

QST 

CANADA

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

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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...”

Let's Help Jack

The other day we received a letter from Jack Ravenscroft. Jack was pretty concerned. He had read our writeup (1988 April *QST* "Canadian NewsFronts") about the decision of the Ontario Court of Appeals and he felt that our speculations had created a wrong impression. He felt we had created an impression that the appeal court's decision was good, and that he was happy.

Now we amateurs across Canada were very happy, and it is easy to see why. If the original decision had been allowed to stand, all of us would have been in trouble. Interference? Invoke the law of nuisance and take the us off the air. Sue if you like. The precedent would have been set. After the appeal, things became a whole lot better. Anyone considering doing what Jack's neighbors had done look at the new decision which said: (1) Jack could return to the air, (2) the susceptible equipment had to be fixed, and (3) no legal costs would be awarded, and decide that legal action would be worth neither the trouble nor the expense. Once again, we were safe.

Lately, we've been looking at the decision again. Really, there is no cause for rejoicing. The decision also says: (1) Repairs to the susceptible equipment have to be made at no expense to the plaintiff. Who will be paying if the manufacturers of the equipment don't? Jack. (2) Suppression of the susceptible equipment must meet DOC standards. For the past several years, CRRL and others have been asking DOC to develop some formal standards, but at the moment, there are none. That means it will be a DOC official's personal opinion. Not good. (3) The \$2500 damages awarded to the plaintiffs for "suffering" they will experience while their equipment is being repaired was doubled to \$5000. And finally, (4) the court did not deal with the broader or constitutional aspects of the case. As a result, the new decision did not establish a precedent along the lines of, "Because radio communications is a federal undertaking, Amateur Radio communications cannot be subject to the law of nuisance."

For Jack, the new decision has a more personal dimension. At the moment, there is a \$15,000 shortfall in the JRSD Fund.

Let's all help Jack. Currently, over 5900 Canadian amateurs are CRRL

members. This includes nearly 5800 of us who receive *QST* and *QST Canada*. If every one of us reading this editorial, *no matter that we may have donated before*, were to take as little as \$3 from our wallets, place it into an envelope and mail it to the JRSD Fund, a good part of Jack's troubles would be over.

Jack has literally gone through hell with this case. And while things aren't perfect yet, because of Jack's willingness to follow through, things are a whole lot better. We will be reaping the benefits of Jack's efforts for years to come. It's time to show our appreciation. Let's each of us, *right now before we forget*, send a personal donation to the JRSD Fund, Box 8873, Ottawa, ON K1G 3J2. —VE3GRO

AMATEUR RADIO DEFENCE FUND

While we're on the subject of important places to send your money, we'd like to tell you about the Amateur Radio Defence Fund. There's another World Administrative Radio Conference (WARC) coming up, one with the power to allocate or reallocate amateur frequencies, likely in 1992. Now we amateurs did pretty well at a similar WARC in 1979: no loss of frequencies that we can remember, and three new bands at 10, 18 and 24 MHz. That success was not without cost. During the years before that WARC, Amateur Radio organizations around the world took steps to ensure that their nation's delegates understood the importance of Amateur Radio. At the WARC, the International Amateur Radio Union (IARU), led by its President, Noel Eaton, VE3CJ, constantly lobbied WARC delegates to get the Amateur Radio message across. Of course, that involved travel and extended stays in Geneva. No one knows for sure, but the total cost to the worldwide Amateur Radio community was probably \$US 2 million.

This is the kind of financial commitment that will be needed in 1992 if we are to maintain (and perhaps expand) our amateur frequencies. Canadian amateurs will want to do their part. This is why CRRL is creating a Canadian Amateur Radio Defence Fund with monies to be held in trust for use by IARU at the upcoming WARC.

We'll return to this subject later. —VE3GRO

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.

SKITREK COMMENDED

[Editor's Note: The following was addressed to CRRL President Tom Atkins, VE3CDM.]

Thank you for the March 8 press release concerning the USSR-Canada Polar Bridge Skitrek Expedition.

The amateur community can be proud of the communications network it established to aid the expedition. I am sure the men involved in crossing the polar bridge are grateful that such a reliable and extensive communications network exists to provide a lifeline to the outside world.

We at Communications Canada [DOC] wish the Polar Bridge Skitrek Expedition every success in its endeavour. — *R W Jones, Director General, Radio Regulatory Branch, Communications Canada*

THE WIND PROFILER

[Editor's Note: By now, most amateurs know the background on the Atmospheric Environment Services (AES) "wind profiler" which, after much discussion and the reluctant approval of Toronto-area users of the 430-450 Mhz-band, was assigned to 441.0 Mhz. However, even after that approval was given, there was a strong feeling that, in making the assignment, DOC had stretched definitions in the Radio Regulations to the limit. Hence the following letter to DOC by CRRL President Atkins, and the subsequent reply by Bob Jones, Director-General, Radio Regulatory Branch, Communications Canada.]

Dear Mr. Jones:

Regarding Amateur Radio Service operations in the 430-450-Mhz band and the Atmospheric Environment Service Wind Profiler: Over the past few months, there has been a great deal of controversy surrounding this issue. Things appear to be approaching a conclusion, but we would request a response on a number of points.

As radio amateurs, we recognize that the band 430-450 MHz is a shared band, with RADIOLOCATION allocated as a primary service. We also recognize that secondary services do have some say when it comes to how the band is shared.

We fully appreciate the Department's desire to find an appropriate allocation for the AES Wind Profiler Network, and I am sure that the Department understands our objections to the original proposal of 433.5 MHz.

Over the past few months, the Department has received various comments regarding the allocation, and has received the report of the "Ad Hoc Committee on UHF Utilization" as well as holding a meeting in Toronto on November 18 to discuss the report.

There were a number of technical and administrative issues that were not clearly an-

swered at the meeting, and we feel it is not unreasonable to expect some answers.

Please consider the following:

1. RADIOLOCATION is defined as "RADIO-DETERMINATION used for purposes other than RADIONAVIGATION".
2. RADIODETERMINATION is defined as the "determination of the position, velocity and/or other characteristic of an *object* or the obtaining of information relating to these parameters by means of the propagation properties of radio waves".
3. *Object* is defined by the *Oxford Dictionary* as "something *solid* that can be *seen and touched*."
4. METEOROLOGICAL AID SERVICE is defined as "a radiocommunication service used for meteorological, including hydrological *observations and explorations*."

Based on the above definitions, based on what we know of the mission of the AES wind profiler system, and based on what we know of the allocations of other administrations such as the United States and Switzerland, we draw the following conclusions:

A. The wind profiler is *not* a RADIOLOCATION service within the context of ITU definitions, as it is not used for the detection of *objects*.

B. To be consistent with other administrations, the system should be defined on basis of usage. It is clearly a system used for the *exploration* of the upper atmosphere and its final product will be *meteorological* data that will be utilized by AES.

C. The Department wished to avoid interference to SARSAT by avoiding an allocation in the METEOROLOGICAL AIDS band at 404.37 MHz. Yet the US network of thirty profilers includes systems operating from the *same* or *higher* latitudes than the Egbert site. In fact, some of these sites are very close to the 49th parallel. The radiation from these sites will occupy a volume extending into Canadian airspace. Clearly there is no advantage to Canada trying to protect a system that will receive interference from the United States.

The above points indicate that the Department has been rather loose and inconsistent with its policies regarding allocations. In fact, the Department seems to be bending the ITU definitions to fit its needs by proposing to allocate a "Met Aid" within a RADIOLOCATION band.

The Canadian Radio Relay League requests the Department to explain its actions in this respect, for the record. The Canadian Radio

ARES CANADA NET

Interested in meeting other amateurs interested in emergency communications? Check into the ARES Canada Net, 14.115 Mhz, every Sunday at 2000UTC. You'll receive a friendly welcome.

Relay League wishes to further object to any operations within the 430-450 Mhz band that do not clearly fit the allocation. — *Thomas B J Atkins*

Dear Mr. Atkins:

Thank you for your letter of January 18th, 1988 regarding the Atmospheric Environment Service's wind profiler. I trust that this letter will give you some insight into the reasons behind our selection of the band 430-450 MHz for that operation.

Concerning the question of the allocation definition which you raised, we take the view that objects may be concrete or amorphous. The air, or atmosphere, can certainly be felt and air movement seen and heard. It is the movement and density of this amorphous object that is being measured. Therefore, we are of the opinion that the wind profiler meets the criteria of RADIOLOCATION/RADIODETERMINATION and it may be licensed in the band 430-450 MHz which is allocated to the RADIOLOCATION service on a primary basis.

In the U S A , a frequency in the band 430-450 MHz was not assigned for these devices since, in that country, primary use of that band is restricted to RADIOLOCATION services operated by the military. They no doubt had little choice but to consider the profiler to be a meteorological aid. We do not disagree with such a view since, for meteorological radar use, the two services may not be mutually exclusive.

Please note, however, that the American systems operating in the band 400- 410 MHz are not fully compatible with the other users of the band. In order to be used in the band, radars have to be equipped with timing devices to disable them when SARSAT/COSPAS is scheduled to come within 30 degrees of the main beam of the profiler. The administrative difficulties of the ephemeris tables over a lifetime of a constellation of satellites such as this creates a serious risk of harmful interference to the Search and Rescue Service.

Fortunately, in Canada, we have an alternative, not available to our counterparts in the United States.

As we understand the situation, AES will not have the system operational for some time and AES has certainly shown a willingness to discuss the situation with the amateurs regarding long term problems.

In conclusion, Communications Canada must protect a safety service in the band 400-410 MHz and the band 430-450 MHz is available on a primary basis for RADIOLOCATION services. Our District Offices have been instructed to select a frequency for the wind profiler which will have the least impact on amateur operation. — *R W Jones*

I HV Ham Hospitality

A visit to the Vatican — and more...

By Garry Hammond,
VE3XN

5 McLaren Ave
Listowel, ON N4W 3K1

What is your favorite operating mode? Is it CW, SSB, AM, FM, SSTV, RTTY or Packet?

Once again, on March 12 of this year, I confirmed that one of my favorite modes is the eyeball QSO.

In these days of the global village concept, 747s whisk us to the not-so-far corners of the earth in a matter of hours.

I am a geography teacher at the Listowel District Secondary School. For many years, I have been actively involved in organizing field trips for our students. This year was no exception. Our Senior Chorus was interested in a trip that would combine presenting concerts with sight-seeing. The historical gems of Rome and Athens appealed to everyone, and everyone became excited about the prospect of a twelve-day two-country European tour. Of course, visions of visiting five DXCC countries: I, HV, 1AOKM, SV and SV9, were uppermost in my mind. (Naturally, I encouraged the visit to SV9, Crete, only to see the Temple of Knossos and study the Minoan civilization, hi.)

Alitalia landed us at Rome's Leonardo da Vinci International Airport. Just as he had promised in a QSO a few weeks earlier, "Getty", IK0APR, with my QSL card in hand, met our group. (It helps to have your photo on your QSL card. Getty had no trouble recognizing me.) As we moved through passport control, customs and the baggage carousals, Getty, who is a personnel supervisor with Aeroporti di Roma, the company that runs the airport, volunteered to accompany us in case he was needed for translating or assistance. He was. With Getty there, authorities

made fast work of two claims related to damaged suitcases. Then, just as we were ready to say our 73, one of the adults on our tour spotted Mother Theresa walking without fanfare through our very area. Getty was thrilled to hear our fifty-seven member choir sing the 23rd Psalm to this fine lady. Her words of thanks concluded with, "Please come to sing for my people in Calcutta." (Hmm... VU2!)

Roma, the Eternal City, really charmed our group. IO calls once again had a special meaning. In the words of one of our guides, "For most of us, history is merely in our imagination. Here in Rome, it is all around us." The Colosseum, Catacombs, Forum, Parthenon, Appian Way and many piazzas (not to be confused with pizzas, hi) were all great.

However, the highlight of Rome was to be the 109-acre nation within the city: the Vatican. When you travel, it is often

(Above) VE3XN on the air from HV3SJ during his recent trip to Vatican City.

From left to right, IOZV, IK0APR, VE3XN and IOZV at SMOM, the 1AOKM QTH.



necessary to get certain arrangements made ahead of time. This was especially true with the Vatican. Our travel company helped ensure that our choir would have the opportunity to sing High Mass at St. Peter's Basilica at 1215 on March 13. We'll all remember the pride we felt as Canadians, as they concluded singing for some 2000 in attendance.

My personal chance to perform came on Saturday, March 12. HVICN is seldom heard and HV2VO is QRT. As a result, the call most often QRV from the Vatican is the Society of Jesus station, HV3SJ. Now amateurs must realize that it is just not possible to walk into the Headquarters of the Jesuits at Borg Santo Spirito 5 and sit down and call CQ. Dr Guiseppe d'Aurelio, "Pino", IOZV, is entirely responsible for HV3SJ these days. He is the station manager, the chief operator and the QSL manager. His work as Inspector-General for the Italian banks keeps him very busy during the week. Thus, he usually limits his operating time to selected weekends. It was during a weekend QSO on 20 metres that I asked Pino about visiting him and guest-operating HV3SJ. Follow-up letters were favorable, and Pino arranged for the necessary permit and even called by landline two weeks before my departure, to advise me that all was set.

During the three hours I had HV3SJ, about 250 stations were worked. Some of the Canadians who made it into the log were CI8QST(VE8TF), VEICIT, VEICR(VEIHK), VEIICR, VE2EBK, VE2EQS, VE2WKC, VE3BTQ, VE3CDX, VE3CPB, VE3CSZ, VE3CXN, VE3FYY, VE3HC,

VE3HGN, VE3IAE, VE3KF, VE3MDQ, VE3PHH, VE3PT, VE3OZT, VE3UDX, VE3VCA, VE3WT, VE3YI, VE6CU, VE7FNZ, VOIZZ and VO2AP. All Canadian call areas, with the exception of VY1, were logged. It was good to talk back home, especially to so many of the "locals". And it was enlightening to hear the relative signal strengths of different Canadian stations. A linear and a monoband beam do make a difference! There were several times when I called "QRZ Canada only" and various North American and Western European stations advised that VE's were calling. Believe it or not, I simply could not hear them.

If you find yourself in a guest-operator role, here are a few suggestions to consider: Take along a sheet of carbon paper to make an instant copy of the log. (Pino kept the HV3SJ logs in order to QSL. He is sending me photocopies me for souvenirs.) Take a mini-cassette tape recorder with you. I have enjoyed playing my tapes and it is from them that I made the list of calls. Take some Canadian flag pins, some small gift-wrapped containers of maple syrup or an attractive calendar showing Canadian scenes. And always remember to take more film than you think you'll need. Film costs 100% more overseas than in Canada and it's a nice gesture to send pictures to your hosts.

By 1830 local time, Tony, IOIJ, Frank, IOZV, and Getty, IK0APR, arrived to chauffeur me to the next DXCC country, the Sovereign Military Order of Malta (SMOM). IAOKM (for Order of the Knights of Malta) is the only call that has ever been activated. There is no permanent station on the site, but IOAMU, IOJX, IOMGM and IOMXM have operated there at permitted times since 1980. I was told that I was the fourth foreign amateur (the



The arrow shows the location of HV3SJ, Vatican City.

others were W1XX, W6RJ and JA1BK) ever allowed inside the headquarters building. SMOM is a fully independent entity founded in 1099, and under provisions of international law, maintains diplomatic relations with many countries. It provides worldwide assistance in charitable and social fields. For those who have the beautiful full-colour QSL issued by IAOKM, it is no longer possible to use the beam that appears on this card. An 18AVQ was used during the last operation in September, 1987, and will be used in future operations, likely twice each year.

After our IAOKM experience, it was 2030 hours and time to think about dinner and serious DX discussions at the Pasquino Restaurant. What do DXers talk



IOUDUD and VE3XN shake hands beneath the antennas on the roof of HV3SJ.

about over hors d'oeuvres, pastas, main entrees, desserts, a fine cigar, and before, during and after-dinner drinks? Lots: band conditions and antenna plans, upcoming DXpeditions and contests, QSL ethics, work, travel, the Polar Bridge Skitrek Expedition, pet operating peevs and more. Any of you reading this would have enjoyed the spirited discussion, which, for the most part, was in English. How lucky we are to have English as the international language of radio.

I don't know how many thousand lira the evening cost my Italian friends, but I'll always treasure the memories I HV from sharing March 12 with them. I just hope that someday, I can reciprocate with some good old-fashioned Canadian hospitality.

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.

London, ON: To celebrate the 105th Anniversary and Reunion of the Royal Canadian Regiment, London Amateur Radio Club will operate special-event station VE3VRI (Victoria Regina Imperator), on 80-10-metre CW and SSB on July 1-3. For a commemorative QSL card, send an SASE to London Amateur Radio Club, Box 82, London, ON N6A 4V3. (Special note: Congratulatory messages may be sent by packet radio to VE3VRI via VE3GYQ BBS.)

Brandon, MB-Dundein, ND: International Peace Garden Hamfest and Computerfest, 1988 July 8-10.

Talk-in on 2 and 75 metres. Contact VE4IHF operating from the hamfest to earn a special certificate.

Summerland, BC: Okanagan Valley Hamfair, 1988 July 8-10. Food; social events; fleamarket; DOC van; code, messy shack photo and mobile installation contests; activities for non-hams. Registration: \$5, maximum \$10 per family. Reserve campsite at Illahie Beach and RV Park, Box 705, Penticton, BC V2A 6P1.

Burlington, ON: 14th Ontario Hamfest, 1988 July 9, 0800 at Central Arena, Burlington, ON. No rain. No dust. Commercial displays, fleamarket, seminars all inside. Talk-in on 2 metres. For details, write Ontario Hamfest, Box 836, Burlington, ON L7R 3Y7.

Charlottetown, PEI: Charlottetown Fleamarket, 1988 July 16. Talk-in on 146.07-67 and 146.34-94.

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 fleamarket, meetings, CRRL and CARF forums, tech forums, guest speakers, family activities, banquet and dance.

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 are also encouraged to look for VE3CNE on the air, on voice, code, RTTY and packet radio, on 80-10 and 2 metres. Amateurs in Toronto during Exhibition weeks are invited to visit the display, operate, and talk to the public about Amateur Radio.

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CRRL Members to Elect Regional Directors

Who decides what CRRL will do? You do! As a CRRL Full member, your vote in CRRL elections determines the directions that CRRL will take. This fall, CRRL members will elect five Regional Directors to represent them on the CRRL Board for two-year terms of office that will begin on 1989 January 01.

The CRRL Board has seven members. Two members, the President and Vice President, are elected "at large" in odd-numbered years. The other five, the Regional Directors, are elected on a geographic basis in even-numbered years.

The five CRRL Regions are Pacific, consisting of British Columbia and the Yukon; Midwest, consisting of Alberta, Saskatchewan, Manitoba and the Northwest Territories; Ontario; Quebec; and Atlantic, consisting of Nova Scotia, New Brunswick, Prince Edward Island, and Newfoundland and Labrador.

Under CRRL By-laws, candidates for Regional Directors must (1) reside in the Region they intend to represent, (2) have been a CRRL Full member for a continuous term of four years at time of nomination, (3) have held a Canadian Advanced Amateur certificate or equivalent

throughout those four years, and (4) be at least 21 years of age. Additional information appears in the CRRL By-laws, available on request.

To be valid, a nominating petition must carry the signatures of 10 or more CRRL Full members residing in the Region concerned. It is advisable to have more than ten signatures. Photocopied signatures are not acceptable and signatures must be on the petition.

Petition forms (EDC-1) are available from CRRL Headquarters but are not required. The following form is acceptable: (place and date)

CRRL Elections Committee
Box 7009, Station E
London, ON N5Y 4J9

We, the undersigned CRRL Full members residing in the ... Region hereby nominate ... (name and call sign) as candidate for Director of this Region for the next two-year term of office.

... (signatures and call signs) ... (addresses including postal codes)

Nominating petitions will be received at the CRRL Headquarters office until 1200 EDT, 1988 August 19. Eligibility of

candidates will be determined shortly after that. If only one eligible candidate is nominated in a Region, that candidate will be declared elected. If more than one candidate is nominated in a Region, a balloted election will take place. On or just before 1988 October 01, the CRRL Elections Committee will mail ballots to every person who, on 1988 September 10, was a CRRL Full member in the Regions where balloted elections are being held. Ballots will carry a copy of the CRRL By-laws governing the election and biographical material, up to 300 words in length, supplied by each of the candidates. Marked ballots will be received at CRRL Headquarters until 1988 November 20, and will be counted shortly after that, in the manner prescribed in the CRRL By-laws. Results will be announced on W1AW, the *CRRL News* bulletins and in *QST Canada*.

Over the next two years, CRRL will need the best leadership possible. You are urged to take the initiative and file a nominating petition immediately. — *Noel Eaton, VE3CJ, Chairman, CRRL Elections Committee*

FRED HAMMOND WINS DAYTON SPECIAL ACHIEVEMENT AWARD



Congratulations to Fred Hammond, VE3HC, who was named 1988 Special Achievement Award Winner by the Dayton (Ohio) Amateur Radio Association, sponsors of the Annual Dayton Hamvention. Fred was recognized for his part in getting amateurs in mainland Chi-

na on the air, his long-time support of DX stations in Jamaica and his outstanding efforts to preserve the early days of radio — especially Amateur Radio — through his famous museum in Guelph, Ontario. Fred was presented with his award at the April 30 banquet at the 28th Annual Dayton Hamvention.

NEW CANADIAN AMATEUR CALL DIRECTORY NOW AVAILABLE

Last year, amateurs across Canada received a letter from CRRL President Tom Atkins, VE3CDM, on behalf of the *Canadian Amateur Call Directory*. Tom's letter explained that, because of the Canada Privacy Act, DOC's Licensing Branch would no longer give out names and addresses of Canadian amateurs. As a result, the accuracy of listings of Canadian amateurs in all call directories would soon deteriorate. This would create difficulties for amateurs trying to forward QSL cards or amateurs trying to contact Canadian amateurs for whatever reason. In the letter was a request to forward accurate information which would eventually be used to produce an up-to-date *Canadian Amateur Call Directory*.

The new *Canadian Amateur Call Directory* is now available. How was the *Directory* produced in only five short months? With a lot of hard work and a lot of cooperation from everyone. Listings were provided by provincial Amateur Radio societies, local radio clubs, Amateur Radio dealers and thousands of individual amateurs. These were entered into computers by volunteers in London, Ontario and added to the CRRL database. Then other volunteers, in London and in Trois Rivières, Quebec, undertook the painstaking work of proofreading the text, deleting the duplicates, cross-checking and editing. The result: a complete, accurate and readable 360-page directory of Canada's over 22,000 radio amateurs.

The *Canadian Amateur Call Directory* will soon be available at Amateur Radio dealers across Canada. For those who can't wait, it is available now from CRRL. Cost is \$20, \$18 for CRRL members. Add \$1.50 for shipping. Ontario resident only, add 8% sales tax to the postpaid cost of the order. Send order to CRRL, Box 7009, Station E, London, Ontario N5Y 4J9.

The CRRL Field Organization Forum

SECTION MANAGER ELECTION 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. Names of the incumbents appear on this page. A petition, to be valid, must carry the signatures of five or more CRRL Full members residing in the Section concerned. 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 ... 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 1988 September 09. If only one valid petition for a Section is received, the person nominated will be declared elected. If more than one valid petition for a Section is received, a balloted election will take place. Ballots will be mailed from CRRL Headquarters on 1988 October 03. Returns will be counted after 1988 November 19. A Section Manager elected as a result of these procedures will serve for a two-year term of office beginning on 1989 January 01.

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

ALBERTA: SM/STM/DEC: VE6ABC, ASM: VE6AMM, SEC/TC: VE6AFO, OO: VE6TY. Various clubs throughout Alberta getting geared up to provide communications for the annual Jasper-Banff Relay Race June 4-5. Field Day plans going ahead. CARL annual picnic set for June 17-19. Over 125 signed up for BBQ held with fleamarket on May 14. Band conditions opening up and many have already had contacts with rare DX stations. Annual CRRL Board Meeting slated for July 2-3 in Toronto.

BRITISH COLUMBIA: SM: VE7FB. British Columbia Public Service Corp Net meets on 3729 kHz at 0130Z. Net Manager Jim, VE7BLO, reports check-ins: high 211, low 120, total 4698. British Columbia Emergency Net (BCEN) meets at 0600Z on 3650 kHz. Net Manager Fergie, VE7EJU, reports 819 check-ins. BCEN

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, VE1BQQ, 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, Bagot, PQ J0H 1Y0 (514-798-2173)
Saskatchewan	Bruce Rattray, VE5RC, 128 Durham Dr, Regina, SK S4S 4Z2 (306-584-2059)

is running smoothly and net now is 7 PM PDT. Even the QTCs have increased, but would like to see more. Doc and Jessie have settled into their new QTH and VE7AKG is back on the Phone Net and his NCS slot. OK Valley Hamfair Society is holding a gala affair in Summerland, BC, on July 8-10. Write to Box 477, Penticton, BC V2A 6K6, for info. Many thanks for the newsletters we have received. Please keep them coming.

MANITOBA: SM: VE4JA. I sadly report the death of my white cane friend, Bill Dunfield, VE4ANI. Bill became a Silent Key in his sleep on May 2. Also the passing of George Hodgson, VE4HT, on May 2. My sincere sympathy to both families. Nice to hear the VE4MAN repeater link via Neepawa into the Winnipeg hub back in service. My compliments to those keeping the Winnipeg Repeater Society system operative. Speaking of the Repeater Society, I was surprised at the very few amateurs who support this repeater group. I am sure that we all realize the cost of purchasing and maintaining repeater systems which are used by most amateurs across the province but supported only by the dedicated few. Jack A Cutforth, after three years of difficult study, obtained his amateur ticket in April. Jack's QTH is Gilbert Plains, MB, and his call is VE4JAC. Be sure to change your status on your CRRL membership. Jack, and congratulations.

MARITIMES-NEWFOUNDLAND: SM: VE1BQQ. Your Section Manager wants news about Maritimes-Newfoundland radio club projects and achievements for inclusion in this column. Find him on the Maritimes Phone Net, 3750 kHz, Mondays at 1900 AST/ADT, signing VE1QST. I will soon appoint an Assistant Section Manager for Newfoundland to make liaison easier for Newfoundland and Labrador members. Special event stations VOIIMD and VEIIMD were in operation on 23 April, International Marconi Day. Sydney ARC President Bill Appelon, VE1DM, reported that VEIIMD logged over 600 contacts. Moncton and Halifax Club members enjoyed a tour of the Radio Canada International transmitter plant at Sackville, NB. Lunenburg and Halifax ARCs each conducted public demonstrations of Amateur Radio in April. Atlantic Provinces Net (APN) is the ARRL-CRRL National Traffic System (NTS) for the Maritimes-Newfoundland Section. APN meets daily on 3654 kHz at 2000 AST/ADT. Net Manager is Stu Hunter, VE1BKN, of Kensington, PEI, and check-ins are welcomed.

ONTARIO: SM: VE3GT, BM: VE3GSA, SEC: VE3GV, STM, VE3CYR, TC, VE3EGO. Congratulations to Mr Ham Radio, Fred Hammond, VE3HC, on being named 1988 Winner of the Special Achievement Award by the Dayton (Ohio) Amateur Radio Association, the group of five radio clubs in the Golden Triangle area that sponsors the Dayton Hamvention. Fred, who has been involved in radio since 1929 and was first licensed in 1929, was recognized for his role in getting amateurs in China on the air by equipping China's first two stations, his assistance to DX stations

in the Caribbean, and the creation of an antique radio museum in Guelph which is considered one of the finest in Canada and the US. In addition, he is an international director of QCWA, having recently returned from a 20,000-mile tour to Australia. The award was presented at the annual Hamvention banquet. London ARC will operate VE3VRI from historic Wolseley Barracks on July 1-3, in connection with the reunion of the Royal Canadian Regiment which is celebrating its 105th year. The long-awaited upgrading of the autopatch on VE3SPA has been completed. VE3AUM in Russel did a great job of providing daily communications from Ottawa to the Canada-USSR Polar Bridge Skitrek Expedition. VE3KCE is off to the Maritimes and will become a VE1. VE3GTF is enjoying working DX on 20 metres from Picton. The Oakville ARC recently picked up a Wintario grant of matching funds which will go to the purchase of a new 2-metre repeater for the area. VE3NMN is a new UHF repeater serving the London area and provides excellent coverage and no intermod within a 40-km radius. VE3TBU and VE3TBI are new 2-metre repeaters in Thunder Bay. VE3WV is keeping busy converting and EICO 753 over to all solid state. VE3GYQ is a member of the Executive Committee of Tuscon Amateur Packet Group (TAPR). VE3DUI, VE3NGF, VE3POI and VE3SEH have joined existing board members VE3BDW, VE3GBK, VE3IOG and VE3SST as new directors of the Toronto FM Society. New amateurs are VE3XRC and VE3NPS. VE3YI has been operating an experimental packet radio BBS and is the first blind amateur to run the WORLI PBBS program on a talking computer. He uses a Packard-Bell PC clone with Articvision and Syphonix 200 speech.

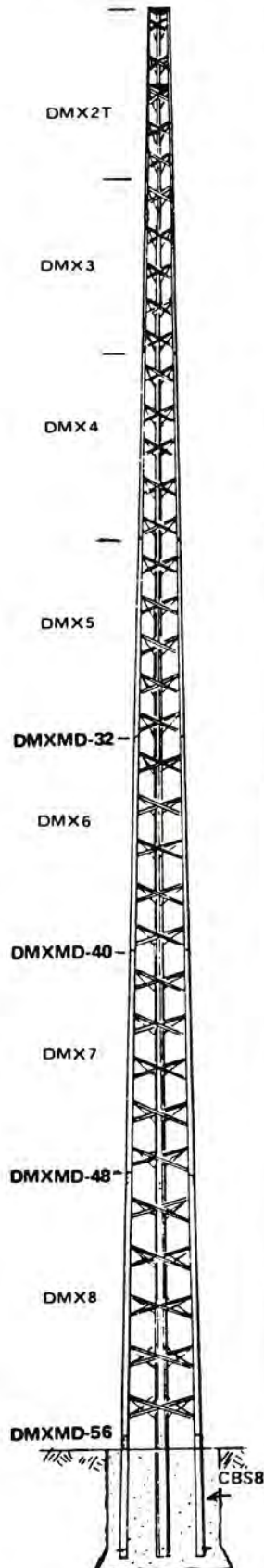
QUEBEC: SM: VE2BP, BM: VE2ALE, STM: VE2EDO. Congrats to VE2VQ who was elected a director of AMSAT, and also to VE2ME for earning DXCC (radiotelephone). Félicitations à Daniel, VE2BAP, qui a obtenu un certificat numérique. Avec regret, je dois annoncer le décès de VE2BVZ et de VE2DMG. A tous, je souhaite de bonnes vacances cet été.

SASKATCHEWAN: SM: VE5RC. Congratulations to new hams Fred Waldbauer, VE5FMW, and Floyd Rousell, VE5FAR! RARA one-day fleamarket and barbecue to be held on Saturday, June 4 at Craven Town Hall. Contact Tom, VE5TH, for details. CRRL-CARF provincial survey is out to Saskatchewan hams. Please return to VE5WM as your opinion is very important. Worked Saskatoon 04/64 repeater at new Hanley site mobile from Davidson with only five watts. Antenna going higher. Hats off to the Saskatoon gang! RARA is videotaping members' stations and showing tapes at club meetings. Rumour says tapes will be used to blackmail members into paying club dues, hi! SARL will hold General Meeting July 27 at Regina Beach. See VE5GG for details. Many hams needed for Girl Guide Jamboree communications in mid-July. See Ekke, VE5AFQ. Saskatchewan ARES now involved with Environment Canada Severe WX Watch. VE5QST will be on for Field Day. Have a happy, safe, restful summer.

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We stock the complete range of DELHI towers and tower accessories.

Sections



Specifications:

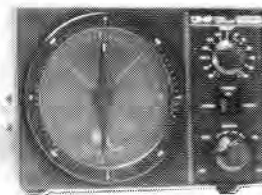
Model No.	Height without mast	Tower Sections Supplied	Weight in lbs.	Price
DMXMD Medium Duty Towers				
DMXMD-32	32 ft.	DMX2T, DMX3, DMX4, DMX5	152	\$349.00
DMXMD-40	40 ft.	DMX2T, DMX3, DMX4, DMX5, DMX6	200	\$449.00
DMXMD-48	48 ft.	DMX2T, DMX3, DMX4, DMX5, DMX6, DMX7	272	\$585.00
DMXMD-56	56 ft.	DMX2T, 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



The MR-750 series rotators offer maximum flexibility in selection and use. This new rotator system allows the user to match his rotator to the particular requirements, and to easily tailor the rotator at any time to suit changing circumstances.

The MR-750 system is based upon a rotator head unit which has mounting for up to four drive motors, having its own gear train. Thus, by adding motor units, the user can select a range of turning and brake power to match the antenna system. The reference to the specification table will show the wide range of turning and brake power:

MR-750E/MR-750PE's turning power can be selected from 700kg/cm (608 lbs/inch) to 2,800kg/cm (2,433 lbs/inch) and brake power from 6,000kg/cm (5,215 lbs/inch) to 21,000kg/cm (18,251 lbs/inch)



DAIWA



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•SUPER WEDGE—To offer the exceptional holding power!!
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MR750	Rotor with one motor	\$499.95
MR750P	Rotor with "preset" controller	\$549.95
MR750U	Extra motor units	\$159.95

		MR-750E/PE	Wind Load	TELEX Equivalent	Wind Load
Rotation time		58 seconds (60 Hz input)			
Output torque	1 motor	700 kg/cm (608 lbs/in)	16.1 sq ft	HAM IV	800 lbs/in
	Brake power	6,000 kg/cm (5,215 lbs/in)		(\$589.00)	5,000 lbs/in
2 motors	1,400 kg/cm (1,217 lbs/in)	21.5 sq ft	T2X	1,000 lbs/in	20 sq ft
	11,000 kg/cm (9,560 lbs/in)		(\$699.00)	9,000 lbs/in	
3 motors	2,100 kg/cm (1,825 lbs/in)	26.4 sq ft	HDR300	5,000 lbs/in	25 sq ft
	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		
	21,000 kg/cm (18,251 lbs/in)				
Rotation angle		365 degrees			
Permissible mast size		38 mm - 63 mm (diameter)			
Control cable		6-wire cable 0.5sq-1.25sq (AWG 16/18/20 etc.)			
Continuous running		5 minutes Max. permissible			
Unit weight		7.5 Kg (with 1 motor unit fitted)			

MULTIBAND HF YAGIS

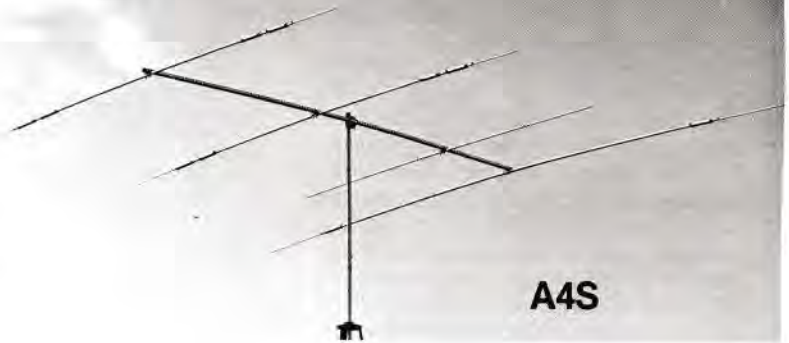
10-15-20-40 METERS

Cushcraft Tribanders Make More DX Fun!

Our three and four element tribanders provide the versatility and performance that you need for reliable communication around the world.

And they last! Cushcraft's World Rangers are made with 6063-T832 aluminum tubing, weatherproof traps, and fiberglass insulators to stand up to the weather. Our World Rangers have 50 ohm twin terminal connectors and need no balun. They are designed with fewer parts for easier assembly, lower weight and less windload. You will spend your time in the shack, not on the tower!

Ham radio is a lot more fun when you have a dependable antenna like our World Ranger. Make your choice from our A4 and A3 models. And add a forty meter kit to make your antenna even more versatile!



A4S

		Reg.	SPECIAL
A4S	Four Element Beam	759.00	\$659.00
A3	Three Element Beam	559.00	\$489.00
A3-SK	Stainless Steel Kit for A3	69.00	\$ 62.00
A743	7MHz 10MHz kit for A3	185.00	\$179.00
A744	7MHz 10MHz kit for A4	185.00	\$179.00



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CALL FOR BEST TOWER SHIPPING METHOD.

THE R4 NO-GROUND-RADIAL VERTICAL 10, 12, 15, 20 METERS

SPECIAL \$399.00

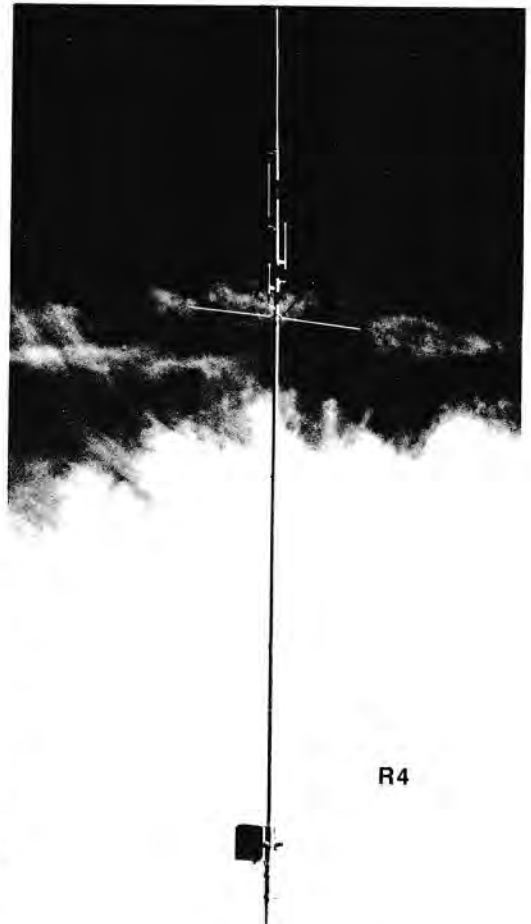
Reg. 459.00

The R4 is a second generation electrical half wavelength vertical antenna that covers 10, 12, 15 and 20 meters. Developed from the very successful R3, it has many new design features for easier assembly and operation plus improved performance.

The half wave design gives optimum current distribution for best low angle radiation and excellent DX communication. R4 brings high performance antenna features to those living in apartments, condominiums or on small city lots.

The new R4 design has a broadband solid state impedance matching network for full coverage of all four bands. Frequency selection is completely automatic. There are no moving parts or remote tuner. The only connection required to the antenna is your 50 ohm coax.

The unique counterpoise ground uses four 48" long by .100" diameter stainless steel rods. This system gives excellent RF decoupling for mounting in any location from ground level to roof top.



R4

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9:00 a.m. to 4:00 p.m.

The DADGET: A GADGET to GET DAD to Pay Attention

If the following scene does not describe a typical evening at your QTH, just go to another page and find another article to read!

As usual, Mom is in the living room studying the Racing Form and Dad is in his ham shack with his SuperFlub-100 db headset on, working rare DX on his ham radio, while his computer printer is clattering away, barely drowning out the 2-metre rig monitoring the local repeater at full blast. All of a sudden, the house catches fire, there is a shootout on the front lawn, and the piranha is eating the cat. "How," ponders Mom, "can I get Dad's attention before the tidal wave coming around the corner sweeps the house away?"

The DADGET will do just that. All Mom will have to do is push a button to get Dad's attention, and then pick up the phone and talk to him.

System Equipment Specifications

A telephone and a pushbutton near Mom. A telephone, a lamp and a DADGET near Dad. The lamp near Dad is the one he is already using.

Operation

Mom picks up the phone, dials "2" to break the dial tone, and then pushes the DADGET button a few times. In Dad's shack, the lamp connected to the DADGET flashes as Mom pushes the button. It doesn't matter whether the lamp is on or off at the time. It will flash anyway. Dad picks up his phone and he and Mom have a nice chat about fire prevention, bodies on the lawn and other current mundane happenings.

Circuit Operation

T1 and D1 provide low-voltage half-wave DC to operate K1, actuated by remote pushbutton PB1. S1 is the existing on-off switch in a standard 117-volt AC lamp. When K1 is actuated, it disconnects the lamp from the AC line and D3 routes half-wave 117-volt DC to the lamp, regardless of the status of S1. If S1 is open, the lamp will light. If S1 is closed, the lamp will dim. T1 can be the smallest 120 to 12.6-volt transformer you can find. It only has to deliver a few milliamps for short periods. The relay can be any miniature 5-volt dc type as long as the contact are rated at 1 amp or better, enough to handle a 100-watt lamp. The diodes can be any adequately rated rectifier type. D3 should have a rating of 1 amp or more. 68 ohms for R1 will probably be fine in most installations, but you may have to fiddle with the value as discussed below. A few bucks and a trip to Radio Shack will get you all the parts you need.

Construction Notes

After building several DADGET gadgets, I have found that the easiest method is to find a lamp with enough room inside to install the

Parts List: Parts numbers in parentheses are Radio Shack catalog numbers.

D1, D2—1N4001 rectifier diodes, 1-A, 50-PIV (276-21101)

D3—1N5402 rectifier diode, 3-A, 200-PIV (276-1143)

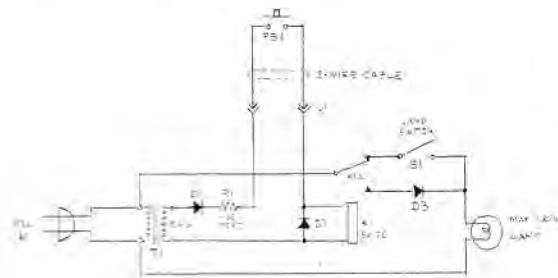
J1—See text

K1—SPDT relay, 1-A contacts; selenoid 5-V dc, 90-mA (275-240)

PB1—SPST momentary contact pushbutton (275-1566)

R1—12-W, 47 or 68-ohm resistor (see text)

T1—Transformer, pri 120-V, 60-Hz; sec 12.6-V, 300-mA (273-1385)



Tech Topics is intended to present *your* ideas and projects to the rest of us. Until we have been going for a couple of months and have received input from you, our readers, you will just have to put up with stuff dreamed up by QST Canada editorial staff. We do need your input. You don't have to be a writer or technician. Just send us your ideas, in your own words, and your sketches, and we will do the rest.

We especially welcome ideas for simple projects that would appeal to the large body of hams whose prime interest in Amateur Radio may not be technical, but who would nevertheless occasionally like to "build something" or at least delve into some facet of ham radio a little more technical than pushing buttons and turning dials.

Every ham has at least one gadget or technical idea that would, if it were not for the fact that nobody knows about it, would make him or her famous. Tell us about it, and we will make you famous. —VE3ERP

relay, transformer, resistor and diodes. If the lamp switch is built into the socket, there is no place to connect D3, so I replace the socket with a switchless type and install a separate switch in the base or body of the lamp. Another method is to assemble the components, a lamp switch and an AC outlet in a metal box and simply plug in the lamp. If the lamp has a switch, the switch should be bypassed or left in the on-position with some tape over it to keep it there. In this case, substitute an ac outlet for the lamp shown in the circuit diagram, and install S1 in the DADGET.

The DADGET won't work with fluorescent lamps. Whatever you decide, the lamp should be part of the general lighting of the shack. Otherwise, you may be accused of adding just another USELESS GADGET.

The Pushbutton

Cut a hole in the lid of a plastic 35-mm film container for a pushbutton, and another hole in the container base for the wire to the DADGET, or install a doorbell button in some handy place in, on or near wherever Mom keeps her telephone.

Wiring

Run a two-wire cable from the pushbutton to the DADGET. This can be anything from lampcord to speaker wire. I recommend Radio Shack 278-1302, a miniature clear plastic-coated #24 stranded-wire zip cord, very in-

conspicuous when run along baseboards or up a wall behind a curtain, requiring only tiny holes when going through a wall. You can install a plug on one end of the cable to plug into a jack installed on the DADGET, or you can terminate the cable at a wall-mounted jack in the ham shack and have a bit of cable with a plug on the end coming out of the DADGET.

Depending on length of cable and size of the wire, there may be a voltage drop in the wire from the transformer to the pushbutton and back to the relay. Get Mom to press the pushbutton while you measure the voltage across the relay. If it is much less than 5 volts, change R1 to 47 ohms. The relay will probably work at anywhere between 3 and 7 volts, but it's nicer to have it close to 5 volts.

IF YOU ARE NOT A QUALIFIED TELEPHONE TECHNICIAN, DO NOT READ THIS PARAGRAPH! If you are a qualified certified practising Telephone Technician (Engineer), then instead of running a pair of wires from Mom's phone to the ham shack, use the black and yellow wires in the telephone cable, providing, of course, they are not being used for anything else. In most residential telephone installations, only the red and green wires are used, the other two being left for multiple-line, intercom or other purposes. IF IN DOUBT, DO NOT FOOL AROUND WITH THE TELEPHONE WIRES. Run a separate pair of wires to the DADGET.

Conclusion

The DADGET is also an effective method of attracting the attention of teenagers incarcerated in poster-plastered rooms surrounded by 200 watts of heavy metal rock audio. My teenager prefers it to my previous method of getting her attention, which was to use her TV and stereo system as an intercom by connecting a CB set to my linear amplifier, switching to the wrong antenna and hollering into the mike, "YER WANNIT ONNA TELEPHONE!" My neighbours also ran to their phones. Not recommended. —VE3ERP

NOTES FROM ALL OVER

□ If you're a radio amateur and own an Atari computer, you'll like *Ad Astra*, an interesting newsletter written by Gil Frederick, VE4AG, for the Atari Microcomputer Network. Contact Gil at 130 Maureen Street, Winnipeg, Manitoba R3K 1M2.

□ David Toth, VE3GYQ, has been appointed to the Executive Committee of TAPR, Tucson Amateur Packet Radio Group.



Spotted at the Ontario Hamfest: We don't know how it loads or if the SWR varies in rainy weather. (VE3GRO photo)

VHF-UHF/THF-UHF

Conducted By Dana Shtun, VE3DSS
500 Willard Ave, Toronto ON M6S 3R6
Tel 416-763-1761

Greetings!

Welcome to all you VHF-UHF devotees out there! This is our inaugural column dedicated to VHF, UHF and microwave operating in Canada. I would like to say that it's an honour to be conducting this column and, since it's the first time I've tried my hand at this, please try to be patient.

The bands have been taking a bit of a beating lately. The 135-cm band, 220-225 MHz, is under some scrutiny by DOC for possible reallocation to a not-yet-defined "Personal/Business Radio Service". CRRL has challenged the need for such a service. CRRL is also working with DOC to create an attractive and viable VHF-UHF only entry-level licence that would bring more amateurs onto this band.

On 70 cm, everyone has heard about the "wind profiler" that Atmospheric Environment Service plans to be built near Egbert, Ontario. This profiler occupies a bandwidth of 2 MHz, and beams a pulse signal straight up. Echoes from the upper air are processed digitally and the result is a map of the atmosphere that helps weather people detect tornadoes and other severe weather disturbances, and prevent loss of life. Speaking of loss of life, the official reason the wind profiler was not assigned to the Meteorological Aids band, where we feel it belongs, is because the SARSAT/COSPAS emergency locator satellite system operates in this band at 406.05 MHz. SARSAT/COSPAS is a joint venture of Canada, the US and the USSR. National Search and Rescue wants to keep 406.05 MHz clear of interference so SARSAT/COSPAS will be able to hear distress signals. CRRL is continuing to work with DOC to resolve the situation.

If this were not enough, DOC asked what we were doing on six metres. This was part of the 30.01-890 MHz Spectrum Study issued in October. Apparently our repeater usage on six was low and they wanted to know why! The reason, of course, was that most of us were on SSB. (Surprise!) Fortunately, these and other misconceptions were addressed in the

CRRL response paper. Many thanks to those who contributed to its creation.

So much for the doom and gloom. We want everyone to know that we are open to input from all users of the bands above 50 MHz. If you are a VHF-UHF user, we would like to hear from you. We will try to publish items and photos from across Canada, and keep everyone up to date on activities above 50 MHz. So how about it? We have a few ideas to keep the column going for a while, but if we are going to keep it interesting, it's going to be up to you!

NOTEBOOK

□ VE3BQN is now active on EME from FN04. Ted is running an 8877 and 4 Cushcraft Boomers as 50 feet. His signal on 144.2 MHz tropo is outstanding.

□ 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.



There's a lot of silverware available for Canadian participants in the ARRL VHF contests. Members of the Toronto VHF Society display some of the trophies you can win: (standing l-r) VE3UP, VE3AIA, VE3WMW, VE3OCQ, VE3FAC, and VE3DDW. (seated, l-r) VE3DSS, VE3ADJ, VE3CRU and VE3QF. (VE3GRO photo)

□ VE2FUT is busy installing a new tower, a surplus commercial job with 20-foot sections, 32 inches to each side. I hope Stu is up to lifting that stuff.

□ VE4MA is busy working EME on 1296. Barry is doing amazing things with a converted TV dish.

□ Speaking of 1296 MHz, Hans, VE3CRU, is still making 2-tube amplifiers good for over 200 watts on this band. These amps are a bargain, very reliable and great for giving that weak tropo signal a bit of a boost.

□ The text of CRRL's reply to DOC's "Utilization of the Radio Frequency Spectrum in the Range 30.01-890 MHz", is available via VE3BQN's landline BBS (416-483-7877), and on packet radio via the VE3MCF BBS on 145.03 MHz.

□ Six-metre news from the UK via *NEVHF*: CT3DK is active from Madeira. There are at least nine stations active in Malta: 9HIs BT, CG, EL, FL, and GB. A22KZ from Botswana, grid KG19RX was heard on 50.110 SSB in southern England on October 8. Propagation was likely Sporadic E and transequatorial. A22KZ is running 100 W and a 4-element yagi. During the current Es season, look for the UK gang, EI2W, ZS3E, and the ZB2 gang.

□ If you are looking for construction data for a reasonably priced 2-metre yagi, contact Richard, VE3FAC. Richard has successfully cloned a popular commercial antenna. Cost of construction is reasonable if you are prepared to do some work. (Have you checked the prices of commercial antennas lately? Who says the homebrew spirit isn't alive?)

□ Don't forget to send the conductor of this column copies of your logs for the ARRL June VHF QSO Party. As you can see from the photo, there are several trophies available to recognize outstanding *Canadian* achievements on the VHF-UHF bands. Also, send us a QSL card so we can put you on our Contest Announcement Mailing List.

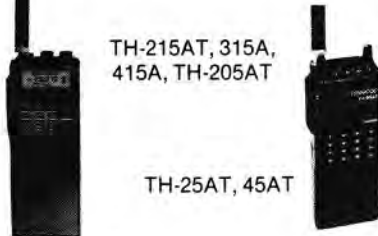
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415A, TH-205AT

TH-25AT, 45AT

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IC-02AT, 03AT, 04AT, IC- μ 2,



IC-28H, 38A, 48A



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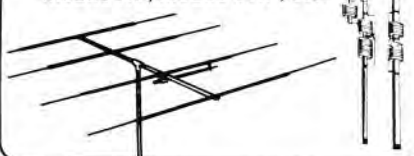
PUBLICATIONS

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- World Radio TV Handbook
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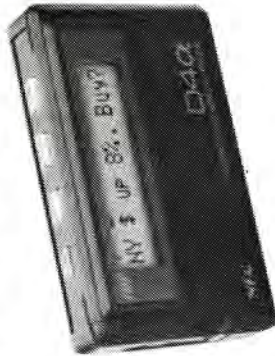
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It Can Happen Here

In common with 99% of my fellow citizens, I'd always had a ho-hum attitude about emergency preparedness. Sure, it was a good thing, but after all, there had never been a major disaster in my area. There were so many other more important things in life that emergency preparedness stayed on the back burner.

This attitude, however, did a 180-degree turn as a result of the "Flixborough disaster" of June, 1984. Flixborough convinced me of two truths: A disaster can happen anywhere, and you'd better be prepared to deal with it, be it natural or man-made.

Flixborough was a huge petrochemicals plant located on the River Trent in the UK. One of its processes involved large amounts of cyclohexane, a close chemical relative of gasoline. The cyclohexane was pumped at high pressure and temperature through a chain of reactors. Due to a series of human errors and mechanical failures, there was a huge leak of this material, forming a flammable cloud of vapour over one hundred metres long. Before many seconds had elapsed, the cloud found an ignition source and exploded with the force

of 20 tons of TNT. The explosion was described as being "of warlike dimensions".

The plant was virtually demolished. Twenty-eight persons were killed and thirty-six others were seriously injured. Over 2000 houses, shops and factories were damaged, many at a distance of several miles.

At the time, I was employed by a major Canadian chemicals company, in an engineering capacity. When news of the Flixborough disaster reached us, I was asked to form a task force of several engineers, to investigate and determine what our company should do to prevent a disaster in its own operations.

Two years and several million dollars later, I was able to report that our company was protected, as well as possible, from this kind of occurrence. I had developed a healthy appreciation of the kinds of disaster that could happen in industry and had formed some ideas on how to prevent them. I had also developed a strong respect for the need for emergency preparedness.

Following retirement five years ago, I was asked by the Township of Kingston, Ontario,

to chair an Emergency Planning Committee to get that municipality's emergency response capability organized and its emergency people trained. Many months of work led to the creation of an Emergency Plan which was promptly approved by Council and enacted into law. This plan set forth the responsibilities and duties of each emergency response element: police, fire, works, social services and health departments, in a disaster. It also provided for the creation of an Emergency Control Group and described its responsibilities in managing all resources in emergencies like those which occurred in Barrie, Edmonton and Mexico City. The Plan also provided for a fully operational Emergency Control Centre equipped with everything from maps and blackboards to FM transceivers that permitted communications with police, fire, ambulance and works department vehicles. And, last but not least, the Plan provided for communications assistance by the Kingston-area ARES group.

The Emergency Planning Committee then sponsored three (Continued on page 16)

CRRL Field Organization Reports 1988 April

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 (VE3s MB, EFX, FUN, GNW, HSF, SV, JJA, LKI, KXB, LJV, TNL)	549
VE5WM (VE5s AQ, ACI, AFQ, RP, YD)	-
VE6AFO (VE6s AMM, AGH, FV, XD, CBJ)	-
VE7FB	107

National Traffic System

Net (Mgr)	Sess	QNI	QTC
APN	27	-	-
KTN (VE3AJN)	13	100	16
OLN (VE3POJ)	-	-	-
OPN (VE3BUO)	30	606	115
OQN1 (VE3GSQ)	28	45	45
OQND (VE3GSQ)	24	56	22
OQNE (VE3CYR)	31	177	140
OQNL (VE3GSQ)	14	49	22
MTN	16	-	24
MMWX	30	-	25
MEPN	30	-	11
WRTN	8	-	1
SATN	27	-	9
ARG	29	-	1
MJARC	28	-	-
ASP	-	1159	13
ATN	-	262	82
AARES	-	137	-
BCEN(VE7FB)	30	275	-

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.

CRRL Section Traffic Manager Reports

Call	Orig	Rcvd	Sent	Divd	Total
VE1BKN	-	-	-	-	60
VE1VX	-	-	-	-	29
VE1IH	-	-	-	-	12
VE1ALU	-	-	-	-	8
VE1BTV	-	-	-	-	6
VE1CF	-	-	-	-	6
VE2BP	3	17	14	14	48
VE2WH	1	11	8	10	30
VE2GEJ	0	16	6	1	23
VE2JN	4	9	7	6	26
VE2EC	6	4	6	6	22
VE3ORN	3	125	107	27	262
VE3CYR	2	128	100	3	233
VE3GT	0	70	105	0	175
VE3ISD	12	32	79	6	129
VE3BCZ	14	49	55	2	120
VE3GNW	0	31	46	0	77
VE3DCX	2	27	34	0	63
VE3WG	1	21	31	0	53
VE3DPO	0	34	14	0	48
VE3EAM	7	16	7	16	46
VE3BUO	0	39	1	4	44
VE3KXB	0	3	37	0	40
VE3SB	0	15	14	1	30
VE3FGU	0	10	11	0	21
VE3KCZ	0	10	2	8	20
VE3AJN	0	6	13	0	19
VE3BDM	0	4	9	1	14
VE3WV	0	3	8	1	12
VE3NVJ	0	3	3	2	8
VE3WM	0	2	2	1	5
VE4JR	-	-	-	-	66
VE4JA	11	10	15	12	48
VE4LB	-	-	-	-	32
VE5AGM	3	4	3	4	14
VE6CHK	-	-	-	-	72
VE6XV	-	-	-	-	35
VE6GUS	-	-	-	-	17
VE6ABC	-	-	-	-	8
VE6EO	-	-	-	-	3
VE7BN1	28	111	245	38	422
VE7EJU	4	98	73	3	178
VE7EJW	0	36	21	22	79
VE7FB	2	34	30	12	78
VE7XA	0	15	17	7	39
VE7CCJ	9	12	11	0	32
VE7FME	1	17	6	8	32
VE7EGM	0	8	14	2	24
VE7BCF	3	0	3	0	6
VE7BZ1	1	1	1	1	4

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 phoneRTTY nets, 1 point each, max 30; (3) NCS CW nets, 3 points each, max 12; (4) NCS phoneRTTY 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 115, VE3ORN 111, VE7BNI 92, VE4LB 90, VE3DPO 89, VE7FB 87, VE7EJU 83, VE3GT 80, VE3CYR 78, VE7EJW 76, VE4IXO 70, VE4JR 70

Service and Specialized Nets

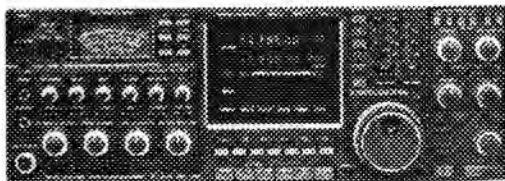
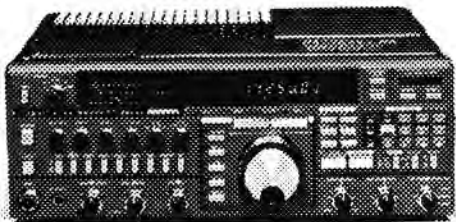
Independent Net Managers: Your monthly reports are welcomed. Send to CRRL HQ, Box 7009, Station E, London, ON N5Y 4J9.

Net (Mgr)	Sess	Ckns	Tfc
CRRL ARES			
CANADA (VE3GV)	4	110	2
ONTARS (VE3AQ)	30	13556	-

ABOUT THE COVER

Barry Garratt, VE3CDX, gets his morning exercise climbing the tower at C18C, the Canada-Soviet Polar Skitrek base station at Resolute Bay, NWT. — VE3CDM photo

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We are now open Saturdays from 9 am to 5 pm. Weekdays, for the present, are restricted to appointments for any time between 5 am to 10 pm. We normally are not maintaining a regular schedule during the week and therefore an advance appointment is essential to ensure your visit is successful. Sundays and holidays we are closed.

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. 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.

At the moment we have a particularly good supply of optical microscopes including Reichart projection, Leitz binocular and trinocular, Spencer stereo and Bausch & Lomb zoom.

Another interesting optical item on hand is a Kodak #14-6 optical comparator with a 14" screen, built in 6 lens turret for magnifications of 10X to 100X plus a precision positioning table.

A few items selected from our stock: (1) Aluminum clad military transit cases, approx. 22"x23"x31" high. Removeable lid and carrying handles, \$70.00 (2) Keyboard terminals, G.E. Terminet 340's, \$90.00 (3) Keyboard terminals, Datacom 400's, \$90.00 (4) Photoflood lighting panels approx. 6'x4' on castors. 60 sockets wired in three banks with each bank switch controlled. Up to 250 watts per socket. Ideal for the budding photo studio. Two units only. \$150.00 each (5) RemAC Model 301 circuit board drilling machine. Manually positioned X and Y coordinates use optical readout. With light table for viewing initial artwork, \$600.00 (6) Sartorius single pan (200g max) chemical balances, \$65.00 (7) Radio Shack TRS80 Model III computer with two disk drives \$200.00 (8) Impedance bridge, General Radio Model 650A with 650P1 amplifier, \$150.00 (9) Impedance bridge, General Radio Model 1650A, \$250.00

Strays/Méli-Mélo



Jack Ravenscroft, VE3SR, at his station. Jack is the subject of this month's *QST Canada* editorial.

□ Amateurs in the US, England, Ireland, Italy, Newfoundland and Nova Scotia operated six special-event stations to mark April 23, International Marconi Day, the Saturday closest to Marconi's birthday. A special award is available for having worked five of the six stations. More later.

□ Work is going ahead on Restructuring the Amateur Service (see May *QST* "Canadian

NewsFronts"), but very slowly. Representatives of CRRL and CARF have been meeting with DOC to try to fine-tune DOC's proposals. Of particular concern are the level of difficulty of the first technical examination, and the requirement for holders of certain classes of certificate to use "commercial transmitting equipment" only.

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(Public Service - continued from page 14)
emergency exercises to test the Plan and incorporated changes where experience indicated a need.

With this background in emergency preparedness, when asked to take on the assignment of Emergency Coordinator (EC) for the Kingston-area ARES group, I quickly accepted.

Next month, I will describe the setup we have in Kingston and some of the exercises in which we have participated.

We hope that this series, which is also being submitted to *The Canadian Amateur*, will become an ongoing source of news and information about ARES for members of CRRL and CARF. ARES members, particularly ECs, are invited to send along information on what they are doing and on developments they would like to share with other ARES members. Yours truly will pull this information together and present it in future columns with the objective of increasing our collective ability to serve our community and our country, should disaster strike. Remember: It can happen here. —Bob Boyd, VE3SV

[Editor's Note: Just a reminder that ARES is an important branch of the CRRL Field (Section) Organization. However, you do not have to be a CRRL member to take part.]

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