



Ottawa Amateur Radio Club

# Groundwave

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

December 2008

The OARC is planning to enter the RAC Winter Contest with a club station. Call Dave Green to sign up. Also, don't forget Straight Key Night on New Year's Day.

The December meeting will be the annual Trivia Night produced by Janice Neelands and Greg Danylchenko and hosted by Richard Hagemeyer. Don't miss the fun and challenge.

Sydney is again hosting the Christmas Net on Christmas Day. See details on page 4.

See you at the meeting.

And in case I don't get the next issue out in time I would like to wish all OARC members and their families a Merry Christmas and a Happy New Year.

Ian Jeffrey, VE3IGJ  
Editor



**DECEMBER MEETING 7:30 pm, Wednesday, December 10th  
in the Honeywell Room at Ottawa City Hall**

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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](mailto:va3es@rac.ca).

**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 **VE3TEL 147.030(-)**. 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.



## November Minutes

OARC Meeting RMOC, Nov 12 2008

Meeting commenced at 19:30 hrs local time.

Three visitors were welcomed: "Jean", electronics professional interested in seeing what the hobby was about; Doug Taylor, VE3IHO, Frank Davis VO1HP, visiting Ottawa. New members, Bob Kavanaugh, VE3OSZ, and Tyler Tidman, VA3DGN, who had been licensed 1 1/2 weeks.

### President's News:

David Conn is suggesting that the club pursue the PIC controller as a project for the winter. The elder sibling of the PicAxe of last year's project, the PIC offers much greater flexibility and power.

Club sponsored Diefenbunker tour, on Nov 13th.

Joe Norton award: no applicants this year, so it remains unawarded until next year.

### Generals:

From VA3SIE (Martin) via the Monday 2-m net, JFK Memorial Transmitter Hunt, 22 Nov. 08 from 2 until 4 local time. Beacons on 3760 kHz and 146580 kHz.  
From VE3BYT, (Graham) A high altitude balloon project with the measurement of various parameters as the goal, not necessarily maximum altitude. For more information <http://www.igs.net/~graham/balloonproject/>

The Lanark group is releasing a balloon on 22 Nov 08 and it will be ve3rex-11 and info is available at <http://greatballoonchase.ca/>

### Show and Tell:

Ralph Cameron, VE3BBM, heated up an antique 833 for us, an exciting reminder of the way it was, and a marvel for how durable the **\*Fleming valve\*** really is.

## Dates to Remember

### 2008

- Aug. 30 Hamfest
- Sep. 30 Membership Renewal Deadline
- Nov. 3 Joe Norton Award Subm. Due
- Dec. 27 RAC Winter Contest

### 2009

- Feb. 7,8 Canada Ski Marathon
- Apr. 8 Homebrew Night
- Jun. 10 OARC AGM and Elections
- Jun. 27,28 Field Day
- Jul. 1 RAC Canada Day Contest

### Talk:

Vlad Sidorov, VE3IAE. All about contesting Too many individual points to mention. Vlad is a very skilled contester, and he provided a wealth of contesting information. His hardcore approach to winning numerous events was revealed, inspiring shock and awe from the audience. He spoke of how to succeed when you are not a "Big Gun"; recommended that one not waste words, use logical phonetics to facilitate comprehension, use good logging software (he favours Cabrillo format) and don't stop until you have won!

### Post talk:

Dave Conn demonstrated his morse code and keyboard proof of concept project, tying IO and his microprocessor together for a potential club project submission and other research he is conducting.

Wayne Getchell demonstrated how his PIC morse project was incorporated into the VE3TVA video repeater as an elegant IDer.

50/50 Draw: \$23 was won by Harold Hamilton.

Meeting ended at 21:18



## mk's Words

Remarkable, eerie, fascinating. Take your pick, the Diefenbunker tour was all of the above. The pitch dark, damp weather outside was a perfect atmosphere for the introduction to the era. Although the bunker itself was the star of the show, it really is a museum of the cold war. It still surprises me how fast memory fades. It was an eerie feeling to be reminded that the chances of getting into the 21st century from the middle of the 20th were not so hot. It really brought back memories of a time when there were sirens on hydro poles, and newspaper pictures of atomic bomb tests in the same atmosphere we breathe. It now seems remarkable to me that the people in charge thought atmospheric testing was a safer thing to do than to not build bigger and better weapons. The effort put into making the bunker as liveable as possible, given the constraints, was remarkable. Nevertheless, it would still have been a dangerous place for deep thinkers. It was also an interesting time capsule of the era, given the colours and materials that surround one while down there. It was literally an immersion into the 1960's. Was it really so long ago?

It was interesting to see the VE3CWM station and to hear about how the transmit and receive antennas were located off site in the bad old days. It would still be a really cool place to work a contest, in a "picnic in the graveyard" kind of way. I wonder if the station will be on the air either on Hiroshima day, marking the beginning of the beginning of the cold war, or on the day the Berlin wall came down, marking the end of the beginning of the end of the cold war. Both would certainly qualify as "special events".

So where do we go next year? Do any of you work at a place that does interesting stuff, that will let a bunch of us take a peek? My thought is that we should do a combined picnic and tour of the VE2CRA transmitter site. The picnic would give those of who can't squeeze into the shack something to do while we wait for our turn. How about a look in at CHU? As a bunch, you have more brains than I do, so I expect you all to come up with a better idea. Lets hear it.

December Trivia night is coming up soon, always a highlight of the club calendar. Get those noisemakers tuned up. **SOMEBODY** should be able to do better than a rubber chicken this time.

Just to warm you up:

What is/was a DT23?

Those of you who know the answer can move on to round 2:

What was the final in it? ...Now round 3:

How many tubes were there in a DT23?

If you made it this far, congratulations. You will be happy to know the questions on trivia night won't be as difficult as these. (answers elsewhere in this text)

Did you learn anything about contesting at the last meeting? I did. As a contest dabbler there is always something new to learn. Even an expert can pick up a trick or two from time to time. Thanks.

How about the club project? Dave and Dave are heading down the microcontroller trail, while others have been telling me that a simple CTCSS encoder would be a good idea. Maybe a microcontroller based encoder. It isn't too late to have your say, but it is getting close, as we usually get things rolling early in the new year.

Lets all hope for a softer, shorter winter this time. (You ski hams can learn to wax for wet grass.)

73 mk

VE3FFK

## Christmas Net

There will be a special Christmas Day Net on repeater VE3TWO and all radio amateurs are encouraged to join in. This net gives you an opportunity to tell everyone about the new amateur gear that Santa is going to bring you; on the other hand, if you haven't been a good amateur this year, and Santa does not bring you a new rig, you are still welcome to join the net, if you promise to be better behaved next year. You can also convey Christmas greetings to all your friends. This is an opportunity as well to introduce any visitors you may have over Christmas in your home to amateur radio, in an informal way. It is also a good opportunity to introduce your own children and visiting children in your home to the fun side of amateur radio. Start them young on your hobby!

The net starts at 0930 hours EST on the OVMRC club 2 metre repeater VE3TWO, 147.30 receive, 147.90 transmit. It will be just about as informal as a net can get. See you then. I will be net controller, as I have been for more years than I can remember, but it is probably over 25 years. I would also like to thank the OVMRC for allowing again use of the club repeaters for this net.

73 and Ho Ho Ho!

Sydney, VE3GVI, 613-820-0093



## From the President

### Trivia Night

#### Form your teams, and make a noisemaker

It's that time again! The December 10th meeting will be Trivia Night. For the benefit of new members, this means that, instead of listening to a speaker, you will be challenged to answer a broad range of questions related to Amateur Radio, à la *Reach for the Top*.

As was the case last year, you can either play individually, or else form teams of any manageable size (max 4 players). Don't forget to come up with a goofy radio-related name for your team (how about *One Bright Spark and Three Dummy Loads*). Prizes will be given to teams who answer the most questions correctly and to runners-up. Each individual or team will need to bring a noisemaker of some kind, in order to signal when you have the answer to the question. Your noisemaker could be as primitive as a boy scout whistle or as complex as a buzzer circuit. The more homebrew it is, the better; that way you can enter it in the mini homebrew contest afterwards. If you forget your noisemaker, don't worry—one will be assigned to you. However we're not promising anything dignified: remember last year's rubber chicken?

Once again we are fortunate to have Richard, VE3UNW, as our moderator, so the evening promises to be great fun as always.  
Janice Neelands, VA3PAX

### Seeking Buddies

In order to make sure that guests and new members feel welcomed by the club, the Executive is calling for volunteers to serve as "welcoming buddies" at monthly club meetings. The role of a buddy would be to chat with newcomers, answer any questions they might have, show them the ropes, and generally make them feel welcome. If you're interested in serving as a buddy, please contact the coordinator, Greg Danylchenko, at ve3ytz AT rac.ca.

The club tour of the Diefenbunker Cold War Museum on Nov. 13 was an interesting and entertaining look into our recent past. There were 21 club members and their guests on this tour. Apart from seeing the 'nerve centre' from where the Government of Canada would have operated during a nuclear attack, we also had a chance to have a close look at a 1960's vintage amateur radio station. The staff at the museum were very pleased that we attended and invited us to arrange another tour for those who were unable to attend this one. We will consider that for the future.

We are currently preparing the plans for this year's club project. It will likely be a multi-part project. One part will continue to explore the PICAXE microcontroller, and in particular, adding an LCD for display and a keyboard for character entry. Building a simple device such as a low resolution QRP power meter may also be considered. A second part will be directed to those who did not have the opportunity to participate in last year's PICAXE project. The third part will interest those who wish to move on immediately to programming a PIC microcontroller directly. This will involve programming using C or PIC assembly language. This part will be geared for those with an interest in more advanced topics. Details and scheduling for this proposed project will be discussed at the December meeting of the OARC. If you're not sure which part is for you, feel free to discuss it with one of the 'Daves' (VE3TLY or VE3KL).

We are hoping to operate a club station for the RAC Winter Contest on Dec. 27. At the time of writing, we do not yet know if the VA3RAC call sign is still available. If it does go forward, we are looking for club members willing to participate either from the club station or from their own home. To simplify the amalgamation of the many logs, all participants will be required to use the Canaday Logging Software which is available on line or from me directly. Please contact me if you have any questions or wish to be added to the operators' list. Further details will be announced at the Dec. OARC meeting.

#### Update

The OARC has been granted use of VA3RAC for the RAC Winter Contest that runs 0000 - 2359z on Dec. 27. I am discussing the use of VE3CWM at the Diefenbunker for our use as a club station in this contest. Another option is to use the station at RAC headquarters

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## EMRG—Ottawa ARES

This is the first of a series of EMRG – Ottawa ARES Emergency Communications articles in the Groundwave, thanks to the continued support of the OARC. As much as possible I plan to keep the articles focused on emergency communications, rather than EMRG – Ottawa ARES specifically, to make them educational and interesting for all amateurs.

What is the value of groups like EMRG – Ottawa ARES?

When it comes to emergency preparedness we expect our various levels of government to have solid plans to deal with emergencies and disasters, and we expect them to include amateur radio in those plans. RAC and the ARRL have concluded that the main potential for amateur radio to demonstrate value in the eyes of government is through the service provided by emergency communications.

Saying that amateurs are great people and will do great things if called, is not something that a municipality can write into their emergency plan. Emergency planners are looking for organized groups that have contact information, understand what is required and have developed solutions to meet those needs. In other words, they are looking for dependability, reliability, and demonstrated sustainability, which is what EMRG provides for amateurs in Ottawa.

Like the general population, amateurs want to help when an emergency or disaster happens. Unfortunately there is nothing in the amateur licensing process that prepares amateurs for emergencies. Without training, amateurs do not understand their role, who is in charge, operating procedures or equipment operation. Some operating locations are in secure facilities, while shelters are filled with vulnerable people, many of them children. An emergency is not the time or place to send people who have unknown skills and backgrounds.

EMRG will absorb some walk-in volunteers in an emergency by partnering them with EMRG members, but the primary source of assistance in an emergency is

mutual aid from neighbouring ARES groups.

Amateur radio emergency communications is a team event. It takes a group of people planning, preparing, testing and practicing in order to deliver effective communications solutions. Providing that level of organization and activity takes a lot of people. You don't have to join EMRG – Ottawa ARES to help. You may be able to provide support for a task that needs an owner, or make a cash or equipment donation.

The OARC is a great example of supporting EMRG, while not being part of EMRG. The club has stepped up their support with the donation of a TNC for EMRG Red Cross communications, plus other support such as this article in the Groundwave, prominently displaying the EMRG logo and offers to have an EMRG – Ottawa ARES component on the Capital City Net.

If you ever thought you might be interested in applying amateur radio to emergency communications, now is the time to get involved. If you are one of the many people who enjoy the hobby, remember the contribution that EMRG members are making for the Ottawa community and amateur radio as a hobby.

Next Month: What skills and equipment are required for emergency communications?

Peter Gamble – VE3BQP

[www.emrg.ca](http://www.emrg.ca)

EMRG – Team Leader, Ottawa ARES – EC

Two Names – One Group – One Purpose



## RAC Bulletins

November 10, 2008

### Amateurs on 600 Meters

Industry Canada has accepted an RAC proposal whereby selected Canadian radio amateurs would be permitted to operate in the vicinity of 500 kHz.



These amateur operations would support Canada's efforts to action a proposal on the agenda of the 2011 World Radio Conference (WRC2011) which, if adopted, would create an amateur allocation in the 600-meter band.

Industry Canada have authorized RAC to recommend amateurs who would be licensed to operate in the 504 to 509 kHz band with a maximum power of 20 watts ERP and bandwidth up to 1 kHz. Stations operating in this band would be technically operating under Special Developmental Licenses although they would all be radio amateurs. Distinct call signs would be used and the licenses would be renewable annually subject to the amateur demonstrating the research he has carried out.

More information will follow shortly in the pages of TCA or via subsequent bulletins.

Vernon Erle Ikeda - VE2MBS  
RAC News Bulletin Editor

November 9, 2008

### RAC Field Services Announces HF Em-comm Frequencies

As the result of extensive research, a list of designated Canadian HF Emergency Communications frequencies has been created. Radio Amateurs of Canada National

Emergency Coordinator Ken Oelke VE6AFO, National Traffic System Coordinator Hew Lines VA7HU, National Amateur Radio Emergency Database Manager Drew Watson VA7DR and Special Advisor Pierre Mainville VA3PM, worked in consultation with RAC Section Managers to compile the list.

Frequencies and modes of operation have been pre-determined for use of the Amateur Radio Emergency Service (ARES) during an emergency or disaster occurring anywhere in Canada. The list may be viewed online at [www.rac.ca/fieldorg/racaresfreqs.htm](http://www.rac.ca/fieldorg/racaresfreqs.htm).

The RAC Field Services Organization reminds all operators that no Amateur Radio station or group has exclusive ownership of any frequency, although common sense and courtesy dictates that other stations would keep clear of frequencies being used for communications related to emergency or disaster operations anywhere in the world.

Bob Cooke VE3BDB  
RAC Vice President for Field Services

November 3, 2008

### Signing of a Memorandum of Understanding (MOU) between The International Amateur Radio Union, IARU and The International Federation of Red Cross and Red Crescent Societies, IFRC

As you know, the prime reason why we are able to justify keeping our frequencies and privileges around the world is because of our ability to provide communications in cases of disaster. When situations arise that communications are either destroyed or inadequate, authorities know that they can call on Amateurs to support them at no cost and that they will be providing their own equipments. The same help is also offered to the world's major Non Governmental Organizations (NGOs) providing humanitarian aid to populations in need.

*(Continued on page 8)*



## RAC Bulletins

*(Continued from page 7)*

This willingness and ability to help by the Amateur Service and the Amateur Satellite Service has also been recognized by the ratification of the ITU (International Telecommunications Union) Tempere (Finland) Convention.



Another step towards general global recognition of our offered abilities to serve came with the recent signing of a MOU between the IARU and the IFRC. On June 27th, 2008, Mr. Markku Niskala, the IFRC Secretary General and Mr. Timothy St. J. Ellam, VE6SH, Vice President of the International Amateur Radio Union, signed this very important document.

Thank you to the IARU international team of negotiators for this success.

73,

- Daniel A. Lamoureux, VE2KA
- Vice President International Affairs, Radio Amateurs of Canada
- Director Area A, IARU Region 2
- Chair, Emergency Communications Committee (EMCOMM) IARU Region 2

November 3, 2008

### Cell Phones

The Government of Ontario has tabled legislation intended to improve road safety by banning the use of some kinds of electronic devices by drivers. While the target of Bill 118 was intended to be cellular communication devices, the draft bill is written so broadly that many Amateurs are concerned that Amateur Radio mobile operation could be banned by the bill's provisions.

RAC has already taken steps to protect the interests of Amateurs in that province. RAC President Dave Goodwin VO1AU/VE3AAQ has written to Minister Bradley specifically requesting that Amateur Radio be excluded from the scope of the bill. This letter reminded the minister that similar legislation in Newfoundland and Labrador, Nova Scotia and Quebec explicitly or implicitly protects mobile Amateur Radio operation.

A careful reading of the bill reveals that any exemptions will be contained in regulations. RAC will shortly meet with Ontario transportation officials to make the case for protecting mobile Amateur Radio operation. This will be done in conjunction with the Canadian Association for Rallysport (CARS) Executive Director Alasdair Robertson VE3RAA.

Dave VO1AU/VE3AAQ  
President, Radio Amateurs of Canada (RAC)

## VE3MPC

I am pleased to announce that VE3MPC is back on the air on VHF and UHF in a slaved mode of operation. Installation was made at the site in Orleans (east Ottawa). The site is approximately at coordinates 45-27.02, 075-33.5. Both UHF and VHF antennas are 4 bay dipole arrays (8 dbd gain in east-west direction), up 150' AGL, and fed with 7/8 " hardline. Frequencies, 147.15 + 600 and 444.4000 + 5. Tx power approximately 15 W on UHF and 30 W on VHF. Controller: NHRC-10. Radios: VHF- Daniels Electronics MT-3 (made in Victoria, BC) and UHF - Motorola Micor. No tones required at the moment however, stations are equipped with CTCSS at 100 Hz which can be turned on with flick of switch. No phone patch or IRLP or Echolink planned for near future implementation. Formal report will be submitted to SLVRC now that on-line submission is working. Coverage reports welcome.

Cheers,  
Norm Rashleigh, VE3LC



## "HAM"

Canadian Amateur Radio Teletype Group  
85 Fifeshire Road  
Willowdale, Ontario

The word "ham" as applied to amateur radio dates back to 1908, and was the call letters of the first amateur wireless station, operated by some members of the Harvard Wireless Club. They were Albert S. Hyman, Bob Almy and Reggy Murray. At first they called their station Hyman-Almy-Murray, but tapping out such a long name in code soon called for a revision. They thus changed their sign to HY-AL-MU, using the first two letters of each name. Early in 1909 some confusion resulted between signals from amateur wireless HY/AL/MU and a Mexican ship named the "Hyalmo." It was then the boys decided to use only the first letters of each name... and the call became "HAM."

In the very early days of radio, amateur operators picked their own frequency and their own call letters. Then, as now, some amateurs had better signals than some commercial stations. The resulting confusion and interference finally came to the attention of congressional committees, and they in turn gave much attention to proposed legislation designed to critically limit amateur activity.

In 1911 Albert Hyman chose the controversial wireless legislation bill as his thesis at Harvard. His instructor insisted that a copy be sent to Senator Davis A. Walsh, a member of one of the committees hearing the bill. The senator was so impressed that he sent for Hyman to appear before his committee. He was put on the stand and described how the little amateur station was built.

He almost cried when he told the crowded committee room that if the bill went through they would have to close the station, because they could not afford the license fees and all other requirements that were set up in the bill. The debate started, and the little "HAM" be-

came the symbol of all the little amateur stations in the country, crying out to be saved from the menace and greed of the big commercial stations that didn't want them around.

Finally, the bill got to the floor of Congress and every member talked about the poor little station "HAM", and that's how it all started. You can find the whole story in the Congressional Record. Nation-wide publicity associated radio station "HAM" with amateurs. From that day to this...and probably to the end of time, in radio language an AMATEUR is a HAM!

From Sept./Oct. "RTTY News", published by the Canadian Amateur Radio Teletype Group. The editor also wishes to thank Harold Hitchen KL7PG, who not only sent us this article, but also took the time to get permission to republish it from the newsletter where he found it. People like him make this job much easier.

Reprinted from the December 1983 Anchorage Amateur Radio Club Newsletter.

*(Continued from page 5)*

as we did last year. Some of you have agreed to operate from your own homes. Band and mode assignments are now being considered. The club station will likely operate 20m phone and possibly CW but this has to be firmed up.

And a reminder, all stations MUST use the 'Canaday logging' software which can be downloaded from [http://www.qrp-canada.com/wp/?page\\_id=41](http://www.qrp-canada.com/wp/?page_id=41) We will not amalgamate logs using other logging programs. Please consider this before agreeing to participate.

If you can think of anyone else who might be interested in participating, please ask them to contact me. The RAC contests are always a lot of fun. I hope to see or hear many of you on Dec. 27.

The next Groundwave will appear in 2009. In the interim, I wish you and yours a very Merry Christmas, a Happy Holiday Season, and a Happy New Year.

73, Dave VE3TLY

Pres. Ottawa Amateur Radio Club

**Membership Application/Renewal**  
Ottawa Amateur Radio Club Inc., Box 8873, Ottawa, Ontario K1G 3J2

- Single (\$25, \$20 after Feb 1)
- Family (\$30)
- Junior (\$15, under 18 years of age)
- New Ham (Free if licensed in current Membership year)
- Emailed *Groundwave*     Mailed *Groundwave* (add \$5.00)



**Please Note: Membership year is September 1 to August 31**

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.

OARC NAME TAG    Yes     Second or Replacement    Yes

ORDER DETAILS - As to appear on badge:

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