

SEP 84

THE GROUNDWAVE

RSO CONVENTION '84

October 5,6,7, 1984 - THE WESTIN HOTEL



Club Call VE3RC

Repeater VE2CRA



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THE OTTAWA AMATEUR RADIO CLUB, Inc. is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the Ottawa regional area and to the advancement of the technical competence and achievement of Club Members.

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 Ottawa regional area.

THE SWAP NET, a service of the Ottawa Valley Mobile Radio Club, Inc., is repeated on the Capital City Net and is conducted by Ed Morgan VE3GX. To list items and make enquiries, call Ed at 733-1721.

The **OARC EXECUTIVE** normally meets on the second Wednesday of each month in the Board Room of CFRA, 150 Isabella St., OTTAWA at 1930 hours. Contact the President to confirm the date of the next meeting.

DEADLINE FOR COPY is the first Wednesday of each month. **SEE YOUR NAME IN PRINT!!** -- in national and international publications. Write an article for the **GROUNDWAVE** and watch it travel! Many local articles have been reprinted in Club Bulletins across North America.

REGULAR MEETINGS of the OARC, Inc. are held on the first Wednesday of each month (except July and August) at the National Research Council Auditorium, 100 Sussex Drive, OTTAWA, at 2000 hours. A bulletin board is available for posting notices of interest to other members at about 1915 hours. For further details about the next meeting, see Page 5.

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

SAFETY BELTS, TWO METRE RIG and an **ENGRAVING PENCIL** are available for loan to Club members. The two metre rig may be borrowed by members who are hospitalized and the engraving pencil (to mark valuables for positive identification in case of loss or theft) and safety belts with pole straps by any member. A \$100 refundable deposit is required for the belts. Contact the President for the two metre rig or the engraving pencil and Paul VE3ICV at 820-6643 (west-end) or Brian VE3JKZ at 523-1535 (east end) for the belts.

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

MINUTES OF THE MEETING OF THE OTTAWA AMATEUR RADIO CLUB, Inc.
June 6th, 1984

The meeting was called to order at 2012 hours by the President, Joan VE3FVD. She thanked Ed VE3KLP and his assistants Rickh VE3HVA and Larry VE3CRX for preparing the new Club Directory. They received a round of applause. Several members had not yet received their copies of the GROUNDWAVE. Brett VE3JLG provided some information on packet radio and fielded several questions from the audience.

Wally VE3CBE presented a kit from ARRL on CATVI: material from the Vancouver and Halifax interventions and a videotape. Wally VE3CBE observed that most problems are due to customers' actions such as the use of open twin lead to feed a second TV set. When the cable companies are at fault, they usually respond to a little bit of aggressiveness. Wally is concerned that a signal on Channel E will wipe out Ham two metre activities. Doug VE3CDC suggested that an open file should be kept on complaints to prepare a well documented case for DOC. Art VE3ZS reported a CATV carrier on Channel E and thus, amateurs should maintain a presence on the frequency.

George VE3BNO gave a list of the prizes to be won at the RSO Convention. He stressed that the big worry is "How many of YOU will come?" The outsiders will be there to witness the good show to be put on by the Ottawa Amateurs. Get your spouse, friends acquaintances, etc. to attend, and more important, become involved.

Bruce VE3MJV displayed a home-made two metre quad satellite antenna costing about ten dollars, whose general dimensions are given in the Satellite Experimenters' Handbook. Guests Henry VE3OMU, Chris VE1CKL and VE3OHC were welcomed to the meeting.

George VE3BNO demonstrated a contraption which allows one to ground several pieces of equipment, isolating power and equipment grounds.

Ken VE3IHX of EMO reported that operators were needed on June 16th for a Walkathon organized by Carleton University, the triathlon to take place in mid-summer and the Papal visit. Anyone with knowledge of special equipment is asked to contact Ken.

Dan VE3EBI reported that Algonquin College is having an open house for the handicapped to encourage them to take courses, such as Amateur Radio.

Orders for the Canadian Call Book are being taken by the OVMRC. Doug VE3CDC reminded members of the general meeting of CARF June 23rd, and the Symposium in Kelowna, B.C. on October 23rd.

Club Members were told to prepare for a fight with Ottawa City Council on towers and dish antennas responding to citizen concerns about the environment. Reports on the Joe Norton Trust fund, Field Day and the need for a sponsor to provide assistance to white-caner Chris Stark VE3OMH in Orleans/Cumberland (phone 32--2167 or 225-7733) were given. Lloyd VE3AYE moved and Ralph seconded a motion that the Club spend up to \$150 to buy tower sections was passed. The door prize was won by Bill VE3BDO.

RSO CONVENTION - LADIES

Thanksgiving weekend, October 5-7, 1984, is Ham Radio Convention time in Ottawa at the new Westin Hotel, right beside the Rideau Centre. We hope that the Ham in your life will be spending at least a part of that weekend at the Convention; why don't you consider joining him?

Consider: Spending time in the beautiful Westin Hotel
Letting your man take care of the parking
Perhaps a weekend being pampered in a luxury hotel with
all the facilities at a very reasonable rate
(\$63.00 per night)
Have a turkey dinner with no fuss, followed
by dancing to a live band. (Show off the
new dress you just bought at the Rideau Centre.)
One chance in 250 of winning a microwave oven
or another prize.
Displays and demonstrations on plants, cooking,
colour coordinating your wardrobe and learn
how to make corsages, making one free to wear to
the banquet.

All this is only \$4.00 if you register before September 1st or
\$4.50 afterwards.

All tickets for the microwave will be placed in the box, even if
you cannot attend (GREAT ODDS!).

HELP!!

We want to set up craft tables to sell items made by us and our
friends. If you are someone you know makes anything that might sell:
felt decorations, table centres, ceramics, knitting, stained glass,
weaving, painting, crocheting, carving, sewing, plant propagating,
etc., please phone us. We will try to sell your crafts at a price set
by you. Afterwards, we will return any unsold items and the profits to
you, all at no charge. If it doesn't sell, you can always use it as a
Christmas gift! We want this to be "our" show, not one by
"professional" crafts people who have easier access to selling their
products. The tables will be open from 10:00 am until everything is
sold, or until 3:30 pm. Thus, we will need a few people willing to
donate an hour or so to staff each of the tables. Even if you only
have one crocheted doily, two pairs of mittens or three felt Christmas
tree decorations, we would like to display and try to sell your items.
There is lots of time between now and October to create something.

OR, if you have an interest about which you would like to talk or
give a demonstration, or if you know someone else who would, contact
us. Does your neighbour sell Sarah Coventry, Mary Kay or Tupperware?
We want lots of involvement, opinions, advice and help from everyone
to make this a great convention.

Do you know anyone: a store owner, company manager, real estate
agent, etc. who might be kind enough to donate a prize or little
hand-outs. Their companies would, of course, be advertized.

WHAT NEXT?

The next regular meeting of the Ottawa Amateur Radio Club, Inc. will be held on Wednesday September 5th, 1984 at 2000 hours in the National Research Council Auditorium, 100 Sussex Drive, Ottawa.

The main topic for the September meeting will be *The Care of NiCad Batteries*.

How about "signing-in" at each meeting? A clip board will be located at each side of the auditorium as you enter. Your name listed here gives you an opportunity to win the door prize and helps the Executive in future planning.

Remember our Club Bulletin Board at the front of the room. It is set up at about 1915 hours on meeting nights. Come early, and make use of it!

Enjoy talking with other members of the Club; enjoy the meetings--see you there!

RADIO COMPANIONS

by Fred D. Green VE3IO

As from afar, my senses gained
That rush high sound that sleep detained.

My drowsy shroud was swept away
It's the two metre rig on the folding "J".

I stumbled to bed quite late last night
And forgot to shut the power and light

After some goodnight words with Jim -- "KF"
Just goes to show, the band's not deaf

There were several of the lads around
Quite a few were cottage-bound.

Well, as I "creaked from the sack" (we codgers say)
I heard the bright voice of "GK"

Anxious as ever his "needle" to test
And already contacts in there with the best.

But Jerry took time to answer my call
And with cheery words my thoughts raised tall.

There are friends out there -- both young and old
In many a land -- both hot and cold!

And so I hope it's plain to see
Why radio means so much to me.

COMING EVENTS * * * COMING EVENTS * * * COMING EVENTS * * * COMING EVENTS

- 5 Sept First meeting following the summer recess for the Ottawa Amateur Radio Club. Time, as usual, 7:30 for 8:00 at NRC, Sussex Drive.
- 14 Sept Teleconference. The speaker will be Bob Heil K9EID on "Microphone Equalization for the Amateur." Look for it on VE2KPG around 1900 hours.
- 23 Sept If you are down in the London region, the LARC annual Flea Market holds forth at the Pot O' Gold Bingo Palace, Hamilton and Gore Roads, 0800 to 1400 hours. It's a biggie!
- 3 Oct The second meeting of the OARC for this season, Make a note!
- 5-7 Oct RSO Convention. If you read this, you are probably involved. If you are not involved and you don't have tickets, ask any ham in the neighbourhood, or try a query on 2 metre relay, VE2CRA 146.34/146.94.

The following piece originated as an extract from an article in "Two-Way Radio Dealer." It has been picked up by several ham bulletins and is good advice for anyone who has had a beam up for a year or several.

RETARDING THE AGING PROCESS

When the antenna type has been determined and the system is ready to be installed, a little bit of extra preparation will go a long way to improve the reliability of the system. All antennas will deteriorate with age. Any steps you can take to retard the aging process will pay off in extended trouble-free performance. Aluminum to aluminum contacting surfaces will corrode on antennas and create havoc in certain cases. The problem is more severe in higher frequency VHF applications and in High "Q" yagi designs of more than four elements.

Aluminum oxides, sulphides, etc., readily form all over the antenna as soon as it is exposed to the environment. Industrial pollutants and salt air will act as a catalyst to speed up the oxidation process. Aluminum oxides are non-conductors of electricity and can actually cause boom-to-element contact surfaces to "disconnect" with age. When this occurs, the element electrical length will shift and serve to detune the antenna off its original frequency.

As an example, I recently had the opportunity to test an 8 year old yagi in the 230 MHz range. The gain vs. frequency had shifted down to about 214 MHz! The response had numerous dips and peaks evident, rendering the antenna useless. The element mounting method employed was through the boom. Elements were secured with nuts and bolts. The hardware had a zinc plating that had long expended itself. Gain at 230 MHz was almost zero instead of the 11 dB claimed.

I disassembled all elements and removed the oxide coating from the boom around the element holes. The elements were cleaned only at the point where they passed through the boom. New hardware was installed as the elements were placed on the "clean" boom.

A second look at the antenna pass band revealed a center frequency of 230 MHz with no dips or peaks at all, rather a smooth bell-shaped curve.

(cont. next page)

These effects and other related detuning ills can be delayed by the application of a weatherproof clear spray on all aluminum joints and electrical connections. The whole antenna need not be coated, just the potential problem areas.

Electrolysis effects with dissimilar metals can be retarded as well. Stainless steel fasteners on driven elements should be sprayed. Acrylic sprays commonly available are not acceptable in this application since their ultraviolet light capabilities are poor. They break down in sunlight in a matter of months. A better choice would be a slow-drying, non-acrylic, clear spray such as Rust-O-Leum "Clear Seal."

tnx to Kitchener Waterloo ARC

 IS 10 METRES OPEN ?

Just listening casually on ten metres may not give a true indication of which areas of the world are actually open. What if everyone is listening and no one is transmitting?

A 24 hour Beacon Transmitter will quickly tell you where to point your beam, the quality of the path, and whether to try short or long path.

There are two ways to check BEACONS. Start tuning at 28.200 and work up the dial, or tune your rig to the beacon nearest the country of interest and see if the path is open.

Checking one particular beacon on an hourly basis will give you a very accurate reading of propagation to that part of the world.

The following is a list of 10 metre beacons. They usually send a very long dash and then identify in CW. If you hear any of the new ones, please pass the information on to me and I will have an updated list in the Fall edition of Skyhook. (and Groundwave will pick it up. ED.)

28.2025	9J2BDD	Zambia	
28.205	DLOIGI	Mt. Predigtstuhl	
28.205	ZS5VHF	Durban	
28.2075	WD4HES	Florida	
28.210	3B8MS	Mauritius	
28.215	GB3SX	Crowborough	
28.215	ZD9GI	Gough Island	
28.2175	VE2TEN	Quebec	
28.220	5B4CY	?	(Tnx to Ken VE3MVN
28.230	ZL22MHF	Mt. Climie	and Skyhook, the
28.235	VP9BA	Southhampton	bulletin of Skywide
28.2375	LA5TEN	Oslo	ARC, Toronto)
28.240	OA4CK	Lima	
28.245	A9XC	Hamela	
28.2475	ZS1CTP	Capetown	
28.2525	VE7TEN	Vancouver	
28.2525	DK0TE	Konstans	
28.260	VK5WI	Adelaide	
28.262	VK2WI	Sydney	
28.270	ZS6OW	Pretoria	
28.2725	TU2ABJ	Abidjan	
28.280	YV5AYV	Caracas	
28.285	VP8ADE	Adelaide Island	
28.290	VS6TEN	Cape d'Aguilar	
28.295	VU2BCN	New Delhi	
28.3025	ZS1STB	Still Bay	
28.315	ZS6DN	Johannesburg	

The following poem was found by Peter VE4AEZ in the October issue of QST, 1947, some 37 years ago. That is, it was published then, but discovered and published again in the Manitoba MANAM in Nov/Dec 1981. The author was W4KGD.

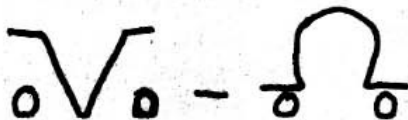
Today I held the wide world in my hand:
 Space rolled away and England's sun was low,
 As Ken of Cambridge told me of his land.
 Next, fast as thought, as he said "Cheerio,"
 I raced the sun, until at zenith time
 O'er western plains I said "Hello" to Lee—
 Then "73," and morning skies were mine
 As John became my host at Waikiki.
 The XYL recalled my wandering
 To Georgia's pines, for dinnertime was nigh.
 When, afterward, with Venus shimmering
 Beside a thin new moon and Mar's red light,
 I gazed their way, and wondered as night fell
 "Cannot we hold these in our hands as well?"

 IS 20 METRES OPEN ? (courtesy of WIRE, The West Island ARC Newsletter)

On the previous page, a world-wide system for checking ten metres requires that you tune across the band to find the beacons that are audible at your location. Here is the beacon system for twenty that uses a time division station separation rather than a separation by frequency. Each of the following stations transmits in turn for one minute commencing on the hour. These stations, all on 14,100 KHz, are

1st minute	4U1UN/B	New York
2nd "	W6XB/B	California
3rd "	KH6O/B	Hawaii
4th "	JALIGY	Tokyo
5th "	4X6TU/B	Israel
6th "	OH2B	Finland
7th "	CT3B	Madeira
8th "	ZS6DN/B	South Africa
9th "	{ A two minute break then another cycle begins.	
10th "		

 WHAT IS IT ?



(mobile Ohm)
 a Voltswagon pulling

Courtesy of Worldradio

 News Note — The Toronto FM Communication Society has dropped its Bulletin in favour of four newsletters per year from the President. The TFMCS have also increased their Board of Directors to eight with four of the eight to be elected each year. The current President of the TFMCS is Jim VE3NGF.

RSD Convention - Ladies -- Continued

If you want more information, have any questions or advice or if you wish to tell us about something, please call:

Penny Sipkes 225-1276
 Betty Fraser 726-0891
 Marion Caskey 224-6415

THE CONVENTION WILL BE ONLY AS GOOD AS WE MAKE IT! PLEASE HELP.

CORRECTION to Page 2

Ass't Editor J. Gord MacKay 611 Pleasant Park Dr. 733-6583
 VE3JMT OTTAWA, Ontario, K1H 5N3

EDITORIAL

W. Murray Strome VE3PY, Editor

A new season will be starting in September. There will be many exciting events for the Members of the Ottawa Amateur Radio Club, Inc. Undoubtably, the highlight of the year will be the RSD Convention. The way plans are shaping up, it is likely that this will be even better than the last Convention sponsored by our Club--in fact, it will probably be the best RSD Convention yet. Be sure to attend, and help the organizing committee, if you can.

For the past several years, I have had the honour of serving the club as Editor of the **GROUNDWAVE**. The job has been frustrating at times; often I have found it extremely difficult to find the time to put together the next issue, especially by the deadline; sometimes, I have found it difficult to gather enough articles to fill an issue. Nevertheless, I have found it to be a rewarding experience. This work has given me the opportunity to get to know the Members of the Club better, and I have been able to gain a good appreciation of the efforts of the members of the Executives on your behalf. Incidentally, it has really honed my typing skills!

I would like to take this opportunity to thank both the present and past Editorial and Publishing staffs of the **GROUNDWAVE** for their dedication to the Club. Without their efforts, the Club would not have its monthly bulletin. I would like to give a special thanks to the current Executive for their encouragement and assistance. This year marks a record for me--every issue to date has been full, and on time. The credit for this must go to the staff and the Executive, especially to Joan VE3FVO, the President, who has taken an active interest in the **GROUNDWAVE**, and who has personally solicited a large number of the articles which have appeared. I would also like to give a heartfelt thanks to the contributors. These are the people who make the magazine. Finally, I would like to thank you all for your support and encouragement.

There are many tasks which must be performed by the Members of a Club for it to be successful. Please offer your talents to your Executive. YOU, the members make the Club what it is. I trust one of you will take over the job as Editor--you will find it a rewarding experience!



RSO CONVENTION '84

Hosted by -
OTTAWA AMATEUR RADIO CLUB

CONVENTION COMMITTEE

P.O. BOX 15806 STN. 'F' OTTAWA, ONTARIO K2C 3S7

The weekend of October 5-6-7 is fast approaching when the Radio Society of Ontario Convention returns to Ottawa for the third time. And have we got a show for you! Come join us at the new Westin Hotel, right in the centre of Ottawa, where the festivities start Friday evening with an Eyeball and dancing to a live orchestra. Saturday there is a program for ladies and non-members, but the real action is around the commercial displays and amateur papers and forums.

There will be a Department of Communications Forum-a DX contest forum-an Amsat paper and satellite tutorial-papers on both fast-scan amateur television and slow-scan colour TV-packet satellite communications-a session on antennas-a talk on VHF, the world beyond FM - RTTY will be covered and how to set up a basic amateur station-Antennas and BIG towers, Amateur emergency communications-EMI/RFI-Intruder watch-The computer in the hamshack-operating packet radio stations -- and that's just what we've arranged to date!

Of course, our movie theatre will be showing the latest amateur and technical films, and the prize room will be busy giving out those hourly goodies for your registration numbers. And how about those major prizes!

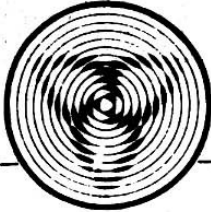
From Kenwood a TS 4306 High Frequency transceiver with microphone, external speaker and power supply. From Icom an IC 27A mobile VHF transceiver, and from Yaseau an FT 203R VHF Handheld. A desk top printer terminal, and for the ladies a G.E. microwave oven.

And there's the Saturday night banquet followed by dancing to Champ Champagne and his fourteen piece orchestra and a very light program for Sunday morning. What a way to spend a weekend!

Registration before September 1 is \$7.00 for RSO members/\$8.00 for non-members - \$8.00 and \$9.00 after. Ladies pay \$4.00 before September 1 and \$4.50 after. The Friday night Eyeball and dance is \$6.00 and the Saturday banquet and dance is \$27.00. The Westin is charging convention goers \$63.00 a night and this rate can be extended 2 days before and after the convention.

So come join us for a "Happy Thanksgiving" and watch for Amateur station VE3NCR on the air for further news.

Ottawa, Ontario - October 5,6,7, 1984 - THE WESTIN HOTEL



RSO CONVENTION '84

Hosted by -
OTTAWA AMATEUR RADIO CLUB

CONVENTION COMMITTEE

P.O. BOX 15806 STN. 'F' OTTAWA, ONTARIO K2C 3S7

REGISTRATION

SEPTEMBER 1, 1984

<u>BEFORE</u>	<u>AFTER</u>	<u>AMATEUR PROGRAM</u>	Number	Price	Total
\$ 7.00	\$ 8.00	RSO MEMBER(s)	_____	at \$ _____	_____
\$ 8.00	\$ 9.00	NON-RSO MEMBER(s)	_____	at \$ _____	_____
\$ 4.00	\$ 4.50	LADIES & NON-AMATEUR PROGRAM	_____	at \$ _____	_____

ACTIVITIES

FRIDAY

2000-2400 Hrs Eyeball, dancing to live orchestra.
Cash bar _____ at \$6.00

SATURDAY

**1900- Hrs Banquet followed by dancing to Champ
Champagne and his 14 piece orchestra _____ at \$27.00 ...

TOTAL \$ _____
(Canadian funds)

Please make cheque or money order payable to:
R S O CONVENTION COMMITTEE

NAME

ADDRESS
(Street) (City) (Prov/State) (Postal Code)

HOTEL REGISTRATION FORM WILL BE SENT WITH RECEIPT-APPLICATIONS RECEIVED AFTER SEPT. 1
WILL BE HELD AT THE REGISTRATION DESK.

** BANQUET TICKETS ARE LIMITED. RESERVE EARLY.

THE OTTAWA AMATEUR RADIO CLUB, Inc.
P.O. Box 8873
OTTAWA, Ontario, Canada
K1G 3J2



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