



Ottawa Amateur Radio Club

Groundwave

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Check out our Web Page: www.oarc.net

September 2005

Well it's almost fall now. The club meetings will be starting in September and so its time to renew your membership as well. A renewal form is conveniently included on page 9.

A large issue this month as lots of articles came in over the summer. My computer crashed just before I had to make this newsletter and that didn't help much!

Hamfest is only a few days from now—September 3. Make sure to attend so that you don't miss picking up some valuable gear. Also be sure to stay for the RAC Forum after the Hamfest. See the details on pages 10 and 11.

The executive this year is the same as last except for the addition of Richard Hagemeyer, VE3UNW, as secretary. Thanks to Richard for volunteering.

We are already warming you up for the Trivia Night Challenge on December 14. Try out the teaser on page 12.

Ian Jeffrey, VE3IGJ



SEPTEMBER MEETING 7:30 pm, September 14th in the Honeywell room at Ottawa City Hall

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Ottawa Amateur Radio Club

Groundwave

September 2005

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 VE3TEL, **147.03** 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

VE3ATV 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 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

Minutes

The **OARC monthly meeting** was held at June 8th, 2005 at Ottawa City Hall, Ottawa, ON and was called to order at 19:30 by President Diane, VA3DB. 19 members were present at the start, but gradually climbed to 25 or so.

1. There were no **visitors** present at the start of the meeting, but 3 showed up later:
 - a. Martin Gillen, VA3SIE (now a member)
 - b. Karen Price, XYL of Ben Price, VE3CDA
 - c. Brenda Butler, a friend of many hams (she has been a coworker of Richard, VE3UNW and has worked on events with Diane, VA3DB and is interested in becoming a ham (one day).
2. **“RAC” Appreciation Meeting:** Diane, VA3DB announced that coffee was free to all tonight as part of our RAC insurance savings dividend. There is NO decaf.
3. The acceptance of the previous **minutes** was moved by Mike, VE3FFK and seconded by Dave, VE3AV. There was no discussion or vote, so they must be OK.
4. **State of the Union:** Dave Green, VE3TLY spoke to the “State of the Club” highlighting accomplishments of the club over the past year.
 - a. Repeater: **VE2CRA** has been in the process of upgrading for some time now and the project will continue. A significant effort and budget commitment for the benefit of all area amateurs
 - b. The **IRLP** system has been upgraded
 - c. The **Capital City FM Net** on Monday nights has been running smoothly under the leadership of Bryan, VE3ZRK. Bryan reported the check in average is 11.6
 - d. Ian, VE3IGJ organized the club effort running VA3RAC during the **RAC Winter Contest**.
 - e. **Field Day** has been run by Harold, VA3UNK for a couple of years now he will continue this year. Many club members participate.
 - f. Greg, VE3Y TZ runs the club **Hamfest** and is a continuing source of income for the club. This is a large event using many volunteers.

2005

- September 3 OARC Hamfest and RAC Forum
- September 30 Membership Renewal Deadline
- November 9 Joe Norton Award Submissions Due
- December 17 RAC Winter Contest

2006

- February 11,12 Canada Ski Marathon
- April 12 Homebrew Night
- June 14 OARC AGM and Elections
- June 24,25 Field Day
- July 1 RAC Canada Day Contest

- g. The main club **website** has been updated in the past year by Diane, VA3DB
- h. The **Groundwave**, our club newsletter has a new editor. Ian, VE3IGJ has taken over from Cary, VE3EV who did an admirable job for years.
- i. The club financially supports many other organizations; **AMSAT, DARF, RAC Youth Education Program** have received money in the past year.
- j. Thanks to Greg, VE3Y TZ we have **new QSL cards** on the way. The stack of hams waiting for a reply grows daily!
- k. The club manages the **Joe Norton Award** which awards \$500 yearly to a new ham.
- l. Public Service. The **Canadian Ski Marathon** continues to be our big event. It is managed by Richard, VE3UNW and provides about 2000 volunteer hours for the event drawing on hams from Ottawa to Montreal. Kris, VE3URL has run the **Tour Nortel** successfully for a few years now; it’s also an opportunity to promote amateur radio. Many of our members are involved with the local ARES group **EMRG, the Emergency Measures Radio Group**. The club has supported EMRG since the group began.
- m. Thanks to Ben, VE3CDA the club has an active **Public Awareness** effort. Look for Ben in your local mall!
- n. Amateur Radio **training and courses** have been

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Mk's Words

Gosh. Just when I'm all set to tell you about the fun I had all summer playing radio, chasing down repeater QRM and busting radios, along comes the big news about new HF qualifications. If you haven't heard, the following people now have HF privileges:

Everybody licensed before April 2, 2002;

Everybody who got a Basic qualification between that date and July 29, 2005, if they can prove they got 80% or higher;

Everybody with a Basic and Advanced qualification, or Basic and Morse qualification. (The 5WPM exam is still there);

Everybody who passes a Basic exam with a mark of 80% or higher, from July 29, 2005 onward.

That isn't quite all hams, but it is a good portion of them. If you are one of those who wrote the Basic exam between the two dates above and got less than 80%, you can get on HF if you re-write and bring your score up above 80%.

You can still take the 5 WPM test and get on that way, too. If you travel and want reciprocal operating privileges overseas, that may still be your best bet.

They made some other changes, too. The pass marks for both Basic and Advanced exams are now 70%. Write a Basic and get 80% and you get HF, if your mark is only 70% you get VHF and above. If your mark is 65% you get to come back and try again later.

Amateurs who hold a Basic qualification can now build transmitter kits, provided they are commercially designed and packaged. You can now put together that Elecraft K2 you have been lusting after, but you still can't turn your Uncle Freddie's big bag of radio parts into a 2 metre power amplifier.

Remember back in 1990 when a new system came in, with Basic and Advanced and 5 and 12 WPM tests? Some thought it was going to drag amateur radio, espe-

cially 2 metres down into the mud. It didn't happen. It didn't happen because instead of fleeing off to obscure little corners of the spectrum we got on the air and talked to these new guys. When they said "VE3XYZ calling VE3ABC", instead of the other way around, we got on the air and SHOWED them how it was supposed to work, and why. We conversed, explained, made a few new friends and welcomed them to "our" bands.

Well it's time to do it all again. This time on the big waves. Sure, some of them are going to do goofy things like using made up phonetics when trying to work an EA3 station, or firing up on top of a CW QSO because they don't get that beep beep stuff. You'll find them on the wrong sideband, in the wrong sub band at the wrong time of the day. They won't stay there though. If you remind them, show them, talk to them, they will catch on fast. Don't tell them they are stupid. They aren't. These are bright, ambitious, curious people. They are our best asset in the coming years. Let's make sure they stick around. The Trans Provincial net (among others) has a chronic shortage of controllers, and a bunch of "beans" with chronic complaints. Let's get some new ideas, enthusiasm and PEOPLE on the HF bands. -And let's do everything we can to keep them active on the bands.

WELCOME, NEWCOMERS. GLAD TO HAVE YOU ON BOARD WITH US.

mk VE3FFK

ARRL 2006 Handbook

The A.R.R.L. will be issuing the 2006 ARRL Handbook, special 80th anniversary edition later this year. The completely updated publication will include the CD-rom version of the book, plus a special reproduction copy of the original 1926 edition of the Handbook, at no extra cost, while supplies last. It will be available in either hard or soft cover editions. This edition will certainly be in high demand, and will certainly become a collectors' edition. This special offer allows you to reserve your copy now, prior to September 15, 2005. The books will be

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run over the years by Richard, VE3UNW and Mike, VE3FFK (and others). Declining interest has caused us to change our approach to one of mentorship. Courses will still run when there is sufficient interest.

A new email address iwanttobeaham@oarc.net will be promoted on our webpage.

o. We welcomed six **guest speakers** in the past year. The depth and breadth of knowledge and the amazing number of local experts continues to benefit the club. We wish to acknowledge and thank those people now: Clare Fowler, VE3NPC; Peter Devanney, VA3YOW; Wayne Getchell, VE3CZO; Peter Gamble, VE3BQP; Ernie Brown, VE3OEB; and Martin Potter, VE3OAT.

p. **Homebrew Night** continues to inspire and surprise. The **Clare Fowler Technical Achievement Award** is a highly sought wall covering.

q. Mike, VE3FFK and Richard, VE3UNW are the club's **Industry Canada Delegated Examiners**. Mike seems to take the "walk-ins" while Richard takes those who go through classes. Mike reported that six people wrote 10 or so exams in the last year. Richard has done about six.

r. The **APRS igate** is run by Richard, VE3UNW and the **APRS weather station** is run by Rick, VE3IHI. Both have been in operation for about seven years. Rick noted the humidity sensor needs replacing. The weather station shows up at the airport to avoid clutter on the APRS maps.

5. **Finance:** Janice Neelands, VA3PAX distributed the financials for the current year and budget for the upcoming year. Drawing our attention to the first sheet, Janice showed we are in good shape for next year. The previous two years increasing insurance costs led to small losses. Moving on, Janice took us through each line of Assets & Liabilities of the Balance Sheet. Notable in the balance sheet was a GIC which was cashed to fund the repeater upgrades. The "Income & Expense" report (which included next year's budget numbers) was detailed and again each line item was explained by Janice. Of note were increased interest income, lower insurance

costs and more money set aside for engraving and plaques.

The members were extremely impressed with the presentation of the financials and considered it a pleasure to look at our financials. A few questions arose from the members:

- **Question:** Where is the budget for the RAC Hall of Fame which we sponsor?
Answer: The Hall of Fame is handed out irregularly and when it is the costs are not high and can be absorbed without budgeting.
- **Question:** The balance sheet doesn't!
Answer: Oops! Janice will look into the discrepancy.

The adoption of the budget was moved by Croft, VE3CT and seconded by Greg, VE3YTZ. Approved, with one vote against. (Wayne, VE3CZO thinks the balance sheet should!)

6. **Elections:** Doug, VE3XK presented the nominations report. Ian, VE3IGJ is moving exclusively to Groundwave Editor, leaving the Secretary position to be filled. Richard, VE3UNW agreed to stand as Secretary. There being no contested positions, it was moved by Doug, VE3XK, seconded by Ben, VE3CDA that the slate presented be accepted. Passed.

7. **Project Proposal:** Richard Hagemeyer, VE3UNW made a project proposal to be completed by Algonquin College Project students. The device envisioned would move radio audio over a digital wireless signal (802.11) from outside of a building to inside. This will facilitate emergency operations inside sealed buildings without using cross-band repeaters. EMRG supports this project and would like the device. Richard asked for up to \$2000 from the club and will seek matching funds from CITO (www.cito.ca). Moved by Wayne, VE3CZO, seconded by Mike, VE3FFK that the club support the initiative with \$1000 initially and come back to the executive with a budget and technical specifics in the fall with the intention to increase the fi-

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nancial contribution to \$2000 subject to CITO participation. Passed

8. Hamfest: Greg, VE3Ytz reported on the Hamfest and passed around a sign up sheet for volunteers. He is specifically looking for someone to work the door with Janice and three people to work vendor relations on the floor. Greg spoke with Andre of ELKEL who has agreed to sponsor our grand prize, an ICOM IC208H dual-band mobile at a cost of only \$100 to the club. We will again have an ad in the summer TCA. Because tables at the venue are in short supply, Greg will be more aggressive charging for and/or reducing the number of "free" tables. Due to the shortage, he reminded members to book a table early.

9. Field Day: Harold Hamilton, VA3UNK reported on Field Day preparations. Beside the Rideau River, behind St. Paul's college. All are invited. He is looking for HF gear and a manual tuner. Mike, VE3FFK volunteered his tuner. Janice, VA3PAX will head up the food effort.

10. The meeting broke for coffee at 21:00.

11. Martin, VA3SIE gave a short **talk on his QRP setup** and some of his recent contacts. He showed a Ukrainian knee-strap key and an Elecraft KX1 Ultra-Portable CW transceiver kit. It's about \$300/watt with the internal batteries and gets about 85 kilometres per \$. Your mileage may vary. A very impressive radio and operator. Many asked Martin for a Groundwave article.

12. Wayne, VE3CZO and Greg, VE3Ytz gave **trip reports of Dayton and Rochester**. With lots of editorial comments from the room. The general trend seems to be vendors packing up early and quickly. Great bargains at both venues.

13. Brenda Butler drew Martin, VE3SIE's ticket for the **50/50 draw**. He took away **\$22**. Since Martin seemed like a good guy (and was recently licensed), he also received a free membership. Of course he still needs to send his coordinates to the membership

director.

14. The meeting was **adjourned** (late) at 21:50. Richard Hagemeyer, VE3UNW secretary.



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The Picton station overlooking Lake of the Mountains. Dave, VE3BIP is seen here operating on 2m

Bytown Marine Limited Moving

Just to let you and your club members know, as of August 22, 2005 we will be moving to a new location. Numbers and e-mail's will remain the same. The retail store should be ready to re-open between August 25 and September 6.

Regards,
Graham R.G. Walker (VE3GGW)
Retail Sales & Service Manager
BML Communications, a div. of
Bytown Marine Limited
Unit B1, 2212 Gladwin Cress.
Ottawa, ON, K1B 5N1

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Ottawa to Picton via VHF

The idea of trying a VHF contact between Ottawa and Picton came up during an HF QSO last winter. Dave, VE3TLY in Ottawa and Dave, VE3BIP in Belleville decided to give it a go.

Plans slowly evolved over the winter and spring via QSOs and emails. The idea was simple. In Belleville, Dave would collect a few interested hams and the necessary gear and arrange to set up on a high point at Lake on the Mountain about 60 meters above Lake Ontario, just east of the town of Picton. In Ottawa, the other Dave did the same and would try his luck from the obvious advantage of the Eardley Escarpment in the Gatineau Park which rises abruptly about 280 metres above the Ottawa River on the Quebec side. Plans were firmed up, dates were set, and gear was organized.

On Saturday morning June 11, Dave, VE3BIP and Peter, VE3UR set off from Belleville bound for Lake on the Mountain. In Ottawa Dave, VE3TLY and Mike, VE3FFK loaded up for the 40 minute drive into the Gatineau Park, just north of the city in VE2 land. Early coordination was arranged by email that morning and confirmed over IRLP during the drive in.

In the Gatineau Park, with temperature and humidity approaching tropical conditions, it was a real pleasure to arrive at the Étienne Brulé Lookout to find a shady spot with a light breeze. A 10 element 2m beam and a 5 element 6m beam were quickly erected on separate 10' masts (Fig. 1). A 2 x 3 cross piece was firmly clamped to the roof rack with C clamps (Fig. 2). The cross piece had notches cut near each end to accept a 1.5" mast which was secured with a U bolt. The foot of each mast was anchored with a cinder block. This hardware was easy to install and held securely in these calm conditions. Finally the antenna system was checked out with the IC-706MkIIIG. Stand-alone lead acid batteries were used at each station for power. In Picton, a 5 element 2m beam was prepared on a 12' mast (Fig. 3). A vertical 6m antenna was also erected. An IC-910 2m 100W rig was used. Grid squares had been determined in advance and a utility (squares.exe) was downloaded (<http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=2381>) and

used to compute station to station bearings and distance (about 190 km). The Ottawa crew used a compass to orientate the antennas. At Picton, the antennas were oriented using a map and local features.

We had agreed to meet on 144.250 USB. At about 1510Z, Belleville Dave's voice came booming through in the Gatineau Park with a 59 signal report. The 50W Gatineau Park station earned a 56 report in Picton. We were euphoric! A few minutes later we were joined by Mike, VE3VMP who was using a 10 element beam from his home in Belleville. His report in the Gatineau Park was initially 53 but came up to 59 when the 'Armstrong Rotator' was used to point the beam his way.

Moving to 6m, with 100W at each end the Ottawa group were able to copy Peter, VE3UR with a 43 signal report. To assess the effect of cross polarized antennas, Mike, VE3FFK in the Gatineau Park unfastened our horizontal beam and tilted it 45 degrees to be better aligned with the vertical in Picton. Peter's signal came up to 59: the effect of polarization can not be underestimated. A few minutes later the Ottawa group had a call from Bob, VE3KZ in Milton Ont (FN03) who gave us a 59 report. Bob's report was a 57. He also had a QSO with the station in Picton.

Next the Ottawa crew replaced its 6m beam with a mobile vertical. Peter's report was a 44.

We then moved to 70 cm. While the Belleville group's dual band antenna included a 5 element 70 cm Yagi, the Ottawa group only had a mobile vertical which we mag-mounted horizontally to the side of the car. We were unable to establish contact. Later when Dave and Peter were taking down their station, they noticed a bad feedline connection at the antenna. Not to worry, 70 cm will be our next objective.

Moving back to 2m, we got a call from Doug VE3XK from Carp who was in the firing line between the 2 stations. He copied both stations without any trouble. Mike, VE3VMP in Belleville was also able to copy Doug quite well.

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Our final experiment was an FM simplex QSO on 2m. Doug joined us for that QSO as well. Signal reports at each end were 59. You can't ask for much better than that. With the completion of this QSO, we decided to say 73 and declared the exercise an overwhelming success. At the start, we had no idea if contact would even be possible. We all went away quite satisfied with the results.

Of course, the end of the experiment just happened to coincide with the start of the ARRL VHF QSO party. From the Gatineau Park location, it seemed too good an opportunity to let pass. The Ottawa crew hung on for another hour or so and made a number of contacts on 2m (FN01, 14, 15, 23, 24, 25) and 6m (FN03, 12, 15, 23, 25, 32). That 280m tower sure did the trick!

In Ottawa, thanks go out to Al, VE3ZTU who helped out during a trial run a week earlier and to Peter, VE3EPB who dropped by during the experiment to offer support. We also wanted to thank the Blackflies for leaving us alone for much of the exercise and for the makers of mosquito netting who allowed us to keep the car windows open!

With this success under our belts, we should have little trouble encouraging more people from the Quinte ARC to join their friends from the Ottawa ARC in a future VHF link across eastern Ontario.

73

Dave (VE3TLY)

Dave (VE3BIP)

Mike(VE3FFK),

Peter (VE3UR)



The Ottawa antenna farm. The 2m and 6m beams were installed at different heights to prevent collisions while rotating. A mag mount multiband VHF/UHF antenna can be seen on the hood of the car.



Each 10' mast was clamped to a cross piece and held at the base with a cinder block.

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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 1 Feb)) 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: _____



RAC Forum at Hamfest

The OARC is proud to sponsor the RAC Forum and Technology Update. This highly informative event follows immediately after the close of the Hamfest at 1:00 pm. We are very fortunate to have Ben Price (VE3CDA), RAC's Ontario North/East Director, as Moderator. The announced program is:

- 13:00 Digital Radio - A look into the future of HF digital radio Paul Rinaldo W4RI, ARRL Technical Relations Manager
- 14:00 Digital Radio - A look into the future of digital repeaters Graham Ide VE3BYT - St. Lawrence Valley Repeater Council Secretary
- 15:00 Digital Radio - What will digital mean to me? Speaker is TBA

We thank Graham Ide, VE3BYT, Secretary of the St. Lawrence Valley Repeater Council, Secretary of the West Carleton Amateur Radio Club, and Chairman of the RAC VHF/UHF Band Planning Committee for bringing his expertise to the subject of digital repeaters.

We are extremely pleased to have Paul Rinaldo join us. Paul's expertise will make his presentation the Amateur event of the year for area amateurs. Paul Rinaldo, W4RI, is Chief Technology Officer of the American Radio Relay League (ARRL), the national association for Amateur Radio, stationed in Fairfax, Virginia. Most of his current duties include U.S. Government relations on domestic and international Amateur Radio matters, including work with the International Telecommunication Union (ITU) and the Inter-American telecommunication Commission (CITEL). He was elected to the Board of Directors of the United States ITU Association (USITUA) for the term 2004-2005.

He was first licensed in 1949 as W9IZA. He held the call sign W3FFH in 1955 and K4YKB in 1958. While he has been active on CW, phone and digital modes, his main interests are in technical experimentation.

Prior to his ARRL employment, he was a telecommunications consultant and earlier worked for the U. S. federal government in telecommunications including spectrum management.

Rinaldo came to work for ARRL in 1983 as Manager of the ARRL Technical Department. He went on to become the Publications Manager and Editor of QST, and later Manager, Technical Development.

He currently serves as Chairman of ITU-R Working Party 8A Working Group 1, which is concerned with technical studies related to the amateur and amateur-satellite services. As such, he was responsible for studies on 7 MHz and revision of Article 25 leading to the 2003 World Radiocommunication Conference in Geneva. He has participated in two ITU Plenipotentiary Conferences, six World Radio Conferences, all Radiocommunication Assemblies since the 1990s, numerous Working Parties and Task Groups, and related U.S. preparatory meetings. He chaired Task Group 8/2 on wind profiler radar and the WP 1A drafting group on out-of-band emissions. He was a principal editor of the ITU-D handbook on disaster communications for developing countries.

He served as Chairman of the ARRL Digital Committee, which was responsible for development of the amateur packet radio standard AX.25. He has participated on a number of ARRL committees, including the Technology Task Force Committee. Greg Danylchenko, VE3YTZ

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shipped to all clients in October 2005.

The Canadian prices for either the hard or soft cover editions are indicated in the flyer. Please feel free to contact me for details on the total price for your individual order, based on your geographical location.

eSheldon Harvey, Radio H.F.

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Telephone: 450-671-3773 (Montreal Region)

Toll Free in Canada: 1-800-463-3773

The Ottawa Amateur Radio Club

is pleased to announce its 9th Annual



Hamfest

Saturday, September 3, 2005 (Labour Day weekend)

Tailgaters Open and Building Vendor setup: 8 am

Building Opens: 10 am until 1 pm

Radio Amateurs of Canada Forum and Technology Update: 1 pm - 4 pm (approx)

**Carp Agricultural Fairgrounds
3970 Carp Rd (at Falldown Lane)
Ottawa (Carp), Ontario**

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

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

\$5 general admission

\$10/table (plus admission)

\$5/tailgate (plus admission)

This year's great door prize is a IC-208H - 2 meter/440 MHz Dual Band Mobile Transceiver
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The OARC is proud to sponsor the RAC 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 Ben Price (VE3CDA), RAC's Ontario North/East Director, as Moderator.

For further information or reservations contact:

Greg Danylchenko (VE3Y TZ) Tel: (613) 236-9291(H) E-mail: fleamarket@oarc.net
Talk-in on VE2CRA , 146.940 – Mhz



Question Bank Corner

As part of the build-up to the Christmas game. I have produced the first instalment of "Question Bank Corner". Test your knowledge against the newbies! These are questions from the basic and advanced exam. Answers are at the bottom of the page.

Richard Hagemeyer, VE3UNW

1. What does "RST 579" mean in a Morse code contact?
 - a. Your signal is perfectly readable, moderately strong, and with perfect tone.
 - b. Your signal is perfectly readable, weak strength, and with perfect tone
 - c. Your signal is fairly readable, fair strength, and with perfect tone
 - d. Your signal is barely readable, moderately strong, and with faint ripple
2. In a single sideband transmitter, the output of the _____ is connected to the mixer.
 - a. variable frequency oscillator
 - b. radio frequency oscillator
 - c. linear amplifier
 - d. antenna
3. All storage batteries have discharge limits, and nickel-cadmium, the type most used in hand-held portables, should not be discharged to less than:
 - a. 0.5 volt per cell
 - b. 1.5 volt per cell
 - c. 0.2 volt per cell
 - d. 1.0 volt per cell
4. Calculate the value of resistance necessary to drop 100 volts with current flow of 0.8 milliamperes:
 - a. 125 kilohms
 - b. 125 ohms
 - c. 1250 ohms
 - d. 1.25 kilohms
5. What is meant by "back EMF"?
 - a. A current that opposes the applied EMF
 - b. A voltage that opposes the applied EMF
 - c. An opposing EMF equal to R times C percent of the applied EMF
 - d. A current equal to the applied EMF
6. Which class of amplifier has the poorest linearity and the most distortion?
 - a. Class AB
 - b. Class C
 - c. Class A
 - d. Class B

Answers: 1-a, 2-a, 3-d, 4-a, 5-b, 6-b.

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