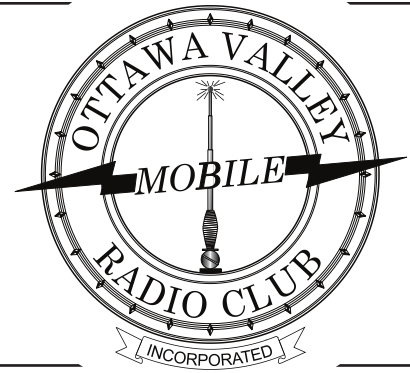


Rambler

Newsletter of the
Ottawa Valley Mobile
Radio Club
Incorporated



November 2018

Edition 56

Page: 1

President's Ramblings

The next of the ten OVMRC meetings for 2018-2019 will take place at the Science and Tech Museum on Wednesday, November 21, so remember to mark your calendar. Also, remember there is free parking at the rear of the building for all OVMRC meetings.

The presentation at the November meeting will be an introduction to Anderson Power Pole connectors for 12 V DC supply for our communication equipment. This will be followed by a "workshop" to complete a giveaway project and test Cricket transceivers for frequency, power output and receiver sensitivity. Norm and myself will be bringing test equipment to perform the testing of the kits. Other radios could also be tested (portables).

The "Haves and Wants" portion of the meeting is starting to take off so I will continue to encourage participation in this activity.

I also want to encourage continued participation in the EMRG Repeater test. It happens once a month on the first Wednesday of the month starting on VE3OCE. It is a short net, but very necessary, witness the recent event in Ottawa. The repeater frequencies and CTCSS Tones are listed in the Rambler. www.ovmrc.on.ca/2018/10/october-2018-rambler/

John, VA3JYK will have more details to announce about our Christmas Dinner at KS on the Keys. Just as an FYI there will also

be some door prizes given away at the meeting.

Requests have already come in for more coax so we are planning to repeat that procurement again since it was so popular last year. This year I plan on offering LMR 400 coax for base station implementations, as well as more LMR 200 coax. More to follow. We of course are open, and hope to get, suggestions anyone may have regarding a meeting topic or project. One suggestion came in for a shortened 80 M antenna to allow for more participation in the Sunday morning "Pot Hole Net".

This being the 60th year anniversary of the net, Ken, VE3EKN, our "net guy" will have more on this net at the meeting.

I am currently investigating, because of the request for a "shortened 80 M antenna" and thanks to Michael, VE3WMB, I think we have found a winner. It looks like we might be able to construct a kit for an 80 through 12 M dipole that is only 46 ft long. Wow! Michael has also used this antenna with great success. More to follow.

So, for the November meeting, expect me to speed through some necessary club business and move on to a short presentation on the how and whys of the Anderson Power Pole connector. Then it will be on to the workshop to finish fabricating the giveaway. Don't forget to bring in your Cricket transceiver for testing and we'll also see if we can squeeze in some portable radio testing as well.

(Continued on page 3)

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Meeting Date

Wednesday, Nov 21st
7:00 P.M.

AGENDA

This is a "Workshop Meeting"

- **Mobile power kit assembly with Power Poles**
- **Bring your Cricket 30 for a "Testathon"**
- **Bring your portable or mobile to test Performance**

Science and Technology Museum
Studio 6

Note:
Free parking at the rear of the building for all OVMRC meetings

OVMRC Executive and Officers 2018-2019

President: Barry Allison, VE3NA

ve3na@rac.ca

Vice-President: Norm Rashleigh, VE3LC

ve3lc@rac.ca

Treasurer: Nicole Boivin, VE3GIQ

ovmrc.treasurer@gmail.com,

Secretary: Ron Smith, VE3LBU

The above four positions are "Directors" and officers in charge of running the Corporate affairs of the Ottawa Valley Mobile Radio Club Inc.

Standing Committee Chairpersons

Amateur Radio Training & Accredited Examiner:

Norm Rashleigh, VE3LC

ve3lc@rac.ca

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Activities & Events Chair:

John McGowan, VA3JYK

john.mcgowan1314@gmail.com

Sponsors

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

- **KENWOOD ELECTRONICS CANADA INC.**,
Mississauga, ON
- **MAPLE LEAF COMMUNICATIONS**
Web site: mapleleafcom.com/
- **METAL PROS**,
"The Small Quantity Metal Shop"
Ottawa, ON
Web site: www.metalpros.com
- **RADIOWORLD TORONTO**
Web site: www.radioworld.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

OVMRC Life Members

Ernie Jury, VE3EJJ

Maurice-André Vigneault, VE3VIG

Ralph Cameron, VE3BBM

Doug Carswell, VE3ATY

Doreen Morgan, VE3CGO

OVMRC Repeater

VE3TWO

147.300 Mhz (+) 100 Hz tone
FM & Yaesu System Fusion Digital
Operation

OVMRC Call Signs

VE3JW

VE3RAM

The Rambler is the official newsletter of the Ottawa Valley Mobile Radio Club Incorporated and is published 10 times a year (monthly, except for July and August). 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@ncf.ca

OVMRC Affiliations



(Continued from page 1)

Whew! Another action-packed meeting. I have also purchased extra power pole connectors for sale. The club is offering 15 Amp Power Pole connectors for \$1.00 each to club members and \$2.00 each for non-club members. If you want the connector installed on a power cable at the meeting, bring your cable and crimp the connector on at the meeting. The tools will be available at the meeting.

Finally, don't forget to check out and join the OVMRC group set up by Michael on "groups.io". I made the move and found there is already informative information posted.

That's about it for now. Hope to see you at the November meeting.

73

Barry, VE3NA

IO-Groups / OVMRC message board and discussion group.

As mentioned at the October meeting, Michael VE3WMB has set up an IO-Groups for the Club.

To participate, it will be necessary create an account and register on the IO-Groups web site. URL <https://groups.io/register> Once registered, search for groups title "OVMRC". Simple as that. There, you can set up topics of discussion and upload for and download files from other members of the group.



Notice of Christmas Dinner

John, VA3JYK has made arrangements for this year's Christmas Dinner at KS on the Keys Restaurant, the same place as last year. The dinner is schedule for Monday evening December 17th. For those wanting to attend, a sign up sheet will be at the November meeting.

Michael VE3WMB makes a plot of Cricket 30 QRP transceiver "Audio" Selectivity

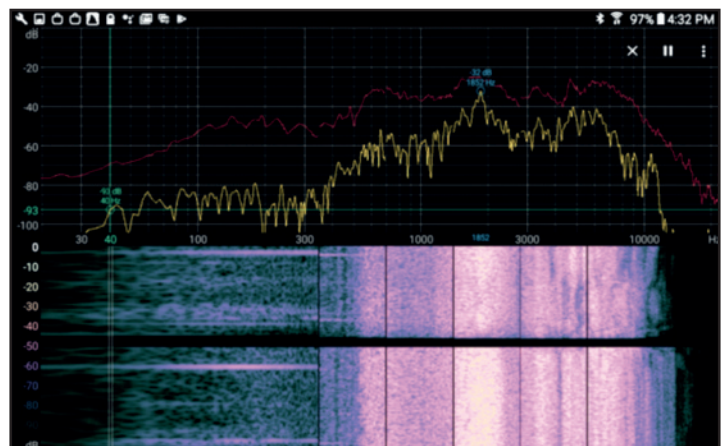
He writes in an email:

See the attached audio spectrum plot for the Cricket 30m.

Not a lab-grade measurement by any means but it gives you an idea of what the audio spectrum looks like (i.e. broad as a barn).

I got this measurement by connecting a broadband RF noise source to the antenna jack of the Cricket and hooked a decent quality amplified speaker to the rig. The spectrum was captured using the internal mic of my Android tablet which was sitting within a foot or two of the speaker (so there is also likely some ambient background noise captured as well).

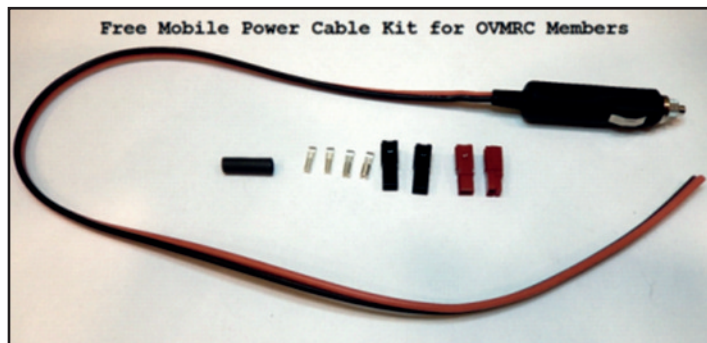
The application is called Spectran and the yellow plot represents the instantaneous value and red is the peak for the measurement period.



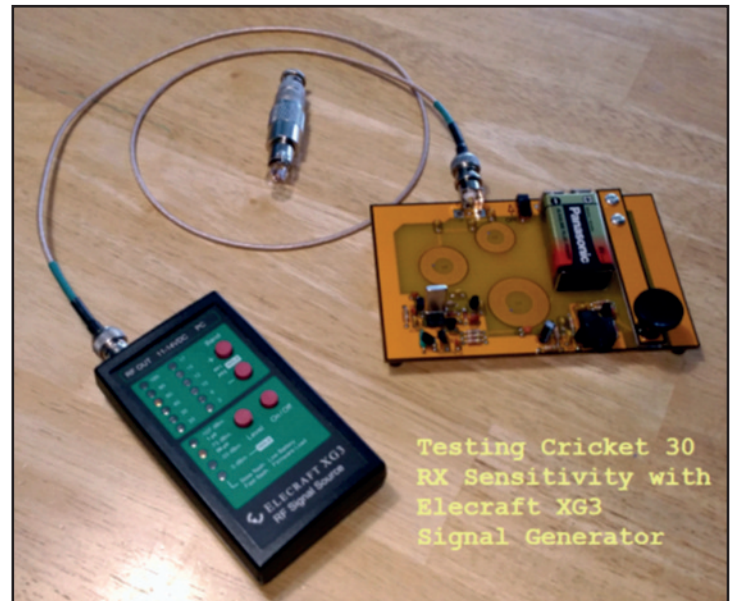
More about the November meeting:

The November meeting will be a “Workshop” with a number of activities:

1. The Club will be distributing to interested members, a mobile power cable kit to power up your mobile radio as a temporary installation from your automobile “cigarette lighter” 12 volt receptacle. This will be free to paid up members who have a need for such a cable and plug. It will be necessary to install the “Anderson Power Pole” connectors at the meeting as an exercise. Tools and the club’s Power Pole crimper will be available at the meeting with instruction on how to use it.
2. Additional Power Poles will be available to Club members for \$1 each set; bring any additional power cables if you want to install Power Pole connectors.



3. For those that purchased and assembled their Cricket 30 QRP transceiver, we will have available the necessary equipment at the meeting to test transmitter power out, receiver sensitivity and harmonic output from the set. Help may also be available to folks having difficulty with assembly.
4. We intend as well to have equipment at the meeting to test VHF and UHF portable and mobile radios for transmitter RF power, harmonic output, receiver sensitivity, FM modulation, as well as frequency accuracy and CTCSS tone functionality.
5. We will also have available a laptop computer with Chirp for programming many types of VHF/UHF portable and mobile radios, however, please bring your programming cable to the meeting if you want to use this service.



Informal Amateur Radio Restaurant Gatherings (All are welcome)

- **QCWA Chapter 70** breakfast gathering every **Tuesday** morning at 7:30 to 10 AM, Summerhays Grill, 1972 Baseline Rd., Nepean
- **Orleans Coffee** gathering every **Friday** morning at 9 AM, McDonalds, 2643 St. Joseph Blvd, Orleans
- **QRP Group Dinner** meeting, **2nd Wednesday** every month, 5 PM, Newport Restaurant, 322 Churchill Ave N., Ottawa
- **Phoenix Net monthly Breakfast** gathering, usually the **second Saturday** every month at 9 AM, T-Basil Restaurant, 2440 St Joseph Blvd, Orleans. (get on Pete VE3XEM’s mailing list for monthly reminder VE3XEM@RAC.CA)

Contest Calendar

For all contest information goto:

<http://www.hornucopia.com/contestcal/>

Nov 24-25 — CQ Worldwide DX Contest, CW,
<http://www.cqww.com/rules.htm>

Nov 30 – Dec 2, ARRL 160-Meter Contest,
<http://www.arrl.org/160-meter>

Dec 8 – 9 — ARRL 10-Meter Contest,
<http://www.arrl.org/10-meter>

Dec 29, RAC Winter Contest,
<https://wp.rac.ca/rac-canada-winter-contest-rules/>

Dec 29 – 30 — Stew Perry Top Band Contest,
<https://www.kkn.net/stew/>

Cross Canada Weekly C4FM Net no longer on VE3TWO

Denis, VE3BF facilitated connection of VE3TWO to the Cross Canada C4FM weekly Net conducted on Room 28329 on the Yaesu Wires-X network. Denis has discontinued this service on VE3TWO in favour of hosting the Net through a new System Fusion repeater installed at his home QTH. For VE3TWO to again be connected to network, we will need another volunteer to make and control this connection every Wednesday for this net. **If interested, please contact Norm, ve3lc@rac.ca** .

Emergency Measures Radio Group: (EMRG)

Monthly Repeater Tests are conducted by Dave VE3KMV on the first Wednesday of each month at 8 pm on VE3OCE 146.880 MHz – (136.5 Hz tone).

From initial contact on VE3OCE, you'll be asked to test VE3EMV/East 146.985 MHz – (100 Hz@ tone), VE3EMV/West 145.210 MHz – (136.5 Hz tone), VE3OFS 146.670 MHz – (136.5 Hz tone) and VE3OCE 443.8000 MHz + (136.5 Hz tone). It is advisable that all the EMRG frequencies be programmed into your radio. All check ins are welcome. <http://www.emrg.ca/repeaters.htm>

OVMRC Repeater VE3TWO :

147.300 MHz +600 kHz, 100 Hz Tone
and Yaesu C4FM Digital Voice

VE3TWO Scheduled Nets:

- **Thursday Evenings, 8 PM**, Club Net on FM conducted by Ken, VE3EKN.
- **Sunday Evenings, 8 PM**, Ottawa C4FM Digital Voice Round Table Net.

Other Local 2 Metre Repeater & Simplex Nets: (all check-ins welcome)

- **Rubber Boot Net**, VE3MPC 147.150 +, work day mornings at 7:30 AM conducted by Mike, VA3TJP
- **Phoenix Net**, VE3MPC 147.150 + (now with 100 Hz tone), Tuesday evenings at 8 PM conducted by Pete, VE3XEM
- **QCWA Chapter 70 Net**, VE3MPC 147.150 + (now with 100 Hz tone), Monday evening at 7:30 PM conducted by John, VE3ZOV
- **Capital City FM Net**, VE2CRA 146.940 Mhz, – (100 Hz tone), Monday evenings at 8 PM
- **Champlain Mini Net**, VE3STP 147.060 – (114.8 Hz tone), every evening at 6:45 PM
- **Upper Frequency Net**, Simplex 144.250 MHz using USB, Tuesdays evenings at 9 PM conducted by Glenn VE3XRA. Following check in on 2 m you can check your radios on 6 m at 50.150 MHz and 70 cm on 432.150 MHz as well using USB. All check ins are welcome.

OVMRC HF Nets

- **Pot Hole SSB Net**, 3760 kHz, every Sunday morning at 10 AM conducted by Ernie, VE3EJJ, or Glenn VE3XRA.
- **Pot Lid Slow Speed CW Net**, 3620 kHz, every Sunday morning at 11 AM conducted by Roger, VE3XRR.

Lighting Equipment continues to be sold in Canada without ICES 005 Certification

For those not aware, lighting devices and equipment sold in Canada require testing followed by certification by our radio spectrum regulator “Innovation, Science and Economic Development Canada” (ISED). The standard for this is “Interference Causing Equipment Standard” ICES – 005 entitled “Lighting Equipment”. The standard came into force December 2016.

See:

<https://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11152.html#s4.1>

It seems, however, there are still a significant number of products being marketed that are not tested and do not show labelling indicating ICES 005 Class B (residential) compliance. Radio amateurs should be very concerned about this as some non compliant lighting can cause significant interference to radio reception.

I recently bought two different products from Lowes. Both were imported from China under the “Trenz” lighting brand (a division of Liteline of Richmond Hill, ON). When making an inquiry with their customer service by email, they responded indicating that the products had not been certified under standard ICES-005 but were nevertheless compliant!

I fashioned a test connection to investigate the potential of “conducted” interference along the power line when using these products. I used an ICES-005 certified “Noma” LED bulb as a

reference base line. Since my testing did not follow the specified procedure specified in ICES 005, I make no determination whether the products would or would not pass a Canadian ICES testing methodology. Our test results are given as a relative comparison only.

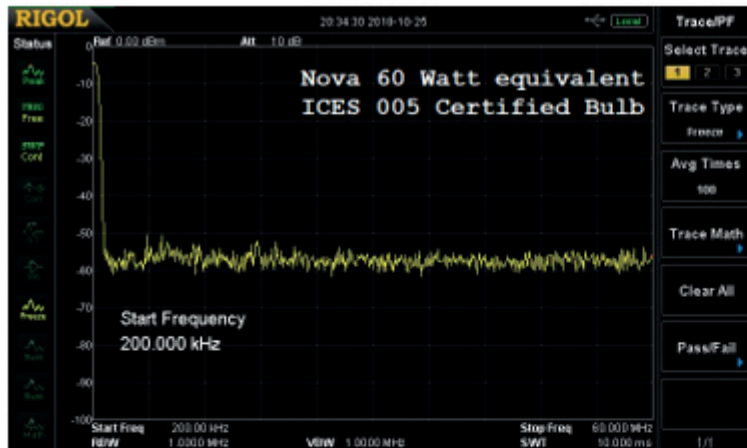
The test results of the two non-certified “Trenz” products were compared with a LED bulb that indicated ICES 005 certification on the package label. The certified bulb showed no detectable conducted along the AC power feed conductors. However, one of the “Trenz” products in particular showed considerable “common mode” wide band noise conducted along the AC wire that may radiate and cause noise to HF reception. Refer to the my spectrum analyser screen captures and be the judge.

It is recommended that radio amateurs avoid using any lighting equipment in their residences that is not indicated as ICES 005 part B compliant. Also, if you experience any interference in your home that you can identify originating from LED lighting products, please contact me and indicate the make and model of product involved.

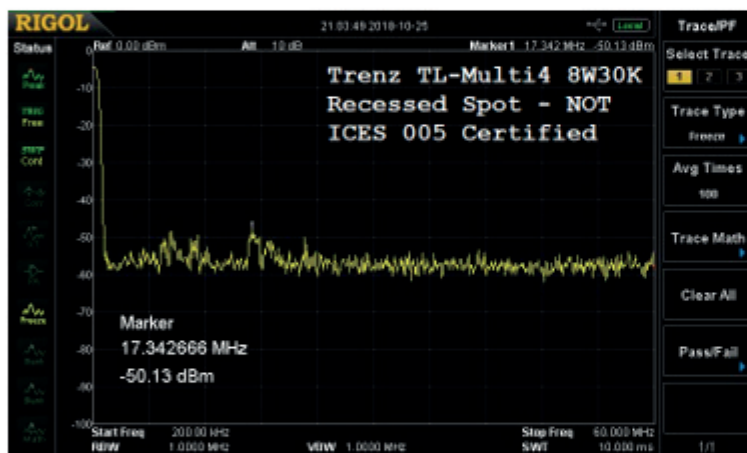
Norm ve3lc@rac.ca



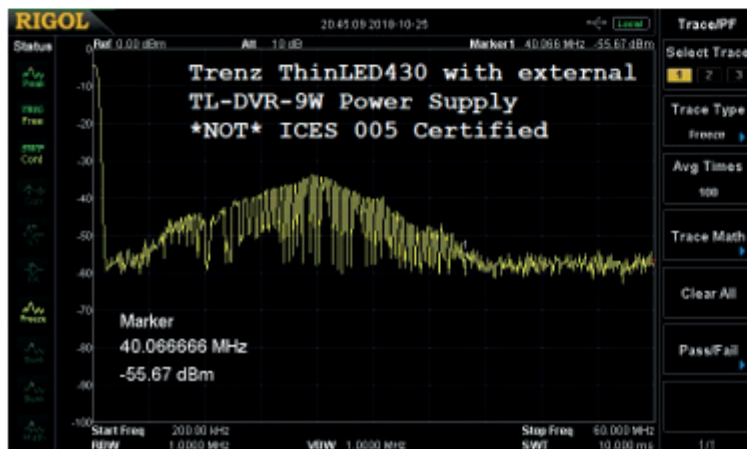
Screen captures of LED lighting products under test Spectrum Analyzer set to sweep 200 kHz to 60 MHz



This screen capture shows a Certified Bulb with the brand name "Noma". Not much interference is conducted along power cord.



This "Trenez" product is ceiling surface spot light that mounts directly into an octagon box. The power supply is integrated into the shell of light. A bit of noise seems to be produced, especially around 17 MHz.



This is another "Trenez" product that shows considerable conducted noise on AC line. It comes with a separate direct wired power supply which produces the 39 volts DC to power the LED lighting device. The upper frequency of the noise is about 40 MHz. This product may indeed not be certifiable under the ICES -005 standard.

Meeting Minutes

Date / Time: Wednesday,
October 17, 2018; 19:30

Location: Canada Science and
Technology Museum

1. Call to order:

The President, Barry Allison, VE3NA called the meeting to order at 19:25. There were 40 Members and Associate Members in attendance, including 2 guests.

2. Approval of minutes from previous meeting:

MOTION: Moved by Steve Middleton, VE3RUU and seconded by Richard Heberle, VE7PSE that the minutes of the previous meeting held Wednesday, September 19, 2018 be approved.

VOTE: All in favour.

CARRIED.

3. Greetings: Guests and visiting amateurs:

Paul Burggraaf VE3PRB

François Daigneault VA2AAY

4. Announcements, Projects and Events:

Agenda and Meeting Content:

Barry Allison, VE3NA opened the agenda for the meeting.

A) HAVES– Barry VE3NA has provided 2 sets of free coax cable this evening. Michael, VE3WMB has free foam headset mic covers this evening. Alan, VE3KAE has a free Icom HT (non-working) if someone would like to tackle a repair project.

B) WANTS – Alan VE3KAE is looking for a battery case for an IC

24 HT, holding 6 AA batteries if anyone can help.

C) NOTABLE CONTACTS -

Alan, VE3KAE, on FT-8, 20 metres, using WSJT-X made a contact with special event station KG4 in Guantanamo Bay, Cuba. Contact is there between October 9 and 23.

D) Other Announcements -

i. Michael Babineau, VE3WMB has created an email reflector, “Groups.io” to encourage discussion for members of the OVMRC. Go to Google.com and search “Groups.io/OVMRC” to subscribe. Michael has also created a modification to the Cricket 30 to allow the use of an external key. Instruction on the modification will be posted to “Groups.io”

ii. Norm Rashleigh, VE3LC has 5 more cricket kits available. Contact Norm if you are interested. Norm also congratulated our newest member, Ann King, VA3YYF, for scoring 100% on her Canadian Amateur Basic with Honours exam. Norm provided a short visual presentation on his VHF-UHF “Jumbo Hot Spot” project. The device allows contact with many talk-groups using multiple digital formats such as C4FM, D-Star, P25, and DMR among others no matter what rig and format you are running. Check the October Rambler for further details and how to order yours.

iii. Harry Splett, VE3HHS reminded members about the Snowbird HF net, weekdays at 0830, Monday through Friday on 20 metres at 14.160. Please check in and communicate.

iv. Tim Bailey, VE3TXB will be handing out stainless steel washers for the club J-Pole. Members needing same may see Tim.

v. Ernie Jury, VE3EJJ, presented his recent project, a home-made CW straight key constructed from brass. The key is mounted on clear plastic.

vi. Hooman Jazebizadeh, VE3HJZ provided a brief update on the NOAA satellite project. If someone has an analyzer for 137.5 Mhz and below, and could loan it, please contact Hooman.

vii. Barry Allison, VE3NA outlined how to apply for a call sign Ontario Licence plate set from Service Ontario. The process could take a few weeks, but costs only \$31.30 for the first set.

E) Event Activities for the Year – There is a link in the Rambler for upcoming contests and event activities. Please log in and review. Barry Allison VE3NA reminded members of the Emergency Repeater Frequency tests on the 1st Wednesday of every month on VE3OCE. The necessary CTCSS Tones are also available in the Rambler.

After tonight, there are 8 remaining get togethers which will include the Christmas Dinner. Special meeting activities to come will include Check Your Rig, Mini Flea Market, Transmitter Hunt, Field Day organization session, promoting haves and wants, Lighthouse on the Air, Satellite contacts, and ARISS. The President also asked members for meeting and guest speaker ideas. Contact Barry Allison at VE3NA@rac.ca.

The NOVEMBER meeting will be a workshop “maker” session with a free giveaway. The project will allow members attending to build their own 12V mobile connector that can be run off your vehicle’s power outlet. The project uses power pole connectors with a length of DC power cable and a fused plug. Club crimper tools will be provided but Members are encouraged to bring their own tools if they have them.

5. Feature Slide Presentation

Norm Rashleigh, VE3LC, presented a technical review of Electrical Vehicles and their operating characteristics. The presentation included several slides of his vehicle, the Hyundai Ioniq EV as well as slides and comments from Ron Smith, VE3LBU on the Nissan Leaf EV and from Nicole Boivin, VE3GIQ on the Toyota Prius Prime (Plug-In Hybrid).

6. Club Executive Reports:

Budget Presentation 2018-2019. Nicole Boivin, VE3GIQ, presented a brief high-level outline of the Budget. There is a modest surplus projected. To view the Budget, follow this link to Page 3 of the October Rambler.

<https://www.ovmrc.on.ca/Rambler/Archive/Ram2018-10.pdf>

Following questions from members, a vote was taken.

MOTION: To approve the 2018-2019 OVMRC Budget.

Moved by Bill Henderson, VA3HWA. Seconded by Douglas King, VE3YDK.

VOTE: All in favour.

CARRIED.

There were no other Executive reports available.

7. Upcoming contests:

For detailed information on upcoming contests, see the WA7BNM Contest Calendar at

<http://www.hornucopia.com/contestcal>

8. Prizes and Draws:

The 50/50 draw for \$32.00 was won by Frank Harris, VA3ORL.

9. Next meeting:

Wednesday November 21, 2018, the Meeting of Members of the OVMRC will be held at 7:30 at the Canada Science and Technology Museum, 1867 St Laurent Blvd, Ottawa, ON K1G 5A3.

10. Adjournment:

MOTION: Moved by Marcel Lemay, VE3FNG. that the meeting be adjourned.

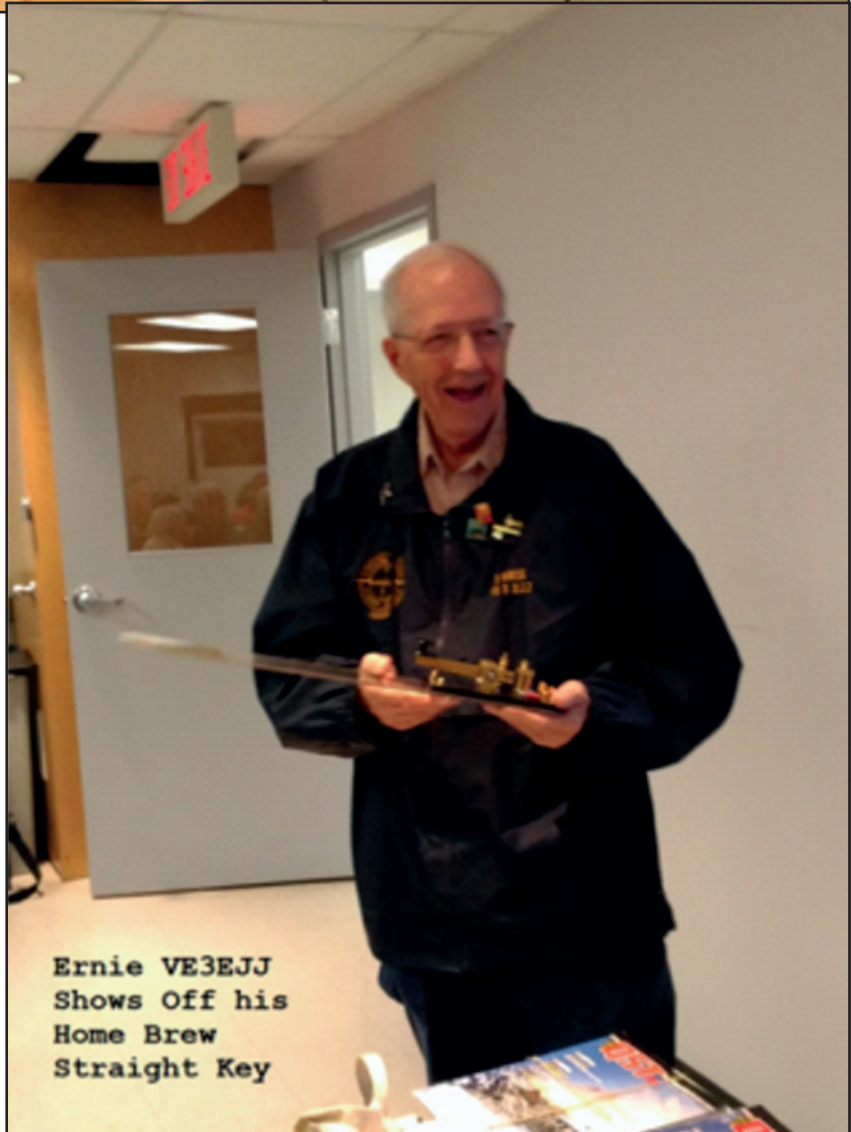
The meeting was adjourned at 21:57.

*Minutes recorded by
Ron Smith, VE3LBU
OVMRC Secretary*



Ron VE3LBU tells about his
Nissan Leaf Electric Car

***Pictures
from the
October
Meeting***



Ernie VE3EJJ
Shows Off his
Home Brew
Straight Key

OVMRC Net Activity, Check-ins during the last month

Prepared by: Ken Evans, VE3EKN

OVMRC 2 Metre Net, VE3TWO 147.300+ 100 Hz tone, Thursdays 8 pm local

September 27	October 4	October 11	October 18	October 25
VE3RUU	VE3RUU	VE3TSC	VE3RUU	VE3RUU
VA3ZTF	VE3KAE	VE3NA	VA3ZTF	VE3NA
VE3NA	VE3LC	VE3LC	VE3BF	VA3ZTF
VE3KTN	VE3RXH	VA3ORL	VE3LC	VE3LC
VE3KAE	VA2EEK	VE3KTN	VE3LBU	VE3KAE
VE3LBU	VE3KTN	VE3KAE	VE3KTN	VE3KTN
VA2EEK	VA3RLA	VA3RLA	VA3RLA	VA3ORL
VA3RLA	VE3VIG	VE3VIG	VA2EEK	VA3ZZW
VA3ORL	VE3NPO	VE3ZRG	VE3TXB	VE3VIG
VE3GIQ	VE3LBU	VE3RXH	VE3HHS	VE3GIQ
VE3SGG	VA3JYK	VE3LBU	VE3RXH	VE3TXB
VE2BJZ	VE3NA	VE3ZZU	VE3VIG	VA2EEK
VE3RXH	VA3BGO	VE3GIQ	VA3YYF	VA3RLA
VA3HWA	VE3HVB	VA3LJS	VE3GIQ	VE3DHE
VE3JYK	VA3ORL	VE3TXB	VE3ZZU	VE2BJZ
VA3BFW	VE3SGG	VE3XQQ	VE3NA	VE1AS/P
VE3EKN	VE3GIQ	VE3EKN	VE3KAE	VE3EKN
			VE2PCQ	
			VE3PIS	
			VE3EKN	

OVMRC POT HOLE NET – Check-ins last month

3760 kHz SSB Sunday mornings at 10 am local

September 30	October 7	October 14	October 21	October 28
VA3ZTF	VE3BF/P	VE3BAE	VA3ZTF	VE3EKN
VE3LC	VE3BAE	VE3EJJ	VE3NA	VE3XRA
VE3NA	VE3NPO	VE3NA	VE3NPO	VE3LC
VE3KTN	VE3EJJ	VE3LC	VE3BF	VE3NA
VE3XRA	VE3KTN	VE3BF	VA3QV	VE3KTN
VA3BGO	VE3LC	VE3EKN	VA3BGO	VA3BGO
VE3FFK	VE3NA	VA3BGO	VA2HOG	K1TTT
VE3EJJ	VE3FFK	VE3NPO	VE3RIP	VE3NPO
VE3EKN	VE2WAB	VE2HOG	VE3XRA	VE3EJJ
	VA2UQ	VE3XRA		
	VE3EKN			

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	Preferred 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 No

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

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