

Rambler

Newsletter of the
Ottawa Valley Mobile
Radio Club
Incorporated



Oct 2014

Edition 59

Page: 1



President's Rambling

Our OVMRC

Christmas dinner is
scheduled for

Thursday evening on December 18th, starting at 18:30 hrs. We have scheduled accommodations at Louis Steak House (www.louissteakhouse.com/), The only business/fun portion of the evening (hopefully) will be the opening of the OVMRC Time Capsule from the 2002 time period. Currently the Time Capsule is at the CSTM and (hopefully) will be retrieved before the 18th .

Please note this evening is open to all interested persons especially current and past members. I think that there are people who contributed to this "Time Capsule" would enjoy the anticipation of the responses related to the content. I am sure there will be some surprises. Please send your attendance response to me via email (dah542@gmail.com).

Our temporary accommodations

at the Canada Aviation and Space Museum (CASM) are now permanent for the rest of 2015. I am sure you have read the updates in the local papers or heard them on local news channel about the status of CSTM. So this news that is the best understanding we have to date. Your Executive has sent two letters to CSTM inquiring as to when and how we can retrieve our assets. Although as of this date no response has been received we do remain optimistic that some positive response will be forthcoming.

There are a few asset management challenges for the club to address, these being:

- Retrieving our assets;
- Duration of storage;
- Defining what will be stored;
- How to handle assets that are not to be stored, i.e. throw away, sell via WEB site 'For Sale'

• (Continued on [page 3](#))

INSIDE

President's Rambling.....	1,3-4
Additional Photos.....	4
Technical Information.....	5
Membership Renewal.....	5
OVMRC Meetings.....	5
OVMRC Repeaters.....	5
Meeting Dates.....	6
What's Happening Elsewhere.....	6
Rambler Deadlines.....	6
Radio Course Quick Quiz.....	6-8
Membership Form.....	9

Meeting Date

Club Meeting:

Dec 18th
Thursday

CHRISTMAS
DINNER

Louis Steak House
1682 Cyrville Road

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OPEN

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For information about the duties and responsibilities about all Executive and Chair positions, 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

**Visit the OVMRC Store
at**

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

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.htm

Canada Science & 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:

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(Continued from [page 1](#))

- What type of storage is required;
- Storage location and ‘cost’.

We will have some time to have a club discussion on these points and I am assure other issues will arise, so please think about these issues and let us know what you think.

A longer range planning initiative is the coordinated planning of the new VE3JW station exhibit in the ‘New CSTM’ in 2017. We have indicated our desire to work with the Museum to align the JW exhibit with the new look and feel to whatever it evolves to by 2017.

November meeting review:

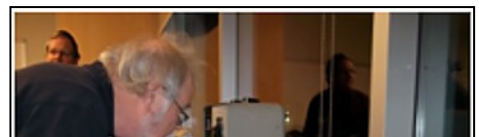
The OVMRC November monthly meeting main topic was a Radio Clinic coordinated by Norm/VE3LC and supported technically by Barry Allison / VE3NJK and Michel / VE3EMB. A technical tutorial proceeded the testing and continued through the evening providing answers to various questions. These are some of the testing efforts:

- RF power output measurements of club members radio equipment,

- receiver sensitivity measurements,
- FM deviation measurements,
- measurements on the amount of transmitter harmonic output and
- SWR measurements on portable radio antennas with a special test jig
- Also, for those who purchased the SDR dongle and HF reception Up Converter, help was provided (Michel /VE3EMB) to get it all going on members’ computers.

It was a very informative evening that indicated to me what little I know of the complete workings and verification of radio transmission. I seem to be working like a ‘modern day’ user who assumes if the on/off button and the PPT switch work, all’s well. Not so, it seems, and the evening demonstration on the various radios provided evidence of bad antennas, harmonics and other issues that would not pass Industry Canada (IC) standards.

The following is a pectoral review of Norm/VE3LC, Barry Allison/VE3NJK and Michel/VE3EMB time and equipment contribution to a successful evening.





Photos courtesy of David/VE3ZZU and Michel/VE3EMB

The meeting's quiz is: Name as many of the test equipment in the pictures. Norm's list will be the answer sheet, the prize will be a

"three cheers salute" Send me (dah542@gmail.com) your responses.

Project Control Tower: An update: More information to come on this topic as it unfolds.

Interested people may contact Maurice-André Vigneault (fs882@ncf.ca) or me (dah542@gmail.com).

OVMRC needs a "Secretary" to keep our information and meeting

content more accurate than my memory. So please lend a hand it would be appreciated.

Door prizes won by: - see above item re-Secretary

50/50 Draw won by: David/VE3ZZU \$23.00

Suggestion of the evening: we should do more technical information sessions.

73 Sandy VE3HAZ



Additional Photos

Photos courtesy of: Michel Barbeau, VE3EMB



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 RENEWAL

Hello everyone.

September 1st marks the beginning of the Club fiscal year. Membership fees are due this month. Fees for Full Members who belong to RAC are \$25.00, fees for Full Members who do not belong to RAC are \$35.00 and fees for all unlicensed radio enthusiasts are \$15.00.

The Club membership form was revised during the summer. The current version of that form is available in the back of the Rambler. If you cannot attend the first meeting, please consider mailing your cheque to the Club address as shown below.

Ottawa Valley Mobile Radio Club, Incorporated
P.O. Box 41145
Ottawa, Ontario, K1G 5K9

I look forward to welcoming all returning members and all new members at the membership table prior to our October meeting.

Joe VE3EUS, Membership Chairman

OVMRC Meetings

Location: Canada Aviation and Space Museum: [MAP](#)

11 Aviation Parkway

Ottawa, ON K1K 2X5

General meeting: Start time 19:30 hrs.
Access: via the front entrance. See map.

Meeting Room: Classroom A

Looking forward to seeing you there.

OVMRC Repeaters

If you are interested in learning about or helping with the OVMRC repeaters contact our technical chair-person, Paul Labbé, VE3NJS, (paul.e.labbe@gmail.com). Extra pairs of hands are always welcome.

2014-2015 Meeting Dates	What's Happening Elsewhere!	Rambler Deadlines
<p>December 18 Christmas dinner: Topic: Good cheer and friendship, location Louis Steakhouse, 1682 Cyrville Road;</p> <p>January 15 TBD</p> <p>February 19 Flea Market</p> <p>March 19 TBD</p> <p>April 16 Home Brew</p> <p>May 21 Show & Tell</p> <p>June 19 Annual General Meeting Elections.</p>	<p>Ottawa Amateur Radio Club (OARC) www.oarc.net/blog/</p> <p>Rideau Lakes Amateur Radio Club (RLARC) ve3rlr.dyndns.org/</p> <p>West Carleton Amateur Radio Club www.wcarc.on.ca</p> <p>VE3ORF/3730 Group www.ve3orf.com/</p> <p><i>Check it out; let us know what's going on in your club.</i></p>	<p>Meeting date minus 13 days</p> <p>Jan 02, 2015</p> <p>Feb 06</p> <p>Mar 06</p> <p>Apr 03</p> <p>May 08</p> <p>Jun 05</p> <p>Please submit articles for the Rambler to the editor:</p> <p>Robert Cherry</p> <p>No later than the deadline for the desired edition.</p> <p>January Rambler submission deadline is:</p> <p>Friday, 2nd Jan 2015</p>

OVMRC Radio course Quick Quiz

See how much you remember. Answers next month from Mike/VE3FFK

1 (8-006-004-002) QUIZ 8 P1/2

What are some reasons to use parallel-conductor transmission line?

A It will operate with a high SWR, and it works well when tied down to metal objects

B It has low impedance, and will operate with a high SWR

C It will operate with a high SWR, and has less loss than coaxial cable

D It has a low impedance, and has less loss than coaxial cable

2 (8-007-008-008)

Which of the following is not a scatter mode?

A Meteor scatter

B Ionospheric scatter

C Absorption scatter

D Tropospheric scatter

3 (8-007-002-002)

What type of solar radiation is most responsible for ionization in the outer atmosphere?

A Ultraviolet

B Ionized particles

C Thermal

D Microwave

4 (8-007-003-008)

Skip distance is the:

A maximum distance reached by a signal after one reflection by the ionosphere

. B minimum distance reached by a signal after one reflection by the ionosphere

C maximum distance a signal will travel by both a ground wave and reflected wave

D minimum distance reached by a ground-wave signal

5 (8-007-001-006)

That portion of the radiation which is directly affected by the surface of the Earth is called:

A inverted wave

B ionospheric wave

C tropospheric wave

D ground wave

6 (8-006-001-008)

The characteristic impedance of a parallel wire transmission line does not depend on the:

A dielectric

B centre to centre distance between conductors

C velocity of energy on the line

D radius of the conductors

7 (8-006-007-001)

What does horizontal wave polarization mean?

A The electric lines of force of a radio wave are perpendicular to the Earth's surface

B The magnetic lines of force of a radio wave are parallel to the Earth's surface

C The electric lines of force of a radio wave are parallel to the Earth's surface

D The electric and magnetic lines of force of a radio wave are perpendicular to the Earth's surface

8 (8-006-002-010)

A 75 ohm transmission line could be matched to the 300 ohm feed point of an antenna:

A by using a 4 to 1 trigatron -

B by using a 4 to 1 impedance transformer

C with an extra 250 ohm resistor

D by inserting a diode in one leg of the antenna

9 (6-006-005-009)

An SWR meter measures the degree of match between transmission line and antenna by:

A measuring the conductor temperature

B by using a 4 to 1 impedance transformer

C comparing forward and reflected voltage

D measuring radiated RF energy

10 (6-007-007-011)

What effect is responsible for propagating a VHF signal over 800 km (500 miles)?

A Moon bounce (EME) Earth - Moon - Earth

B Faraday rotation

C Tropospheric ducting

D D-region absorption

11 (8-006-003-008)

Why should you regularly clean and tighten all antenna connectors?

• A To help keep their contact resistance at a minimum

D To keep them from getting stuck in place

C To increase their capacitance

D To keep them looking nice

12 (8-007-004-002)

What causes distant AM broadcast and 160 metre ham band stations not to be heard during daytime hours?

A The ionization of the D region

B The weather below the ionosphere

C The presence of ionized clouds in the E region

D The splitting of the F region

13 (8-007-006-006)

What usually happens to radio waves with frequencies below the maximum usable frequency (MUF) when they are sent into the ionosphere?

A They are changed to a frequency above the MUF

B They are bent back to the Earth

C They pass through the ionosphere

D They are completely absorbed by the ionosphere

14 (6-006-011-009)

What is a good way to get maximum performance from a Vagi antenna?

A Use RG-58 transmission line

B Optimize the lengths and spacing of the elements

C Avoid using towers higher than 9 metres (30 feet) above the ground

D Use a reactance bridge to measure the antenna performance from each direction around the antenna

15(8-006- 0 1 0-011)

What is the main reason why so many VHF base and mobile antennas are $5/8$ of a wavelength?

A It's a convenient length on VHF

B The angle of radiation is low

C It is easy to match the antenna to the transmitter

D The angle of radiation is high giving excellent local coverage

16 (8-003-021-005)

How should you position the antenna of a hand-held transceiver while you are transmitting?

A Away from your head and away from others

B Pointed towards the station you are contacting

C Pointed down to bounce the signal off the ground

D Pointed away from the station you are contacting

Wishing You a





MEMBERSHIP FORM

- The membership year starts in September and runs to the end of August of the following year.
- Regular membership is open to licensed amateurs.
- Associate membership is open to all unlicensed radio enthusiasts.
- Membership includes an e-mail subscription to the Club newsletter, the OVMRC Rambler.

PLEASE PRINT

RENEWAL NEW CHANGE OVMRC NAME TAG (COST \$12.00) No Yes

Call Sign	Surname	Preferred First Name
Street		Apartment Number
City	Province	Postal Code
Home Phone	Work Phone	E-mail Address
Are you a member of Radio Amateurs of Canada (RAC) Yes <input type="checkbox"/> No <input type="checkbox"/> RAC ID: _____ Expiry Date: / /		

Full Membership (Not a Member of RAC) \$35.00/year
 Full Membership (Member of RAC) \$25.00/year
 Associate Membership (Unlicensed) \$15.00/year

Amount Enclosed

\$ _____

Cheque Cash

My Interests are:

<input type="checkbox"/> VHF/UHF Phone	<input type="checkbox"/> VHF/UHF Digital	<input type="checkbox"/> VHF/UHF CW
<input type="checkbox"/> Satellite	<input type="checkbox"/> HF Phone	<input type="checkbox"/> HF CW

Current Occupation or Former Occupation:
Skills: *(Please list them all)*

COMMENTS:

 Signature Date Initials

By initialing this box, I confirm that I consent to receiving e-mail messages from the Club

OVMRC NAME TAG – ORDER DETAILS

First Name:

Call Sign: