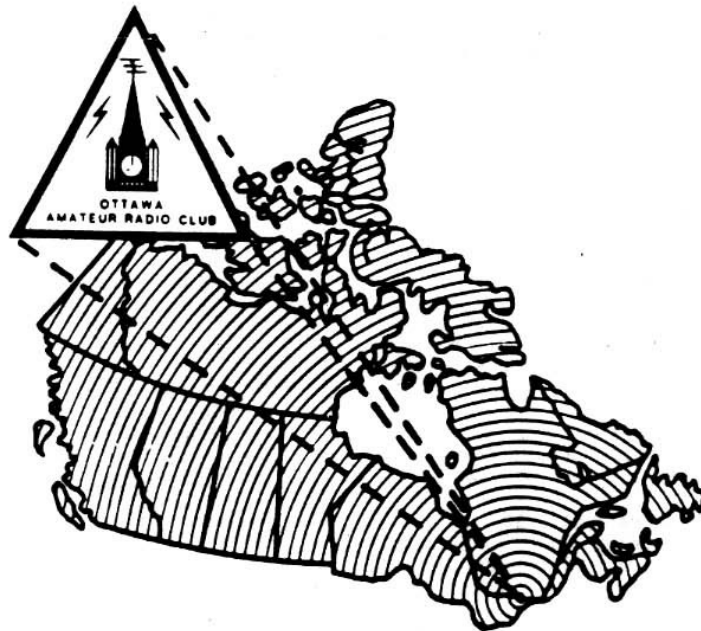


MAY 1996

# THE GROUNDWAVE



NEXT MEETING WILL BE HELD  
WEDNESDAY, MAY 8, 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

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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		
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Repeater Chair	Harrie Jones, VE3HYS	739-9365	738-2372
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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 RMOC 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.

COPIES BELTS AND AN ENGRAVING PENCIL are available for club members. The engraving pencil (to mark for identification in case of loss or theft) and the belts with pole straps are available. 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
VE3XDX	Packet	145.11(SX)

For further information, please contact repeater chairman.

OARC WWW Home Page:

<http://www.worldlink.ca/oarc>.

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**MAY MEETING:** Wednesday, May 8, 1996, at 7:30 p.m. Keefer Room, RMOC, 111 Lisgar St., Ottawa.  
 Programme: **Member Recognition & Awards**

MINUTES OF THE OARC MEETING  
APRIL 10, 1996

The meeting was called to order at 19:30 by Richard Hagemeyer, VE3UNW. In response to last month's minutes, Doug Bell, VE3CDC lent a gavel to Richard for the meeting. The gavel was originally given to Doug in recognition for his long service to CARF.

The President Richard, VE3UNW asked that guests introduce themselves.

Fred Green, VE3IO asked for help putting up a yagi. Russ Lowe, VE3LOW agreed to help.

The following announcements of interest the radio amateur community were made:

1. With the coming of "antenna" season (between "it's too cold" and "gee, the bugs are bad" as Mike, VE3FFK put it last month) it should be noted that Paul, VE3ICV and Brian, VE3JKZ are custodians of the club's safety belts. See page 2 of the Groundwave for their phone numbers.

2. Fred, VE3IO, a member of the Solar Energy Society of Canada mentioned that a solar car rally is scheduled to arrive in the region on June 24th. The vehicles are leaving London on the 22nd. Volunteers for communications are required. Contact Carolyn Luse at 241-8176 or email to: solar@worldlink.ca for more info.

3. Nominations for the club executive are being sought. Peter, VE3PWJ has agreed to participate in the nominations process, but is looking for another to help him. If you would like to help Peter or are interested in helping on the executive, please contact Peter at 836-1013 or any member of the executive.

4. This coming weekend at Landsdowne Park, is an "Autorama" featuring unusual cars. And yes, Fred will be there with his silent buggy!

Homebrew night this year didn't likely disappoint many attendees (about forty). Five entrants had their wares filling the front tables. The projects were presented in callsign sequence.

First up was Mike, VE3BUP displaying his new bike mobile setup. After the unfortunate theft of his last bike from the garage, he had an opportunity to rebuild from scratch. With multiple watts of power going to various front and rear lights, some of us wondered if any went to the radio! A very impressive system engineering job which included a halfwave vertical and water bottle battery mounts!

Next up was Mike, VE3FFK showing off a 20 Watt dummy load made from resistors he found at a deal "too good to pass up". It shows a good SWR up to 200Mhz. Mike also combined a bit of a review and a discussion with his next project -- a DSP (digital signal processor) filter. The kit cost him about \$150 US from Quantics and he spent at least much time on the kit as the metal work for the case.

Brian, VE3JKZ amazed us all with a multi-band SSB/CW HF rig. The rig is the result of two years effort and numerous flea market visits. It puts out 40 Watts on 80 Metres and about 20 Watts on 10 Metres. In order to complete the project, he required some test equipment which he built. A small two-tone generator and a sine/square wave generator capable of 50 Hz - 67 KHz were also displayed.

Next, Clare, VE3NPC showed off some impressive stuff related to satellite work. He had built a 1.3 Ghz helical antenna and needed to check the SWR. He went on to show us that measuring SWR at that frequency was not the easiest thing to do. Armed with a number of overheads, he educated us all a bit on the intricacies of building with tiny waves.

Finally, Greg, VE3YTZ showed us the results of the HW-8 alignment effort the Advanced class have been working on lately. Although this project is not really a homebrew effort, it seemed appropriate to show tonight. After the club members had a chance to "inspect" the work done, it was returned to Jay, VE3SGU with thanks for the opportunity to work on the radio and for the donation of the un-built HW-8 to the class. Jay responded with another surprise -- he recently won a Bar-B-Q and offered to sell it to a club member and add the monies to the pot. Carl, VA3CGM took the Bar-B-Q for \$50. Thanks again Jay!

The members broke for coffee and "toy inspection" while the judges deliberated.

This year's OARC Technical Achievement Award was won by Brian, VE3JKZ. He received a \$130 gift certificate from Bytown Marine. Thanks to Graham, VE3GGW for topping up the award.

The 50/50 draw run by Peter, VE3LBW was won by Peter, VE3LBW!

### mk's WORDS

Apr 17 96 - Is it just me, or is time going slower and faster at the same time? I guess it must be spring again - if only these snowflakes would stop falling out of the sky. It's half past April already! I took a look at my logbook after last Monday's net. It showed a page had gone by since the line noting that local time was UTC:-5. The previous similar notice was many pages back. It turns out that by far the majority of "loggable" (HF, contest, bike mobile and so on) contacts are made between the spring and fall time changes, rather than over the winter months. I guess radio is more of an outdoor sport for me. Whatever, it's antenna time again. This year's plan (it's so easy to PLAN things in February) is to put up a loop in the back yard. If all goes well, it will be similar to the one in the trees out front, only bigger. It may be enough for 80 Meters this time. If there is any extra time (HA!) I might even work on the loop at the front of the house so it doesn't threaten the junk mail carriers with a hanging every time they come up the front walk....(on second thought, maybe I should leave it alone).

With any luck, I should get a chance to play with a couple of the toys accumulated since the last time the earth was warm. You saw one of them (the DSP toy) at the April meeting. I will try to bring the others in for May or June. I'm not riding the bike to work these days, so not on the air as much. To compensate, I seem to be collecting the things that have been on my wish list for a while. It's not that I need another radio, but some of them are just so darned irresistible that, like it says in the commercial you "gotta have it".

There are a few fleamarkets coming up all too soon. Remember to bring a flashlight for those deep dark boxes under the tables. A magnifying glass for those with old eyes wouldn't hurt any either. See you there.

GROUNDWAVE SWAP SHOP

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.

WANTED

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

FOR SALE

1. TRIO/KENWOOD Oscilloscope, Model CO-1303G. Contains built-in two-tone generator, and RF monitor. Very Clean, complete with manual. \$195.
2. Lafayette Receiver, Model KT-340. 550 KHz - 30 MHz. Bandsread on 80/40/20/15/10 meters. Built-in BFO, "Q-multiplier" and noise limiter. Very clean with manual. \$65.
3. Low Pass Filter, 50 ohm, MFJ-704. 1 KW. New, sealed in box. \$30.
4. Eimac Tubes: 3-400Z and 4CX350A, several of each. Unused. each: \$60.
5. Table-top Rack Cabinet, Hammond. 20"W x 13"D x 8"H. Very clean, original Hammond Grey paint. \$35.

Contact Brian Summers, VE3JKZ 613-523-1535, concerning these items.

WANTED

Modulation transformers 500 W - 1000 W  
Modulation reactors (chokes) 30 HY or higher, 500 mA or higher.

Contact: Ed Sieb, VA3ES, at (613) 738-8924

FOR SALE BY CLOSED AUCTION

The Heathkit HW-8 recently donated to the OARC Advanced Class will be auctioned off at the June meeting of the OARC. This Heathkit HW-8, is an unbuilt kit in very close to pristine condition. Two "spare" integrated circuits chips are included and, as near as we can tell, all original Heath documentation and parts are in the box. It will be auctioned "as-is".

Written bids must be received by June 12th, 1996, 7:30pm and will only be accepted from club members. Bids may be mailed to the club address or handed to the club secretary at the May or June meeting.

STOLEN EQUIPMENT

On April 3rd at approx. 3:00am in the morning, 2 people (that are known of) broke into St. Charles College in Sudbury. They climbed through a window and went straight to the back room, broke through a steel door with a dead bolt that was locked and stole the following equipment:

2m Icom IC-22 transceiver  
HF Icom IC-745 transceiver  
Yaesu HF transceiver - model type not known  
Astron Power Supply  
NPC 103R Power Supply  
Yaesu Microphone  
Yaesu Speaker-Filter  
RF Switch B+W  
Morse Code Interpreter MBA 110  
KANTRONICS KPC-2 & matching 2m transceiver DUR 2-2  
Antenna Tuner

also Video Editing Equipment:  
Videonics Titler  
Videonics MX1 Mixer  
Video Editing Station Sony-IVO-9700  
2 T.V.'s Mitsubishi CS11101  
(2X) Sharp SlimCams VL-L63

SER# 311312069 & 311312007  
 Rechargeable Batteries - for the  
 SlimCam's  
 2 Battery Chargers  
 many RCA cables  
 2 Hi8 tapes

The total amount exceeded \$20,000. The insurance company will not cover any of this equipment since the deductible is \$100,000. Without this gear we don't have a Communications course. If you know anything please contact me, Phil 1-705-693-9454. Packet: VE3XPD@VA3HTM.#NE.ON.CAN.NA St. Charles College Tech. Dept. 1-705-566-9605 or the Sudbury Police.... Thanks..... '73 de Phil. VE3XPD

#### EDITOR'S THOUGHTS

Hamfest season is upon us, and many of you will have already attended the Smiths Falls Fleamarket, by the time you read this. I hope you found many neat bargains. Though we won't admit it, fleamarkets are just an excuse to swap contents of basements around the ham community. There are two significant fleamarkets coming up, both within driving distance of Ottawa; Tracy, Quebec, southeast of Montreal on Sunday, May 26, and one week later in Montreal, (in Cote St-Luc actually), on June 1st. I'll probably be at both, scouring for boat-anchors.

Speaking of boat-anchors, the **Canadian Boat-anchor Net**, is doing quite well and growing in popularity. The net is held each Saturday at 15:00 hrs E.T. on 3745 kHz. The usual net control is myself, VA3ES, with occasional assistance by Brian VE3JKZ. If you're interested at all in classic or vintage ham radio equipment, or in discussions on home-brewing rigs, please check in.

And since we're on the topic of things classic, here's a Capital the Quarter Century Wireless

Association will be holding it's International Convention in Ottawa this year. Please take a look at the announcement in this issue.

C U at the fleamarkets... de VA3ES

#### OARC CLUB BUDGET 1996/1997

No. of Members	125
Membership Fee	\$20
Total Income	\$4,535
Total Expenses	\$4,525
Surplus	\$10

<u>Income Item</u>	<u>Amount</u>
Membership Fees	\$2,500
Flea Market	1,750
Packet Group Licenses and Lease	160
50/50 Draws	75
Bank Interest	50
Total Income	\$4,535

<u>Expense Item</u>	<u>Amount</u>
Groundwave	\$1,250
Insurance	1,000
Flea Market	750
Repeater	350
Club Groundwaves	350
Prizes/Awards	200
Station Licenses	150
Club Promotion	100
Carleton University Site Lease	100
PO Box	75
Field Day	50
New Ham Groundwaves	50
Bank Charges	50
Incorporation	25
SLV Repeater Council	25
Total Expenses	\$4,525

A motion to increase the club fees from \$15 per year to \$20 per year will be tabled at the June annual meeting. This budget and the proposal to raise the yearly dues have been discussed and were unanimously passed at a regular meeting of the club executive.

# All Radio Amateurs Invited

## " A Capital Idea! "

### Advance Registration 1996 QCWA International Convention Ottawa Canada

4-5 October 1996

Hosted by:

*National Capital Chapter No. 70*

at the Citadel Inn, 101 Lyon St., Ottawa,  
Ontario, Canada, K1R 5T9



(75 rooms have been reserved at \$78.00 Cdn., single or double, (Seniors: \$72.00 Cdn.) Taxes/parking extra. Contact the hotel directly at 1-800-567-3600 or by fax at (613) 237-2351 by Sept. 3, 1996 mentioning QCWA to ensure special rate.)

Name \_\_\_\_\_ Call \_\_\_\_\_ QCWA# (if any) \_\_\_\_\_

Spouse/Guest \_\_\_\_\_ Call (if any) \_\_\_\_\_

Mailing Address \_\_\_\_\_

City/Town \_\_\_\_\_ Prov./State \_\_\_\_\_ Code/Zip \_\_\_\_\_

Telephone ( ) \_\_\_\_\_ - \_\_\_\_\_ E-Mail or Packet \_\_\_\_\_

(For your convenience, the following rates are shown in both Canadian and US funds, rounded to the nearest convenient amount. Please remit using whichever currency you wish.)

Registration	No.	Req'd.	Cdn Funds	US Funds
Amateur Registrant	_____	@	\$13.00 _____	@ \$10.00 _____
Spouse/Guest	_____	@	\$ 2.50 _____	@ \$ 2.00 _____
(Note: You must pre-register to attend functions listed below)				
Saturday Buffet Breakfast	_____	@	\$14.00 _____	@ \$11.00 _____
Saturday Banquet (beef sirloin)	_____	@	\$34.50 _____	@ \$27.00 _____
(roast turkey)	_____	@	\$26.00 _____	@ \$20.50 _____
Sunday Brunch	_____	@	\$19.75 _____	@ \$15.50 _____
Friday Double Decker City Tour & Tea (3 hours - afternoon tea included)	_____	@	\$18.50 _____	@ \$14.50 _____
Sunday Steam Train Foliage Tour (13:00-19:00 - 36 miles return, to visit town of Wakefield, Quebec)	_____	@	\$29.50 _____	@ \$23.00 _____
<b>Total (Cdn)</b>	_____			<b>(US)</b> _____

Queries may be made via Internet: [bo075@FreeNet.Carleton.Ca](mailto:bo075@FreeNet.Carleton.Ca) Packet: [VE3GFI@VE3FD.#eon.on.can.noam](mailto:VE3GFI@VE3FD.#eon.on.can.noam)

or Telephone: (613) 826-2426 Advance registrations must be received by 16 September 1996

Make cheque or M.O. payable to 'QCWA Chapter 70/1996 Convention' and mail with this form to:

Carl Everson, VE3BYX, P.O. Box 4, Osgoode, Ontario, Canada, K0A 2W0

**All Radio Amateurs are invited to attend the International Quarter Century Wireless Association's Convention being held in Ottawa on October 4 & 5, 1996.**

The scene of activity for the first QCWA Convention ever held in Canada will be at the Citadel Inn hotel where your stay will be comfortable, and sessions on various Amateur Radio subjects will be interesting and entertaining. Jack Belrose talks about The Fessenden/Marconi Story; Gerry King and Super Antennas; George Roach on The CFRA Move; Larry Kaiser EME-Algonquin Style; Barry McLarnon, Packet Radio-The Ottawa Experience; The UFG Story; a Vintage Radio Display, and more.

A double-decker bus city tour has been arranged, as well as a steam train excursion through the beautiful Gatineau Valley in Quebec at the peak of its colourful autumn foliage. With places to visit like the Museum of Civilization, the National Art Gallery, the Museum of Science and Technology, the Parliament Buildings, plus, plus, and of course shopping, we feel assured that your visit will be enjoyable.

Ottawa is about a 2 1/2 hour drive west of Montreal; about 4 1/2 - 6 hours east of Toronto and Niagara Falls, and is joined to the St. Lawrence River by the Rideau Canal System.

Copies could be made from the registration form included, or found on the Internet's QCWA page (<http://www.efn.org/~qcwa>), or by phoning 1-800-481-4649.

It would be appreciated if information on this event could be publicized in your Newsletter and at your Club meetings.

**Come help us make this International Amateur Radio Convention a success and enjoy yourself in the Nation's Capital!**

Joan Powell VE3ZC  
Publicity Chairman