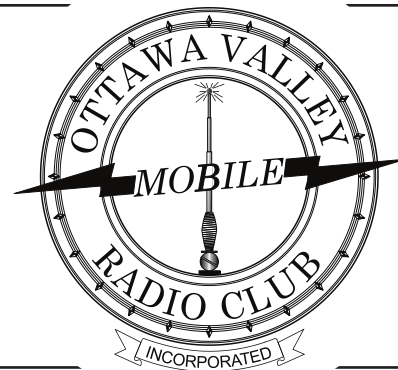


Rambler

Newsletter of the
Ottawa Valley Mobile
Radio Club
Incorporated



November 2019

Edition 57

Page: 1

President's Ramblings

Lessons learned:

Club member input is always appreciated! Input from you is the only way we can continue to provide interesting monthly meetings to all. For instance, the November meeting will start at 7:15 PM as opposed to 7:30 PM at your request. If that works we may move the start to 7:00 PM as was discussed.... A slow progression to an earlier start. Works for me!

Last month's agenda was perhaps too full. Several members approached me to say so and I appreciate that. With only 9 meetings per year plus the Christmas Dinner meeting, we try to provide as much info as possible but perhaps we have gone overboard and will correct that. Please keep providing input so we can prepare and present the best possible meeting experience each month. Also, the Museum security staff has advised us that we are to be out by 10:00 PM, not just wrapping up! Help putting chairs and tables away is greatly appreciated.

So... for the November meeting we'll strive for a single "main" presentation along with the usual club business I strive to keep to a minimum, because there are just

some things we have to discuss as a club. Our speaker will be Richard Ferch, VE3KI; he will be talking about the WSJT-X software and in particular, FT-8 and FT-4 modes of operation and contest operation. Of course, the monthly door prize and the 50/50 draw will remain as a main stay on the agenda.

Updates will be provided by Michael, VE3WMB for the Balloon project and Roger, VE3EGY for the transmitter hunt initiative. It was impressive to see that several club members were willing to invest in equipment required for the transmitter hunt project piloted by Roger.

Last month I stated that I hoped to have some kit availability for the November meeting but unfortunately I had a serious tumble in the basement and was laid up for over a week and things are delayed. I'm still procuring parts for both the 6 M dipole and lightening arrestor kit and hope to have things ready sooner than later. Sorry about that...

The coax project is ongoing and as a reminder here are the costs to paid up members:

- LMR 400 Cost \$1.35 per foot.
- LMR 195 Cost \$0.80 per foot.
- Connecters: PL259 (male uhf type) \$ 2.00 ea including heat shrink tubing for environmental sealing.

(Continued on page 4)

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Meeting Date

Wednesday
November 20th
6:45 P.M.

for Meet & Greet

7:15 PM

for Meeting Start

Science and Technology Museum
Studio 6

AGENDA

- President' Message and Welcome;
- Feature presentation by Richard Ferch, VE3KI "Operating FT-8 using WSJT-X"

OVMRC Executive and Officers 2019-2020

President:

Barry Allison, VE3NA
ve3na@rac.ca

Vice-President:

Norm Rashleigh, VE3LC
ve3lc@rac.ca

Treasurer & Membership Records:

Nicole Boivin, VE3GIQ
nlboivin@sympatico.ca

Corporate Secretary:

Ron Smith, VE3LBU
rjs3.smith@gmail.com

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

Standing Committees

Club Projects & Bulk Orders:

Barry Alison, VE3NA
ve3na@rac.ca

Radio Course &

Accredited Examiner:

Norm Rashleigh, VE3LC
ve3lc@rac.ca

Membership Services & Meeting Reception:

Tom Mercer, VE3LJS
tsmercer63@gmail.com
John McGowan, VA3JYK
john.mcgowan1314@gmail.com

Nets & Radio Operations:

Hugo Kneve, VE3KTN
ve3ktn@rac.ca
Rob Haddow, VE3RXH
rjhaddow@yahoo.ca
Nicole Boivin, VE3GIQ
nlboivin@sympatico.ca

Rambler Newsletter Production:

Norm Rashleigh, VE3LC
ve3lc@rac.ca
Robert Cherry, VA3AOD
cw527@ncf.ca
Bill Hall, VA3WMH
bmhall@rogers.com

Club Web Site & Social Media:

Darin Cowan, VE3OIJ
ve3oij@amsat.org

VE3TWO Repeater Keeper:

Norm Rashleigh, VE3LC
ve3lc@rac.ca

Special Events:

Roger Egan, VA3EGY
va3egy@gmail.com
John McGowan, VA3JYK
john.mcgowan1314@gmail.com

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 and notices to:

Norm at ve3lc@rac.ca

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

OVMRC Affiliations



The Wednesday evening Cross Canada Weekly C4FM is again hosted on VE3TWO

OVMRC members can again check into the Wednesday evening Cross Canada C4FM net on Club repeater VE3TWO 147.300 (+ offset) thanks to a remote Wires X connection provided by Steve VA3MPS. Steve will be engaging his node station onto the repeater Wednesday Evenings at 9:00 PM. The Net can also be accessed in the west-end of town using the Fusion repeater VE3DRE on 146.805 (- offset) owned and operated by Denis VE3BF who is the Net Control Station. All check-ins are welcome using the Yaesu C4FM digital voice mode.

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 – (123.0 Hz tone), VE3OFS 146.670 MHz – (136.5 Hz tone), VE3OCE 443.8000 MHz + 5 (136.5 Hz tone) and VE3EMU 444.9500 + 5 (136.5 Hz tone). It is advisable that all the EMRG frequencies be programmed into your radio. All check ins are welcome.

See: <http://www.emrg.ca/repeaters.htm>

Informal Amateur Radio Restaurant Gatherings (All are welcome)

- **QCWA Chapter 70** breakfast gathering every **Tuesday** morning at 7:30 to 10:00 AM, Summerhays Grill, 1972 Baseline Rd., Nepean
- **Orleans Coffee gathering** every **Friday** morning at 9:00 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)

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 Hugo, VE3KTN and Rob, VE3RXH.
- **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 ++, (100 Hz tone) mornings at 7:30 AM conducted by Mike, VA3TJP
- **Phoenix Net**, VE3MPC 147.150 Mhz +, (100 Hz tone), Tuesday evenings at 8:00 PM conducted by Pete, VE3XEM
- **QCWA Chapter 70 Net**, VE3MPC 147.150 MHz +(100 Hz tone), Monday evenings at 7:30 PM conducted by John, VE3ZOV
- **Capital City FM Net**, VE2CRA 146.940 MHz -, (100 Hz tone), Monday evenings at 8:00 PM.
- **Champlain Mini Net**, VE3STP 147.060 MHz -, (114.8 Hz tone), every evening at 6:45 PM.
- **Upper Frequency Net**, Simplex 144.250 MHz using USB, Tuesdays evenings at 9:00 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 10:00 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.

(Continued from page 1) • BNC connectors are also available for the LMR 195 cable at the same \$2.00 cost.

All prices are tax included.

Requests have come in for some other coaxial cable and I am looking into that but have no news to report for now (mainly because of my lay up from the fall in the basement)

The club also has about 30-40 sets of Anderson Power Pole connectors available for a cost of \$1.00 per set (red + black + 2 pins).

Anyone interested in trying your hand at installing your own connectors, remember to contact Pete VE3XEM. He retains the club tool kit and we now have the proper crimp tools to install connectors on both the LMR 400 and LMR 195 coax cable and the power pole connectors.

That's about it for now. I hope to see everyone at the November meeting, Wednesday, November 20, 7:15 PM, at the Science and Tech Museum.

73,
Barry, VE3NA

NanoVNA

There is a new product on the market that is creating a lot of buzz in the radio amateur community as well just plain folks interested in electronics and RF hacking. The product is called the "NanoVNA", VNA meaning "Vector Network Analyzer" and "nano" meaning 10^{-9} . Well maybe not 10^{-9} in the context of the NanoVNA, but at least "nano" meaning really small. The NanoVNA fits in your shirt pocket! Hitherto, VNA

Door Prize Winner at the October Meeting

Jeffery Arcand, VA3PEW was the winner of the September meeting grand door prize of a tool kit did the honours of drawing the ticket of Douglas King, VE3JDK and presenting him the October grand prize of a Digital multimeter.

OVMRC members attending the November meeting will have chance to win another grand door prize.

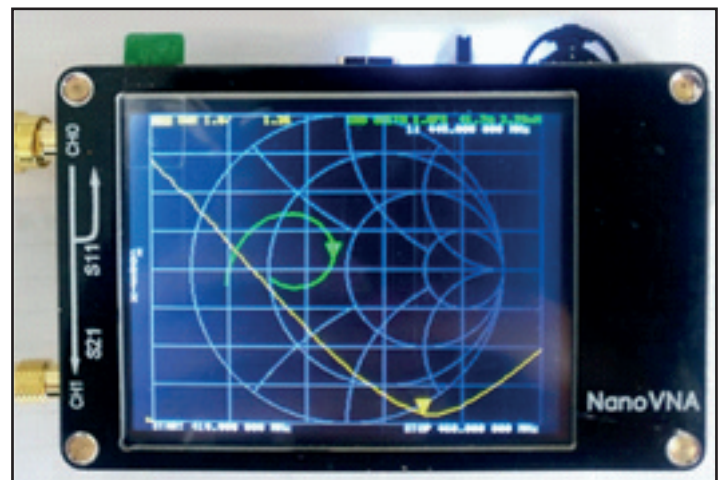


OVMRC membership has its Rewards

The door prize for the November meeting is a 200 Watt 12 volt DC to 120 Volt 60 Hz AC power inverter. To be eligible to win the door prize, you must be a paid up member of the Club. OVMRC membership is due at the beginning of the Club season in September. If you are unsure about your membership status, check with Nicole, VE3GIQ by email or at the November meeting and she will let you know.

instruments have been large expensive lab equipment costing many thousand dollars used by RF design engineers to measure the complex nature of AC (especially at high and microwave radio frequencies) with respect to amplitude and

phase. The VNA essentially has a



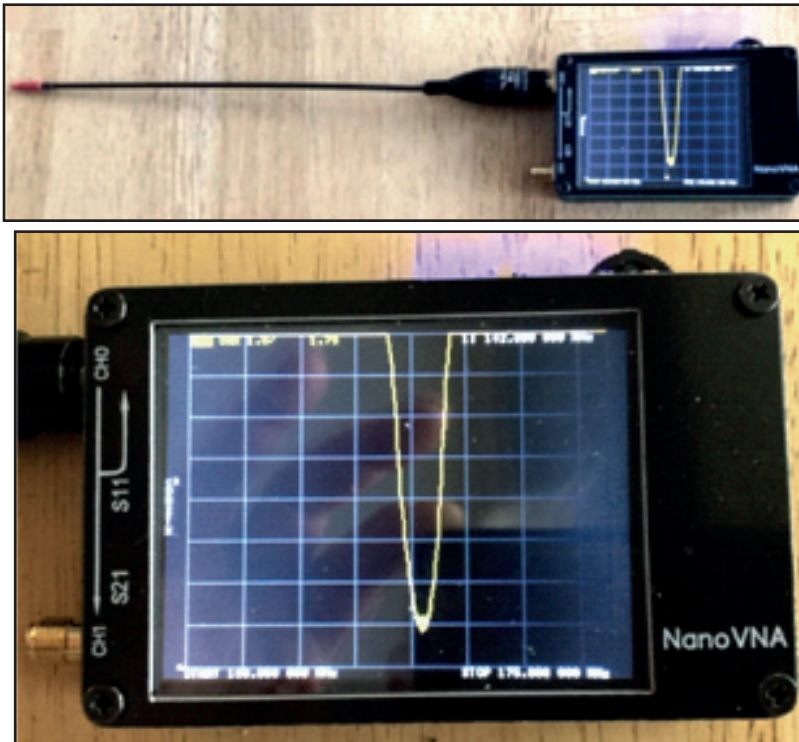
variable RF oscillator, a splitter network, directional couplers and one or more receivers and at least two ports. One port will suffice to measure such things as return loss (SWR) and impedance. To measure a “device under test” or DUT with respect to its influence on phase and amplitude, then the DUT has to be placed between the two ports of the VNA.

- SWR sweeps of antennas;
- Measurement of Impedance;
- Measurements of inductive and capacitive reactance;
- Measurement of devices to show their capacitance and/or inductance;
- Measurement of the resonant frequency of a tuned circuit;
- RF filter plots and

- Amplitude Magnitude as a log or linear scale;
- VSWR vs Frequency;
- Phase;
- Impedance;
- S11 and S21 parameters; and
- Quality Factor.

The boon in interest of the NanoVNA is because of its low cost; it is available from many Chinese vendors by email order through Amazon or EBay for as little as \$50 Canadian shipped to your mailbox. The instrument comes complete with two SMA connection cables and 3 SMA calibration terminations, one open, one shorted and one 50 ohms for calibration purposes. Also included is a double female SMA feed-through adapter and a USB cable for battery charging and connection to your PC.

This little VNA operates by itself as an in-the-field instrument using its own built-in rechargeable LiPo battery. It can be operated manually with your finger (or more ideally a fine point screen stylus) to select operating menus and display formats on the 2.8 inch colour touch-screen. For more detailed display resolution, the instrument can be connected to your computer through a USB cable using software that is readily available on-line. In fact, there is a world-wide user group community for the NanoVNA on “Groups.IO” as well as operating software development and posting page at: <https://github.com/mihtjel/nanovna-saver>. The full operation and



Nano VNA doing an SWR sweep on VHF Portable Radio Antenna

The little NanoVNA instrument provides a frequency range of up to 300 MHz with full dynamic amplitude resolution and up to 900 MHz based from the second and third harmonics of the Si5153 oscillator chip but with reduced dynamic amplitude resolution. The radio amateur should find the following applications of the instrument useful:

- characteristics;
- Being an adjustable CW fixed frequency RF source; and
- Working as a “Time Domain Reflectometer” for cable length measurements.

The display formats of the NanoVNA include:

- A Smith chart;
- Return Loss;

control of this instrument is open source and supported by a world-wide development community that has taken a particular interest in this unique hardware.

There are several “How to Use” YouTube videos on the “net” covering the NanoVNA. One is an hour long video that explains the use and operation of a VNA instrument in general and in particular, the use and many applications of a NanoVNA.

View at:

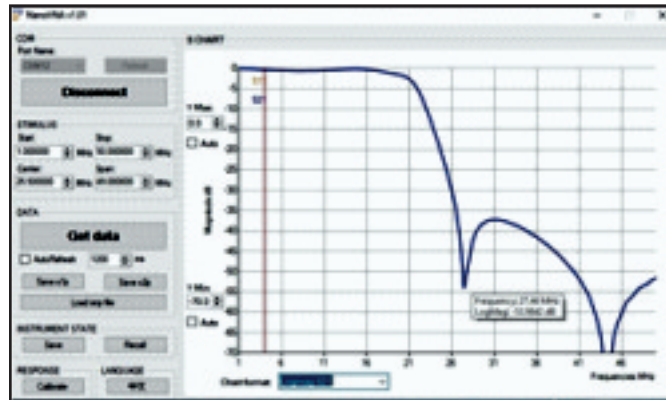
<https://www.youtube.com/watch?v=mKi6s3WvBAM>

I’ve included some pictures and screen shots of my limited experience with the NanoVNA borrowed from Jim VA3DEF (alumnus from the OVMRC course of 2018); I have one on order from China and awaiting delivery.

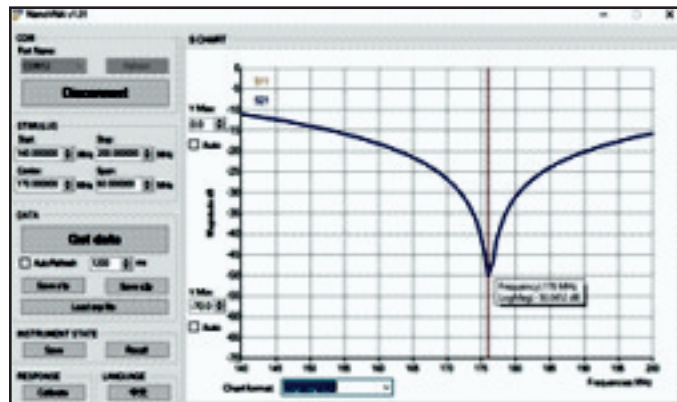
I will strive to have a NanoVNA at the November meeting to show and tell at the break.

Norm VE3LC

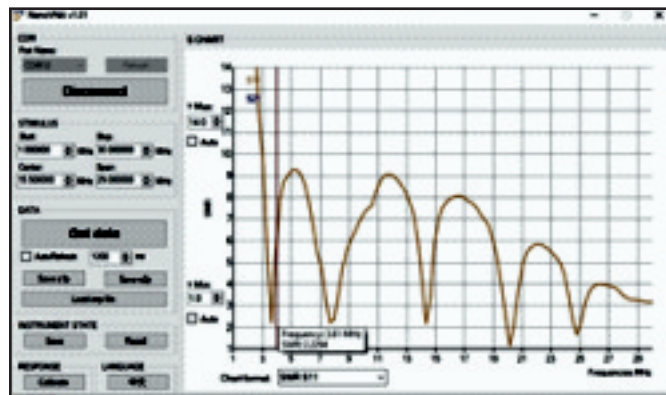
The following traces were screen captures on my Laptop using NanoVNA v1.01 software connected to the NanoVNA instrument using a USB cable.



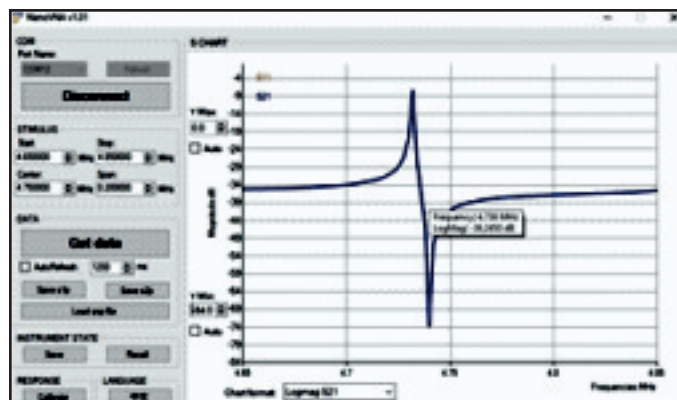
Sweep of home brew LP filter



Sweep of LC parallel resonant crt in series with VNA ports



SWR sweep of G5RV antenna



Frequency vs Phase sweep of XTAL

Did you work the Pitcairn Island Dx-Pedition – VP6R?

For the HF Dx'ers in the Club, there was a good opportunity to work the DxPedition to Pitcairn Island that operated from October 18th to November 1st. Using the call sign VP6R, the DxPedition team of 13 seasoned radio amateurs from the USA, Spain, Sweden, Tajikistan and Japan were active on CW, SSB, and FT-8 on most HF bands and concluded their operations with over 82,000 QSOs.

I managed to work the island on 15, 17, and 20 metre CW, and 15 and 20 metre FT-8; I was confirmed in their logs by going to

the Club Log VP6R page at: <https://clublog.org/charts/?c=VP6R>. Searching under my call VE3LC; my contacts were confirmed to be in their log.

Now I will await for the contacts to be uploaded to "Log Book of the World" for another DXCC entity confirmation.

From what I read however, there will be further chances to work Pitcairn Island with a couple of new hams residing on the remote South Pacific island. Look for Mike, VP6AZ and Meralda, VP6MW.

By the way, according to the Pitcairn Island web site, the government of the Island is looking of folks to immigrate to

add to the population of about 50 people that still live there, many that are descendents of the nine mutineers and the native Polynesian men and women that accompanied them on the HMS Bounty after they seized control of the vessel, led by Fletcher Christian, and set captain Lieutenant William Bligh adrift with 18 loyalists on a life boat in 1790. The British mutineers and their Tahitian friends sailed and found Pitcairn Island, settled there as a hide out until they were discovered 1808. You can read the entire story at: https://en.wikipedia.org/wiki/Mutiny_on_the_Bounty.

Norm, VE3LC

VE3LC

Find QSOs

VE3LC has worked VP6R on 5 out of 28 band slots

Propagation from CANADA / ZONE: 4 / Geo Propagation Map

Leaderboard for zone 4 / CANADA / NA

	6m	10m	12m	15m	17m	20m	30m	40m	60m	80m	160m
JT65											
SSB											
CW				✓	✓	✓					
FT8				✓		✓					

Meeting Minutes

Date / Time: Wednesday, October, 16 2019. 19:30

Location: Canada Science and Technology Museum, Ottawa, Ontario.

1. Call to order:

President Barry Allison, VE3NA, called the meeting to order at 19:21 There were 38 in attendance, including 2 guests.

2. Approval of minutes from previous meeting:

MOTION: Moved by Steve Middleton, VE3RUU and seconded by Alan Fricker, VE3KAE that the minutes of the previous meeting held Wednesday September 18, 2019, be approved.

VOTE: All in favour.

CARRIED.

3. Greetings:

Barry, VE3NA, extended greetings to everyone including guests Alain Th roux, VE2IOT and Martin Leesti, VE3YYV.

4. Agenda and Meeting Content:

Barry, VE3NA outlined the agenda for the meeting.

5. Announcements, Projects and Events:

A) Announcements:

Barry Allison, VE3NA reminded Members of several items:

- i. Next month's business meeting will begin earlier at 7:15 PM as a trial. The earlier start time is subject to further testing. This will accommodate a request from the Museum for the meeting to be

concluded and cleared out of the facility by 10:00 PM.

- ii. Check out and enroll in Groups.IO. Login to keep up to date on ham activities within the OVMRC.

- iii. Event Activities. Members should regularly reference The Rambler newsletter on the club's website to stay informed. Members can use the hyperlinks for upcoming activities, information and contests.

- iv. Membership dues for the 2020 season are now due and payable to OVMRC.

ACTION REQUIRED: Please check in with Nicole, VE3GIQ to settle your account and to verify your membership information.

- v. Year-End Attendance Prize Draw. Barry Allison, VE3NA reminded members again that there will be three or four year-end attendance prizes to be drawn in June 2020. Total combined value of the prizes will be approximately \$800. OVMRC Members will receive 1 ticket at each meeting when they sign in. The tickets will be accumulated and at the final meeting of the season and the first winning ticket will be drawn by last year's winner, Nicole Boivin, VE3GIQ. A suggested prize is an amp/power supply unit.

- vi. Door Prizes. Barry Allison, VE3NA, reminded members again that each meeting will feature a door prize of significant value, such as tonight's multimeter.

- vii. Coax. Barry Allison, VE3NA will order a 500-foot roll of LMR 400 at \$1.23 per foot, plus tax. PL259 connectors will be mounted.

ACTION REQUIRED: Contact Barry at VE3NA@RAC.ca will place an order.

- viii. Peter Carss, VE3XEM has a Yaesu FT991 available as part of an estate sale. Please contact Peter for information.

- ix. The Emergency Repeater Frequency tests happen on the 1st Wednesday of every month on VE3OCE. The necessary CTCSS Tones are also available in the Rambler.

- x. On behalf of Neil Herber, VE3PUE members were reminded that volunteer radio operators are once again needed for the annual Canadian Ski Marathon happening in Quebec on February 8 and 9, 2020. For information, please go to: <https://hambone.ca>

B) Club Projects and Member Builds: Barry Allison, VE3NA – reviewed for members that a portion of the cost for Club projects will be subsidized by the Club this year. The balance of the project cost will be paid by the member at a group buy/discounted rate. Among the Projects and builds suggested (subject to member interest) are:

- i. A Lightning Arrestor/Surge Suppressor, HF to 2 metres at an approximate cost of \$15.00 to the Member.

- ii. A 6M low power Mag Loop antenna build that could be mounted on a balcony or deck using a tripod or a painter pole, as demonstrated by Michael Babineau, VE3MWB. The Loop parts would be a group buy.

- iii. A 6M dipole antenna, as a club project, somewhere around \$15

cost to the member. This could be used to initiate a 6 metre CW net, for example.

iv. Toroid construction to purchase Snap-On toroids or to buy the parts needed to build a toroid that would assist in HF interference suppression.

ACTION OUTCOME: Members signed up to choose their project/build from the above list. Barry, VE3NA will now begin ordering parts and get started on the builds. Members who have NOT signed up, are asked to contact Barry, VE3NA as soon as possible at VE3NA@RAC.ca

C) Haves:

i. None noted.

D) Wants:

i. None noted.

E) Notable Contacts: Norm Rashleigh, VE3LC noted there are a number of DX Expeditions happening on HF. This includes the Tokelau Islands DX Expedition and Pitcairn Island DX Expedition. Norm also contacted the Dx Expedition on French islands of St. Pierre and Miquelon off the coast of Newfoundland on the 160, 80, 40, 30 and 20 metre bands.

F) Auction: A Daiwa portable SSB/FM Amp was donated by Hugo Kneve, VE3KTN for tonight's auction item. The opening bid was \$20. Winner of the auction was Tim Bailey, VE3TXB with a bid of \$45.

G) Presentations:

a) ARIES Project Update - Michael Babineau, VE3MWB

The code is finished and is in Beta status now. A mechanical prototype has been built. A new Pico Balloon sub group has been established and can be found on Groups.IO The up to date presentation be found on Groups.IO here:

<https://ovmrc.groups.io/g/main/files/Aries%20Balloon%20Project%20Monthly%20Update%20Slides/Project%20Aries%20-%20OVMRC%20update%20October%202019%20.pdf>

Timing may require the launch to be postponed to the start of the New Year. To be confirmed.

Show and Tell: Michael VE3MWB also demonstrated the proposed 6M Mag Loop Antenna purchase. Cost is likely to be \$100 or less if there is enough interest. That is in Canadian funds, shipped. Members were asked to indicate their interest on the appropriate sign up sheet

b) Financial Report – Nicole Boivin, VE3GIQ.

Nicole prepared a slide summary of the 2019-2020 proposed budget, now available for viewing. She led a category by category review of both Income and Expense. Further to fielding a few questions from membership, a vote for acceptance was called for.

Motion: to accept the 2019 – 2020 budget as presented.

Moved by: Richard Haberle, VA3HBL

Seconded: Bill Henderson, VA3HWA

Vote: All in favour.

CARRIED

The budget is available in the October Rambler, on pages 13 and 14 here:

<https://www.ovmrc.on.ca/Rambler/Archive/Ram2019-10.pdf>

c) OVMRC 2 M Transmitter Hunt – Roger Egan, VA3EGY

Roger, VA3EGY presented an update on the development of a fox hunting program. Several factors have been considered including the development of a list of benefits from such a program. This would include partnering with other groups like Christie Lake Camp and the Scouts. We would be able to vet them. This would also give OVMRC the opportunity to present a public image to the community. The presentation will be available on the Groups.IO and the Club website.

A link to the Fox Hunt Sub-Group can be found on Groups.IO here: <https://ovmrc.groups.io/g/foxhunt>

Roger's October presentation follows the September presentation. It can be found on Groups.IO Simply scroll down to the October 16th cover page to view:

https://ovmrc.groups.io/g/foxhunt/files/Foxhunting%20Subgroup%20Presentations/Fox%20Hunting%20Presentation_16Oct2019.pdf

ACTION REQUIRED:

Members are asked to volunteer for a committee that will develop a Fox Hunt plan for the year. Visit Groups.IO to sign up or send Roger an email at VA3EGY@gmail.com

d) Good things to know about operating CW - Norm Rashleigh, VE3LC.

Norm presented essential facts that hams should know when operating CW. His original presentation from 2018 is posted on the club's website here:

https://www.ovmrc.on.ca/Presentations/Operating_CW.pdf

Norm reviewed the CW basics including the many common abbreviations used in CW Prosigns, the Morse Code alphabet, and the various types of mechanical straight and Iambic keyers available. He also demonstrated some of the CW digital keying tools available, namely, the Winkeyer USB. A wide variety of decoding software, code readers and loggers are available to help the CW Operator navigate the bands.

e) RFI Core Suppressors – Norm Rashleigh, VE3LC

Norm shared the results of his tests and analysis on the performance an assortment of toroid and cylindrical cores and “Current Baluns” using a Rigol DSA 815 combination Spectrum Analyser. The test setup on available toroid

and cylindrical cores was primarily based on noting the “attenuation” over a span of 1 to 30 MHz using several turns of wire wound inside core device. Several photos and descriptive results are available in the October Rambler on pages 4 through 9 here:

<https://www.ovmrc.on.ca/Rambler/Archive/Ram2019-10.pdf>

6. Prizes and Draws:

Tonight's door prize door prize is a multimeter kit with case valued at approximately \$30. The winner was Douglas King, VE3YDK.

The 50/50 draw for \$19.50 was won by Nicole Boivin, VE3GIQ.

7. Upcoming contests:

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

<https://www.contestcalendar.com/>

RAC Members can login and go here:

<https://wp.rac.ca/amateur-radio-contest-calendars/>

ARRL Members can log in and go here:

<http://contests.arrl.org/>

8. Adjournment:

MOTION: Moved by Ron Smith, VE3LBU that the meeting be adjourned at 22:06.

9. Next meeting:

The next regular business meeting of the OVMRC will be held Wednesday, November 20, 2019 at 7:15 PM at the Canada Science and Technology Museum, 1867 St Laurent Blvd, Ottawa, ON

*Minutes recorded by
Ron Smith, VE3LBU
OVMRC Secretary*

OVMRC Net Activity, Check-ins for September, 2019.

Prepared by: Hugo Kneve VE3KTN

OVMRC 2 Metre Net: VE3TWO 147.300+ 100 Hz. tone, Thursdays 8 p.m. local.

October 3	October 10	October 17	October 24	October 31
VE3KTN - NCS	VE3KTN - NCS	VE3RXH - NCS	VE3RXH - NCS	VE3RXH - NCS
VE3BF	VA3EO	VE3FNG	VA3ZZW	VE3NA
VE3HVB	VE3NA	VE3NA	VE3LC	VE3RUU
VA3YYF	VE3LBU	VE3NPO	VE3KAE	VE3LC
VE3BQ	VA3RLA	VE3HAZ	VE3NPO	VA2EEK
VE3NPO	VA2EEK	VE3LC	VA3AOD	VA3RLA
VE3NA	VE3RXH	VA3DEF	VA3DEF	VA3DEF
VE3LC	VA3DEF	VA3RLA	VE3BRJ	VA3EO
VE3KAE	VE3BQ	VE3KAE	VA3EO	VE3NPO
VA3RLA	VE3LAF	VE3LBU	VE3BQ	VE3KTN
VA3DEF	VA3BIT/m	VA2EEK	VE3LAF	VE3LBU
VE3LBU	VE3BOE	VE3KTN	VA2EEK	VA3BIT
VE3OKD	VE3LC	VE3XEM	VE3KTN	VA3BGO
VE3LAF	VE2BJZ	VE3LAF	VA3RLA	
VE3GIQ	VE3KAE	VE3QSO		
VA3AOD		VE3TXB		
VA2EEK		VE3BRJ		
VE3TXB		VA3ZZW		
VA3EO		VE3BF		
		VE3GIQ		
		VA3EO		
		VE3RUU		
		VE3HVB		

OVMRC Pothole Net: 3760 kHz. LSB Sunday mornings at 10 a.m. local.

October 6	October 13	October 20	October 27
VE3EJJ – NCS	VE3EJJ – NCS	VE3XRA - NCS	VE3EJJ - NCS
VA3QV	VA3QV	VE3LC	VA3QV
VA3RLA	VE3LC	VE3EJJ	VE3BAE
VE3HHS	VA3BGO	VE3LLX	VA3RLA
VE3BAE	VA3BQ	VE3KTN	VE3XRA
VE3KTN	VE3EKN	VE3EKN	VE3LC
VE3LC	VA3PCJ	VE3BQ	VE3KTN
VA3BGO	VA3YYF	VE3KAE	VA3BGO
VE3EKN	VE3XRA		VE3KAE
VA3YYF			VE3EKN
VA3BIT/p			VA3YYF
VE3PNY			

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

Signature _____	Date _____	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">Initials</div>	<p><i>By initialing this box, I confirm that I consent to receiving e-mail messages from the Club.</i></p>
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