

MARCH 1991

THE GROUNDWAVE



NEXT MEETING WILL BE HELD
WEDNESDAY, MARCH 6, 1991

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	Dave Goodwin, VE2ZP	684-1432	
Vice-President	Peter Jago, VE3PWJ	836-1013	836-6860
Secretary	John Connor, VE3RMM	727-5805	
Treasurer	Mike Kelly, VE3FFK	722-5918	788-5782
Past-President	Paul Cooper, VE3JLP	821-2167	
Directors	Clare Fowler, VE3NPC	232-1081	
	Dave Parks, VE3GSA	225-1206	
	Rob Morrison, VE3ZZR	722-3837	992-4334
	Doug Yuill, VE3OCU	567-2700	788-2733
	Harrie Jones, VE3HYS	739-9365	738-2372
	Wayne Greenough, VE3JSQ		
	Ralph Cameron, VE3BBM	825-1634	225-2850
	Mike Kelly, VE3FFK	722-5918	788-5782
	Brian Summers, VE3JKZ	523-1535	996-7885
	Mike Pilon, VE3BUP	731-1567	
	Mike James, VE3PDE	592-2962	995-2730
	Maria Townson, VE3KIP	828-9573	
	J. Gord MacKay, VE3JMT	831-1004	
	Paul Campbell, VE3CEP	733-0148	
	Chuck Baker, VE3PAP	824-1941	
Ted May, VE3ADZ	741-0862	790-3576	

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 first Wednesday of each month (except July and August) in the Champlain Room (2nd floor of the Old Teacher's College) of the RMOC HQ complex on Lisgar St., Ottawa, at 1930 hours. A bulletin board is available for posting notices of interest to other members about 1915 hours. Further details about each meeting is elsewhere in this publication.

PACKET RADIO MEETINGS will be held at 7:30 p.m. on Nov. 29, 1990; Jan. 31, 1991; March 28, 1991; and May 30, 1991, at the McNabb Community Centre, Percy and Gladstone. This is an OARC technical meeting open to all who have an interest in packet radio.

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.

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, 2-METER RIG AND AN ENGRAVING PENCIL are available for loan to club members. The 2-meter rig may be borrowed by members who are hospitalized. 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 2-meter rig or 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	223.34/224.94	
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	
VE3DX DX Info	146.25/146.85	

For further information, please contact repeater chairman.

MINUTES OF THE OARC GENERAL MEETING
OF FEBRUARY 6, 1991

The February General meeting of the OARC was called to order at 1940 local by the President, VE2ZP.

The first order of business was to welcome visitors to the meeting. Several visitors were present.

VE3PAP presented the CARF news bulletin. There was no CRRL bulletin.

The speaker for the night was Bob Cox, VE3RJC, from the Department of Communications. He held a wide ranging question and answer session, concentrating on the delegated examiner program but covering a number of other topics as well.

VE3HYS reported on some changes to VE2CRA, namely the installation of a 2nd receiver at Walkley Road with a UHF link to Camp Fortune, and a voting system to select the better signal between the 2 repeaters. Harrie expressed the hope that this would give improved performance, particularly to those trying to access the repeater using handhelds or low power.

VE7FKM showed the club a new study guide prepared by the University of British Columbia Amateur Radio Club, and indicated that it was currently available from ComWest, and that he had hopes of making it available through some local dealers.

There being no other business, the meeting was adjourned at 2110.

Remember Home Brew Night
Extravagant Prizes
April Meeting

FEATURED TALK - FEBRUARY MEETING

Bob Cox, VE3RJC, gave a talk about the Delegated Examiner (DE) program and other useful tidbits from DOC. The DE program was explained as follows:

- DOC wants there to be one "head examiner" at each club for mailing purposes. Other club DEs would report to the head.
- there is a brochure describing the whole examination process for DEs. A DE (or potential DE) can discuss the process further with DOC personnel after reading the brochure.
- for a club's first exam DOC will have their own examiner present to give guidance on the finer points
- DEs must have their advanced certificate. They should be backed by a club but are individually certified.
- DOC should be informed a couple of weeks before the exam date so that examination materials can be collated and sent out. DOC supplies all needed material.
- the candidate will receive a certificate for each section of the exam which he/she passes, at each level.

Tidbit #1: Don't talk to Iraqi hams - this would be contrary to treaty since Iraq has so requested.

Tidbit #2: DOC has adopted CSA standards on RF susceptibility for consumer goods. The standards are rather loose, but they are a start. Unsatisfactory equipment must be brought within these standards by the manufacturer.

The new antenna rules (co-operation with municipalities) were also discussed.

* * * * *
* Field Day Volunteers Needed *
* * * * *

CHANGES TO VE2CRA

Since the reception for some areas is poor at Camp Fortune, an additional receiver has been installed at Walkley Road with a UHF link to Camp Fortune. A circuit at Camp Fortune picks the received signal with the best S/N.

HELP WANTED

Someone to build VE3TEN (beacon) into a solid state rig - 10W 10M. Contact Harrie Jones, VE3HYS.

IN CASE YOU MISSED IT

LITHUANIA now has a national QSL Bureau - address: Lithuanian QSL Bureau, Box 1000, VILNIUS, Lithuania, 232001. Credit LY2BZ and VE3KE. (Item 4, CARF News Bulletin 1-91.)

ZL QSL Bureau - new address: B.E. Stewart ZL2RR, P.O. Box 857, WANGANUI 5000, New Zealand. (Item 5, CARF News Bulletin 1-91.)

FROM THE ONTARIO DX ASSOCIATION: ODXA Ham Net, Sunday's at 1700 UTC, 7.068 MHz +/- . The purpose of the net is to share shortwave tips, information and comments. Everyone is welcome to call in or listen in. Net control is shared amongst regular users. For further info about the ODXA, contact: The Ontario DX Association, P.O. Box 161, Station 'A', Willowdale, Ontario, M2N 5S8 or tel: (416) 853-3169. (Item 6, CARF News Bulletin 1-91.)

Mayday! Mayday! de CARF Office: Our staff is swamped daily by orders and renewals from people who have not included GST with their payments. Please cooperate, we don't impose the tax but

are compelled to collect and remit it. (Item 7, CARF News Bulletin 1-91.)

CORRECTION - IT'S SATURDAY, NOT SUNDAY. Saturday 20 April 1991 - 9:00 a.m. OTTAWA VALLEY MOBILE RADIO CLUB - FLEAMARKET: Canterbury High School, Talk-in VE3TWO 147.30/90. Info: Ken Barry, VE3KJB, 454 Wolfdale Cres., Ottawa, Ontario, K1K 1N4 (613) 746-4823. Credit the OVMRC Rambler. (Item 9, CARF News Bulletin 1-91.)

Friday, Saturday, Sunday, 26, 27, 28 April 1991. 40th DAYTON HAMVENTION. Deadline for Canadian advance registration and banquet 31 March. Info: General - (513) 454-1456 or Box 964, Dayton, OH 45401, U.S.A. Lodging info (513) 223-2612 (no reservations by phone) Flea Market info: (513) 767-1107.

For Lodging please write to Lodging, Dayton Hamvention, Chamber Plaza, 5th and Main Street, Dayton, OH 45402, U.S.A., or refer to 1990 Hamvention program for lodging info which includes a listing of hotels/motels located in the areas surrounding Dayton. (Item 10, CARF News Bulletin 1-91.)

NEWS FROM CARF OUTGOING QSL BUREAU TO MEMBERS:

1. Please sort your outgoing cards correctly according to instruction sheet. Unsorted cards will be handled when time allows and thus may be delayed.
2. Outgoing cards from members to call areas that do not have a Bureau should indicate the call sign of the QSL Manager handling the cards.
3. ATTENTION CANADIAN QSL MANAGERS FOR SPECIAL CALLS AND DX STATIONS: CARF outgoing QSL Bureau is for the personal QSL cards of CARF Members and the callsign only of Affiliate Club Stations. QSL managers wishing to send out cards in bulk must make financial arrangements with the CARF QSL Bureau Manager. (Item 13, CARF News Bulletin 1-91.)

IN CASE YOU MISSED IT (cont'd)

MORE GOOD NEWS - in reply to a query, the information office in Ottawa said there would be no GST on Amateur Radio Licence fees. (Item 4, CARF News Bulletin 11-90.)

FCC says yes to No Code in U.S.A. On 13 December 90 the FCC removed the 5 wpm morse requirements from the existing Technician Class Amateur operator licence. This gives them privileges above 30 MHz. Passing a 5 wpm test will give HF privileges the same as Novice and current Technician. Present Technician licences will be 'grandfathered' meaning they will keep all current privileges including HF and will probably be called 'Technician Plus'. FCC voted to exempt handicapped Novice and Technician licensees from the 13 and 5 wpm morse tests required for upgrading to a higher class of licence. However the 5 wpm morse test is required to be passed by all Amateurs who desire HF operation. Credit W5YI report. (Item 16, CARF News Bulletin 1-91.)

WARC '92 INFO: First draft of Canadian proposals to the World Administration Radio Conference, Torremolinos, Spain, 1992 have been prepared. The Amateur bands are not affected by these proposals.

In connection with WARC '93, studies are continuing for the possible identification of bands suitable for reallocation on an exclusive basis to HF broadcasting, and it has been agreed by the Canadian Preparatory Committee that the Amateur bands should not be touched. (Item 17, CARF News Bulletin 1-91.)

LESS QRM FOR CANADIAN PHONE: FCC relocates 80 metre Novice CW band. The FCC has amended its rules to relocate Novice and Technician Operator Class control operator frequency privileges in the 80 metre Amateur service band from

50 kHz at 3700-3750 kHz to the segment at 3675-3725 kHz.

This rule change will reduce the amount of mutual interference between U.S. Amateur stations and Canadian Amateur stations, and provide Novice and Technician Class control operators with more opportunities to improve their telegraphy skills.

In Canada frequencies in the upper half of the 80m Novice segment are used by Amateur stations for telephony transmission, thus creating the potential for interference when a U.S. station transmits telegraphy on the same channel and at the same time as the Canadian station. Relocation of the 80m Novice segment to 3675-3725 kHz provides a solution to the mutual interference problem. Credit W5YI Report. (Item 2, CARF News Bulletin 2-91.)

CARF Annual General Meeting, Saturday 1 June 1991, at the Donald Gordon Centre, Queen's University, Kingston, Ontario. (Item 6, CARF News Bulletin 2-91.)

SNOWBIRD NET: 0930 est Monday to Friday, 21.212 MHz. Talk to those unfortunates suffering from the heat in W4 land. (Item 9, CARF News Bulletin 2-91.)

The Kidney Foundation
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patient services and
public education.
Please give generously.



THE KIDNEY
FOUNDATION OF
CANADA
We can't live without you

This is another in the continuing series of columns with no name. (So name it!) The rest of the exec tells me that it's time to do a budget. So I'm working on a budget. Since I'm new at this, I thought I'd ask for input. Where should we spend our money, and more important, where should it come from. The statement of income and expenses that was in the Groundwave a few months ago should give you an idea of how those questions were answered last year. Do you want to make any changes? It seems the budget is always subject to change as the year progresses, although it does tell us what we were aiming for in the first place. Anyway... If you don't let me know what you want, I won't accept any whining from you, ok?

IN OTHER NEWS: I hope that by the time you read this, the war in the gulf is history, although I doubt it. If not, keep an ear on the maritime and aviation frequencies for the notices to mariners and notams. It is at least a change from the steady stream from the broadcasters, and more intelligible than most of that military stuff.

In "other" other news, I saw a report from U.C. Berkeley that they had developed integrated circuit versions of LIGHT BULBS. They build 'em up just like other semiconductors, using thin deposits of metal over an insulator. It sounds like an offshoot of the research to make integrated circuit "vacuum tubes" out of silicon. So far, they report that most of the "light" is in the infrared part of the spectrum but that some of it is visible. This year they expect to be able to put in tungsten for the metal part, and so get them working in the visible part of the spectrum. So the question for each of you is.. What can people do with lots and lots of tiny light bulbs. (backlights for lcd displays?) What's your guess? Isn't it redundant to say "LCD displays"... but nobody talks of "LC displays".

I hope y'all'r recovered from ski marathon and thinking field day. Last Word.. PEACE (please).

73..

m.kelly,VE3FFK

Watch this space for
information about our
Fall Flea Market

UN-STICKING STICKERS

Ever have trouble removing decals from car windows, your transceiver or other piece of gear? Even price tag stickers can be tough to get off and decals leave that sticky goo that attracts dirt and grime.

This tip from the finish folks at Ranger Boat Company can make sticker and decal removal quick and easy. Use a common hair dryer and gradually heat the entire decal. After the decal peels off, use simple white vinegar or WD-40 to remove any sticky residue. Finish up with soap and water.

deWORLD RADIO Magazine
and BARC Printed Circuit

We can't live without you.
Please give to
THE KIDNEY FOUNDATION
OF CANADA.

SKI MARATHON

The efforts of the following hams in the Ski Marathon were greatly appreciated:



Andy Anderson, VE3KIZ
 Michael Babineau, VE3WMB
 Charles Baker, VE3PAP
 Keith Ballinger, VE3IMT
 Duncan Breeze, VE3BDC
 Garth Champion, VE3EOF
 Erik Christensen, VE3KIH
 Dave Goodwin, VE2ZP
 Hassan Greaves, VE2SSB
 Peter Hafichuk, VE3LBW
 Dave Harris, VE3KMY
 Harrie Jones, VE3HYS
 Mike Kelly, VE3FFK
 Souly Loizos, VE2FFS
 Dino Moriello, VE2FSA
 Mina Vagianou, VE2AVC
 Rob Morrison, VE3ZZR
 Al Oldfield, VE3ANO
 Dave Parks, VE3GSA
 Rene St. Denis, VE3LOT
 Stan Thayer, VE3OWK
 Rick Van Gastel, VE3HVA
 Ed Waddington, VE3HCA
 Brice Wightman, VE3EDR
 Jeff Wilson, VE3RCI
 Eric Taada, VE3SGG
 Mary Riacevole, VE2NYC
 Fred Scott, VE3OAF
 John Vanturnhout, VE3KHE
 Bill Reed, VE3JSR
 Lynda Reed, VE3JRL
 Neil Herber, VE3PUE
 Wally, VE2WAL

They certainly helped to make the event a success.

I'VE GOT THE IRC BLUES

I went into the corner post office/stationery store the other day to exchange ten IRC's (International Reply Coupons) for stamps. The clerk looked

them (and me) over very carefully. One of the coupons was dated 1981, with a U.S. originating Post Office rubber stamp and a selling price of 42 cents. The clerk announced that, since it was from the U.S., I was only entitled to a 45 cent stamp, and then only if I paid the "extra" 3 cent difference from the selling price. A phone call to the Canada Post Customer Service, by her, satisfied her that this is how to deal with that particular IRC, and told me that I had better cash in any old coupons as there was a ten year expiry date. I took 18 39-cent stamps for the remaining nine coupons, and left. Having plenty of other more profitable ways to spend my time that day, rather than going after a few cents, of course I decided to pursue the matter. At first, the customer representative at the 1-800-265-3416 Canada Post customer information number seemed unclear as to the rules governing I.R.C.'s and promised to have her supervisor call me back. The supervisor didn't call, but the original contact person did and after many questions and much discussion, I determined that

- a) there is no expiry date for I.R.C.'s
 - b) regardless of country of origin, they are redeemable for 68 cents postage.
- Source: Canada Postal Guide Part II, ver, 07-90 section 106.3, or 206.4

Armed with this information, and a promise from Yvonne of Canada Post to back me up, I returned to the corner store cum post office. This time, the clerk told me it wasn't worth arguing over, and gave a 78 cent stamp. Now, if I can only find a regulation governing Postal Employees Attitudes.

(Note: This is the first of three segments of a two page treatment of the subject of IRC's prepared by VE3DKJ for the Hamilton Amateur. The other segments will follow in the Groundwave, Ottawa, as space permits for this very clear explanation of a sometimes confusing subject.)

**JOE NORTON TRUST AWARD
FOR AMATEUR RADIO**

The Ottawa Amateur Radio Club Inc. awards annually the Joe Norton Trust Award for the advancement of amateur radio. The amount of the award this year is approximately \$800.

ELIGIBILITY

To be eligible, a candidate must:

1. Be a resident of the National Capital Region as defined by the official federal government map;
2. Have received a Certificate of Proficiency in radio from Communications Canada during the period June 1, 1989, to June 1, 1991;
3. Send a written submission of no less than 600 words and no more than 900 words to the Executive of the Ottawa Amateur Radio Club Inc., setting out his/her interests, achievements and plans to contribute to the advancement of amateur radio; and
4. Present him/herself for an interview if so requested by the judges.

RULES

1. Entries must be received on or before June 1, 1991. No entries received after that date will be considered.
2. The club will send acknowledgement in writing upon receipt of an application.
3. A panel of judges appointed by the Executive of the Ottawa Amateur Radio Club Inc. will evaluate all entries submitted before the deadline.
4. Finalists may be interviewed by members of the Executive of the Ottawa Amateur Radio Club Inc. or the panel of judges or both.

5. Submissions will not be returned unless accompanied by a self addressed stamped envelope.

6. If the judges do not select a candidate in any year, no award shall be made in that year and the monies shall return to the Fund to be awarded in subsequent years.

7. The decision of the Executive of the Ottawa Amateur Radio Club Inc. in the selection of a recipient of this award is final.

8. The winner will be notified on or before August 15, 1991.

9. The winner will notify the Ottawa Amateur Radio Club Inc. of his or her acceptance of the award no later than August 22, 1991.

10. The award will be made during the regular club meeting in the month of September 1991.

11. The winner agrees to have his or her name, photographs and address published in club bulletins, trade papers and on the airwaves.

SEND YOUR ENTRY, TO BE RECEIVED NO LATER THAN JUNE 1, 1991, TO:

The Joe Norton Trust
Award for Amateur Radio
The Ottawa Amateur Radio Club
P.O. Box 8873
Ottawa, Ontario
K1G 3J2

CARF OPERATING AID

A recommended Band Plan

The Amateur regulations allow operation on any mode anywhere on the Amateur Bands, subject to maximum bandwidth considerations. To avoid chaos and allow the maximum pleasure for the most operators, Amateurs have developed a set of voluntary practices which define which modes will be found in which places on the bands.

The most widely know band plans are those published by the IARU, the

International Amateur Radio Union. We are in IARU region 2. CARF suggests the following plan which is more restrictive than that allowed by the IARU recommendation because of our proximity to the United States. In the USA modes are regulated by law and in some cases if Canadian Amateurs were to use all the IARU recommended modes we would cause needless interference and annoyance to American operators. These plans are based on the former DOC regulated subbands.

<u>Band</u>	<u>Frequency</u>	<u>Modes</u>	<u>Low Power QRP - CW</u>
160	1.800-1.840	CW (DX Window 1.830-1.840)	1810
	1.840-2.000	Phone	
80	3.500-3.725	CW (RTTY 3.600-3.645)	3560
	3.725-4.00	Phone (SSTV 3.840-3.850)	
40	7.000-7.050	CW	7030/40
	7.050-7.100	CW, Phone (RTTY 7.070-7.080)	
	7.100-7.150	CW (the US novice CW lies here)	
	7.150-7.300	Phone (SSTV 7.170-7.180)	
30	10.100-10.150	CW (RTTY 10.140-10.150)	10.106
20	14.000-14.095	CW (RTTY 14.070-14.095)	14.060
	14.095-14.099	Packet	
	14.100	Beacons - do not transmit here	
	14.101-14.350	Phone (SSTV 14.225-14.235)	
17	18.068-18.110	CW (RTTY 18.100-18.110)	18.106
	18.110-18.168	Phone	
15	21.000-21.100	CW (RTTY 21.070-21.100)	21.060
	21.149-21.151	Beacons - do not transmit here	
	21.100-21.450	Phone (SSTV 21.330-21.350)	
12	24.890-24.930	CW (RTTY 24.920-24.930)	24.906
	24.930-24.990	Phone	
10	28.000-28.200	CW (RTTY 28.070-28.150)	28.060
	28.200-29.300	Phone	
	29.300-29.510	Satellite downlink (no transmissions here)	
	29.510-29.700	Phone, FM phone, and repeaters	

