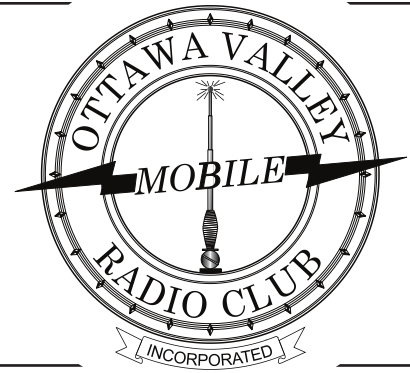


# Rambler

Newsletter of the  
Ottawa Valley Mobile  
Radio Club  
Incorporated



June 2020

Edition 57

Page: 1

## President's Ramblings

Since all public gatherings of more than 5 were not allowed, and all meeting venues were closed, we went ahead with our club trial Zoom meeting followed a week later with our first monthly virtual meeting via Zoom. Wow! What a success. We had a total of 51 members sign in and almost all stayed to the bitter end. Mind you, we did have a speaker with a riveting presentation about his contesting in remote Labrador. Thanks Chris, VE3FU for a very entertaining and informative presentation! Your efforts made a huge contribution to the success of our meeting.

This June Annual General Meeting (AGM) will also be conducted via Zoom and is an important meeting. This is the meeting where the 4 elected positions (President, Vice President, Secretary, and Treasurer) will either be acclaimed or there will be a vote

should others wish to run for the positions. So far, the current executive has volunteered to stay on for another year but any eligible club member may step up for one of the positions in which case there will be a vote during the meeting. Check the club by-laws for eligibility to apply for nomination. We will also ask the current directors if they wish to remain for another year or retire and create openings for new directors.

The announcement of reduced dues for current paid up members was confirmed at \$10.00 for next year. Don't worry if you have paid ahead, Nicole will transfer your account to the following year. There is of course no impact to Life Members.

There was a lot of excitement over Norm's article regarding Field Day rules since we will all be working independently this year. Stay tuned into groups.io for updates and there has been a few since the meeting

Now here is the thing I am most excited about. This meeting, we will draw for the year end door prize using the one arm bandit program Nicole has (Continued on page 4)

## INSIDE

President's Ramblings.....	1,4
OVMRC Repeater Nets.....	3
Cross Canada C4FM Weekly Net.....	3
Local 2 Metre Nets.....	3
Emergency Measures Radio Group.....	3
HF Nets.....	3
Restaurant Gatherings <b>Cancelled</b> .....	3
Motion to Accept Executive Officers.....	4
Financial Report.....	5-6
Meeting Minutes.....	6-8
Field Day 2020 Information.....	6-9
Fox Hunt Highlights.....	8-9
Who Invented the Incandescent Lamp.....	9
Vintage Light Bulb.....	10
Modern Lamp for COVID-19.....	10-11
ISED Announce 3500 MHz Action.....	11
OVMRC Net Activity Report.....	12-13
EMRG Repeater Test.....	13
Nets Year-End Report.....	14-15
Membership Form.....	16

## Calendar

### OVMRC Annual General Meeting

Wednesday June 17<sup>th</sup> 7:15 P.M.

This meeting will be by Zoom Video-Conference by way of email invitations sent out to all members of the Club. Guests, please request an invitation by sending an email to Norm at [VE3LC@rac.ca](mailto:VE3LC@rac.ca). The Zoom conference will be open for check ins and rag chew starting at 6:45 P.M.. Details for engaging in a Zoom tele-conference were posted in the April Rambler.

The agenda will include further instructions about individual **Field Day** operation.

## OVMRC Executive and Officers 2019-2020

### President:

**Barry Allison, VE3NA**  
[ve3na@rac.ca](mailto:ve3na@rac.ca)

### Vice-President:

**Norm Rashleigh, VE3LC**  
[ve3lc@rac.ca](mailto:ve3lc@rac.ca)

### Treasurer & Membership Records:

**Nicole Boivin, VE3GIQ**  
[nlboivin@sympatico.ca](mailto:nlboivin@sympatico.ca)

### Corporate Secretary:

**Ron Smith, VE3LBU**  
[rjs3.smith@gmail.com](mailto: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](mailto:ve3na@rac.ca)

### Radio Course &

#### Accredited Examiner:

**Norm Rashleigh, VE3LC**  
[ve3lc@rac.ca](mailto:ve3lc@rac.ca)

### Membership Services & Meeting Reception:

**Tom Mercer, VE3LJS**  
[tsmercer63@gmail.com](mailto:tsmercer63@gmail.com)  
**John McGowan, VA3JYK**  
[john.mcgowan1314@gmail.com](mailto:john.mcgowan1314@gmail.com)

### Nets & Radio Operations:

**Hugo Kneve, VE3KTN**  
[ve3ktn@rac.ca](mailto:ve3ktn@rac.ca)  
**Rob Haddow, VE3RXH**  
[rjhaddow@yahoo.ca](mailto:rjhaddow@yahoo.ca)  
**Nicole Boivin, VE3GIQ**  
[nlboivin@sympatico.ca](mailto:nlboivin@sympatico.ca)

### Rambler Newsletter Production:

**Norm Rashleigh, VE3LC**  
[ve3lc@rac.ca](mailto:ve3lc@rac.ca)  
**Robert Cherry, VA3AOD**  
[cw527@ncf.ca](mailto:cw527@ncf.ca)  
**Bill Hall, VA3WMH**  
[bmhall@rogers.com](mailto:bmhall@rogers.com)

### Club Web Site & Social Media:

**Darin Cowan, VE3OIJ**  
[ve3oij@amsat.org](mailto:ve3oij@amsat.org)

### VE3TWO Repeater Keeper:

**Norm Rashleigh, VE3LC**  
[ve3lc@rac.ca](mailto:ve3lc@rac.ca)

### Special Events:

**Roger Egan, VA3EGY**  
[va3egy@gmail.com](mailto:va3egy@gmail.com)  
**John McGowan, VA3JYK**  
[john.mcgowan1314@gmail.com](mailto: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](mailto:ve3lc@rac.ca)

**Ottawa Valley Mobile  
Radio Club, Incorporated**  
**PO Box 41145**  
**Ottawa, ON K1G 5K9**  
[www.ovmrc.on.ca](http://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 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, **2<sup>nd</sup> 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](mailto: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 area 2M SSB Round Table Net 144.250 Mhz

### 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 Roger, VE3NPO
- **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)*

come up with. The draw is based on the culmination of all of the monthly tickets members entered into the yearend door prize draw, locked box every month you attended a meeting during the past year. I hope you folks appreciate this because I really had to twist the arms of the executive to allow me to have not one but three, yearend door prizes. The prize is quite substantial. It consists of a Mirage B34G2 amplifier (2 to 5 watts in and 30 watts out) which essentially turns your portable into a mobile compatible contender on

the band. It also comes with a compatible power supply so the amplifier can also be used in a base station configuration. But wait, there is still more! I will make up an RF interface cable for your portable, include the appropriate SMA RF adapter AND convert the DC connections to Anderson Power Pole connectors. Three very lucky members will walk away with one of these prizes! The prize value is in excess of \$300.00. Good luck to all!

There is one unfortunate hook. I ordered the equipment a month

ago and delivery time is slow because of current conditions so I may have to offer pick up a little after the end of June, but the winners will get their prize. I never dreamed delivery would extend beyond two months, but this is a popular item because of the ability it has to increase the capabilities of your portable radio.

That's it for the June Ramblings.  
Talk to you on the nets.

Stay safe!

73

Barry, VE3NA

### ***Motion to Accept Executive Officers for the 2020/2021 Season of the Club:***

As of the time just prior to the publishing this June issue of the Rambler, the current executive committee of the Club has not received any nominations presented by the membership to challenge any of the four incumbent Executive Officer Positions (Directors) of the OVMRC as written as a requirement in the May Rambler newsletter. A motion, therefore, will be presented at the June 17<sup>th</sup> Annual General Meeting (conducted over a Zoom video teleconference by way of email invitation to the general membership) that the following members of the Ottawa Valley Mobile Radio Club Incorporated, while willing and able, serve another term conducting the affairs of the organization:

1. President: Barry Allison VE3NA
2. Vice President: Norm Rashleigh VE3LC
3. Treasurer: Nicole Boivin VE3GIQ
4. Secretary: Ron Smith VE3LBU

#### **Motion to be:**

- Moved by:
- Seconded by:
- Discussion if any:
- A show of "hands" in favour (as indicated by the hand-raise function of Zoom)

**OVMRC Financial Report as of June 7, 2020**

By: Nicole Boivin VE3GIQ

**Assets:**

Cash on Hand	\$74
Chequing Account (Cash deposits)	\$8005
Guaranteed Investment Certificates	\$22500
<b>Total</b>	<b>\$30,579</b>

**Income:**

Interest (mainly from GICs)	\$151
Membership	\$2165
Radio Course Fees	\$3500
50/50 and Donations	\$220
<b>Total Income</b>	<b>\$6,036</b>

**Expenses:**

RAC Club Affiliation and Insurance	\$514
Museum Meeting Room Rent	\$226
Christmas Party Prizes	\$198
Donations (DARF & RAC Scholarship)	\$1000
Miscellaneous	\$352
<b>Total Expenses</b>	<b>\$2,290</b>

<b>Sales (Cost &amp; Recovery to date):</b>	
<b>Radio Course Books (2047 – 2030)</b>	<b>\$-47 **</b>
<b>Coax, Connectors, etc. (1665-1191)</b>	<b>\$-474 **</b>
<b>Subsidized Projects (999-625)</b>	<b>\$-375</b>
<b>Total Sales Loss (to date)</b>	<b>\$-896</b>

\*\* Inventory still available

## Meeting Minutes

**Date / Time:** Wednesday, May 20, 2020 19:15

**Location:** Via ZOOM on line meeting

### 1. Call to order:

President, Barry Allison, VE3NA called the meeting to order at 19:16. There were 51 check-ins including our guest speaker for the evening, Chris Allingham, VE3FU/VO2AC.

### 2. Approval of minutes from previous meeting:

**MOTION:** Moved by Hugo Kneve, VE3KTN and seconded by Brian Rawlings, VE3QN that the minutes of the previous meeting held Wednesday, February 19, 2020, be approved. (no meeting held in March 2020 due to the pandemic).

**VOTE:** All in favour.

**CARRIED.**

### 3. Greetings:

Barry, VE3NA extended greetings to everyone including our guest speaker Chris Allingham, VE3FU/VO2AC and new graduates and members to the Club. Barry introduced Norm Rashleigh, VE3LC who reviewed

the ZOOM on-line meeting etiquette and the Zoom tools available for the participants.

### 4. Projects, Dues and Announcements:

Barry mentioned that progress on the 6-metre dipole kit is delayed, but not cancelled. Barry also announced there are still a few coaxial lightning suppressor kits available. Membership dues must be paid up to participate in both the monthly and year end draw prizes. Membership dues are valid for the September to August period. Check with Nicole to ensure you are current with your dues. The 2020 year-end draw will include 3 prizes, valued at \$300. Each prize is a 2 watt in and 35 watt out VHF amp and power supply (aka a "Brick"). Membership dues next year (September 2020 to August 2021) will be \$10.00. Members will be reminded by email of the June AGM date and time so please ensure your current email address is correct with Nicole.

### 5. Agenda and Meeting Content:

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

- Call for Nominations for Director positions for the next

year: Check the club website at [www.OVMRC.on.ca](http://www.OVMRC.on.ca) for the list of Directors who will manage the club's affairs next year. If challenges are to be made, Members must state them now before the Annual General Meeting to be held in June.

- A presentation from our guest speaker Chris Allingham, VE3FU/VO2AC on his portable operating adventure during the January 2020 CQ WW 160 M CW Contest. The base of operations, as in 2019, was the national historic site, Point St. Amour lighthouse, located on the south shore of Labrador. The participation category was high power multi-op and Chris' co-operators were Dave Goodwin, VE9CB and Frank Davis, VO1HP who also joined our OVMRC Zoom meeting. The operating location was CQ Zone 2 region, a valued contact location for DX'ers. After his 2019 operating foray there, Chris left most of the equipment in Goose Bay at his parents' home, which is also his remote operating location. This made the 2020 trip easier with less equipment to haul in. Chris was able to fly most of the way and drive a shorter distance to the lighthouse for the 2020 contest. Before the contest started on the Friday, Chris and Dave were able

to make a number of contacts including working the AMSAT FM satellite from some rare grids. In all, they had over 80 QSO's from 6 of the 7 grid squares in the area. Their shack equipment included Chris's TS 590 transceiver, a TL 922 800-watt amp, with an Acom 1010 as a backup. The team used N1MM logging software for the 48-hour contest. The site was set up in about 8 hours with an "inverted L" TX antenna with several radials (using blade terminals, as opposed to ring terminals). The RX antenna was a 200-foot "BOG" antenna. Operating as VO2AC, they also operated during the pre-contest period to provide JA/Asia hams with sought after Region 2, 160 and 80 M CW and FT8 contacts. Then during the contest period, using CW on 160 M, their results were 1648 QSO's, 58 S/P 85 DXCC earning 1.735 million points. The team achieved a #15 standing in world Multi-Op, a higher score than before but they did drop in the standings. The result also placed them 3<sup>rd</sup> highest in the Multi-Op score overall in North America. Before their departure, Chris was able to set up an Alpha-Delta DX-EE Fan Dipole antenna at the lighthouse which is available to any ham who visits the lighthouse. Hams will operate from this location as VO2MPR. Barry, VE3NA thanked Chris and his team for the most interesting presentation and presented Chris with a 'virtual' OVMRC mug.

- The Zoom on line break followed Chris's presentation.
- Financial Report by Nicole VE3GIQ:

Nicole reported that the Club's financial assets remain around \$25,000. Cash on hand stands at \$7500, GIC's at \$17,500 with only a few hundred in Accounts Payable. The club has made a \$1000 donation to RAC for DARF, (\$600) and Scholarships (\$400). The club is negotiating with RBC and other financial institutions that would provide the club with a low or no cost electronic banking service, including provision of electronic payment on line. Norm, VE3LC will be speaking with the TD Bank and Bryan, VE3QN, advised that BMO has a no charge "Community Account" that may be viable.

- Roger Egan, VA3EGY Mobile Fox Hunting Exercise update:

Roger shared a brief presentation describing who, what, when, where, and why of the pending Fox Hunt and its benefits for the Club. The OVMRC beacon will be turned on starting Sunday May 24 at 10 A.M.. The beacon will operate on 2 m at 147.585 located within a 10 km radius of the Bytown Market in Ottawa. The beacon will shut down Sunday, May 31<sup>st</sup> at 5 P.M.. Hunters will need a directional antenna (e.g. Arrow manufactured, or home brew) to work with a 2 M HT radio. Optionally, members may use an offset attenuator. The hunt can be done individually or in small groups, observing proper physical distancing. A demonstration video is found on the OVMRC website or in the Groups.io sub group. Members who think they have located the beacon, should email Roger at [egan.roger@yahoo.ca](mailto:egan.roger@yahoo.ca). Winners

will receive a commemorative certificate of their accomplishment.

- Prizes and Draws with Barry Allison, VE3NA:

The door prize for the Zoom meeting was two, 200-piece heat shrink tubing kits. The random draw was open to OVMRC paid up members that checked in, and conducted using Nicole, VE3GIQ's, software. Draw winners were Sandy Haggart, VE3HAZ and Richard Haberle, VA3HBL. The 50/50 draw is suspended during the current pandemic.

- Norm Rashleigh, VE3LC DIY Field Day Challenge:

Norm reminded members that due to the current pandemic, he has prepared a full guide for individual operating during this year's ARRL Field Day. The guide is available in the May Rambler on the OVMRC web site or on Groups.io. Members planning to work Field Day should contact Norm at [VE3LC@RAC.ca](mailto:VE3LC@RAC.ca) to let him know of their plan. Members should log all contacts and submit on line and mention their affiliation with the "Ottawa Valley Mobile RC". Individual scores will be shared and totalled later in the summer to determine how the club performed overall.

## 6. Upcoming contests:

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

<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/>

## 7. Adjournment:

**MOTION:** Moved by Barry Allison, VE3NA to the close the meeting at 9:10 P.M.; all were in favour.

## 8. Next meeting:

The next virtual monthly meeting of the OVMRC will be held Wednesday, June 17, 2020 at 7:15 P.M. using ZOOM meeting. The feature of the evening will be the Club's Annual General Meeting.

*Minutes recorded and prepared by:*

*Secretary*

*Ron Smith, VE3LBU.*

## Highlights from the Spring Mobile Fox Hunt

*By Roger VA3EGY*

This year we continued our tradition of organizing a spring Mobile Fox Hunt which was particularly challenging since we are still officially under a state of emergency and provincial orders not to participate in group activities more than 5 people. But, driving around in your car is OK!

We had a Frequency Offset Attenuator Kit purchase and build session back in February and so this event was the perfect time for some of you to try out (or in some cases finish building) your attenuator as part of your fox hunting gear.

We invited all the local clubs and even a few from up the Valley to participate.

The Fox was so well hidden, that a few people reported driving around for hours in some cases more than once and could not hear it.

So, after 2 days, we started issuing daily clues including pictures and hints on the OVMRC groups.io site.

The first clue was a small blue sign to the airport with an arrow pointing up on a curved road with a billboard sign in the background. Rob VE3RXH sent me a private email with the same picture but including the hotels which were on the other side of the street to show that this image was from Google maps street view. I asked him how he figured this out and he said – easy...first I noticed the billboard company name on the billboard so



I did a Google for locations of their billboards near the airport and then I looked for one on a curved stretch of road and then

switched to Google Streetview and clicked on the road near the sign and there it was. I'm sharing this to illustrate that there are many ways to catch a fox. Thanks to Rob for sharing his thinking process to hopefully give others some fresh ideas for future hunts.

Then Ann (VA3YYF) also sent me a picture of the billboard and said, I'm sure this is the one in your picture, but the ad has changed, which of course was also correct because I was using the Google Streetview image from a year or more ago. The clue was valuable no matter how you got there.

There were several people who offered constructive coaching on how to use different methods to help find the fox once in proximity, with both math and basic techniques. Thanks to Michael, VE3WMB; Hugo, VE3KTN; and Dave H., VE3KMV for taking the time to offer their insight to the rest of the group.

We received many emails from people saying how much fun they had and so we will be doing this again in the future. Depending on the pandemic situation over the next few months, this old fox has a few tricks up his sleeve so expect some additional challenges next time.

The results:

The fox was hiding at the QTH of member John McGowan, VA3JYK 2700 Saratoga Place.

Here are the participants and everyone is a winner, in order of when they reported finding the fox:

1. Team of Jeffrey Arcand, VA3PEW and Sana Abou-Shaaban, VA3SXA – May 27, 9 :43 PM
2. Hugo Kneve, VE3KTN – May 28, 11:50 AM
3. Rob Haddow VE3RXH – May 28, 7:45 PM



4. Emily Panter, VE3EMI –  
May 28, 10:16 PM
5. Dave Green, VE3TLY -  
May 29, 12:33 PM
6. Michael Babineau, VE3WMB -  
May 29 4:03 PM
7. Arthur Smith, VA3BIT –  
May 29, 9:05 PM
8. Elizabeth (Ann) King, VA3YYF  
May 30, 8:55 AM  
(2750 Carousel Crescent)
9. Raj Thukral, VA3RZT – May  
30, 1:17PM
10. Wray Jaques VA3EO -  
May 30, 4:26 PM
11. Pat Brewer, VE3KJQ -  
May 31, 4:21 PM  
(with just 39 minutes to spare!)

Congratulations to everyone. I will be issuing Certificates by email.

*73 Roger VA3EGY*

## So ... Who Really Did Invent The Incandescent Lamp?

*By: Hugo Kneve - VE3KTN*

Who invented the first practical electric incandescent lamp? Well, many would say it was Thomas Alva Edison, but there are other contenders:

- Canadians Henry Woodward and Matthew Evans
- Englishman Joseph Swan

Sir Joseph Wilson Swan, English physicist, chemist and inventor, developed a carbon filament,

vacuum envelope design that would operate reliably and over an acceptable time before burning out by the mid-1800s. His first practical lamp was developed by 1860 using a carbonized paper filament in a vacuum glass envelope. The first lamps had poor vacuum as the pumps of the time weren't particularly efficient and the lamps didn't last long. Dissatisfied, Swan went on to invent his own pump which provided a much better vacuum and an improved electric lamp was produced by late 1863. By 1878, his lamps were used to illuminate his own home and country mansion of Lord Armstrong at Cragside after which he was granted British patent 4933 in November 1880. By 1881 London's Savoy Theatre was fitted with Swan lamps as the world's first public building to use electric lighting and the world's first outdoor lighting was installed along Mosley Street, Newcastle-on-Tyne. Swan eventually developed a method of extruding fine nitrocellulose fibres which were used to make longer lasting filaments, a more robust and reliable lamp, and enabled establishment of the Swan Electric Light Company in 1881.

Canadian inventors Henry Woodward and Matthew Evans obtained Canadian patent 3738 in August 1874 for a carbon rod - nitrogen envelope design but were unsuccessful at commercializing the product and they sold their patent rights to Thomas Edison in 1879.

Thomas Alva Edison, inventor-entrepreneur extraordinaire, obtained U. S. patent 233898 on January 27, 1880 for his carbon filament - vacuum glass envelope design so, technically speaking, it was his implementation of the electric lamp that was first recognized in an official capacity beating out Swan's patent by almost a year. Its first practical use was on the Oregon Railroad & Navigation Company steamer Columbia, whose generator was furnished by the United States Electric Lighting Company whose chief engineer was Hiram Stevens Maxim, father of Hiram Percy Maxim, W1AW.

Edison's attempts at European and U.K. expansion of his light bulb business, the Edison General Electric Company, were frustrated by the competing Swan Electric Light Company and its U.K. patents in force at the time. This was resolved by the merging of interests into the Edison & Swan United Electric Light Company, known colloquially as "Ediswan", which produced and marketed an Edison-Swan merged design lamp in the U.K. As the U.K. patents were not registered in Europe, Edison was free to continue his business there unimpeded by any restraining efforts from Swan.

So, there you have it. Who really was the first to give the world the electric light? My vote goes to Joseph Swan, but you decide.

*73 - Hugo, VE3KTN*

## Vintage Light Bulb

After receiving Hugo's Light Bulb article, I decided to contribute to the topic with a few pictures of my "Vintage Incandescent Light Bulb" that I've kept for years in a desk drawer. As I recall, I purchased the bulb shown here in the early 1970's in an antique shop while I was travelling through Indiana on my BMW motorcycle. The bulb caught my interest because the filament seemed to be intact and it was obviously very old because it had the evacuation nipple at the top of the bulb. It would not surprise me if the bulb is now at least 100 years old. I believe it uses a "carbon type filament" told about in Hugo's article.

*Norm, VE3LC*



*Who knows how many years of service this darken bulb provided?*



*To our Amazement the Old Bulb still works!*

## A Modern Lamp for the Covid 19 ?

With all the concern these days of "keeping safe" from possible infection from the Covid 19 Corona Virus, I thought it may be a good idea to irradiate groceries brought into the house with high intensity Ultraviolet Light. I recalled I had stored away in my old desk drawer (along with my 100 year old light bulb) a 15 watt "Germicidal" 17" tube. I used this lamp years ago to erase "Erasable Programmable Read only Memory" (EPROM) devices. EPROMs are obsolete devices now but were popular in the 1970s and early 1980s when I was designing and building and programming micro-controllers. The germicidal tube was the same physical size as a standard 17" T8 florescent tube except it was made using a "fused

quartz glass" envelope with no inner phosphor coating thus allowing the low pressure mercury vapour discharge glow to radiate strong ultraviolet rays through the tube envelope that would otherwise be suppressed with a standard glass envelop of a conventional florescent lamp.

The old Germicidal lamp had a bold warning indelibly marked on the tube "See Caution Notice – PROTECT YOUR EYES FROM TUBE RAYS".

Unfortunately, for some reason, my old germicidal tube no longer worked and a replacement GE "G15T8" tube was going to be difficult to source at a reasonable price.

So I referred to "Amazon" to see what they sold as a "Germicidal" lamp and came across many

products that claimed they were effective killing germs, but we're they? A good understanding of UV light and its germicidal properties (or not) was in order.

UV refers to a broad spectrum electromagnetic radiation ranging from 10 nm to 400 nm (or approximately 30 PetaHz to 750 TeraHz). Short wavelength UV in the range of 100 to 280 nm, known as UVC, is required to cause damage to cellular RNA and DNA thus preventing bacteria and viruses the ability to replicate and infect; the optimal wavelength being 254 nm. In addition, if the germicidal lamp also emits energy at 185 nm, it will produce Ozone gas which is the trioxygen allotrop (O<sub>3</sub>) of oxygen (as opposed to the more common and stable dioxygen allotrop of oxygen (O<sub>2</sub>) that, of course, sustains our life). The

quartz glass on some UVC lamps may be doped to suppress this specific 185 nm wavelength and therefore these lamps would not generate ozone. However, ozone gas itself is also a disinfectant that has a strong oxidizing and bleaching effect. Both the UVC radiation and the production of ozone can be harmful to biology and human health if exposed. So any disinfecting procedure in any room or area using germicidal lamps should be done with great care and caution to exposure and not carried out while occupied by living organisms (plants, animals

and humans included). Ozone gas has a distinctive odour similar to chlorine. It can cause respiratory distress. However, once rooms are well ventilated, it leaves no residual health effect other than a sense of freshness.

For a fuller understanding of UV radiation over the entire UV spectrum refer to: <https://en.wikipedia.org/wiki/Ultraviolet>

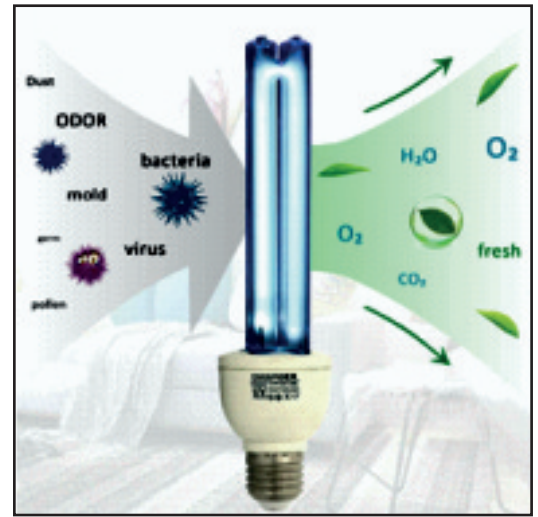
The germicidal lamp product I purchased from Amazon (and stocked in Canada) was similar to a compact florescent bulb with an E26/E27 screw base and rated at 36 watts with the brand name "CooSpider". It seems a popular buy because the price keeps increasing.

So far, I've applied it to disinfecting the packaging of store purchased groceries within the enclosed confines of the

trunk of my car. There is definitely a smell of ozone when I open the trunk lid. I've also used in rooms at the cottage and it seems to remove the musty smell of the place. I'm not endorsing these techniques or the product and anybody purchasing and using this or other UV light products, should do their own homework and be very aware on how to use UV lamps safely.

Maybe I can again erase my old EPROM devices!

*Norm, VE3LC*  
[VE3LC@rac.ca](mailto:VE3LC@rac.ca)



## ISED Announce 3500 MHz Spectrum Auction for 5G for June 2021

On June 5<sup>th</sup>, the Honourable Navdeep Bains, Minister of Innovation, Science and Economic Development Canada announced a 6 month postponement of the 3500 MHz spectrum auction now scheduled for June 15<sup>th</sup>, 2021. The full ISED time table document can be seen at:

<https://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11586.html>

In particular, the Band Plan extends from 3450 to 3650 MHz composed of 20 unpaired blocks of 10 MHz that will support both 4G LTE and 5G "New Radio" equipment.

For microwave amateur radio operators, please note that this spectrum space overlaps in part with the current secondary allocation for the amateur service of 3300 to 3500 MHz as defined in

the current Canadian Table of Frequency Allocations and document RBR-4.

Don't be surprised if amateurs lose a portion of this band in the next year or two.

*Norm, ve3lc*

## OVMRC Net Activity, Check-ins for Last Month.

Prepared by: Hugo Kneve VE3KTN

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

May 3	May 10	May 17	May 24	May 31
VE3XRA - NCS	VE3XRA - NCS	VE3EJJ - NCS	VE3XRA - NCS	VE3EJJ - NCS
<b>New &amp; Visitors</b>	<b>New &amp; Visitors</b>	<b>New &amp; Visitors</b>	<b>New &amp; Visitors</b>	<b>New &amp; Visitors</b>
VA3YB		VE2NHN	VA2GN VE3BOW	VA3DOW
<b>General Check-ins</b>	<b>General Check-ins</b>	<b>General Check-ins</b>	<b>General Check-ins</b>	<b>General Check-ins</b>
VA2EEK VE3NPO VE3XRA VE3MKX VE3LC VE3KTN VE3EKN VA3BGO VA3PCJ VA3EO VA3ZTF VE3NA VE3EJJ	VA3ZTF VE3LC VE3EJJ VE3KTN VE3NA VA3BGO VA3YYF VE3EKN VE3KAE VA3YB VA2EEK VE3NPO VA3EO	VE3MKX VE3KTN VE3XRA VE3NPO VE3KAE VA3PCJ VA3YYF VA3BGO VE3NA VE3LC VA3EO VA3BIT	VE3XRA VA3EO VA2EEK VE3EJJ VE3KTN VE3NPO VE3KAE VA3BGO VE3EKN VA3BIT	VE3MKX VA3ZTF VA3BGO VE3XRA VE3EKN VE3NA VE3KAE VA3PCJ VA3BIT VE3BF/p

## EMRG monthly Repeater test - June 3<sup>rd</sup>

*“Repeater test went well, good turnout, all repeaters check out OK. Test duration was 50 minutes.*

*Thanks to Jean, VE2OCQ; Mike, VE3KOY (mobile); Tim, VA3PYC; Jocelyn, VE3JCT; Mike, VE3FFK;*

*Hugo, VE3KTN; Barry, VE3NA; Norm, VE3LC; and Don, VA2EEK.*

*Dave, VE3KMV”*

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

May 7	May 14	May 21	May 28
VE3KTN - NCS	VE3KTN - NCS	VE3RXH - NCS	VE3RXH - NCS
<b>New &amp; Visitors</b>	<b>New &amp; Visitors</b>	<b>New &amp; Visitors</b>	<b>New &amp; Visitors</b>
VA2RWN			
<b>General Check-ins</b>	<b>General Check-ins</b>	<b>General Check-ins</b>	<b>General Check-ins</b>
VE3GIQ VA3JYK VE3LAF VE3NA VE3LC VA3EGY VE3XEM VE3LBU VE3NPO VA3KDQ VE3OKD VE3KAE VA3EO VE3ZZU VE3KMV VA3MVW VE3WNX VE3KJQ VE3RXH VE2BJZ VA3BGO VE3VIG VA3HJR	VE3NA VA3JYK VE3LC VE3LBU VA3EGY VE3XEM VE3KAE VA3MVW VE3TXB VA2EEK VA3YYF VE3RXH VA3BGO VA3EO VE3YDK VE3LAF VA3VGR VE3EJJ VE3ZZU VA3HJR VE3FNG VE3VIG VE3TSC VE3KMV	VE3XEM VE3NA VA3EGY VE3LC VE3GIQ VE3TSC VE3KAE VE3NPO VE3ZZU VE3LBU VA3YYF VE3LAF VA3EO VE3KTN VE3WMB VA3JYK VE3KJQ VA3BGO VE3FNG VA3MVW VA2EEK	VE3ZZU VE2KOI VE3HAZ VA3JYK VE3NA VE3LC VE3GIQ VE3LBU VA2EEK VE3NPO VE3KAE VE3LAF VA3BGO VE3KJQ VA3EO VE3KTN VE3VIG VA3VGR VE3KMV VE3OKD VA3IAH VA3ORL

---

## Year-End Nets Report

*Hugo Kneve, VE3KTN,  
Nets & Radio Ops Chair*

### Summary

So, here we are at the end of another season, soon to culminate with Field Day 2020. It has been a year of change beginning with the handover of Nets & Radio Ops from Ken, VE3EKN over to me in the months leading up to the start of the new season in September 2019. Since that time, it certainly has been a pleasure and something of a learning experience for me in continuing the OVMRC 2 metre net on Thursday evenings; a task that was made easier by sharing net control duties with Rob, VE3RXH. The Pothole and Potlid Slow Speed CW Nets on 80 m continued seamlessly under the leadership of Ernie, VE3EJJ and his wingman Glenn, VE3XRA and Roger, VE3XRR respectively. Thanks to them for their leadership.

At the outset of the 2019-20 season, I thought it would be of interest to log the number of check-ins and keep a chart as the season progressed. You may note that the charts aren't entirely complete until the season end

which will be Field Day weekend, but I think there is enough information now to give everyone a good idea of how much nets support we had throughout the 2019-20 season compared to similar statistics of the 2018-19 season. The charts appear at the end of this article.

### Pothole Net

Most readers will know that the Pothole Net runs from the first Sunday in September until the last Sunday before Field Day the following year, and that convention will remain this year. There was some thought about continuing the net into the summer but propagation on 80 metres, combined with the extended run of low solar and geomagnetic activity between Cycles 24-25, makes it impractical to attempt continuing in the summer months. I'm sure Ernie and Glenn would, no doubt, look forward to the break as well.

### Thursday 2 metre Net

The Club's Thursday FM net continues to attract a large number of check-ins, so it's been decided to continue into the summer on a

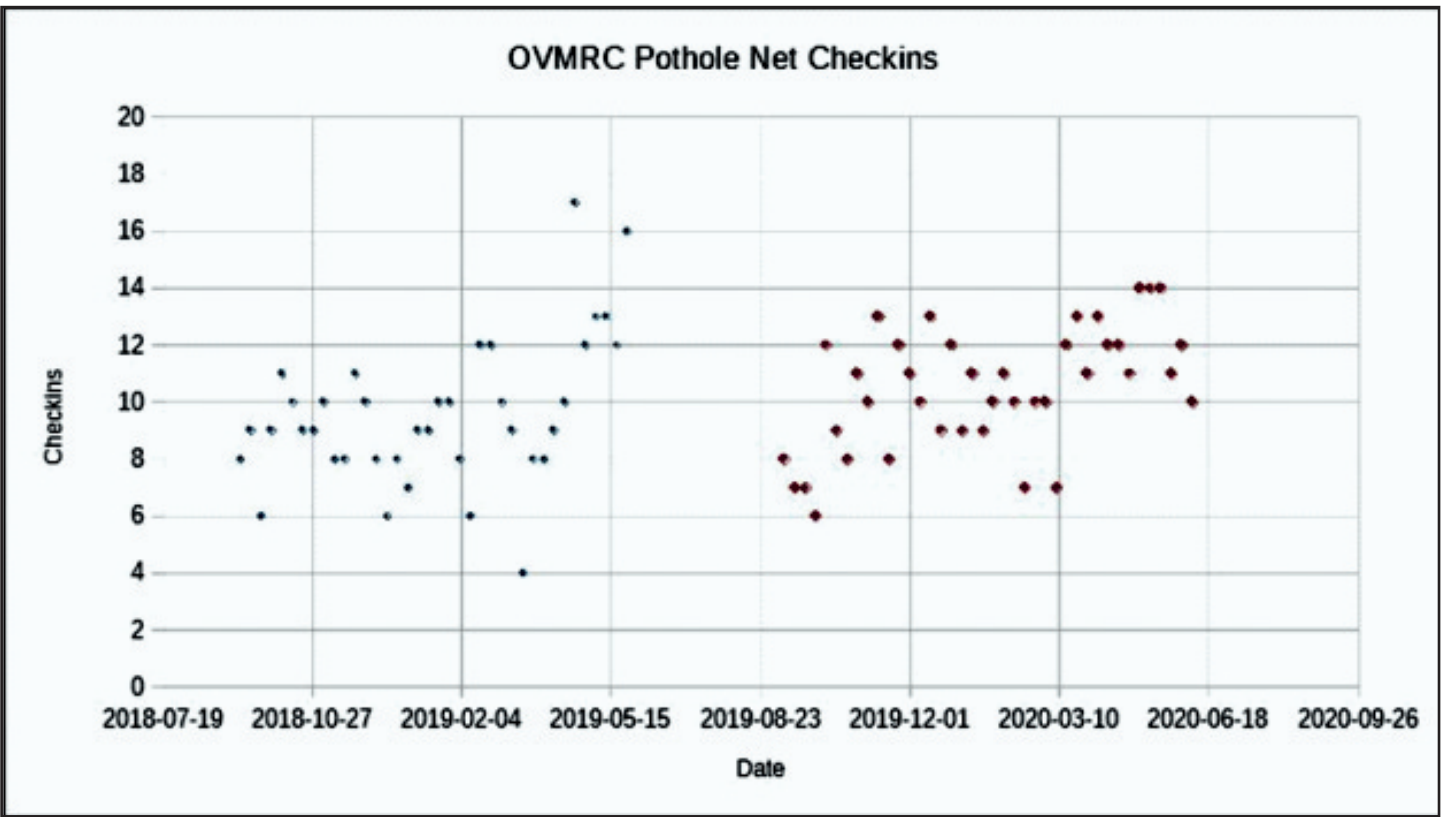
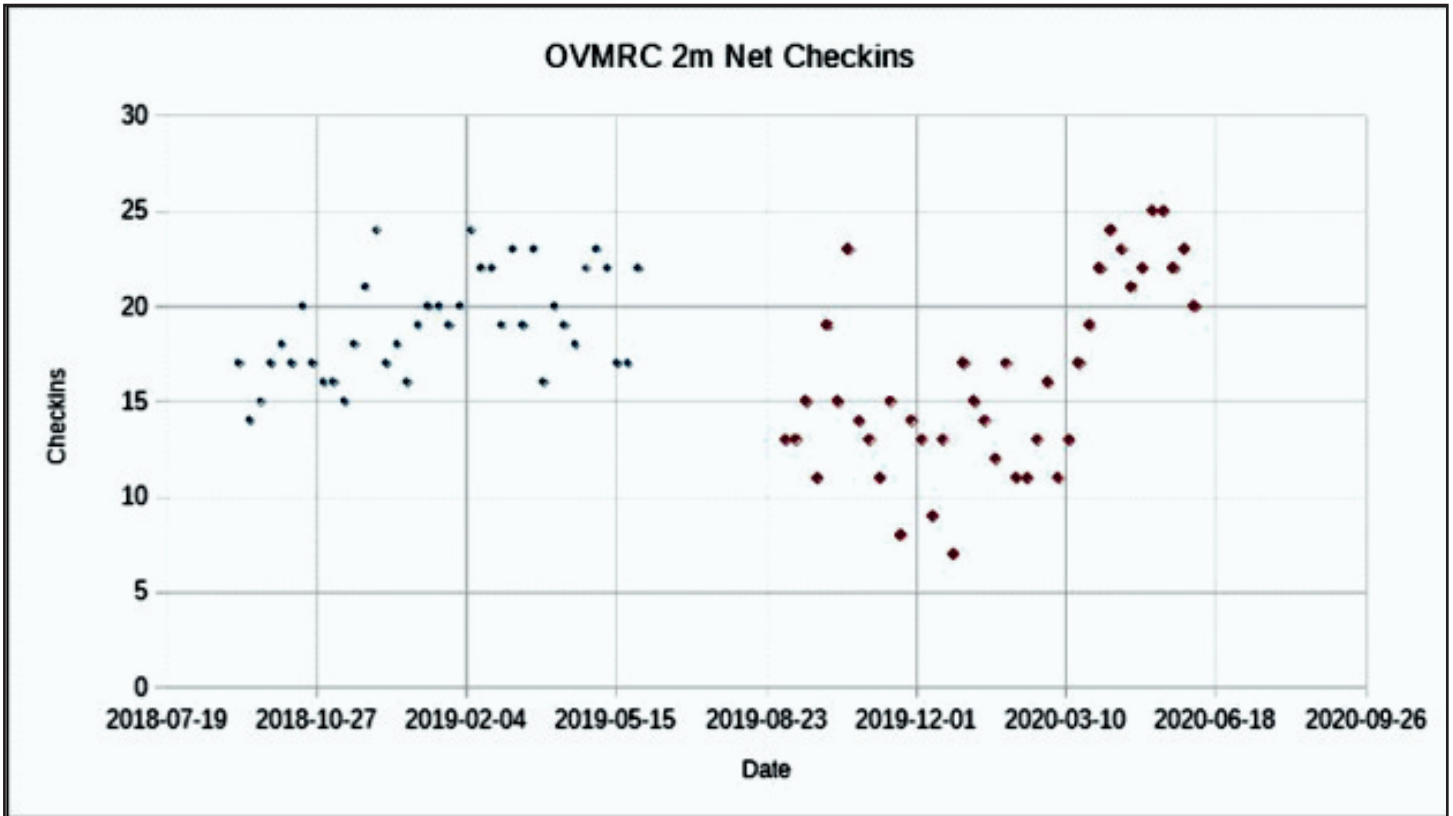
somewhat less formal basis. The sked will be the same, Thursday evenings at 8 P.M. EDT, however we'll dispense with most of the usual preamble and invitations to Club Executive to lead off. The net will simply start off with a welcome and then proceed directly to check-ins with a view to giving more time for participants to chat.

I would also highlight that Rob, VE3RXH, has decided to stand down from net control duties which presents an opportunity to any other Club members who may want to step up for sharing 2 m net control with me starting with the new official season in September. Anyone wanting to join in as net control, please contact me: [VE3KTN@rac.ca](mailto:VE3KTN@rac.ca). Thank you Rob for sharing the load with me this past season.

That's it for now, and thanks to all for supporting the OVMRC Club nets.

73,  
*Hugo - VE3KTN.*

---



# 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

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

Signature _____	Date _____	<input style="width: 80%; height: 40px;" type="text"/>	<p><i>By initialing this box, I confirm that I consent to receiving e-mail messages from the Club.</i></p>
-----------------	------------	--	--