



Ottawa Amateur Radio Club

Groundwave

P.O. Box 8873, Ottawa, Ontario, Canada, K1G 3J2

CLUB EXECUTIVE

President

Diane Bruce VA3DB
(H) 613-225-9920
va3db@rac.ca

Past President

George Roach, VE3BNO
(H) 613-234-0885
ve3bno@rac.ca

Vice-President

Dave Green, VE3TLY
(H) 613-728-8606
ve3tly@rac.ca

Secretary

Vacant

Treasurer

Janice Neelands VA3PAX
(H) 613-236-9291
va3pax@rac.ca

Directors

Wayne Getchell, VE3CZO
(H) 613-225-7989
Getch@magma.ca

Ian Jeffrey, VE3IGJ
(H) 613-837-7393
ve3igj@rac.ca

Harrie Jones, VE3HYS
(H) 613-739-9365
hjones@chumottawa.com

Gord Holmes, VA3GFH
(H) 613-828-8478
va3gh@rac.ca

Check out our Web Page: www.oarc.net

February 2007

Attached is a copy of the new US band plan that came into effect on December 15, 2006. It is also available from the ARRL web site.



Don't forget to volunteer for the Canadian Ski Marathon.

February's speaker will be Richard Bandla, VE3CVG. His talk is entitled "Ottawa Amateur Radio Digital Group - DSTAR Project".



See you at the meeting.

Ian Jeffrey, VE3IGJ

FEBRUARY MEETING 7:30 pm, February 14th in the Honeywell Room at Ottawa City Hall

In This Issue....

Club Information	2	Brainteaser	5
Minutes	3	Joe Norton Award Winner	6
Dates to Remember	3	ARRL Bandplan	8
mk's Words	4		

Membership
 Gord Holmes, VA3GFH
 (H) 613-828-8478
 va3gfh@rac.ca



Groundwave Editor
 Ian Jeffrey VE3IGJ
 (H) 613-837-7393
 ve3igi@rac.ca

Delegated Examiner
 Mike Kelly, VE3FFK
 (H) 613-322-0669
 ve3ffk@rac.ca

Coffee Guy
 Brian Campbell, VE3ZRK
 (H) 613-737-3933
 ve3zrk@rogers.com

Historian
 George Roach, VE3BNO
 (H) 613-234-0885
 (Fax) 567-2372
 ve3bno@rac.ca

Webmaster
 Dianne Bruce, VA3DB
 (H) 613-225-9920
 va3db@rac.ca

IRLP Manager
 Cary Honeywell, VE3EV
 (H) 613-590-9873
 ve3ev@rac.ca

Repeater
 Harrie Jones
 (H) 613-739-9365
 hjones@chumottawa.com

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 only those of the author.

Voice (VHF) 146.94/146.34 100Hz output tone
 (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.



January Minutes

The meeting was called to order at 19:30. There were 35 in attendance including five guests.

Richard Hagemeyer, VE3UNW, reported on the upcoming Canadian Ski Marathon. This year the CSM is looking for an additional ten mobile radio rigs. The will be a new repeater in use this year. It is to be located on a CBC tower near CP3 and could be used for both days. It will operate on 146.715 (negative offset). If you are interested in volunteering log on to radio1.admin2.ca or send an email to Richard at radio1@admin2.ca. The CSM is on February 10 and 11, weather permitting.

Dave Goodwin, VE3AAQ, reported on the changes happening at RAC headquarters, in particular the personnel situation with the passing of Debbie Norman and the retirement of Guy.

Greg Danylchenko handed out the new OARC membership badges to all those who ordered them. A vote of thanks was given to Greg and Gord, VA3GFH, for organizing the badge purchase.

The evening's speaker was Diane Bruce, VE3DB, who gave a presentation on the use of FreeBSD (a PC operating system similar to Linux) for amateur radio applications.

George Roach, VE3BNO, won the 50/50 draw and the meeting ended at 21:00.

Dates to Remember

2007

- Feb. 10,11 Canada Ski Marathon
- Apr. 11 Homebrew Night
- Jun. 13 OARC AGM and Elections
- Jun. 23,24 Field Day
- Jul. 1 RAC Canada Day Contest
- Sep. 1 OARC Hamfest and RAC Forum
- Sep. 30 Membership Renewal Deadline
- Nov. 1 Joe Norton Award Subm. Due
- Dec. 29 RAC Winter Contest

We need YOU!

The 2007 edition of the Canadian Ski Marathon is just around the corner. With the wonky weather, radio operators will likely be more important than ever to running a successful event.

Although all checkpoints may not be up and running, the lack of snow and last minute rerouting of the trails will likely require more "eyes on the ground" and better reporting than ever.

If you would like to volunteer, please visit <http://radio.admin2.ca> and email Richard, VE3UNW at junk-radio1@admin2.ca (remove "junk-").

Hope to hear you on the air February 10-11, 2007.

73 de Richard, VE3UNW

Aviation Humour

Taxing down the tarmac, the 757 abruptly stopped, turned around, and returned to the gate. After an hour-long wait, it finally took off. A concerned passenger asked the flight attendant, "What was the problem?" "The pilot was bothered by a noise he heard in the engine", explained the flight attendant, "and it took us a while to find a new pilot."



mk's Words

It's Christmas time again. The kits for the project are in. Since they were later than expected, I was starting to get worried. It turns out that the package had been opened at the border for inspection. Maybe it has been a while since I got a big box of stuff from the United States, but it seems that the province now collects sales tax on things that aren't sold in the province. One must pick one's battles, but it still just seems wrong, somehow. Anyway we now have nine baggies of parts and boards, one kit with transformer, case, and power poles for the guy who hates metal bashing even more than he hates paying for stuff, and one CD containing the manual from the website. The baggie of parts allows for a lot of latitude, but also requires some decision making and parts scrounging.

On the input side, the designer used a wall wart that puts out 16 Vac at just over one amp. You have to decide whether to go the same way (ADD has some wall warts that will do the job for about \$20) or build in a transformer and line cord. Speaking of building things in, you also have to find a chassis, box - - something to build the charger in. If you are going to take advantage of the dc-dc step up converter, so you can charge batteries from a car, you also need to get a 12V lighter plug and some sort of connector for it. On the output side, you need connectors of some sort, since the baggie of parts approach doesn't come with power poles.

At this point, I like the idea of building the transformer into the box. I'm looking at getting some power poles, and more importantly, the overpriced (but still cheap) little aluminum brackets that hold them, so I don't have to do any precision metal work. I will be getting a bunch of them, so you can use some of mine if you like. So far the contenders for a case are a fancy Hammond case that I have in my junk box, and the carcass of an ancient VCR. The price is the same, but there is more room in the VCR, and it already has a line cord and fuse inside. If you don't have anything similar in your basement, check out places like Salvation Army, St. Vincent de Paul, or even Value Village. Just

wait until after garbage day in your neighbourhood. I'd hate to pay two bucks for a dead VCR or stereo just for the case and then find I could have had better just by picking it off the lawn of the guy down the street on Thursday. I'm also thinking of putting in a DPDT switch to!

Isolate the battery from the charger, so the battery will either be charging, or running the toys, but not both at the same time. I haven't decided about putting the battery inside the charger, but I'm leaning against it. That way, I can leave the charger at home when I just want some portable dc. My batteries all have power poles on them already, and I can't see adapting back to the little push on connectors the batteries use. I'll see about a location to start building these things (I think Gord, GFH had an idea about this). You should come up with a set of days and times when you would like to get together to work on the kits.

In other news, I got to put in some time on the RAC Canada Winter Contest on the 30th. It was interesting. Running 40m CW only, with 50 watts from the trusty Ten Tec Scout and a really wimpy battery, I managed to work a bunch of contacts. Surprisingly few were from Ontario, while surprisingly many were from Europe. Did I mention that I had to remove the clothesline to put up the antenna. No part of it was higher than I could reach. So much for NVIS. I'm still scratching my head over that one. You never know what's going to happen when you drop your callsign into the pileup. I finally ran out of log sheets in the VE3ZY (contest) logbook, another milestone. Electronic logs may have advantages, but I can't see myself casually leafing through them the way I do with the paper version (another topic for another column, I guess).

Finally, a big thank you to Greg and the bunch who made the callsign badges appear at the last meeting. For once, what started out as a good idea actually ended up as a great idea. I'll see you and your badge at the next meeting, or at the Canadian Ski Marathon, whichever comes first.

mk -VE3FFK



Brainteaser

Two New Satellites

Pehuensat-1

AMSAT Argentina announced that Pehuensat-1, the 2nd Argentine amateur satellite was launched from India by an ISRO PSLV-C7 4 stage rocket on January 10. It attained a 635/640 Km polar sun synchronous orbit with an inclination of 97.92 degrees.

Once activated Pehuensat-1 will transmit voice messages in three languages, English, Hindi and Spanish and will be heard on 145.825 Mhz plus an AX25 1200 baud packet following the voice message. More information can be found at: <http://www.amsat.org.ar?f=6>.

AMSAT Argentina provided the following 2-line keplerian elements:

PEHUENSAT-1

```
1 29710U 07001B 07011.96059777 -.00000065 00000-  
0 -16231-5 0 101  
2 29710 97.9483 73.1578 0012960 268.9216 91.0485  
14.79281628 278
```

NO-62

Bill Tynan, W3XO, AMSAT OSCAR Coordinator issued the following statement this week, "By the authority vested in me by the AMSAT-NA President, I am pleased to issue an OSCAR number for the FCAL amateur radio satellite.

From the information provided me, I conclude that, FCAL complies with all of the requirements for an OSCAR number. In accordance with your request, the prefix will be NRL. Thus, FCAL will henceforth be known as NRL-OSCAR-62 or NO-62.

AMSAT-NA and I wish to congratulate you and your entire NRL Amateur Radio Club team for the successful construction, testing and orbiting of this spacecraft."

Last month's puzzle:

Coupons in cereal boxes are numbered 1 to 5, and a set of one of each is required for a prize. With one coupon per box, how many boxes on the average are required to make a complete set?

Answer:

11.42 (or 12 boxes). This one is rather more complicated than I had thought. If anyone is interested I can send the proof.

This month's is easier.

This month's puzzle:

You have just found yourself on the magical island of Consistency on which live three tribes: Whites, Reds, and Blues. Now, it turns out that Whites always tell the truth, Reds always lie, and Blues always alternate between a lie and the truth, but one never knows with which they start. These tribes have no distinguishing physical characteristics, and after walking a ways you encounter three persons you know (somehow) are each from a different tribe. The names of the three persons are Mr. White, Ms. Red, and Mrs. Blue. You then have a conversation with Mrs. Blue:

"To which tribe does Mr. White belong?"

"White, of course."

"And Ms. Red?"

"Red!"

"And then you must be Blue?"

"Right you are!"

Is Ms. Red really a Red? If not, what is she?



The above picture shows OARC Vice President Dave Green (left) presenting Robert Cherry, VE2AGE, with the 2006 Joe Norton award plaque and a cheque for \$500. Congratulations Robert.

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: _____
