

Rambler

Newsletter of the
Ottawa Valley Mobile
Radio Club
Incorporated



Nov 2015

Edition 60

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President's Ramblings

The fall season is descending upon us and winter will soon be here before we know it. While we still have a few decent days with us, it is well advised to end the procrastination and complete that outstanding outside antenna work to be well prepared for the long dark evenings of outstanding DX.

We conducted our October meeting with a fair turnout, 25 souls were present; however, I'm sure more would have attended had some members been reminded a meeting was happening. So many folks have so much on their personal agenda, going to an OVMRC meeting is just not foremost on their mind. We will look at pushing out an email to all members just before the meeting date to remind them a meeting is happening. Don't forget, meeting nights have changed for the rest of the 2015/2016 season. Mark off the 3rd Wednesday in the month from now on, except December when our gathering will be a Holiday Season Dinner at Louis Steak House on Cyrville Road. Sandy Haggart, VE3HAZ is organizing this event which will be open to all members of the club including spouses, family and friends. This is planned for Thursday, December 17th. If you wish to attend, please indicate your

intention with Sandy Haggart, ve3haz@rac.ca.

October's meeting featured Bryan Rawlings, VE3QN who is Radio Amateur of Canada's special representative to the World Radio Conference 2015. Bryan's talk was all about the historical and current activity of "Regulating Radio" internationally in which advancing and defending the interests of amateur radio have played a big part. At WRC 2012, the amateur service won a secondary allocation of 472 to 479 kHz. For WRC 2015, there is Agenda item 1.4 to do with trying to obtain an International amateur allocation in the 5 MHz band. This would create a common ham band worldwide for 60 metres; something we don't have currently with the various different domestic amateur channels currently in use. We will know soon whether there will be the necessary International support for this allocation. It should be understood that all this WRC work by Bryan while participating with Industry Canada in the International Working Party 5A and the Conference Preparatory Meetings and attending the Conference itself in Geneva doesn't come without considerable expense. Bryan's provides his personal efforts pro-bono but his travel and living expenses are funded through the Defense of Amateur (Continued on [page 3](#))

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Meeting Date

Club Meeting:

November 18th
Wednesday

History of the Diefenbunker
by
Ralph Cameron, VE3BBM

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For information about the duties and responsibilities of the Executive, please visit the OVMRC forums, Member section or contact any member of the Executive..

Sponsors

The OVMRC acknowledges the following organizations for their support of our activities:

• ACCEPTABLE STORAGE,
Ottawa, ON**• KENWOOD ELECTRONICS
CANADA INC.,**
Mississauga, ON**• TRAVEL-MOR TRAILER SALES,**
Ottawa, ON**• PEPPERS RADIO SALES,**
Rockland, ON
Email: peppersradio@videotron.ca
WEB site: www.peppersradio.net

The club's web site is hosted by:

**PRIMUS TELECOMMUNICATIONS
CANADA INC..**www.ovmrc.on.ca**OVMRC Life Members**

Ernie Jury, VE3EJJ

Maurice-André Vigneault, VE3VIG

Ralph Cameron, VE3BBM

Doug Carswell, VE3ATY

Doreen Morgan, VE3CGO

OVMRC Repeaters

VE3TWO

147.300 MHz(+)/100

444.200 MHz(+)

Amateur Radio Exhibit**VE3JW**

Web site:

ovmrc.on.ca/ve3jw.htmCanada Science & Technology
Museum

Is temporarily off the air due to the closure of the Canada Science and Technology Museum

The Rambler is the official newsletter of the Ottawa Valley Mobile Radio Club Incorporated and is published 11 times a year (monthly, except for July). Opinions expressed in the Rambler are those of the authors and not necessarily those of the OVMRC, its officers or its members. Permission is granted to republish the contents in whole or in part, providing the source is acknowledged. Commercial use of the contents is expressly prohibited.

Submit articles to the editor or by e-mail to:

*[Robert Cherry, VA3AOD](mailto:Robert.Cherry@VA3AOD)
cw527@ncf.ca*

**Visit the OVMRC Store
at**

<http://www.cafepress.ca/ovmrc>

Ottawa Valley Mobile Radio Club, Incorporated**PO Box 41145****Ottawa, ON K1G 5K9****www.ovmrc.on.ca**

(Continued from [page 1](#)) Radio Fund (DARF) and to a lesser extent by the International Amateur Radio Union (IARU) of which RAC is a contributor as a member society. To help replenish the fund for the next WRC cycle, a motion will be raised at the November OVMRC meeting for the club to donate to the both RAC and DARF to continue the important defense of amateur spectrum both internationally and domestically.

The November meeting will feature Ralph Cameron, VE3BBM giving a talk on the “Diefenbunker” located in Carp. Ralph was very involved with the OVMRC years ago and is a life member of the club. He now devotes his interests to old time radio as a member of the Vintage Radio Club of Ottawa and the support of the Diefenbunker Museum where there is an amateur radio station. Also, supplementary to November’s meeting, I intend to provide a short presentation about the Radio Advisory Board of Canada (RABC) of which RAC is a member organization and tell of the importance of amateur participation on this Board. Besides myself, Ralph Cameron was also involved with the RABC as EMC committee

chairperson years ago. Currently, again through RAC membership, Glenn MacDonell, VE3XRA, now serves on the executive of the RABC.

As an update, the amateur radio course is progressing well. Several more folks have joined the Monday evening class since our last report. The course has now swelled to 39 candidates registered. I may have to extend classes into the new year providing supplementary lessons of Basic course content missed by late arrivals into the course. If there is an interest, I may as well provide instruction for those wishing to try the Advanced Certificate Exam.

I also want to update the membership about happenings at Canadian the Museum of Science and Technology (CSTM). We were called to a meeting at the Museum Corporation Administrative Offices on October 30th. I and Sandy Haggart, VE3HAZ attended and Darin Cowan, VE3OIJ tuned in by phone. Attending for the CSTM were the Director General, the Director of the Curatorial Division and the Volunteer Coordinator and Volunteer Manager. We were advised that the renovations of the

Museum were proceeding well and the scheduled completion will be the fall of 2017. We were also told the Museum has valued the relation with the OVMRC and will continue to provide a meeting venue for the Club and a room and facilities to re-establish the VE3JW station. However, they also made clear, the station would not be part of the public exhibit area as before. Notwithstanding, they also indicated their continued support to host our public operational events such as Field Day and ARISS student communications events. We expressed our appreciation for the continued relationship and accommodation at the renovated Museum facilities, but we also expressed disappointment that the VE3JW station would not be on public display as we consider such an open exhibit, as before, would be a prime promotion for the Amateur Radio Service. Since the curator of the new exhibit area covering radio communications was not present at the meeting, we requested an opportunity to meet with him to further discuss how amateur radio may fit into the theme of the new exhibits of the Museum.

Norm Rashleigh, VE3LC



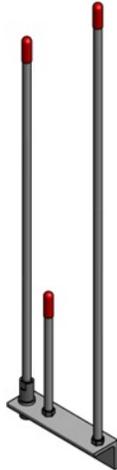
State of renovations at the CSTM

More on the "J" Pole 2 mtr, 70 cm dual band antenna.

I borrowed Sandy's, ve3haz, home brew "J" pole antenna that was the subject of his article in last month's Rambler and his show-and-tell at our October meeting. I

performed a return-loss test on the antenna using a my "Mini-circuits ZFDC-20-4-8" direction coupler and Rigol DSA815-TG spectrum-analyzer, tracking generator instrument and obtained the tracings shown below using a frequency sweep of 100 to 500 MHz.

The screen capture shows a very good return loss greater than 20 dB in the 2 metre band and slightly less on 70 cm. These measurements indicate a very good SWR on both bands. The two marker frequencies

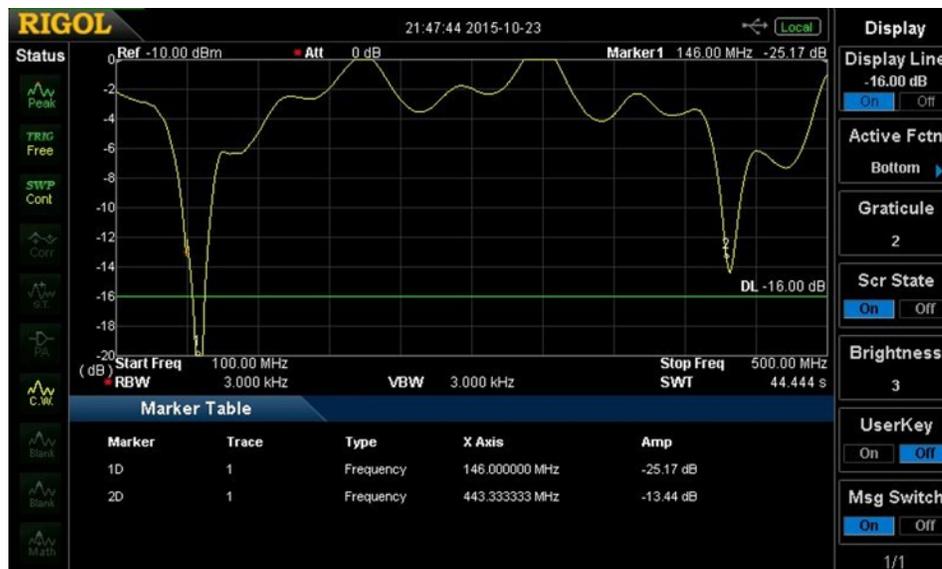


show the antenna resonant dips. For those not familiar with the return loss method of measurement and its relation to VSWR, the following table provides some conversion points:

VSWR	Return Loss
3:1	6 dB
2:1	9.5 dB
1.5:1	14 dB
1.2:1	20.8 dB
1.1:1	26.4 dB

The "J" Pole seems like the makings of a good club project, especially if we can make a group order for some of the more difficult components such as the 3/8"-24 SO-239 adaptor, part number MFJ-7748 or equivalent. Your club executive could also arrange for the purchase the necessary metal rod, angle bracket and mounting materials and prepare a kit for club members to assemble with a simple wrench. If there is sufficient club interest, we can proceed with the project. It is estimated the kit would cost approximately \$25. Email your interest to our club Vice President, Barry Allison, ve3njk@rac.ca

Norm , VE3LC



Norm's Technical Tid Bit.

Receiver Sensitivity Measuring Methods

First presented at the October, 2015 OVMRC meeting.

- 12 dB SINAD as a criterion for measuring the sensitivity of an FM radio receiver.
- 10 dB S/N ratio as a criterion for measuring the sensitivity of an AM radio receiver.
- Bit Error Rate (BER) criterion for measuring the sensitivity of a Digital radio receiver.

As an example, Yaesu specifies the following receiver sensitivities for the new FT1D "System Fusion" portable radio for some of its various modulation modes and frequency ranges:

- 3 uV for 10 dB SN (0.5 to 30 MHz, @AM) MF and HF ranges
- 1.5 uV TYP for 12 dB SINAD (76 to 108 MHz @WFM) FM broadcast band
- 1.5 uV TYP for 10 dB SN (108 to 137 MHz @AM) Aircraft Band
- 0.16 uV for 12 dB SINAD (140 to 150 MHz @NFM) 2 m band
- 0.16 uV for 12 dB SINAD (400 to 470 MHz @NFM) 70 cm band
- 0.19 uV TYP for BER 1% (Digital Mode) presumably on 2 mtr and 70 cm bands.

Measurement of FM Receiver Sensitivity Based on 12 dB SINAD criterion

Note that all FM mode sensitivities from all manufactures are given in uV for 12 dB SINAD.

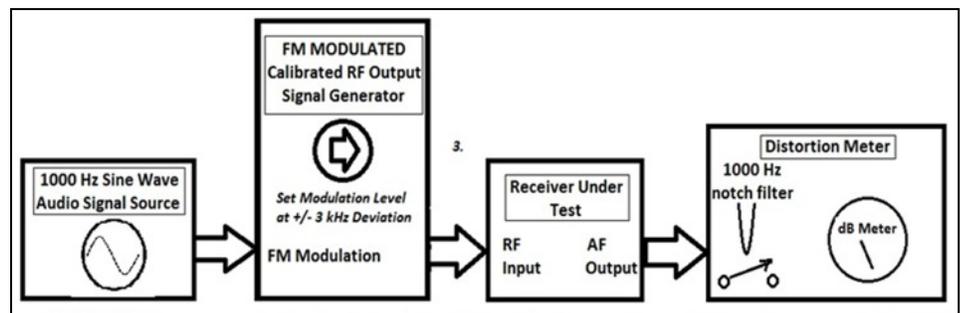
SINAD means (Signal+Noise+Distortion to Noise+Distortion) Ratio

The "Signal" portion of the equation refers to the **modulating signal**.

As expressed as decibels in a power ratio: $_{dB} SINAD = 10\text{Log} (S+N+D / N+D)$

When measuring, the obvious difference between the top and bottom of the ratio (S+N+D / ND) equation is the "S" component denoting the "Signal". The removal of the signal for the ratio comparison is accomplished in the measurement with an audio filter that is part of the distortion analyser instrument.

To measure the dB SINAD sensitivity of a FM receiver follows the instrument configuration below:



Procedure:

- Set the RF Signal Generator RF level high (> 30 uV) and set on-channel to the frequency of the "Receiver Under Test".

- Apply FM modulation to the RF Signal Generator set to 1000 Hz and 2/3 rated deviation. For common narrow band FM operation, this amounts to +/- 3 kHz deviation.
- Measure audio output of the receiver by connecting (across the speaker or comparable termination) to an Audio Distortion Analyzer instrument.
- Set audio level shown on the Distortion Analyser meter to a 0 dB reference; this will be essentially the 1000 Hz modulating signal. Adjustment of this reference level should be with receiver audio output volume set at full rated audio power level and the sensitivity adjustment of the distortion analyser set to obtain a 0 dB reference reading on the instrument dB meter.
- Engage and tune the filter on the Distortion Analyser to "notch" out the 1000 Hz FM modulation signal leaving distortion and noise from the Receiver Under Test.

- Decrease the RF level from the RF Signal Generator while watching the distortion analyser meter; the meter reading should show an increase in noise as the RF signal into the receiver becomes weaker.

- Switch the filter off with the weaker RF level and re-set the instrument sensitivity to maintain 0 dB reference with the filter not engaged. Then re-engage to show the dB difference.
- Again, adjust RF output level of the signal generator so there is a 12 dB reduction between having filter engaged vs not engaged.
- At the 12 dB SINAD reference criterion as measured on the audio Distortion Analyser, read the setting of the calibrated RF output control of the RF Signal Generator; this will be the measured RF sensitivity of the Receiver Under Test for 12 dB SINAD.

In the 2-way radio industry, specialized instruments have been designed to facilitate the measurement of FM receiver sensitivity based on the 12 dB reception criterion. A MS Windows application for this type of measurement is available at: comtekk.us/manuals/SINAD/measurments.htm

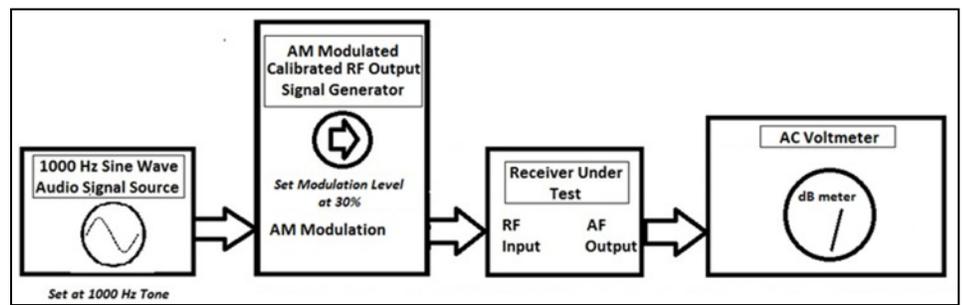
Measurement of AM Receiver Sensitivity Based on the 10 dB Signal-to-Noise Ratio

This criterion of performance is based on: $_{dB} S/N = 10 \log (S+N / N)$, however; the noise is considered insignificant compared to the signal so it is commonly referred to simply as S/N ratio.

Measuring sensitivity of the FT1D AM receiver mode of operation is based on the 10 dB Signal-to-Noise Ratio Criteria; this should be given at a defined receiver selectivity bandwidth. For AM, we will assume this to be 10 kHz.

The test setup to measure S/N ratio will be different than the SINAD criterion for FM since there is no distortion component to the measurement. Therefore, the audio output reference of the receiver will not require switching in and out a modulation signal filter that is part of an audio Distortion Analyser instrument. Instead, a simple audio AC Voltmeter that is calibrated in dB will suffice.

The test instrument setup should follow the configuration shown below:



Procedure:

- Start by having no RF input connected to the Receiver Under Test.
- Establish a 0 dB audio noise reference level on the AC Voltmeter while measuring the audio (speaker) output of the Receiver Under Test and adjusting the receiver volume control.
- Tune the RF Signal Generator, that is amplitude modulated with a 1000 Hz tone at 30 % modulation level, to the receiver channel frequency and connect the RF Signal Generator to the input of the Receiver Under Test.
- Carefully adjust the calibrated RF output of the RF Signal Generator until the AC

Voltmeter reads 10 dB greater than noise alone (and with no RF input) and read the RF calibrated output of the RF Signal Generator; this will be the receiver sensitivity for 10 dB Signal-to-Noise ratio.

- The same method may be used to measure the SSB or CW reception mode receiver sensitivity except there will be no modulation applied to the Signal Generator. Instead, a CW RF signal will be tuned to the middle of the reception band

pass filter and resolved with the receiver mode selector to set to LSB or USB or CW. The measured sensitivity of the receiver should increase with a decrease in reception bandwidth. For SSB, it will be assumed that the receiver bandwidth will be 2.7 kHz. For CW, the receiver selectivity bandwidth should be set to 500 Hz.

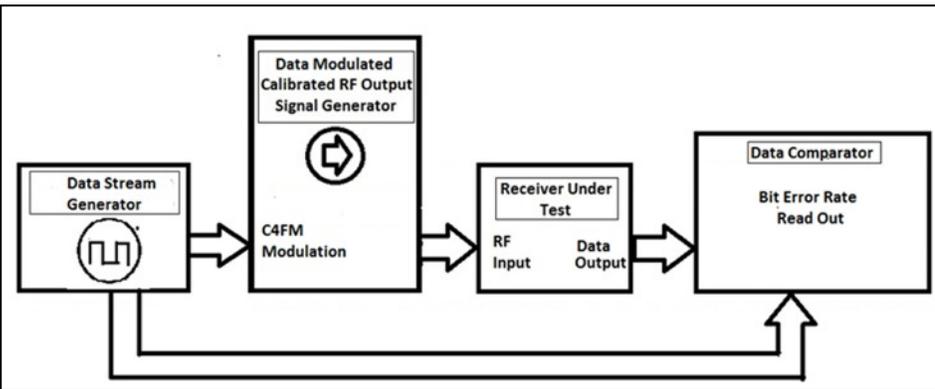
Measurement of a Digital Receiver Sensitivity Based on Bit Error Rate Criterion.

The Yaesu FT1D portable radio is also a digital voice radio using C4FM (4 level FSK) modulation. In this mode of operation, the sensitivity specification is based on 1% Bit Error Rate (BER) of the received data. It is assumed at this bit error rate and with the error detection and correction scheme of

the Yaesu data protocol, 1% bit error rate is tolerable for good recovery of the data transmission and good digital voice quality.

Measuring sensitivity based on BER usually requires specialized equipment such as a Data Stream Generator as the source of the digital modulation and a Data Comparator that can compare the modulation source data with the data output of the Receiver Under Test.

The following test equipment configuration is typical for a BER sensitivity test:



Procedure:

- Decrease the RF output of the data modulated RF Signal Generator until the BER showing on the Data Comparator reaches the criterion set for the measurement (say 1% BER).
- Read the calibrated RF output of the Signal Generator fed into the Receiver Under Test; this will be the receiver sensitivity for the specified BER.

Norm Rashleigh, VE3LC

November/December Contest Calendar

The main contests for November/December are:

Nov 21/22/23 - ARRL Sweepstakes Contest, SSB

www.arrl.org/sweepstakes

Nov 28/29 - CQ Worldwide DX Contest, CW

www.cqww.com/rules.htm

Dec 4/5/6 - ARRL 160 Metre Contest

www.arrl.org/160-meter

Dec 12/13 - ARRL 10 Metre Contest

www.arrl.org/10-meter

Dec 19 - RAC Winter Contest

wp.rac.ca/wp-content/uploads/2015/07/2015-Winter-Contest-Rules-English-French.pdf

All other contests, go to:

www.hornucopia.com/contestcal/contestcal.html

Announcement from The Contest Club of Ontario

To all Contesters and DX'ers in Eastern Ontario

Invitation to a Winter Gathering

Date: Saturday, January 23, 2016

Time: Sign-in at 11:30 am followed by a light lunch

Cost: \$20

Place: St. Paul's Presbyterian Church, 971 Woodroffe Ave., Ottawa

Interested in Attending: Contact Bob MacKenzie, VA3RKM@rac.ca

Program:

- Vlad Milutinovic, VE3JM will be the main speaker on the "Challenge of Building a Contest Station east of Ottawa"
- Also Update on WRC 2015

Field Day 2015

OVMRC Ranks 7th in Canada for Class 2A Score.

The results have been published on-line by the ARRL. Our club using the call sign VE3JW AND GOTA call sign VE3RAM ranked 7th amongst other Canadian Club competitors with a score of 3016 points, one of the better scores amongst 18 Canadian clubs and groups in 2A class.

TOP 10 Canadian Club Scores in 2A Class

Club	Call	GOTA Call	Section	Score
3730 GROUP	VE3OFR	VE3YCB	ONE	4146
West Is & Mtl ARC	VE2CWI		QC	4050
Ottawa ARC	VE3RC	VE3NRC	ONE	3848
Orca DX & CC	VE7ODX		BC	3494
Greenwood ARC	VE1ARC	VE1WN	MAR	3098
North Shore ARC	VE7NSR	VE7EMR	BC	3090
Ottawa Valley MRC	VE3JW	VE3RAM	ONE	3016
Club de Amateur de QC	VE3CQ	VE2CDX	QC	2570
Club Radio Saguenay	VE3CRS		QC	2454
Cowichan Valley ARC	VE7CVA		BC	2236

We had almost a full slate of Bonus points but fell short on the number of contacts. Keeping our operation going all night would probably put us at the top of the Canadian competition. Something to strive for Field Day 2016.

Norm, VE3LC

Regular Meeting Schedule Changed, See schedule below

With the greater turnout of our regular meetings, we have had to change the meeting night in order to be use the "Bush Theatre" at the Canadian Aviation and Space Museum. The "Bush Theatre" will accommodate up to 45 persons with comfortable seating and provides good AV connection to the computer. Except for the October meeting, the **Regular Club meetings will be on the 3rd Wednesday each month**; there will be no meeting in December. However, because of another schedule conflict at the Museum, our **October 22nd meeting will be on the 4th Thursday of the of the month**. The formal proceeding of the meeting will commence at 7:30 pm in the Bush Theatre; arrive by 7 pm for meet and greet. Refer to the following schedule for dates of

each monthly meeting for the remainder of the season, note any special notes.

- **Wednesday**, Nov 18 This meeting will feature OVMRC life member Ralph Cameron, VE3BBM giving a presentation on the **History of the Diefenbunker**.
- Wednesday, January 20
- Wednesday, February 17
- Wednesday, March 16
- Wednesday, April 20
- Wednesday, May 18
- Wednesday, June 15 (*this is our Annual General Meeting*)

Emergency Measures Radio Group (EMRG)

EMRG is also known as Ottawa ARES (Amateur Radio Emergency Service). It is a group that was formed many years ago and promotes Amateur Radio preparedness and training and works closely with the city the Ottawa and public service agencies in the area such as the Red Cross. If you have interest in public service amateur radio communications, it is recommended you become familiar with this group and their activities and exercises. For more information, goto: www.emrg.ca/

EMRG sponsor a number of Ottawa area Amateur Radio repeaters. All amateurs with VHF/UHF FM radio equipment are invited to check-in and provide signal reports during the monthly EMRG repeater tests. This exercise is usually conducted by Dave Harris, VE3KMV. Mike Kelly, VE3FFK who usually monitors the VE3OCE repeater, has provided the following instructions:

Monthly Repeater Tests

The test begins at 20:00L (8PM) usually on the first Wednesday of each month on VE3OCE (146.880 - 136.5Hz CTCSS). For those of you who copy CW, note that the repeater (mis)identifies itself as VE3EMV/E.

When checking in initially, just send your call sign, (even though that isn't what the net preamble says).

Once everyone is checked in, you will be asked for:

- Your name (Your first name only)

- Location (What neighbourhood or part of the city are you in, not an exact address)
- Station type (Fixed, Mobile, Portable)
- Effective Radiated Power -ERP (Transmitter power minus cable losses plus antenna gain). An estimate of ERP is OK, it doesn't have to be exact.
- A readability and strength report OF THE REPEATER (not the other people on the net)

Readability:

How easy or difficult it is for each spoken word to be understood correctly. Readability is measured on a scale of 1 to 5 .

- 1 Unreadable
- 2 Barely readable, occasional words distinguishable
- 3 Readable with considerable difficulty
- 4 Readable with practically no difficulty
- 5 Perfectly readable

Strength:

Strength is an assessment of how powerful the received signal is at the receiving location. In practice this portion of the RST code is a qualitative assessment. Strength" is measured on a scale of 1 to 9

- 1 Faint signal, barely perceptible
- 2 Very weak
- 3 Weak
- 4 Fair
- 5 Fairly good
- 6 Good
- 7 Moderately strong
- 8 Strong

9 Very strong signals

Strength is difficult to assess for FM signals without a good S meter, but it is used here just to distinguish between difficulty reading a signal because of poor audio or other defects, or because of a lack of received signal strength.

Once all the stations have reported on the first repeater, the net moves to the other EMRG repeaters in the following order:

REPEATER FREQ CTCSS

VE3OCE	146.880-	136.5
<i>(Starting frequency)</i>		
VA3EMV/E	146.985-	100.0
VA3EMV/W	145.210-	123.0
VA3OFS	146.670-	136.5
VE3OCE	443.800+	136.5
VE3EMU	444.950+	136.5

NOTE:

EMRG REPEATERS ARE OPEN FOR USE BY ANYONE IN THE AMATEUR COMMUNITY

UNDER THE FOLLOWING UNDERSTANDING;

- The purpose of the repeaters is for emergency communications, so EMRG has priority for exercises and emergencies.
- Conversations should be useful, Amateur radio related and free from personal opinions.
- The repeaters are on City of Ottawa property and are occasionally monitored by City staff who have scanners.
- If the repeater is not working, tell someone. Notify any member of the EMRG management team, or send an email to ve3oce@rac.ca

73 Mike Kelly, VE3FFK

What's Happening Elsewhere!

Check it out; let us know what's going on in your club.

Ottawa Amateur Radio Club (OARC)

www.oarc.net/blog/:

Ottawa Valley QRP Society:

<http://www.qsl.net/va3ovq/VA3OVQ/Welcome.html>

The Ottawa Valley QRP Society is a group of Amateur (Ham) Radio operators in the Canadian National Capitol Region with an interest in QRP (low-power) operating, equipment homebrewing and antenna experimentation. The group holds the Amateur Radio call sign VA3OVQ. Membership is free and open to anyone in the National Capitol region with an interest in low power Amateur Radio.

Our monthly dinner meetings are :

2015-2016 Meeting Dates

7:30 - 9:30 P.M.

Wednesday November 18

Wednesday January 20

Wednesday February 17

Wednesday March 16

Wednesday April 20

Wednesday May 18

Wednesday Jun 15

We need your participation.

At 5:00 P.M. on the second Wednesday of each month at Donna's Express Restaurant at the corner of Churchill and Scott Streets in Ottawa.

We have an **online discussion group** on Yahoo Groups called ov-qrp.

See:

groups.yahoo.com/group/ov-qrp/ for details or email [va3ovq at qsl.net](mailto:va3ovq@qsl.net).

Rideau Lakes Amateur Radio Club (RLARC)
ve3rlr.dyndns.org/:

West Carleton Amateur Radio Club
www.wcarc.on.ca

VE3ORF/3730 Group
www.ve3orf.com/

CRAO Club Radio Amateur Outaouais (CRAO)

2015-2016 Rambler Deadlines

January 06

February 03

March 02

April 06

May 04

Jun 01

Submit articles to the editor or by e-mail to:

[Robert Cherry, VA3AOD](mailto:Robert.Cherry@VA3AOD.cw527@ncf.ca)
cw527@ncf.ca.

NOTICE OF MOTIONS

In view of the club's good financial standing, at the Regular Meeting of November 18, 2015, Members in Good Standing will be asked to vote on the following motion:

Moved that the budget of the Ottawa Valley Mobile Radio Club Incorporated for the fiscal year 2015-2016 be amended to reflect a total financial donation outlay of \$1000 distributed to Radio Amateurs of Canada, the Defense of Amateur Radio Fund, and the CNIB Amateur Radio Program.

Thanks and 73

Norm

Reminder of OVMRC weekly nets:

- **OVMRC VE3TWO Net**, 147.300 +, weekly Wednesdays at 8 pm, but not on OVMRC meeting night.

- **OVMRC Pot Hole Net**, 3760 kHz, weekly, Sunday at 10 am

Also,

- **Rubber Boot Net**, VE3MPC, 147.150 +, weekday mornings at 7:30 am

- **Phoenix Net**, VE3MPC, 147.150 +, weekly Tuesdays 8 pm

Technical information:

What have you found or read lately that might be interesting to others. Write it up and send the information to the Rambler Editor, Robert Cherry (cw527@ncf.ca) even if it is an URL

MEMBERSHIP FORM

Ottawa Valley Mobile Radio Club, Incorporated
 PO Box 41145
 Ottawa, ON K1G 5K9

- ✓ *The membership year starts 1 September, and runs until 31 August of the following year.*
- ✓ *Regular membership is open to licensed amateurs.*
- ✓ *Associate membership is open to all unlicensed radio enthusiasts.*
- ✓ *Membership includes a digital subscription to the club newsletter, the OVMRC Rambler.*

NEW RENEWAL UPDATE/CHANGE

Please print legibly

Call Sign	Surname	Perferred first name
Street		Apartment
City	Province	Postal Code
Home/primary phone	Work/other phone	E-mail address
Are you a member of Radio Amateurs of Canada (RAC)? Yes / No		
RAC ID: _____ Expiry (YYYY-MM-DD): _____		

Do you wish to order an OVMRC name tag? (+\$12.00) Yes <input type="checkbox"/> No <input type="checkbox"/>		
Callsign for name tag	Name for name tag	

Full Membership (Not a Member of RAC)	\$35.00/yr <input type="checkbox"/>	Amount Enclosed \$ _____ Cheque / Cash
Full Membership (RAC Member)	\$25.00/yr <input type="checkbox"/>	
Associate Membership (Unlicensed)	\$25.00/yr <input type="checkbox"/>	

Circle your interests			
Bands Microwave UHF VHF HF LF and below	Modes CW Digital Phone EME Satellite Experimental	Building RX TX Antennas Test equipment Other	Other Teaching Speaking/Presenting DF/Fox hunting Contesting DXing Computers/IT Other

Signature	Date	Initials	<i>By initialing this box, I confirm that I consent to receiving e-mail messages from the Club.</i>
_____	_____		