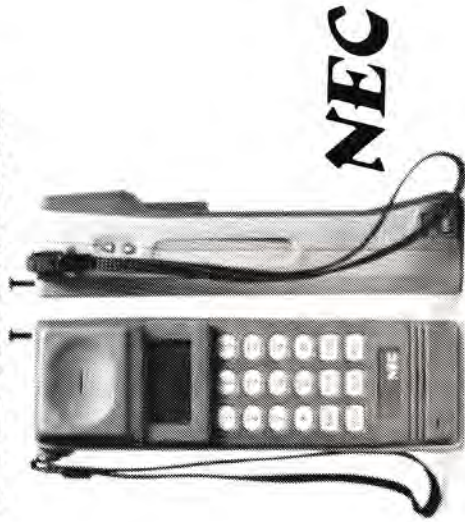
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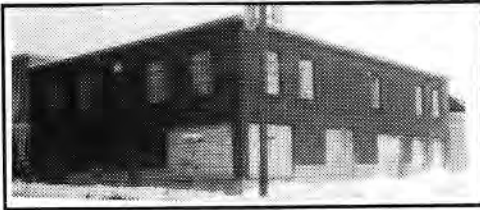
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We are always happy to answer queries by phone or mail. If the latter, a postage stamp to defray the cost of a reply would be appreciated. Due to the nature of surplus very few items are stocked in depth and as a result it is impossible to prepare a catalogue or listing which would remain valid for even a short period of time.

More items received recently include the following:

- (1) Rotary vacuum pumps, Metrovac, direct drive & equipped with a high vacuum magnetic valve. \$400.00
- (2) Small crossed dipole antennas mounted on a semi-rotating plate. Unit is inside a fibreglass dome approx 12"D by 14"high. Other misc switches, gears etc on bottom. \$12.00
- (3) Environmental chamber, Delta Model 5700, -200F to +600F. Uses CO₂ or LN₂ for cooling. Glass window in door, working volume 11x20x15. \$115.00
- (4) Centronics 104 printer with 4 heads. \$120.00
- (5) 16mm Bell & Howell sound projectors, Model 567. \$140.00
- (6) Singer 16mm sound projectors, instant load. \$125.00
- (7) Sloping wooden desk consoles 20x8x8 containing speakers, 4 ten gang push switches, PCB audio amp plus other components. \$10.00
- (8) Regulated DC pwr supplies removed from IBM computers, xmfrs, large filter caps, heat sinks, PCB, line cord etc. \$10.00
- (9) Another small supply of Systron Donner spectrum analyzers Model 762-2A, 10MHz to 40GHz. Unfortunately priced higher due to competition in the procurement field but still a bargain at \$1550.00.

(Public Service - continued from page 14.) using .52 simplex. The Red Cross Net consisted of an NCS on the Kingston repeater and three field stations. There was also a 75-metre link to Earl, VE3KCZ, in Toronto. Earl handled all communications with Red Cross Headquarters.

Operations on both nets were taped for later analysis. Twenty one operators had handled some 118 messages, 25 of them in standard written message format. The purpose the exercise is, of course, had been to identify any weaknesses in planning and procedure. Kingston-area ARES did identify fourteen items requiring improvement. It was apparent that our operators required more training in message handling. We had not provided enough runners and clerks to support the operators. There were no equipment failures, but simplex communications from some field locations were less than ideal, pointing out the need for better antennas. Still, both exercises had gone well and we were commended by municipal authorities for our contribution to their success.

In the Kingston area, we think we're off to a good start. To date, our emphasis has been on fast response and on voice message handling, mainly on 2-metre FM. We have a few packet stations in the area but it will be some time before we can match the digital emergency message handling capabilities of ARES

groups in Toronto and Southwestern Ontario. Still, we hope our experience will encourage other to begin.

— Bob Boyd, VE3SV

[Editor's Note: Interested in starting an ARES

group along the lines of the Kingston group and other ARES groups across Canada? Contact your CRRL Section Emergency Coordinator (SEC), VE1BQO, VE2LYC, VE3GV, VE4VQ, VE5WM, VE6AFO, or VE7FB, for details.]



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