



Ottawa Amateur Radio Club

Groundwave

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Check out our Web Page: www.oarc.net

September 2007

Well, the start of another year and that means HAMFEST. Saturday, September 1, 10:00 for buyers (earlier for sellers). The information is on the last page of the Groundwave. The Hamfest this year also includes the RAC Annual General Meeting..

I occasionally get email from my electronic mail server indicating that some Groundwaves could not be delivered. This could be caused by a member's mail server being down for an extended period (days). Another possibility is that the member has changed email addresses or changed his forwarding path. Therefore, those of you who receive the Groundwave by email should remember to keep your email address up-to-date with the membership secretary.

Don't forget September is also the the time to renew your AORC membership. Dues are due by the end of the month.

The September meeting speaker is Lee McMurter, VA3LHM, sales manager at Durham Radio. Lee will be speaking on the latest in amateur radio equipment.

See you at the Hamfest and the meeting.

Ian Jeffrey, VE3IGJ, Editor



SEPTEMBER MEETING 7:30 pm, September 12th in the Honeywell Room at Ottawa City Hall

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Ottawa Amateur Radio Club

Groundwave

September 2007

Articles may be submitted for use in this publication provided that they portray events or activities that promote Amateur Radio. Letters and comments are also welcome. Submissions may be made by mail addressed to the Editor care of the OARC, or by e-mail to "ve3igi@rac.ca". Deadline for submissions occurs three days after the regular monthly meeting of the OARC.

Please support your local radio organisations. They support you!

Club Information

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 Honeywell Room (2nd floor of the Old Teacher's College) of Ottawa City Hall (formerly Regional Municipality of Ottawa Carleton Headquarters) on Lisgar Street. Meetings commence at approximately 19:30 hours. Further details about each meeting is elsewhere in this publication.

Executive Meetings of the OARC Inc. are normally held on the first Wednesday of each month at 19:30 hours. Contact the President to confirm the date, time and place of the next meeting.

The CAPITAL CITY FM Net meets every Monday at 20:00 hours on the club repeater **VE2CRA** to pass traffic and to make announcements of interest to Amateurs in the National Capital Region.

The SWAP Net is a service provided and conducted by Ed Seib, VA3ES. This feature appears on the Capital City FM Net. To list items and make inquiries, call Ed at 613-738 8924 or e-mail him at va3es@rac.ca. Also available on the web: <http://www.igs.net/~swap>.

The POT-HOLE Net is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club and is conducted every Sunday at 10:00 hours on **3.760 MHz**. All amateurs are welcome to check in.

The POT-LID CW Net is an informal slow-speed CW net sponsored and conducted by Ed Morgan, VE3GX, and meets every Sunday, except during July and August, at 11:00 hours on **3.620 MHz**, to promote interest in CW and CW procedures.

The QCWA CHAPTER 70 Net meets every Thursday evening at 20:00 hours on repeater **VE3TWO 147.300+**. You do not have to be a QCWA member to participate.

The Ottawa Valley VHF/UHF SSB Net is sponsored by the West Carleton ARC. Look for it every Tuesday night (except the first Tuesday of the month) around 21:00 on **144.250**, (roll calls after net on 50.150, 432.150, 222.150, and 1296.100.) Horizontal polarization is preferred.

The Ottawa Amateur Radio Club bulletin "Groundwave" is published and distributed to club members by mail. Publication dates may vary but it is hoped that the bulletin arrives at its destination before the events listed in it have expired. The bulletin is not published for July and August when meetings do not occur. Every effort is made to provide accurate information in the bulletin, however we are all human and mistakes can be made. The OARC accepts no responsibility for any damages that may result from this. The opinions expressed in this bulletin are those of the author.

Voice (VHF) 146.94/146.34 100Hz CTCSS required
(UHF) 443.300/448.300

VE3TVA Amateur Fast Scan Television Repeater
Video/audio beacon & input 439.25 MHz (audio sub. 443.75)
Video/Audio output 914 MHz (FM)

IRLP Node 2040 146.94/146.34 (VE2CRA/VE3RC)
(Code 411 for info) (Code 204 for activity)
(Code 88 for time)

For further information please contact the Repeater Chair.

Note: The IRLP link is not connected to ECHOLINK. Please do not try to connect using the alpha keys on your keypad. It just confuses the operator.

Note: The IRLP link is disabled during the Capital City Net each Monday. It is disabled from 2000 to 2145 Mondays except for May to August when the link is disabled from 2000 to 2020.

VE3TEN

Tuning in the beacon so that it makes sense requires you tune to **28.175** on **cw** and read the tone that is there . The spaces between the elements are the higher tone. If that doesn't work, tune to **28.175.28** on **lower sideband** for better results.



Dates to Remember

June Minutes

The June minutes will appear next month.

Joe Norton Award Announcement

The OTTAWA AMATEUR RADIO CLUB INC. annually awards the Joe Norton Trust Award for the advancement of amateur radio. The amount of this award is \$500 and a wall plaque.

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 Industry Canada during the period June 1, 2005 to June 1, 2007.
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 or her interests, achievements and plans to contribute to the advancement of amateur radio.
4. Present him/herself for an interview if so requested by the judges.

RULES

1. Entries must be received on or before 17:00 local on November 7th, 2007. Entries received after that date will be considered.
2. The OARC will send an acknowledgment in writing upon receipt of an application.

2007

- Sep. 1 Hamfest, RAC AGM, and Forum
- Sep. 30 Membership Renewal Deadline
- Nov. 1 Joe Norton Award Subm. Due
- Dec. 29 RAC Winter Contest

2008

- Feb. 9,10 Canada Ski Marathon
- Apr. 9 Homebrew Night
- Jun. 11 OARC AGM and Elections
- Jun. 28,28 Field Day
- Jul. 1 RAC Canada Day Contest

Hamfest and RAC AGM

The 11th Annual Ottawa Amateur Radio Club Hamfest takes place Saturday, September 1, 2007 at the Carp Fairgrounds. Door are open from 10:00 to 13:00 local time (14:00 to 17:00 Zulu).



The OARC is proud to sponsor the RAC Annual General Meeting, Forum and Technology Update. This highly informative event follows immediately after the close of the Hamfest at 1 pm. We are very fortunate to have Dave Goodwin (VE3AAQ), RAC's Ontario North/East Director, as Moderator.

3. A panel of judges appointed by the executive of the Ottawa Amateur Radio Club Inc. will evaluate all entries.
4. Finalists may be interviewed by members of the executive of the Ottawa Amateur Radio Club Inc. , the panel of judges, or both.
5. Submissions will not be returned.

(Continued on page 5)



mk's Words

The plan was to get a CTCSS generator into the Groundwave at the same time as the repeater gets upgraded and requires 100 Hz in. The initial plan was to use a 567 PLL as a sine wave generator. It turns out that the output is a triangle wave and not a sine wave. A low pass filter will cure that problem, but the output drops and the impedance is high enough that it still won't be able to put much into a radio. So, do I add a voltage follower, which means another IC, or change to another circuit. Unfortunately I got called out of town for a while, so I won't have the answer on time for the debut of the new VE2CRA. Meanwhile, what is your favourite way of generating a 100 Hz sine wave? Multiplier IC? Function Generator? Twin T? Maybe you are a digital guy who prefers a counter driving an ADC. Now there are two things to build for home brew night. Remember that we need better noise makers for the December Trivia Night as well.

How was your summer? How about that Field Day weather? Did you get in on the Canada Day contest? Did you get your log sent in? Are there any new antennas in the sky at your station? Summer always seems so short, but there are a few good weather days left. Let's not waste them.

I have learned a bit more this summer about getting temporary antennas up in the sky. After this year's field day I am ready to hang up the old sling shot. The tennis ball launcher favoured by dog walkers is going into my kit. The speed is lower but the mass of the ball is higher, making it easier to use a thin line. The tennis ball is easier to spot and goes through leaves better than the weights used with a sling shot. I still can't throw worth a darn, but the launcher gets the line up there well enough. At the same time I am still frustrated about how long it takes me to get a dipole into the trees for portable operation. I have decided that I'd rather be on the air than putting up antennas. A quick trip to ADD has gained me a few thousand feet of 20ga Teflon covered wire, so I will be putting up antennas in various places I like to operate from and leaving them there. That way I can just go out and hook up and be

on the air in a much shorter time. That way I can have fun any time I have an hour to spend, rather than having to wait for a block of half a day to open up. I'm thinking of putting lines into the trees without wires to make it easier to change bands. It remains to be seen how many of them will stay in the sky, but I'm counting on municipal and NCC types keeping their faces pointed at the grass rather than up the trees as they maintain their properties. Better to ask forgiveness than permission. If you want to use these antennas, let me know and I'll fill you in on their locations.

I'm looking forward to the Hamfest, even though there is almost nothing on my shopping list. It is always a surprise to find out what has followed me home from there. Things I never knew I needed. As in previous years, it will be a good time to catch up on what everyone else has been up to. Thanks to Ed for taking on the task of pulling the Hamfest together. He must be doing something right. He has already got me to sign up to do more than my previous efforts on the big day. Look for Ed at the Hamfest and say thanks. He will be the guy with the tired, relieved look on his face.

73 .. Looking forward to seeing all of you in September.
mk VE3FFK

Laws of the Natural Universe

Law of the Theatre

At any event, the people whose seats are furthest from the aisle, arrive last.

Law of Mechanical Repair

After your hands become coated with grease, your nose will begin to itch.



Brainteaser

This month's puzzle: Census Problem

A Census-taker stopped at a guy's house and wanted to find out how many children he had. The guy, a math dude, wanted to see if the Census-taker still knew her math...

Census-taker to guy: How many children do you have?

Guy: Three.

Census-taker: How old are they?

Guy: The product of their ages is 36.

Census-taker: Well, that's just not enough information.

Guy: The sum of their ages is our house number.

Census-taker: [thinking, but still needing more says] I still need more information!

Guy: My oldest child plays the piano.

Census-taker: AHA! I've got it figured out. Thank you!

How'd the census-taker figure out their ages?!

Send your answers to editor@oarc.net.

Last month's puzzle: Out of Time

Faced with her own termination, agent Sam Smart has to figure out a way to time exactly nine minutes, but she has no watch or any usual timing device. All that she has are two hourglasses - one that takes four minutes to empty and one that takes seven minutes to empty. Can Sam use the hourglasses to time exactly nine minutes, or is she doomed?!... Tune in next time for the adventures of agent Sam Smith... if she's still around.

Here's one way. At time $t=0$ minutes, start both timers. After 4 minutes, the 4-minute time runs out. Flip it over immediately. Three minutes later, at $t=7$ minutes, the 7-minute timer runs out. Flip it over immediately. One minute later at $t=8$ minutes, the 4-minute timer runs out again. At this point, the 7-minute timer has been running for 1 minute. Flip it over immediately. One minute later, at $t=9$ minutes, the 7-minute timer runs out and you have timed 9 minutes. QED

(Continued from page 3)

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 trust fund.

7. All decisions of the executive of the Ottawa Amateur Radio Club Inc. are final.

8. The winner will be notified on or before November 21rd, 2007.

9. The winner will inform the Ottawa Amateur Radio Club Inc. of his or her acceptance of the award no later than November 30th, 2007.

10. The award presentation will be made during the regular meeting of the Ottawa Amateur Radio Club Inc. in December.

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

ENTRIES

Send your entry, to be received no later than 17:00 on November 7th, 2007.

By mail, to:

Joe Norton Trust Award
Ottawa Amateur Radio Club Inc.
Box 8873
Ottawa, ON
K1G 3J2

Entries may also be e-mailed, in plain ASCII text only. No word processor formatting, no word processor attachments allowed to:

executive@oarc.net

Be certain to include your full name, address, call sign, and your e-mail address if you have one, in your submission.

Both mail boxes, paper and electronic, will be cleared at 17:00 on the closing date.

Homebrew Night



The upper picture shows Richard Hagemeyer, VE3UNW, receiving the Clare Fowler Award at Homebrew night. The lower picture shows Dave Conn, VE3KL, receiving the "Peoples Choice Award".

HF Band Plan

A new RAC proposed band plan is now posted on the RAC Web site.

RAC's HF Band Planning Committee has revised the present band plan and it is now posted on the Web and awaiting your comments. You can access it from:

<http://www.rac.ca/service/hfband.htm>



Industry Canada Tower Policy

On June 28, 2007 Industry Canada released its long-awaited new policy and procedures on towers and antenna siting, entitled CPC-2-0-03, Radiocommunication and Broadcasting Antenna Systems, Issue 4, June 2007. The new procedures will come into effect on 1 January 2008. Radio amateurs should note that until then, the current CPC-2-0-03, Issue 3, June 24, 1995, remains in effect.

Radio Amateurs of Canada (RAC) has been an active participant in the national review of antenna tower policies initiated by Industry Canada in March 2003, and in the subsequent many and varied spectrum-user stakeholders' meetings that reviewed and commented on the initial draft policy. The new CPC-2-0-03 was released by the Department without a final review by tower proponents despite their requests. Therefore RAC is now analyzing the new tower policy and procedures and will describe their impact for the Amateur Service in an upcoming issue of The Canadian Amateur.

Radio amateurs are invited to read the new policy at:

http://strategis.ic.gc.ca/epic/site/smt-gst.nsf/en/h_sf01702e.html and to comment to Jim Dean, VE3IQ and Richard Ferch, VE3KI/VE3IAY at ve3iq@rac.ca and ve3iay@rac.ca, respectively.

MEMBERSHIP APPLICATION / RENEWAL

Ottawa Amateur Radio Club, Inc.

Box 8873 Ottawa, Ontario K1G 3J2

- Renewal New New Ham (FREE if licensed in current membership year)
 Single (\$25, \$20 after Feb. 1) Family (\$30) Junior (\$15)
 Emailed PDF Copy Mailed Copy *Add \$5.00 for mailed copy of Groundwave.*

(Please note: membership year is September 1 to August 31.)

Family Name: _____ First Name/Initials: _____

Address: _____

City: _____ Prov: _____ Postal Code: _____

Home Phone: _____ Work Phone: _____ Ext _____

E-mail address: _____@_____ (For Groundwave mailing)

Callsign(s): | _____ | | _____ | | _____ | Fax: _____

Qualifications: Basic Advanced Grandfathered

Year Licenced: _____

Other Family Members

Name: _____ Callsign(s): | _____ | | _____ | | _____ |

Qualifications: Basic Advanced Grandfathered

Year Licenced: _____

Name: _____ Callsign(s): | _____ | | _____ | | _____ |

Qualifications: Basic Advanced Grandfathered

Year Licenced: _____

Name: _____ Callsign(s): | _____ | | _____ | | _____ |

Qualifications: Basic Advanced Grandfathered

Year Licenced: _____

Interests: _____

Comments/Suggestions: _____

The Ottawa Amateur Radio Club

is pleased to announce its 11th Annual



Hamfest

Saturday, September 1, 2007 (Labour Day weekend)

Tailgaters Open and Building Vendor setup: 8 am

Building Opens: 10 am until 1 pm

Radio Amateurs of Canada Annual General Meeting, Forum & Technology Update: 1 pm - 4 pm

Carp Agricultural Fairgrounds

3832 Carp Rd (at Falldown Lane)

Ottawa (Carp), Ontario

From Ottawa take Highway 417 west to Carp Road exit, 10 km north to the fairgrounds

We are in the Arena, so follow the signs on the site

\$6 general admission

\$12/table (plus admission)

\$5/tailgate (plus admission)

We will once again be offering an excellent door prize. Details will follow.

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For further information or reservations: Ed Sich, VE3WGO 613-763-3628

fleamarket@oarc.net , www.oarc.net/fleamarket