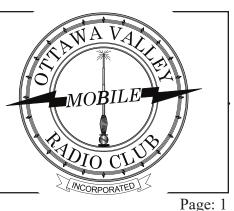


Newsletter of the **Ottawa Valley Mobile** Radio Club Incorporated



INSIDE

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June 2021 **President's** Ramblings

lield Day is fast approaching. The May meeting was almost entirely devoted to a review of how the club members can participate in Field Day and have their score contribute to a club aggregate score. It was impressive to hear some very engaging questions from new club members regarding some rule interpretation that made some of us really think as we scrambled to answer the question. You may want to review the May 2020 Rambler available here: https://www.ovmrc.on.ca/Ramble

r/Archive/Ram2020-05.pdf where there is considerable information on Field Day. Also, Norm's presentation on Field Day 2021 is now posted on the Club Web site at:

https://www.ovmrc.on.ca/Presenta tions/FieldDay2021.pdf

The executive has granted approval for me to create 2 prizes, for new members who are successful in making at least one contact and successfully uploading their log to ARRL. Each prize will be fifty feet of LMR 195 coax with connectors installed on the cable. The value of each prize is \$44.00. All new members successfully participating in Field Day will go

Edition 58 into two draws for one of the two prizes.

The June meeting is the Annual General Meeting which will include re-election of the existing Directors likely for one last term. The Rambler Newsletter Production Committee Chair, Norm, VE3LC is stepping down and Alan Hotte, VA3IAH is stepping in to fill the position. Thanks Alan! The other Committee Chair positions will remain the same for another year. We are encouraging club members to start thinking about a change in the executive at the end of the next club year. There is information regarding position responsibilities in the club bylaws posted on the club website: https://www.ovmrc.on.ca/

There will be a presentation by the club Treasurer on the financial status of the club and we hope to have a club audit for presentation as well. Club Treasurer, Nicole, VE3GIQ will also be available to answer any questions regarding the proposed budget for next year.

Since we moved to e-transfer for club financial transfers, it became apparent it was long overdue to automate the club membership form to more accurately reflect the current status of the club and have a fully automated, fillable, PDF form for the document that can be e-mailed to the Treasurer, eliminating the need for paper forms and mailing them to the club post (Continued on page 4)

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Wednesday June 16th 2021 via **Zoom**

Check-in Time 6:45 to 7:15 P.M.

Members and invited guests will be sent an email invitation several days before meeting date with login and password. Others not on our mailing list please contact Norm at: VE3LC@rac.ca for invitation.

Agenda:

- Call to Order at 7:15 by Barry VE3NA;
- Greetings to Guests and New Members;
- Acceptance of May meeting minutes;
- Treasurer's Report by Nicole; VE3GIQ;
- MS Bike Tour Call for Radio Op Volunteers - Nicole, VE3GIQ;
- Audit and Procedures Review by Jim, VA3DEF:
- A few words about Field Day, Norm VE3LC;
- Chair Reports;
- Election of OVMRC Directors;
- Draw of Year End Door Prizes; and
- · Meeting adjourned; and Rag Chew for those interested.

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Rambler

OVMRC Executive and Officers 2020-2021

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

Meeting Reception: John McGowan, VA3JYK john.mcgowan1314@gmail.com

Nets & Radio Operations: Hugo Kneve, VE3KTN <u>ve3ktn@rac.ca</u> Nicole Boivin, VE3GIQ nlboivin@sympatico.ca

Rambler Newsletter Production: Norm Rashleigh, VE3LC <u>ve3lc@rac.ca</u> Robert Cherry, VA3AOD <u>cw527@ncf.ca</u> 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 Groups.io

Ongoing discussion Group at: https://ovmrc.groups.io/g/main/ topics; if you are not a member please subscribe. <u>All</u> radio amateurs are welcome.

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 Repeaters

VE3TWO

147.300 MHz (+) 100 Hz tone FM & Yaesu C4FM Digital Operation

VE3RAM

Limited coverage to Orleans and East Ottawa

443.700 MHz (+) DMR CC1 & D-Star Network connected to Brandmeister

Special Event & Field Day Call Sign

VE3JW

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

OVMRC Affiliations



Rambler

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. 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 advirable that all the EMBG fragmenoiog he

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

The EMRG monthly repeaters tests conducted by Dave, VE3KMV have been discontinued until further notice. These repeaters remain in service for general amateur use.

Informal Amateur Radio Restaurant Gatherings

(All Cancelled until Further Notice)

• 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

OVMRC VE3TWO Weekly Net:

• **Thursday Evenings, 8 PM**, Club Net on FM conducted by Hugo, VE3KTN.

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

• **Rubber Boot Net**, VE3MPC 147.150 MHz+, (100 Hz tone) mornings at 7:30 AM conducted by Roger, VE3NPO

• **Phoenix Net**, VE3MPC 147.150 MHz +, (100 Hz tone), Tuesday evenings at 7:30 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, Tuesday 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.

• **DEXNET (Digital Experimental Net)**, Simplex 144.210 MHz, USB, vertical polarization. Check the schedule on groups.io for digital mode used each week.

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(Continued from page 1) box. Douglas, VE3YDK has volunteered to create this form for the club. When the form is created and tested it will be posted on the club Web site. Thanks Douglas!

There is a tab on the club website https://www.ovmrc.on.ca/ where anyone can submit an article for consideration to be published in an upcoming edition of the Rambler. We are always looking for new material for the newsletter. Now if only we can convince the author in you to put pen to paper and hit that "submit" button!

Many club members also enjoyed a Zoom meeting later in May where Dr. Bob Heil presented an exceptional dissertation on everything audio, along with some of his life experiences that led up

OVMRC HF Nets

Pot Hole SSB Net, 3760 kHz, every Sunday morning at 10:00 AM conducted by Ernie, VE3EJJ, or Glenn, VE3XRA.

The Pot Hole will continue through the summer taking a break only on Field Day, June 27 and possibly Labour Day, September 5th.

Pot Lid Slow Speed CW Net, 3620 kHz, every Sunday morning at 11 AM conducted by Roger, VE3XRR.

The Pot Lid CW Net (PLN) will conclude its 47th year of operation June Sunday June 13th. Roger, VE3XRR will be stepping down after 8 years as Net control Operator. It remains to be seen if the PLN continues with a new Net Control Station September 2021. There is discussion of resuming the net in the fall on the 6 metre band. For the full story of the PLN, go to the facebook blog maintained by VE3XRR at: https://www.facebook.com/groups/1806458282969698/

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missed it this time around.

Remember, attendance at the

monthly club Zoom meeting buys

year-end door prize draw if you are

you another "free" ticket for the

a club member in good standing

and did not win one of the door

prizes last year. You may want to

check with Nicole to ensure you

are paid up for the year to ensure

eligibility for the year-end draw.

There will be three prizes again

this year similar to what was given

away last year. The prize is a 2 m,

for your portable radio along with

cables to connect the amp to your

5 Watt in, 30 Watt out amplifier

a power supply and appropriate

radio. Prize value is \$450.00

to the creation of his company. No The club still has LMR 195 @ doubt we will see this presentation \$0.80 / ft and LMR 400 @ \$1.35 / surface again sometime in the ft, crimp on connectors (a) \$2.00 future for those who may have ea, (type "N" connectors are \$4.00 ea).

> I'll end the rambling here for now. Everyone is invited to join the OVMRC June Zoom meeting

Wednesday, June 16th. Check in will start at $\sim 6:45$ PM with a planned start time as close to 7:15 PM as practical. Anyone not receiving the check in credentials can do so by sending an email to Norm (Zoom custodian) VE3LC@RAC.CA. All are welcome to attend.

Stay safe, stay home, stay on the air!

73 Barry, VE3NA



MS Bike Tour Call for Volunteers

The MS Society is resuming this fund raiser this year. I have been asked to organize amateur radio support for the event. The scale of this year's ride has been reduced. It will be a one

day event planned for Saturday, Aug 28th; 300 participants are expected. The riders will turn around at Finch, with a long and short route. There will be 5 rest stops in total : Russell Fair Grounds, Marionville, Limoges for the long route, Crysler and Finch. The start and finish will be at Russell, with departures staggered starting at 7:30 AM and a finish anticipated for 3 PM with a late lunch.

So far I have 5 volunteers including myself. There will be no mobiles this year. There is room for at least an additional 5 volunteers. Volunteers should have at least one COVID vaccination and should bring a mask. If you are interested in participating, please drop me a line at: ve3giq@rac.ca. Further details to follow as we approach the event date.

73 and I hope to see you there. Have a wonderful Field Day and summer.

Nicole VE3GIO June 2021

Meeting Minutes

Date / Time: Wednesday, May 19, 2021 19:15

Location: Via ZOOM on line meeting

1. Call to order:

President Barry Allison, VE3NA called the meeting to order at 19:10. There were 59 check ins including new hams/guests and visitors Rod Wilson, VE3RXN and Matt Lacasse, VA3KXA.

2. Greetings:

Barry Allison, VE3NA extended greetings to all members and guests.

3. Approval of minutes of April 21, 2021.

MOTION TO ACCEPT: By Bill Henderson, VA3HWA, and seconded by Tim Bailey, VE3TXB that the minutes of the meeting held Wednesday April 21, 2021 be accepted.

There were no objections.

APPROVED

4. Projects, Dues and Announcements:

• Haves and Wants – There were none offered this month. Members wishing to sell items may post them on the OVMRC groups.io page.

• New Hams and Club Members Welcomed – Norm Rashleigh, VE3LC noted that new hams/club members who have passed their exam include Kelly Barr, VA2KRB, Adam Bird, VA3IRD and Magdalena Richardson, VE3VVR. • Reminder that paid up members are eligible for the yearend draw prizes of which will be three, each comprising an HT amp and power supply with cables.

• The Club also has a quantity of LMR 195 and LMR 400 coaxial cable and connectors for sale at a reduced price. Email your requirements to ve3na@rac.ca

5. Agenda, Meeting Content and Directors' and Chairs' Reports:

Barry Allison, VE3NA outlined the agenda for the meeting which included:

Presentation: DIY Field Day 2021 – Norm Rashleigh, VE3LC

Norm presented a two-part review of DIY Field Day. In part 2. Norm shared slides intended to support individual efforts this year at participating in the 24-hour ARRL Field Day, June 26 starting at 2 PM concluding at 2 PM Sunday, June 27. New hams were particularly interested given this will be their first experience with Field Day. Seasoned hams and club members were reminded that Field Day 2021 will be much like 2020, given the pandemic precludes a group effort. Field Day rules are available here: http://www.arrl.org/field-day

• Two updates of note this year from ARRL...Class D stations may work all other Field Day stations, including other Class D stations, for points. This year, however, Class D and Class E stations will be limited to 150 W PEP output. An aggregate club score will be published — just as it was done last year. The aggregate score will be a sum of all individual entries that attributed their score to that of a specific club. Norm's slide presentation is available under the Presentations Tab on the club's website here: https://www.ovmrc.on.ca/Presentat ions/FieldDay2021.pdf

• The Club is offering 2 incentives for our new members for Field Day 2021. Barry, VE3NA is preparing 2, 50-foot lengths of LMR 195 coax with connectors. New hams are eligible to win as long as they log at least one contact and file their contact under the Club submission to ARRL. A draw for the incentives will take place once the results are published.

Next Month's Topic: The Club's annual AGM will be held including the confirmation of Directors for another year. Further information will be available on the Club website.

Special Zoom Meeting: Norm, VE3LC invited OVMRC members to join with the QCWA Chapter 70, for a special video presentation on May 25 at 7 PM by Dr. Bob Heil, founder of Heil Sound. Members were asked to email Norm at VE3LC@rac.ca for a Zoom invite.

Succession Planning: Barry Allison, VE3NA reminded members that the current Executive Committee which includes the 4 elected positions of President, Vice President, Treasurer, and Secretary have accepted standing another season running the affairs of the Club; which of course, is subject to a vote of confidence by the membership at our June Annual General Meeting next month. The roster of

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current Directors is published in The Rambler every month. However, this does not negate the submission of the nomination of eligible candidate(s) according to the rules and procedures of submission published in Club Bylaws and available on the Club Website. However, if re-elected, any or all of the current incumbents should not be expected to seek re-election after next season ending August, 2022. The current executive officers of the Club therefore are seeking able, willing and eligible folks from the membership to take on any of these responsibilities to continue the good administration of the OVMRC after next season. If interested in serving the Club and wanting to know what responsibilities are involved, please refer to the Club Bylaws and make your desire and commitment known to any current member of the Club's executive committee by June 1 and we can involve you with invitations to the Club executive meetings which will most likely continue using Zoom teleconferencing.

Finance and Membership

Report: Nicole Boivin, VE3GIQ reported there are now 122 members as of the meeting. Under the Financial Report, the Club has approximately \$28,201 in the bank.

Name Tags, MS Bike-A-Thon and Membership On Line Form:

Barry, VE3NA advised members that no new name tags are being ordered. Current tags on hand will be mailed out shortly. Further to Barry's comments on Name Tags, Nicole, VE3GIQ advised that tag prices have increased to about \$16, tax included. She will update the Club when a vendor and pricing is confirmed before any new orders are taken. As for public service initiatives, this year's MS Bike-A-Thon will be held as a half route event on Saturday August 28, at 7:30 AM. Nicole is looking for 8 club volunteers to handle the ride's 2 metre FM analog communications along the route. Contact Nicole at VE3GIQ@rac.ca An updated Membership application will be created as a fillable PDF form on the club's website. Thanks to Douglas King, VE3YDK for his assistance.

VE3KTN Net Operations

Update: Hugo, VE3KTN regularly updates the full schedule of regional nets. Right click to open the following link to the April Rambler, page 12: https://www.ovmrc.on.ca/Rambler/ Archive/Ram2021-04.pdf

Hugo reported good attendance and participation on the club nets, including the Sunday morning Pot Hole Net at 10 AM on 80 metres. The two metre Thursday night net may take a summer hiatus, but that is subject to confirmation. The Sunday morning slow speed CW Pot Lid net needs a new net controller starting in September, so if you would like to get more information, please email Hugo at: VE3KTN@rac.ca

Exams: Norm Rashleigh, VE3LC advised that course packages are being distributed on request to those wanting to become a radio amateur. Norm administers individual exams on a regular basis in a Covid friendly environment.

June 2021

6. Upcoming contests:

For more detailed information on upcoming contests, see the WA7BNM contest calendar:

https://www.contestcalendar.com/

RAC Members can log in and go here:

https://www.rac.ca/category/prog/c ontesting/

ARRL Members can log in and go here:

http://contests.arrl.org/

7. Adjournment:

Moved By: Fred Crowe, VE3LAF that the business meeting be adjourned at 21:30.

8. Next meeting:

The next virtual monthly meeting of the OVMRC will be held Wednesday, June 16, 2021 at 7:15 PM via ZOOM meeting. This will be the Club's Annual General Meeting. Please watch for your email meeting invitation to Zoom.

Minutes recorded and prepared by Secretary Ron Smith, VE3LBU.

Rambler

ane 2021 Rambler	Pag
OVMRC Financial Report as of June 8, 2021	
By: Nicole Boivin VE3GIQ	
Assets:	
Equipment	\$1,295.60
Bulk Purchases	\$273.46
Cash on Hand	\$48.20
Current Account	\$27,227.84
Guaranteed Investment Certificates	\$0.00
Total Assets	\$28,845.10
Income:	
nterest (mainly from GICs)	\$427.36
Vembership	\$1,545.00
Radio Exams /Manuals	\$430.00
Donations/Auctions	\$607.15
Sales	\$4,227.47
Total Income	\$7,236.98
Expenses:	
Bulk Purchases	\$4,423.43
RAC Club Affiliation and Insurance	\$622.88
Rentals	\$224.87
Prizes	\$584.86
Donations (DARF and RAC Scholarships)	\$1,000.00
Miscellaneous	\$120.30
Total Expenses	\$6,976.34
Net Income for the Perio	od \$260.64

Comments from OVMRC Treasurer Nicole VE3GIQ

Re: Membership and Payments to the Club

Membership Renewals:

• For reasons of accounting, please delay payment of membership renewals until

September 1st.

• The preferred method of all payment transactions to the Club are by Interac e-transfer to email address:

ovmrc.e.xfer@gmail.com.; please do not send e-transfers to my personal email address. Cheques payable to the OVMRC will also be accepted but that necessitates a

Informal Review/Audit of the Financial Records and Processes of the OVMRC

By Jim Dodds, VA3DEF

I was requested by Norm, VE3LC to undertake an informal review/audit of the financial records and processes employed by the OVMRC to record and report all financial aspects of the club's activities. A similar review was performed by Bryan Rawlings on June 12, 2018.

Having formerly been a chartered accountant prior to retirement, I was approached by the OVMRC executive to undertake an informal review/audit of the financial records and processes employed by the OVMRC to record and report all financial aspects of the club's activities. trip to the Bank for deposit. Please no cash money to the Club unless absolutely necessary.

• New members as of Jan 1st including all new radio amateurs taking their test by the Club examiner, Norm, VE3LC will have their membership extended to the end of the following season starting in September.

• Some members of the Club have over or pre-paid their membership dues for the next year. I will email these members with information on their remaining balance and whether any balance is due for next year.

Name Badges:

• Because of the Covid situation, some members of the Club paid for

On June 7, 2021 a ZOOM meeting was convened to conduct the aforementioned financial records and processes review. In attendance at the meeting were Barry Allison, VE3NA, (President); Norm Rashleigh, VE3LC, (Vice President); Nicole Boivin, VE3GIQ, (Treasurer); and myself. Nicole walked us all through the accounting processes and software currently used by OVMRC in the accounting of its financial transactions. Nicole provided an in depth look into how all the various types of transactions are processed. The meeting lasted approximately 3 ¹/₂ hours.

For some context from the 10,000 foot level, the financial position of the club as at the previous year ended, August 31, 2020 was comprised solely of Cash and GIC's of approximately \$27,000 and equipment of ~ \$1,000. There were no material liabilities. On the operations side, there are 3 major sources of funds: receipts from membership dues ~ \$2,100; Club membership name badges that unfortunately were never produced. Others were produced but never picked up. We will try to square this situation by emailing the members involved. For those that paid \$12.00 for name badges and were produced, a credit can be applied to their membership dues or other purchases of goods provided by the Club. For folks in which the badge is available, pickup or delivery can be arranged.

• Name badges for future delivery will be more expensive than the previously orders and at this time the cost is undetermined.

Nicole, VE3GIQ ve3giq@rac.ca Treasurer, OVMRC

Projects ~ \$2,500; and amateur radio certification courses ~ \$5,500. After deduction of various expenses of conducting club activities, there was a positive contribution to the club's net worth of \$350. This small net income is what you would expect to see from a not-for-profit organization where the objective is not to accumulate wealth, but rather to provide sufficient income to undertake the organization's activities.

The following are my observations and comments:

1. OVMRC banking is currently fully accessible online (including both transactions and statements) with the exception of GIC investments which are reinvested over the phone with the account representative from the RBC. This is much more efficient than paper reporting from both club processing and record retention perspectives.

2. All but an extremely few cash receipts are received into the bank via e-transfer. This translates into

June 2021

a higher level of security over club assets by reducing the prevalence of "cash" transactions and reductions in the processing time required of the Treasurer.

3. Virtually all payments are made via the electronic payments system of the RBC banking application. For context, there are only approximately 20 - 30payments made annually, the most significant of which relate to the purchase of club project inventory (e.g. cable, connectors, project kits), club donations (e.g. RAC) and membership door prizes.

4. Significant purchases are initiated by the related director for the activity (e.g. Barry for bulk purchases of cable and connectors, Norm for certification course materials) and presented to the other directors at the regular meetings for review and approval. This means that all significant processes and programs are initiated and approved at the highest level within the organization.

5. Bank reconciliations are prepared at least monthly to ensure that the cash account balances per the accounting records agree with the bank balances per the RBC.

6. The accounting software currently in use by the organization is a freeware, open source application called "GnuCash". Despite any reservations members may have with respect to the use of freeware, it is a sophisticated accounting application more than up to the task of fulfilling the club's accounting software requirements.

7. I noticed that purchases of materials for club project kits and bulk wholesale priced items (e.g. cable, connectors) are recorded in the income statement as expenses when purchased. Purchases of these types of items would typically be inventoried onto the balance sheet and transferred to the income statement as a cost of sale only as sold. The income statement should only reflect the amount of sales and costs that relate to the accounting year and not the total purchases in that year. By example, if the club purchased \$5,000 worth of cable in 2020 but did not sell any of it until 2021, under the current accounting practice, the 2020 income statement would show no revenue and an expense of \$5,000 for a loss for the year of \$5,000. In the subsequent year, assuming all the cable was sold at cost, there would be income of \$5,000 and net income for the year of \$5,000. If recorded in accordance with GAAP (Generally Accepted Accounting Principles), there would be no revenue from sales and no cost of sales in 2020 as no cable was sold and a resultant NIL net income would be reported. In 2021, there would be \$5,000 in sales and \$5,000 cost of sales yielding a net income again of NIL. The difference in the outcomes of the two accounting treatments becomes readily apparent. The organization would benefit from the incorporation of an inventory ledger into its accounting processes. My apologies for the long winded explanation on this one.

8. Similarly, fixed assets have historically been recorded on the same basis as inventory and not in accordance with GAAP. While there is a small amount shown on the balance sheet for equipment, it cannot possibly reflect all the equipment owned by the club (e.g. repeaters, radios, antennas, tools). Here again, the club would benefit from the incorporation of an equipment ledger of some fashion into its accounting processes.

9. The true "WOW" moment was the demonstration by Nicole of her (100% self-developed and coded)

membership registry application. This application has significantly improved every aspect of membership maintenance, receipts and much more. The application also integrates into the accounting software to record those financial activities with the membership as well as generating a wide variety of related reports for the directors and other requirements of club activities, such as logging attendance at monthly club meetings, AGM, etc. I can understand how arduous a task this must have been to perform with pencil and paper. Well done Nicole!

10. In terms of record storage, everything is either received in digital format or converted to digital format upon receipt. This makes document storage much less labour and paper handling intensive. The accounting information is also backed up onto a separate storage device on a regular basis. However, at the current time, none of the accounting records or documentation is stored offsite by either way of the cloud or physical media to an offsite physical location. Under this the current storage technique a catastrophic event could result in the permanent loss of all accounting and financial documents ever created. In my opinion, this represents the single largest potential risk to the organization encountered during my review here.

In conclusion, the financial accounts and processes appear to be meticulously maintained and monitored, and the membership should feel confident with respect to the execution of the fiduciary responsibilities of the directors.

Sincerely, James R. Dodds, VA3DEF

The Annual General Meeting June 16th, Election of Directors

An important requirement of the Club at the Annual General Meeting conducted at the last meeting of the season before the summer break is to elect the slate of Directors to carry-on the business of the Club for another season starting again in September.

As no nominations were put forward by the membership to challenge the incumbents who all have indicated a willingness to continue in their positions for another season, we request a motion and a vote of acceptance by the membership at the AGM to elect for another one-year term the following members of the Ottawa Valley Mobile Radio Club in the positions noted:

President	Barry Allison	VE3NA
Vice President	Norm Rashleigh	VE3LC
Secretary	Ron Smith	VE3LBU
Treasurer	Nicole Boivin	VE3GIQ

NOTE

The above directors of the OVMRC will be actively recruiting this coming season "eligible" and capable members of the Club to be part of the executive committee and stand for election of a Director position at the next Annual General Meeting, June 2022.

Why Is It 50 Ohms?

Hugo Kneve, VE3KTN.

Foreword

This article answers the question of why most coaxial cable installations use a 50 Ohm impedance. The information contained here isn't anything new, but serves as an accretion and summary of the history behind coaxial cable development and why its impedance settled at 50 Ohms. There are several internet articles available on this subject, but I will acknowledge two principal sources for the talk that follows:

(1) ARRL-QST August 2001

(2) Wikipedia: https://en.wikipedia.org/wiki/Coaxial_cable.

The Early Days

The concept of a coaxial transmission line dates back to the inception of intercontinental telegraphy and, in particular, the first attempts at laying undersea cables between Britain and America. The first trans-Atlantic cable of 1858 was constructed as a seven strand centre conductor surrounded by gutta percha as its insulator. strengthening layers of tarred hemp and an armour of helically wound iron wire. There's no information to say whether the iron armour was connected as part of the electrical system, however several articles suggest that the return path was simply "earth" and that the sea surrounding the cable formed the shield portion of this very early coaxial transmission line. The history of the first trans-Atlantic cable is well known, but what's important is that its effective bandwidth was only roughly 1 Hz. which was a major impediment to recovering well defined dits and dahs at the receiving end.

The understanding of coaxial cable's electromagnetic behaviour and the problem of bandwidth is credited to Oliver Heaviside who, in 1880, developed the transmission line model of distributed, infinitely small lumped elements as the Telegrapher's Equations. Heaviside was granted a patent for his work in development of what is now recognized as coaxial cable, i.e. a centre conductor suspended at the centre of a continuous conducting shield.

Fast forward to 1929 at the AT&T Bell Laboratories where researchers Lloyd Espenschied and Herman

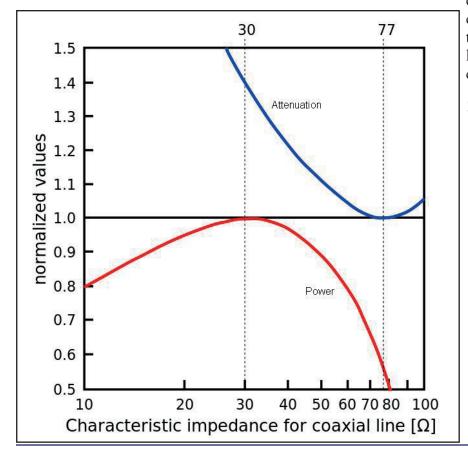
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Affel were working to improve the bandwidth of coaxial cable so as to carry a 4 MHz. wide television signal. The benefits to AT&T were clear that such a cable, apart from being able to carry a television signal, would be able to carry a substantially increased number of telephone calls over long distances and with less wire. The work of Espenschied and Affel resulted in the modern coaxial cable: a centre conductor suspended at the centre of a woven braid or solid metal shield all encased in a weatherproof jacket.

But Why 50 Ohms?

The work of Espenschied and Affel had a few constraints, namely to optimise: (1) Power handling, (2) Voltage breakdown limits, and (3) Minimal attenuation. Their research and analysis resulted in two, now commonly known, characteristics comparing a line's design impedance to power handling and attenuation. The impedance is the important independent variable since that is determined from the ratio of shield to centre conductor diameters which, in turn limit current handling and centre-to-shield voltage breakdown. The result for air dielectric coax is shown in the accompanying chart.



As can be seen, the best power handling capability comes at a design impedance of 30 Ohms whereas minimum attenuation is at 77 Ohms. Now, as we all understand life to be a compromise, taking a bit of a hit on attenuation and power may not be such a bad thing if the degradation is less than, say, 10% for each parameter.. The geometric average of the powerattenuation optima is 48 Ohms, while the arithmetic average is 53.5 Ohms. Well, why not just make it 50 Ohms, and that, gentle readers, is the most likely reason why general purpose coaxial cable is built to 50 Ohms. As time progressed and the petrochemical industry gave us polyethylene, it was found that using a PE dielectric would drop the attenuation minimum from 77 Ohms closer to 50 Ohms, further reinforcing that value as being a good choice.

Oh yes, and there is a story that in the latter years leading up to the outbreak of WW2, there was some disagreement within American standardization committees whether to go with minimum loss 75 Ohm line or the 50 Ohm compromise. The argument between low loss vs. power handling, as used in high power broadcast radio and radar at the time, went back and forth until an unnamed Canadian engineer pointed out that 52 Ohm air dielectric coaxial line

could be made out of U.S. standard sized copper water pipe. We can only hope that this story is true and a Canadian can lay claim to be instrumental in arriving at consensus for the 50 Ohm standard.

73, Hugo, VE3KTN.

June 2021

Peter, VA3PYT builds a 2 metre 3 element Cubical Quad Antenna

Here's a project that may inspire other new radio amateurs. Peter, VA3PYT of Blackburn Hamlet became a new radio amateur in March of this year. So far, he been experimenting with his Icom 2 m portable radio. He was delighted to send a picture of his newly completed Cubical Quad 2 metre antenna that he is anxious to try out.

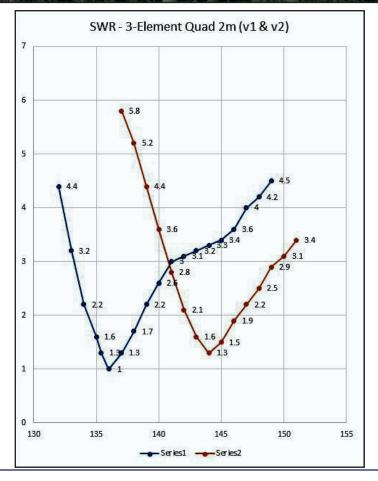
Peter in his email indicates he followed the dimensions and spacing of the loops for the reflector, driven and director wire loops shown in an on-line article at:

http://www.hamuniverse.com/3el2 meterquad.html . Peter borrowed my MFJ antenna analyser to check out the SWR and submitted this plot of SWR sweep before and after he shorten the loop dimensions by a "factor of 0.93".

If constructed with lighter weight materials, this would make an ideal antenna for 2 m portable operation on 146.520 MHz on the Field Day weekend.

Norm VE3LC





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OVMRC Net Activity, Check-ins for March, 2021.

Prepared by: Hugo Kneve VE3KTN

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

May 6	May 13	May 20	May 27
VE3KTN - NCS	VE3KTN - NCS	VE3KTN - NCS	VE3KTN - NCS
New & Visitors	New & Visitors	New & Visitors	New & Visitors
Jeff – VE3WWJ	Rodney - VE3RXN		Tom - VA3TXL
Check-ins	Check-ins	Check-ins	Check-ins
VE3RUU VA3CHH VA3GPJ VE2BJZ VE3NA VE3LC VE3LBU VE3GIQ VE3GIQ VE3ZZU VE3QQQ VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3NPO VE3SYZ VA3BIT VE3RXH VE3RXH VE3YY VA3EO VE3VIG VE3VIG VA2EV VA3IAH VA2OJD VA3JPX	VE3ZZU VE3RUU VE3RA VE3LC VE3LBU VE3KAE VA3PYT VA3KXA VE3RXH VA3EO VA2EV VE3NPO VE3KJQ VE3VIG VA3IAH VA3BIT VA3TEC VA3HJR	VE3ZZU VE3RUU VE3CGK VA3HJR VA2XC VE3NA VE3LC VE3LBU VE3KJQ VA3EO VA3GLB VE3KAE VE3VIG VA3KXA VA2OJD VE3RXH VE3SYZ VA3WEX VA3IAH VE3LAF	VE3EJJ VE3OKD VE3SYZ VE3RUU VE3RUU VE3NA VE3LC VE3LBU VE3CGK VE3KAE VA2OJD VE3NPO VA3KXA VA2OJD VE3NPO VA3KXA VA3DEF VA3EO VE3BOE VE3RXH VA3CSG VA3WEX VA3PYT VA2EV VE3ZZU VA3IAH VE3KJQ VE3VIG

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

May 2	May 9	May 16	May 23	May 30
SFI:71 A:5	SFI:73 A:3	SFI:73 A:8	SFI:83 A:5	SFI:76 A:6
VE3XRA - NCS	VE3EJJ - NCS	VE3XRA - NCS	VE3EJJ - NCS	VE3XRA - NCS
New & Visitors	New & Visitors	New & Visitors	New & Visitors	New & Visitors
Ken – VE3YK		Clayton – VE3IVE Jean-Charles	Tom - VA3TXL	
		VE2JCA		
Check-ins	Check-ins	Check-ins	Check-ins	Check-ins
VE3XRA VE3YY VE3EJJ VE3QN VE3QN VE3KTN VA3IAH VE3NA VE3EKN VA3EO VA3PSI VE3NPO VA2EV VE3BOW VE3RXN VA3BIT VA3GFY	VE3GFY VE3LC VE3QN VA3PSI VA3IAH VE3NA VE3NA VE3KAE VE3EKN VE3KTN VE3XRA VA3EO VE3RXN VE3YY VA3BIT VE3MKX	VE3LC VE3YY VE3EJJ VA3GFY VE3QN VE3QN VE3XEM VE3XEM VE3XEM VA3PSI VA3PSI VA3EO VE3NA VA3BGO VA3BGO VA3BBL VA2EV VE3BOW VE3NPO VA3BIT VA3IAH VA3IAH VE3KTN	VE3EJJ VA2GN VE3MKX VE3LC VE3QN VE3KAE VA3EO VA3PSI VA3IAH VE3EKN VE3YY VE3XEM VE3XEM VE3XRA VE3LAF VA3BIT VE3NPO	VA3BIT VE3YY VE3EJJ VE3KTN VE3LC VA3PSI VE3NPO VA3IAH VA3EO VE3EKN VE3EKN VE3SYZ VE3QN VA3BGO VE3KAE VA2EV VE3LAF

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OVMRC Digital Experimental Net: 144.210 MHz. USB, V-pol Sundays 7:30 P.M. local. Net meets on PSK31 before proceeding to the mode-of-the-day.

Date	Mode	Config
2021-06-06	FSQ	FSQ4.5
2021-06-13	Olivia	8-1000
2021-06-20	Contestia	8-1000

Note

June 20, 2021 will be the last regularly scheduled net for the 2020-21 season with Field Day occurring on the following weekend of June 26-27. There may be informal gatherings during the summer; the best way to stay up to date would be to check the groups.io DEXNET subgroup of the OVMRC page and also on the OVMRC web site. The plan is to conduct tests on 6 m. in the summer with a view to moving the net from 2 m. to 6 m. at the start of the 2021-22 season on the first Sunday following Labour Day weekend in September.



2020-21 Year End Nets Report

Hugo Kneve, VE3KTN OVMRC Nets & Ops Chair

Here we are at the end of another OVMRC operating season and I'll say it's been busy. All of the nets in Ottawa-Outaouais have experienced significant up ticks in attendance over the past season, no doubt much attributed to stay-athome orders attempting to stem the spread of COVID-19, but I believe it's also a result of the many newly certified amateurs who have also joined the OVMRC. Thanks to Norm, VE3LC for his

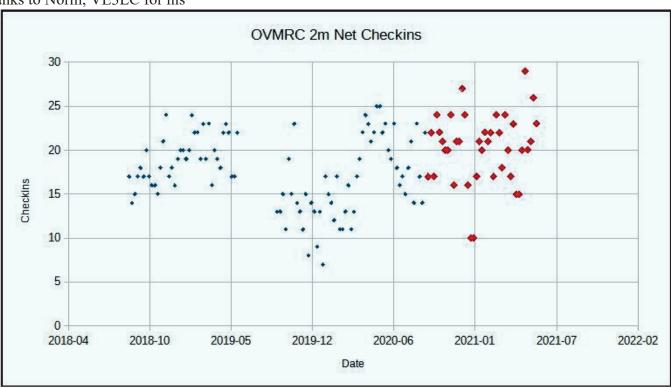
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continuing work in administering exams and encouraging new hams to join our Club.

The mainstay OVMRC 2 metre FM Net each Thursday night has been going strong with a continuing variety of discussion topics each week. Although one might think all we talk about on the nets is ham radio, there are nights when an innocent comment from someone will light a spark and galvanize all check-ins to voice their opinions. The night of the "Tilley Hat" comes to mind.

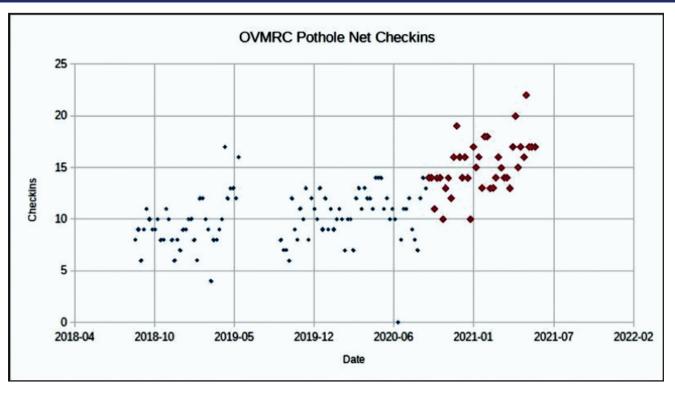
Readers will recall that we kept the 2 metre net running through the

summer last year instead of taking its traditional break during July and August. The chart that follows shows attendance having continued unabated and I'm glad the opportunity was there for many hams to join in among their other summer activities. Nevertheless, the net will be taking a break this year with the last session closing out the current season on June 24 and resuming on September 9. This doesn't mean people can't get together for an informal session on Thursday nights, only that it will be a free-for-all rather than the usual controlled format.



The OVMRC Pot Hole Net on 80 metres each Sunday morning has also experienced not only markedly increased attendance but also an increasing trend; see the following chart. Thanks to Ernie Jury, VE3EJJ and Glenn MacDonell, VE3XRA for leading this net as co-controllers. Despite coming off a rather extended period of low solar activity between Cycle 24 and 25, the Pot Hole Net has been busy even through some days when propagation has been very poor. It's somewhat counter-intuitive to see the increasing trend in attendance even as we're well into the summer when D Layer absorption becomes more dominant, but you can't argue with reality and I'm sure Ernie and Glenn join me in being pleased that checks-in are willing to tolerate

rotten conditions and tough it out to stay with the net. Ernie and Glenn have both offered to keep the net running again through the summer and a poll of attendees during the June 6 net confirmed a majority interest in keeping things going. The only known interruption to the schedule will be its suspension on June 27, which is the Sunday of Field Day.



The DEXNET digital experimental net which started up in November 2020 has seen limited attendance. so a re-think is in order about moving that net to a new frequency, new time/day, or whatever else to encourage more participation. A groups.io poll conducted before the net started up had operations in 2 metres as preferred over 6 metres, but attendance did not reflect the number of poll respondents and has fallen off over the past 3 months. My feeling about this is that, despite what the poll said, there are probably more people out there with SSB capability on 6 metres as a consequence of this band being incorporated in most modern HF radios, than having it on their 2 metre sets. So, the DEXNET will end the season on June 20 per the current schedule,

but tests will done during the summer on 6 metres to see how propagation behaves and perhaps attract a few new participants before starting up again formally on September 12. Anyone wanting to join in before the end of season can do so on Sunday nights, 7:30 p.m.. Signals are on 144.210 MHz., vertically polarized and we kick off the net on PSK-31 before switching to the mode-of-thenight.

Lastly, a few words about the Pot Lid Slow Speed CW Net, hosted by Roger, VE3XRR, Sunday mornings on 80 metres. Roger has served as Pot Lid net control for many years and has come to the decision that it's time to retire. With that bit of news, the search is now on for someone to take Roger's place as net controller and keep the Pot Lid Net going as it has been for more than 40 years. The last Pot Lid Net will take place on June 13, as it will not operate on Father's Day June 20 and, of course, Field Day on June 27. If a new Net Controller cannot be established during the summer, then the Pot Lid Net will cease operations, so if there's anyone wanting to step up, please contact Roger directly if you know his coordinates, or email to me, Hugo, ve3ktn@rac.ca and I'll pass it on to Roger.

Best wishes to everyone for an enjoyable summer, stay safe, stay cool and we'll meet again soon.

73, Hugo, VE3KTN.