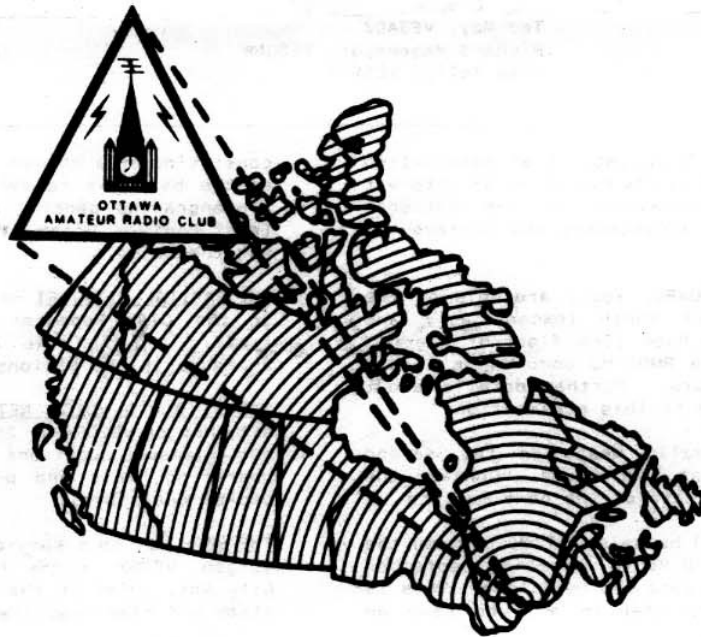


FEBRUARY 1996

THE GROUNDWAVE



**NEXT MEETING WILL BE HELD
WEDNESDAY, FEBRUARY 14, 1996**

Club Call VE3RC Repeater VE2CRA



Official Bulletin of the Ottawa Amateur Radio Club, Inc.

The Ottawa Amateur Radio Club, Inc., Box 8873, Ottawa, Ont., K1G 3J2

President	Richard Hagemeyer, VE3UNW	225-3275	953-0638
Vice-President	John Connor, VE3TG		
Secretary	Larry Woran, VE3WLN	835-2959	954-7322
Treasurer	George Roach, VE3BNO	234-0885	738-2372
Past-President	Roger Swickis, VE3BZR	234-9836	228-6310
Directors	Peter Hafichuck, VE3LBW		
	Bob Peterson, VE3IDG	825-7070	952-2443
Packet Group Chair	Bob Peterson, VE3IDG	825-7070	952-2443
Repeater Chair	Harrie Jones, VE3HYS	739-9365	738-2372
Net Manager	Wayne Greenough, VE3JSQ	836-5320	724-5464
EMI Committee Chair	Ralph Cameron, VE3BBM	825-1634	225-2850
Membership Chair	Chris John, VE3FID		
Nat. Cap. Award Manager	Brian Summers, VE3JKZ	523-1535	738-6263
Publicity	Mike Pilon, VE3BUP	731-1567	
Groundwave Editor	Ed Sieb, VA3ES	738-8924	
Graphic Designer	Maria Townson, VE3KIP	828-9573	
Production Committee	Paul Campbell, VE3CEP	733-0148	
	Ted May, VE3ADZ	741-0862	
Delegated Examiners	Richard Hagemeyer, VE3UNW	225-3275	953-0638
	Mike Kelly, VE3FFK		788-2600
Coffee Guy			

THE OTTAWA AMATEUR RADIO CLUB, INC. is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

REGULAR MEETINGS of the OARC, Inc., are held on the second Wednesday of each month (except July and August) in the Champlain Room (2nd floor of the Old Teacher's College) of the RMOH HQ complex on Lisgar St., Ottawa, at 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month at 1930 hours. Contact the President to confirm the date of the next meeting.

PACKET RADIO MEETINGS will be held at 7:30 p.m. on the last Thursday of every 2nd month, starting September 1993, at the Museum of Science and Technology. This is an OARC technical meeting open to all who have an interest in packet radio.

DEADLINE FOR COPY is the second Wednesday of each month. Make yourself better known to fellow members and other amateurs, too, by giving us an article, technical or otherwise, relative to our hobby.

MATERIAL PUBLISHED herein does not necessarily represent the official OARC viewpoint. Items may be reprinted by Amateur Radio or other publications provided that proper credit is given to the author and to the OARC, Inc.

JUNIOR MEMBERSHIPS - To encourage young people to join the club and to participate in amateur radio, the club is opening a junior class of membership. Dues will be at a 50% discount but the junior member must pick up his/her copy of the Groundwave (preferably at the meeting).

RADIO AMATEUR CALL BOOKS are available at many local libraries. Ask at the information desk.

SAFETY BELTS AND AN ENGRAVING PENCIL are available for loan to club members. The engraving pencil (to mark valuables for identification in case of loss or theft) and the safety belts with pole straps are available to any members. For the belts, a refundable deposit

consisting of a cheque equal to the replacement value of the belts is required. Contact the President for the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) or Brian, VE3JKZ, at 523-1535 (East End) for the belts.

THE CAPITAL CITY NET meets every Monday at 2000 hours on the Club Repeater VE2CRA (146.34/.94) to pass traffic and to make announcements of interest to amateurs in the National Capital Region.

PACKET RADIO VOICE NET meets following the Capital City Net on VE2CRA at 2040 hours. This is an informal net to answer questions about packet radio, pass along operating hints and provide information for future packet operators.

THE SWAP NET is a service provided and conducted by Ed Morgan, VE3GX. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Ed Morgan at 733-1721.

POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club, and conducted every Sunday at 1000 hours on 3.760 Mhz. All amateurs are welcome to check in. The Swap-Net is a regular feature.

POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed, VE3GX, and meeting every Sunday, except during July and August, at 1100 hours on 3.620 Mhz, to promote interest in CW and CW procedures.

REPEATERS

VE2CRA	Voice	146.94/34
		443.300/448.300
VE3OCR	Packet	145.01(sx) Inter city links
VE3OCR	Packet	145.07(sx) Local Area net for QSO and Packet BBS.
56 kbps	Packet	220.55/433.55
VE3DXD	Packet	145.11(SX)

For further information, please contact repeater chairman.

OARC WWW Home Page:
<http://www.worldlink.ca/oarc>

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MINUTES OF THE GENERAL MEETING OF THE
 OARC JANUARY 10, 1996

The meeting was called to order by the President, Richard VE3UNW at approximately 19:40. Richard invited any guests to identify themselves and to sign the guest book to receive a complimentary copy of the Groundwave. The club welcomed Dave, VE3ODA, Charlie Brian, an aspiring amateur, and Will Warren VE3XMT.

When asked if anyone needed any help or had any wants one member announced he was looking for a colour bar generator, and another needed help with a Hyperion computer. Offers of help were given to both requests.

Ed Sieb VA3ES, announced that the Groundwave was delayed due to production problems surrounding the holidays. Copies would be mailed in the near future. Richard announced that the OARC web page could be found at <http://www.worldlink.ca/oarc>.

Harrie VE3HYS announced that he was looking for volunteers for the upcoming ski marathon, February 10th and 11th. The run will be from Hull to LaChute and return. Please contact Harrie if you are interested in participating. The Pioneer ARC is also looking for help for marathons being held January 28, 29 and February 17th.

Richard announced that the Gatineau ARC has been using the club's repeater over the summer and possibly for a Wednesday night net. The GARC presently has approximately 50 members. They have received their VHF frequency assignment for their own repeater. An invitation has been extended to them to attend our May meeting. Richard noted that the executive has reviewed the budget for this year and there may be a need for an increase in dues next year. The loss of the flea market has impacted on the club's finances. Volunteers are still being sought for a flea market this year (fall '96), contact any member of the executive.

Richard introduced the evening's speakers, Dennis VE3ASO and Elaine VE3UXZ, who spoke on EME and VE3ONT. Dennis gave a brief history of the Algonquin Space Observatory at Traverse Lake in Algonquin Park. The site was one of two built by NRC in the sixties at a cost of six millions dollars. In the late 1980s the site was closed in favour of Penticton, BC. Requests made by the Toronto VHF Society to use the site for moonbounce were without success. In the summer of 1992 it was learned that a space camp was being operated at the site and after contacting the Director of the Institute of Space and Terrestrial Science, who leased the observatory for a five year period, the go-ahead was received. The ultimate moon bounce site became reality. Dennis and Elaine narrated a slide presentation showing the dish, equipment, various antenna feeds that allowed them to operate on 6m, 2m, 222, 432,1296 and 10368 during the ARRL EME contests held annually each October and November. The dish is 150 feet in diameter, weighs 700 tons and uses a 300 ton counterweight. Also shown were QSL cards from various EME stations throughout the world showing the varied antennas used. Elaine closed with a computerized presentation utilizing both video and an audio background. Anyone interested in VE3ONT and EME should

contact Dennis. (More information on VE3ONT is available in the February and March 1994 issues of TCA) Richard thanked Dennis and Elaine for their excellent presentation.

The 50/50 draw, drawn by Elaine VE3UXZ, was won by Alan, VE3ZTU.

Richard closed the meeting at 21:47 followed by a ragchew and coffee.

mk's WORDS

Jan18/96

As you know, I missed my column deadline last month. At least I had a good excuse (one I could never have used in High School for a late assignment). My job disappeared. Declared redundant is the term they used for it. Anyway, enough of that, I'm looking for another one, and looking forward.

There seems to be a lot going on in the local amateur radio scene these days. The January VHF/UHF contest is coming up (Jan 20/21) as is a transmitter hunt on the 21st. That doesn't leave many weekends to get ready for the Ski Marathon. I expect Harrie has something to say about that elsewhere in this issue. Before that arrives, the Advanced course will have started (18:45L Jan23 contact FFK or UNW). By the way, this may be the last of the advanced courses we do for a while. -Not for the reason you might think. We are tossing around the idea of a course for people who want to move past the advanced amateur level, sort of an Advanced course. No promises yet, but that should give you something to think about.

I still haven't finished the DSP filter yet. I'm running out of excuses on that one. The deadline is still homebrew night, but it would have been nice to have it ready on time for the contest. There are still about 36 hours before the

wonder buggy heads into the wilds of grid square FN14 for the weekend, so one never knows.

Speaking of homebrew night, the latest issue of HAMBREW has a nifty idea for a 2 Metre transmitter that looks like the basis of a good bunny hunt. I'll keep you posted on that one.

If this looks like a short column this month, well you got a long one last time. By the way, I saw it on our much advertised home page. With any luck other clubs will be able to add to it, and we can put together an even better list of Canadian sources.

... don't break anything shovelling (back/heart/roof/co-ax/etc)

73
mk VE3FFK

GROUNDWAVE SWAP SHOP

WANTED

Heathkit Amateur Radio items and older Heath catalogues (U.S. and Canadian), and manuals. Also looking for older Radio Shack catalogues, Lafayette and Allied catalogues. Contact: Carl Morin, VA3CGM, at 523-8792

This space is available free to members to post their "ads". If you'd like to post a sale or want item, you can reach me, Ed, VA3ES, at the club meetings, or you can call it in: Telephone: 738-8924, packet: VA3ES@VE3KYT.#EON.ON.CA.NA.

**AUCTIONS, FLEAMARKET AND HAMFEST
FOR THE 1996 SEASON**

Feb. 3/96 Time: 9:00 - 14:00
St. Catherines, Ont.
The Niagara Peninsula ARC Big Event #18
will be held at the Canadian Auto Workers
Hall, 124 Bunting Rd. Set up at 7:00.
Contact Marg Sewell VE3HOX, NPARC, P.O.
Box 20036, Grantham Postal Outlet, St.
Catherines, ONT. L2M7W7. Tel. (905)
680-1211

FEBRUARY 17, 1995
THE ORANGE COUNTY AMATEUR RADIO CLUB
ANNUAL HAMFEST
JOHN S BURKE CATHOLIC HIGH SCHOOL
FLETCHER STREET GOSHEN NY, Exit 122A off
NYS RT 17.
INFO:-STEVE VOORAN KB2TRG 2215 RT 94
SALISBURY MILLS NY OR CALL (914)
496-8710 BETWEEN 6 & 9 PM EST ONLY TALK
IN 146.76 RPTR 100 PL

FEBRUARY 24, 1996
N.V.T. WINTER HAMFEST AT HS
MILTON VT.
INFO:-MITCH WB2JSJ (802) 879-6589

FEBRUARY 24, 1996
RADIO XXVII AT REGENCY ANTIQUE
WESTFORD MA.
INFO:-A.R.C. (508) 371-0512

MARCH 01 & 02 1995
1st ANNUAL BUBBA HAMFEST
MADISON COUNTY FAIR GROUNDS
COMER GA
INFO:-ED RIDDLE N4ALE PO BOX 89673 ATHENS
GA 30608

MARCH 02, 1996
ANDY HAMFEST, RAMADA INN, LEWISTON MAINE

16MAR96 ONTARIO DX ASSOCIATION
FLEAMARKET (TORONTO)
TRINITY PRESBYTERIAN CHURCH HALL, 2737
BAYVIEW AVENUE TORONTO
(ONE TRAFFIC LIGHT SOUTH OF HWY 401)
VENDORS 8 AM. PUBLIC 9 AM. INFO VE3RTI
JOHN GRIMLEY 416-444-4771
FAX 416-444-3526 INTERNET
70413.3170@COMPUSERVE.COM

MARCH 23, 1996
THE PEEL AMATEUR RADIO CLUB HAM-EX-96
CENTURY GARDENS RECREATION COMPLEX
340 VODDEN ST. EAST, BRAMPTON ONTARIO
INFO:-JOE VALENTE VE3VDK 52 CLOVER DRIVE
BRAMALEA ON. L6T 2T4 (905) 793-0847
FAX:- (905) 793-0847 BETWEEN 9:00 AM.
AND 4:00

Mar. 23/96 Time: 8:30
Grenville, Que.
The Brownsburg Amateur Radio Club HAMFEST
96
Grenville Community Center, 21 Rue Tri
Jean (at the corner of Principale).
Doors open at 8:30. Auction starts
11:00. Venders in at 7:00.
For information or reservations contact
Roy Cleland VE2GAO
514-479-6508 or Sylvia Dion VE2TYD
514-258-1790. TI: 146.805 -600

March 30, 1996
Hamfest Laval-Laurentides 96
Saturday, March 30, 1996 at: Polyvalente
Ste-Therese, 401, boul.
du Domaine, Ste-Therese, Quebec.
Doors open at 9:00 AM, Admission \$5.
Vendors, tables \$12. each.
Talk-in on VE2REL, 147.315+, starting at
6. AM
More info: Jean-Francois, VE2CNA,
965-4061 (leave message)
PACKET: Michel VE2TRV @
VE2CRL.#MTL.PQ.CAN.NOAM

APRIL 13, 1996
DURHAM REGION, TORONTO EAST TRADE CENTER,
PICKERING ON.

27APR96 LIVERPOOL ARC. SYRACUSE NY.

MAY 03 TO 05, 1996
ON DX ASSOCIATION CONVENTION, HOLIDAY
INN, KINGSTON ON.
INFO:-VE3ODX@VA3BBS.#SCON.ON.CAN.NOAM
ODXA, BOX 161, STN.A, WILLOWDALE ONT.
M2N-5S8
9 0 5 - 8 5 3 - 3 1 6 9 = = E . M A I L
73737.3453@COMPUSERVE.COM

05MAY96
SMITH FALLS ONT. AT LOMBARDY FAIR
GROUNDS

MAY 17 & 19, 1996
DAYTON OHIO (need we say more??? Well
OK...)

DAYTON HAMVENTION, DAYTON HARA ARENA)
INFO 513-276-6930 (TOUCH TONE REQUIRED)
ADVANCED REGISTRATION (VISA OR MASTER
CARD)

FAX 513-278-4633
DAYTON HARA ARENA, 1001 SHILO SPRINGS RD.
DAYTON OH. 45415-2798

ADVANCED REGISTRATION (CHEQUE OR MONEY
ORDER)

DAYTON HAMVENTION, BOX 1446.DAYTON OH.
454401-1446

MAY 31 TO JUNE 02, 1996
ROCHESTER NEW YORK (Highly recommended.
If you can't make Dayton, at least make
this one!)

01JUN96 OWEN SOUND ONT HOBBYMART
BAYSHORE ARENA, 1900 3RD AVE. E.,
OWENSOUND, ONT.
VENDORS 6.30 AM. PUBLIC 9.00AM. TO 4.00
PM.
INFO VE3WUD RICHARD WELSH 519-934-0320
OR GEORGIAN BAY ARC. PO. BOX 113, OWEN
SOUND, ONT. N4K-5P1

EVENTS OF INTEREST

Guide's On The Air

Feb. 17/96 9:00 AM till Feb. 18/96
17:00 EST

Girl Guide's will be having their annual
weekend on the air. This is an annual
event where Amateur Radio operators help
out by setting up stations and let
Guide's talk to other Guide's in other
Provinces or countries. Here is a list
of frequencies they will be operating on.

80 M 3.733 / 3.933
15 M 21.360
40 M 7.088
10 M 28.988
20 M 14.133 / 14.188 / 14.288

Kit Building Party Now Planned for March

Originally planned for late Jan or early
Feb, has been moved back to early March.
This is due to Wil Warren VE3XMT's busy
schedule as he organizes his move to the
west coast.

This kit is a VHF SWR meter with LED
bargraph display for forward/reflected
power. This approx. 1"x2"x4" box will
have a 10 LED display to indicate the
power with 2 other LED's indicating the
direction being measured
(forward/reflected). A commercially made
circuit card will hold 5 IC's plus other
solid state components.

A version with audio output is available
for the sight impaired and there will be
someone to build it for you. Qualified
technicians will be there to guide you in
construction and do any final
adjustments, if required.

Cost for the kit built on that day only
is \$25, Kits ordered after will sell for
\$50. So join in on the fun NOW! Those
wishing to participate please register
with Jacques VE3TSC at 748-6597 evenings.

Ski Marathon Volunteers Needed

Harrie Jones, VE3HYS is looking for
volunteers for the upcoming ski marathon,
February 10th. and 11th. The run will be
from Hull to LaChute and return. Please
contact Harrie if you are interested in
participating. You can contact Harrie at
739-9365 (H) or 738-2372, #234 (W). The
Pioneer ARC is also looking for help for
marathons being held January 28, 29 and
February 17th.

RAC NEWS BULLETIN 01-96
16 JANUARY 1996

RAC Administrative Office, 614 Norris Court, Unit 6, Kingston, ON K7P 2R9
 Editor: Jacques d'Avignon VE3VIA
 <monitor@limestone.kosone.com>
 Internet Transmission: Steve Cutway
 VE3GRS <cutways@qucdn.queensu.ca>

HAPPY AND PROSPEROUS 1996

What will the new year bring to Radio Amateurs in Canada? There are good indications that the present poor HF conditions will be improving as the year progresses. The conditions should be at the lowest ebb point by mid-year and then start improving as we run into 1997. Please, do not shoot the messenger, if the Sun does not cooperate, it is anybody's guess what will happen! The 40-metre band will continue to have some QRM from the broadcasting powerhouses, we cannot avoid this situation. What is a very interesting phenomenon is the broadcasting QRM originating from Europe that is now heard in the phone portion of the 80-metre band. These domestic broadcasts from Germany, France, United Kingdom and a few other countries will continue to be heard here during the winter months for many more years.

Looking at my crystal ball I can see that each and every one of the present RAC members will recruit one new member, and by the end of 1996 RAC will have in its membership 36% of all the Canadian amateur radio operators! And in 1997 we could then double this number again ... Perhaps an impossible dream, but even editors are permitted to dream in Technicolor!

It is quite possible that we will see in 1996, the start of the devolution of some of the tasks presently accomplished by Industry Canada to a new corporation under the aegis of RAC. As in any new venture, we will have to be patient as new procedures are developed by the new corporation to properly, effectively and

efficiently discharge its mandate and serve the ham community in Canada.

In the next few months, we will be collating the results of the survey, initiated last month, on the distribution and the content of the RAC Monthly Bulletin. Some of the comments that have reached this desk are very informative and seem to represent a good cross-section of the present readership. Members are also using the survey to air their pet peeves about RAC and also, in some cases, against equipment manufacturers!

There is another symbol appearing in the hazy window of my crystal ball: it reads RCI. The fate of Radio Canada International will be decided in the next few months. What the outcome will be is difficult to predict but I know that many amateur radio operators have already written letters in support of RCI. I cannot comprehend why a country would decide to stop its international broadcasting at a time when it is important for all countries to show themselves to the outside world in the best light possible. Even the small emerging countries in Africa and Asia know this and promote themselves, their goods and their way of life using international broadcasting.

RAC Section Manager Election Results

Congratulations to John Avery VE9IW who was recently re-elected Maritimes-Newfoundland Section Manager for a two year term of office that will begin on April 01, 1996. John ran unopposed, eliminating the need for a balloted election.

VA3PM, NEW FIELD SERVICES MANAGER

The Board of Directors of Radio Amateurs of Canada is pleased to announce the appointment of Pierre Mainville, VA3PM as RAC Field Services Manager. He will take responsibility for RAC's Field Organization effective January 1, 1996. Pierre is an outstanding amateur and supporter of Amateur Radio. He was first

licensed in 1972 and has served with distinction in many capacities over the years. He has served the Field Organization in both ARES and NTS since 1979 when he was appointed as an Assistant Emergency Coordinator, becoming Emergency Coordinator in 1981 and Section Emergency Coordinator in 1991. Pierre is an Assistant Director for RAC's Ontario South Region.

The Board expresses its deep appreciation to Alberta Regional Director Ken Oelke, VE6AFO, for his distinguished and tireless service on behalf of the Field Organization. As Field Services Manager, and in other capacities such as Section Manager for both CRRL and RAC, Ken's experience, skill, dedication and hard work has been a major contribution to the stability and continuity of the Field Organization.

RFI HANDBOOK

The FCC Interference Handbook is now available on the Internet. The 22 page booklet, available from the Compliance and Information Bureau via the FCC World Wide Web home page, includes the same information and illustrations contained in the recently published Interference to Home Electronic Entertainment Equipment Handbook. It includes information about equipment installation, identifying interference sources, curing interference problems, and filters. It also contains a list of home electronic equipment manufacturers and telephone numbers. Pictures illustrate different TV interference problems, including ham or CB transmitter interference. The Interference Handbook is available on the World Wide Web at:

<http://www.fcc.gov/Bureaus/Compliance/WW/tvibook.html>

Ed. note: most of the addresses listed in the book are for the USA manufacturers but at least it is a starting point.)

NEW NORTH AMERICAN NETWORK

VE3HHS/W4 is initiating a North American Network (NAN) to operate as an informal net for establishing communications with other amateurs or passing traffic. He plans to operate on the following frequencies and times:

Freq. (MHz)	Time	
3.760 (11:00-12:00 UTC)	06:00-07:00	EST
7.160 (12:00-13:00 UTC)	07:00-08:00	EST
14.160 (13:00-14:00 UTC)	08:00-09:00	EST

All amateurs are invited to drop in to the NAN.

C & E Museum, CFB Kingston

Work on the new Canadian Forces Communications and Electronics Museum is continuing at a brisk pace. The building was handed over from the contractor in early November 95 and much of the research collection has already been moved. Next to move will be the old displays and at the same time many new displays are being built. As well as showing the chronological history of the C&E Branch, the museum will show the development of various technologies. The centre piece of the "Radio Technology" area will be the VE3RCS club station with 1945 vintage equipment (W.S. No. 19, High Power), 1970's vintage equipment (Heath HW-101 & SB-220 station) and 1995 vintage equipment (Kenwood TS-450 station). The intent is to have all three stations fully operational.

This \$5 million project is funded largely by donations from C&E Branch members and corporate sponsors. Some grants have also been received from municipal, provincial and federal governments. The grand opening is scheduled for 17 May 1996. For further information contact VE3RCS @VE3CDY.#EON.ON.CAN.NA