



Ottawa Amateur Radio Club

# Groundwave

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## From the Editor:

June 2013

The Annual General Meeting of the Ottawa Amateur Radio Club will take place in the Ottawa City Hall on June 12. During the meeting members will elect the OARC Executive for 2013-14. The Chair of the Election Committee, Norm Rashleigh, VE3LC, is looking for candidates for several expected vacancies and eagerly awaits expressions of interest or suggestions of possible candidates from members. In particular, this year we need to fill the positions of Secretary and Director. Please contact Norm at [rashleigh@sympatico.ca](mailto:rashleigh@sympatico.ca).

In addition to the elections and other business we will have a short talk by Richard Hagemeyer about knot-tying with respect to Field Day operations.

The 2013-14 membership renewal form is attached for your convenience! See you at the meeting.

Ian Jeffrey, VE3IGJ, Editor



Check out our Web Page: [www.oarc.net](http://www.oarc.net)

**Next Meeting 7:30 pm, Wednesday, June 12th  
in the Colonel By Room at Ottawa City Hall**

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Ottawa Amateur Radio Club

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*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 "ve3igj@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 which is on the second floor 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 (except some holidays) at 20:00 hours on the club repeater **VE2CRA 146.940(-)** 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, got to <http://www.ncswapnet.ca>. You may reach Ed at 613-738 8924 or e-mail him at va3es@rac.ca.

**The Rubber Boot Net** runs week days at 07:30 on VE3MPC, 147.150 + hosted by Ed, VE3GX or Mike, VA3TJP. The Rubber Boot net has been running since the early 1980's and is popular for the early risers and the go to work crowd.

**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 Monday evening at 19:30 hours on repeater **VE3MPC 147.150(+)**. 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. 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  
 Currently off the air and looking for a new home.

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.



## May Minutes

The May minutes were unavailable at press time.

## Re Home Brew Night

Last month I asked for comments on the homebrew night. This was a reply from a reader:

mk VE3FFK

Hi Mike:

Your Groundwave comment on the Homebrew Night was right on. I felt the same. It's probably time to change the format. I think that it has become too competitive. I would like to see many small projects to see what people are thinking about and attempting to do. Here are a few suggestions:

1. Encourage projects that are just in the beginning stage.
2. Reduce the formality of PPT stuff.
3. Solicit feedback from members. (You started this already.)
4. Software projects should concentrate on the results and purpose. Has anyone made use of something?
5. Help beginners with hardware tools and tricks (breadboard, soldering, connector choice, simple instruments and testing).
6. Get beginners to build a kit such as a simple QRP transceiver that they can actually use. What fun!
7. Have a theme each year like QRP. Maybe too narrow—just a thought.
8. Get the executive involved.

Just some feedback as you requested in the Groundwave.

We are surrounded by experts in hardware, software and radio systems and we should make full use of their talents. What other feedback have you received?

## Dates to Remember

### 2013

|             |                            |
|-------------|----------------------------|
| Feb. 9, 10  | Canada Ski Marathon        |
| Apr. 10     | Homebrew Night             |
| Jun. 12     | OARC AGM and Elections     |
| Jun. 22, 23 | Field Day                  |
| Jul. 1      | RAC Canada Day Contest     |
| Sep. 7      | Hamfest                    |
| Sep. 30     | Membership Renewals Due    |
| Nov. 1      | Joe Norton Award Subm. Due |
| Dec. 28     | RAC Winter Contest         |

## Past Year's Club Events

Activities since the last report to the club:

|               |  |
|---------------|--|
| 2012-06-09    | Rideau Lakes Cycle Tour  |
| 2012-06-23    | Field Day  |
| 2012-09-08    | Hamfest  |
| 2012-09-15    | Portable Station Operations  |
| 2012-09-29    | Magloop session  |
| 2012-11-02,3  | OARC Field Trip, Hammond Museum of Radio and York Regional Hamfest |
| 2012-11-10    | EMRG Test and Tune   |
| 2012-11-24    | Tall Pines Rally   |
| 2012-12-04    | RAC Winter Contest Tuneup  |
| 2012-12-07    | RAC Winter Contest Tuneup  |
| 2012-12-29    | RAC Winter Contest from Diefenbunker                               |
| 2013-02,03    | Club Project   |
| 2013-02-10,11 | Canadian Ski Marathon  |
| 2013-05-04    | Lanark Highlands Rally   |
| 2013-05-05    | CN Cycle   |

Examiner report: Since the last report there have been 27 exams, consisting of 20 Basic tests of which 2 failed, 16 passed with honours, 2 passed with basic only, 6 Advanced tests of which 1 failed and 5 passed, and 1 Morse test, which the candidate passed.

73 Mike Kelly VE3FFK



Ottawa Amateur Radio Club

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June 2013

## mk's Word

Those of you who were listening carefully at the May meeting have already heard I'm stepping down as a director of the OARC. I became a member of the executive in 1988 as the membership person, and have been on and off over the years since then. It's time to be off again. I'd like you to take my place as a director. Being a director is one of the "good" jobs on exec. Never mind what the constitution says, the job is to provide input and opinion to the discussions at the executive meeting, and if an idea or task that comes up there appeals to you, you take it on. Just now, the discussions at exec are around things like the Diefenbunker antenna project, the 2013-14 OARC field trip, and puzzling over which of the many deserving volunteers should get the volunteer of the year award this year. It isn't a very difficult job, but it is time for another set of eyes and brain cells to take a look at it -and there's dessert. If you haven't been on exec before, it's your turn. There's more to being a member than keeping a chair warm.

Since there's still lots going on at VE3FFK, I will probably ( yes, that's PROBABLY) continue to help the editor fill up the white space in the Groundwave. I'm sure he would appreciate some input from you, too. If you haven't noticed, the Groundwave needs more local content, rather than reprints of things that have already been bounced around the Internet. It doesn't write itself, and the editor's job is to edit, not write the newsletter, so put your fingers on the keyboard and let him (and the rest of us) know what you are up to.

Meanwhile, here is a report of the double header weekend of May 3 to 5 that I put together for other purposes.

Lanark Highlands Forest Rally: The event started for me at 08:30 Friday when the people I was heading out with arrived at my door. Fortunately, I had had all of Thursday to pack. Somehow, it all fit and with only a few navigational snafus we arrived nearly on time. The HQ location was in the same spot as the last two years, so antenna location and cable routing were not a problem. The repeater

worked well. I had Tyler and Margaret, VA3DGN and VA3VXN working with me at HQ, so was under much less stress than doing the "one man band" act. The event had fewer cars fail to finish, and only one was due to an accident. Even that was "just" a roll over, with no one hurt. Even so, the log ran to 39 pages, and I didn't take many notes on Friday. There were about 34 hams volunteering there. About 9 of those were from EMRG or OARC or both. The weather was excellent. The only weather related issue was dust, which can cause delays in running the cars through the course if visibility is impaired too much. Reports from the radio operators on the course allowed officials to decide in real time if it was safe to continue the event. I'm looking forward to next year.

Cycle for CHEO: Another excellent weather day. 16 hams volunteered, including 3 bicycle mobiles who swept the 70, 35 and 15 km courses. Half of those hams volunteering were in Lanark the previous day, so had to do a rapid turnaround and regroup for the Sunday event. The only difficulties were in trying to convince motorists that they did not in fact have the right to use any road they wished at any time they wished. Having sweeps giving real time voice and APRS positions of the last cyclist allowed roads to be opened a little earlier than scheduled. For once this year there were no medical issues or major collisions on the course.

All in all a great "double header" weekend.

For those of you going to (or who went to Dayton depending when you read this), I expect a full trip report at the next meeting and/or in the next Groundwave. What new goodies did you get? What sort of unobtainium did you find at the flea market? What did you see that you had to leave behind?

73 mk

VE3FFK

*How come you never hear father-in-law jokes?*



## IARU Bulletin

Source: IARU Electronic Newsletter  
May 29, 2013 #1321

In a recent teleconference, the IARU Administrative Council authorized the distribution of a paper which sets forth the IARU positions on the agenda items that will be considered during the World Radiocommunication Conference in 2015. The agenda items that impact amateur radio and amateur-satellite services including the IARU position on each of those agenda items are set out below:



This is a summary of IARU agenda items on the upcoming WRC-15 conference

Agenda Item 1.1 – "to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution 233 (WRC-12)"

Agenda Item 1.4 – "to consider possible new allocation to the amateur service on a secondary basis within the band 5 250 - 5 450 kHz in accordance with Resolution 649 (WRC-12)"

Agenda Item 1.6.1 – "(to consider possible additional primary allocations) to the fixed-satellite service (Earth-to-space and space-to-Earth) of 250 MHz in the range between 10 GHz and 17 GHz in Region 1"

Agenda Item 1.10 – "to consider spectrum requirements and possible additional spectrum allocations for the mobile-satellite service in the Earth-to-space and space-to-Earth directions, including the satellite component for broadband applications, including International Mobile Telecommunications (IMT), within the frequency range from 22 GHz to 26 GHz, in accordance with Resolution 234 (WRC-12)"

Agenda Item 1.12 – "to consider an extension of the

current worldwide allocation to the Earth exploration-satellite (active) service in the frequency band 9 300 - 9 900 MHz by up to 600 MHz with the frequency bands 8 700 - 9 300 MHz and/or 9 900 - 10 500 MHz, in accordance with Resolution 652 (WRC-12)"

Agenda Item 1.18 – "to consider a primary allocation to the radiolocation service for automotive applications in the 77.5 - 78.0 GHz frequency band in accordance with Resolution 654 (WRC-12)" and

Agenda Item 8 – "to consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, taking into account Resolution 26 (Rev.WRC-07)"

Agenda Item 9.1.8 – Regulatory aspects for nanosatellites and picosatellites (Resolution 757 (WRC-12)) - Resolution 757 calls for the results of studies of the procedures for notifying space networks that presently apply to nanosatellites and picosatellites to be reported to WRC-15. Because of the possible implications of these studies for the amateur and amateur-satellite services, the IARU is following the progress of these studies attentively. Nanosatellites and picosatellites that are properly licensed in the amateur-satellite service and are operated consistent with the purposes of the amateur and amateur-satellite services as defined in Nos. 1.56 and 1.57 may utilize the provisions of Resolution 642.

All IARU member-societies are encouraged to meet with their telecommunication authorities to discuss the WRC-15 Agenda Items and to gain support from their telecom authorities for the IARU positions.

Vernon Ikeda - VE2MBS/VE2QQ  
Pointe-Claire, Québec  
RAC Blog Editor/RAC E-News/Web News Bulletin Editor



## Director's Report

### North East Ontario Regional Directors Report for June, 2013



Once again Radio Amateurs of Canada was at Dayton. Due to the great response we received last year we increased the size of our booth 100%. Last year visitors often overflowed into the aisle outside of our booth so we made room for Canadian Amateurs to visit and talk to other Canadians and RAC officials. I have not seen the final number but approximately 200 Canadian Amateurs stopped by to say hello and sign our guest book.

Our message to all Canadian Amateurs is that RAC is fiscally solvent, check out the audit results published in TCA from November for complete results.

Membership is rising, admittedly we are not beating off members but the numbers are increasing. To quote my financial advisor regarding my portfolio, "There are no bad ups", I believe this applies to membership as well. Three years ago there were no Maple Leaf Members, today we have over 250. These are Canadian Amateurs who believe in RAC and are willing to pay \$100 to support their organisation. Thanks.

We are in the final phases of completing our contract to update the exam questions with Industry Canada. I think this shows the value that IC sees in RAC by having them update the question bank. And I will declare my bias!

Don't forget that on July 1<sup>st</sup> the RAC Canada contest will be held. For complete details check out the RAC website at: <https://www.rac.ca/>

The other outreach program we are starting is inviting RAC Maple Leaf Members, RAC Affiliated Clubs

Presidents and RAC members of ARES to webinars. Look for your invitation in your email. Other Directors will be holding similar webinars throughout the year.

RAC is also looking for recipients of our scholarship grants. If you know of an Amateur who is in a Science, Technology, Engineering and Mathematics (STEM) program please contact me for information on applying or goto the RAC web site for full details. Do you know of a high school that is doing a project using Amateur Radio that would qualify as well?

Finally since this is the June issue of my Directors Report it will be the last one until September. Many clubs take a bit of a hiatus during the summer and I will as well. However if there is breaking news I will certainly keep you all informed. Have a safe summer.

If you have any questions or concerns please email me at [ve3xt@rac.ca](mailto:ve3xt@rac.ca)

Bill VE3XT

North East Ontario Regional Director

Radio Amateurs of Canada

## Solar Cycle 24 Peak

On June 3 NASA updated their forecast for the peak of the current solar cycle, available at <http://solarscience.msfc.nasa.gov/predict.shtml>.

This differs from a month earlier, when on May 1 they predicted a cycle maximum in fall 2013 with a smoothed international sunspot number of 66. Now they predict a peak at 67 in summer 2013. Summer officially begins at the solstice on June 21 at 0504 UTC, which by the way is the Friday before Field Day weekend.

From the ARRL Website



Ottawa Amateur Radio Club

# Groundwave

June 2013

## And You Thought Dayton Was Big?

### German Ham Radio attracts enthusiasts from around the world

Friedrichshafen, Germany – The 37th edition of Ham Radio ( June 22-24, 2012) once again demonstrated the power of amateur radio to connect people from around the world with a high degree of technical expertise, from young entrepreneurs from Russia to enthusiasts from Australia and clubs from Israel and the United States. Over the course of the three-day event, 14,800 visitors flocked to the exhibition grounds in Friedrichshafen in order to shop for products from a total of 203 exhibitors and learn about the latest developments in amateur radio at the 63rd DARC Bodenseetreffen event. Amateur radio fans from around the globe came together at the exhibition and many of them combined their visit to the exhibition with a vacation in the Lake Constance region.

Ham Radio offered a comprehensive overview of the world of amateur radio. A total of 203 exhibitors and clubs from 31 countries presented their latest innovations and once again demonstrated their determination to remain at the cutting edge with digital radio technologies. Numerous opportunities to learn about amateur radio and shop for current products were offered across three exhibition halls. “With 10% more exhibitors and a broad international showing among exhibitors as well as attendees, Ham Radio has once again demonstrated its position as Europe’s leading amateur radio exhibition,” stated Project Manager Petra Rathgeber at the conclusion of the three-day event. Michael Kalter, General Chair of the Hamvention in Dayton, Ohio, also praised Ham Radio, calling it the most important event in the industry, along with the Hamvention, during his opening address in Friedrichshafen.

The German Amateur Radio Club hosted its 63rd Bodenseetreffen event on Lake Constance, and was able to interest even more enthusiasts in the

latest developments in amateur radio. Each year has a theme. In 2011 it was Morse Code. The 2012 show included a dedicated exhibition area and numerous talks on Digital Radio technologies. “We’ve laid the foundation for further innovation,” said Jens Hergert, Acting Managing Director of the German Amateur Radio Club. “The Ham Rally introduced children and young people to amateur radio, and our training course for teachers will help inspire the next generation of enthusiasts to learn about technology.” The 2012 event attracted a total of 93 children and young people with an interest in amateur radio, and 94 participants in the training course for teachers.

Visitors interested in attending this year’s Ham Radio can mark their calendars for June 28 to 30, 2013, when the exhibition will take place for the 38th time in Friedrichshafen.

<http://www.hamradio-friedrichshafen.de>

## Upcoming Events

The OARC’s **ARRL Field Day** event will be held June 22 and 23 behind St. Paul’s on Main Street next to the Rideau River—the same place as last year. Start up will be about 09:00 on Saturday morning.

Each year on July 1, the anniversary of Canada’s Confederation, Radio Amateurs of Canada sponsors the **RAC Canada Day Contest**. Amateurs all over the world are invited to Canada’s Birthday Party on the air. The contest period is from 0000 UTC to 2359 UTC July 1, 2013. Bands and modes are 160, 80, 40, 20, 15, 10, 6, and 2 meters, CW and phone (SSB, FM, AM, etc.) The suggested frequencies are for CW 25 kHz up from the band edge and for SSB 1850, 3775, 7075, 7225, 14175, 21250, 28500 kHz. Check for CW activity on the half hour. The exchange for stations in Canada is to send RS(T) and province or territory. VEØ’s and stations outside Canada send RS(T) and a serial number. For all the details see [https://www.rac.ca/en/rac/programmes/contests/files/2011 Canada Day Rules—English.pdf](https://www.rac.ca/en/rac/programmes/contests/files/2011%20Canada%20Day%20Rules-English.pdf).

## 2013-2014 Membership Application/Renewal

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

- Single \$25 (\$20 after Feb 1, 2014)
- Family \$30
- Junior \$15 (under 18 years of age)
- New Ham - Free (if licensed in current Membership year)
- Emailed *Groundwave*     Mailed *Groundwave* (add \$10.00)

**Please Note: Membership year is September 1, 2013 to August 31, 2014.**

Family Name: \_\_\_\_\_ First Name/Initials: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Prov: \_\_\_\_\_ Post Code: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Work Phone: \_\_\_\_\_

E-mail address: \_\_\_\_\_ (For *Groundwave* mailing)

Callsign(s): \_\_\_\_\_

Qualifications:  Basic     Advanced     Morse Code  
Year Licensed: \_\_\_\_\_ RAC Member?    Yes

### Other Family Members

Name: \_\_\_\_\_ Callsign(s): \_\_\_\_\_

Qualifications:  Basic     Advanced     Morse Code  
Year Licensed: \_\_\_\_\_ RAC Member?    Yes

Interests: \_\_\_\_\_

Comments/Suggestions: \_\_\_\_\_

All members who are in good standing on or before the December General Meeting will be eligible for a free one-time name badge. Members who wish a second or replacement badge may purchase one at the club price (approx \$7.50 plus tax). Ordered badges will be available in January.

Do you want an OARC NAME TAG?    Yes     Second or Replacement    Yes

ORDER DETAILS - As to appear on badge:

First Name \_\_\_\_\_ Call Sign \_\_\_\_\_