

Rambler

Newsletter of the
Ottawa Valley Mobile
Radio Club
Incorporated



May 2017

Edition 61

Page: 1

President's Ramblings

It was a full house for our April meeting. Attendance was 36, a pretty good showing for our guest speaker, Dave Conn, VE3KL giving a presentation on HF Wire Antennas. Dave sent me an email after the meeting and said he was very impressed with the interest that OVMRC club members showed in his presentation and the interesting activities the Club is doing. He also indicated that his presentation on HF Wire Antennas is now posted on his web site at www.ve3kl.com and folks are free to download it.

Another feature of our April meeting was having Bill Hall, VA3WMH attend and receive an award for his long and continuous service to the OVMRC producing the graphics and layout for our monthly Rambler Newsletter since 1999. Bill isn't presently active in amateur radio and hasn't attended too many of our meetings over the years, and as a consequence, this is the first time most of our membership had a chance to meet Bill and pay tribute to him for his good work. Thanks Bill for all you have done and continue to do for the OVMRC; it is very much appreciated!

On April 10th, the OVMRC's "Test your Radio Workshop" attracted a good group of folks wanting to see

how their VHF/UHF portable and mobile radios performed. We tested Rx sensitivity, Tx RF power output, CTCSS tones, FM modulation level, and using a spectrum analyser, we could measure the amount transmitter harmonic level output coming out of each rig submitted for testing. It was interesting that several Baofeng radios tested had relatively high harmonic output just a bit better than 40 dB below carrier whereas for the Yaesu and Kenwood radios tested, the harmonic output was so low, it didn't show on our Rigol spectrum analyser. We also had a laptop computer handy at the meeting to program a few Baofeng radios with an already prepared profile for locally used repeater and simplex channels and other frequencies of interest. Thanks to Barry, VE3NJK for bringing out his equipment that helped to make this event possible.

By the time this newsletter goes to press, the CN Bike Ride for CHEO for this year will be history. There is a fair contingent of radio club members in the NCR that will be volunteering their time to provide radio communications for the event; I myself intend to ride "Patrol" on the 35 km route to report back any issues and problems with riders. My bike is already outfitted with a 5/8 wave mobile whip and Yaesu FT1D portable radio capable of APRS (Continued on page 3)

INSIDE

President's Ramblings.....	1,3
Hamfests & Flea Markets	3
2 Metre Nets.....	4
OVMRC Repeater Nets.....	4
Contest Calendar.....	4
X-Canada C4FM Weekly Net.....	4
What's Happening Elsewhere?....	4
Thank You Presentation.....	5
Interference Causing Equipment...	5
Electronic Device Tester.....	6
Dave Conn, VE3KL photo.....	7
Trump Supporters on JT 65.....	7
Net Activity Report.....	8
Meeting Minutes.....	9-10
Membership Form.....	11

Meeting Dates

Club Meetings:

Monday, May 8th
7:30 P.M.

Workshop

Aviation Museum

Classroom

Planning and Participation Meeting for
OVMRC Transmitter Hunting Event on

Saturday, May 27th

Wednesday, May 17th
7:30 P.M.

OVMRC Meeting

Aviation Museum

Bush Theatre

Speaker: Norm VE3LC

Topics:

- Field Day 2017 Briefing
- Transmitter Hunt Briefing

OVMRC Executive**2015-2016****President:** Norm Rashleigh, VE3LCve3lc@rac.ca**Vice-President:** Barry Allison, VE3NJKve3njk@rac.ca**Treasurer:** Nicole Boivin, VE3GIQovmrc.treasurer@gmail.com,**Secretary:** Frank Fullum, VE2KOIVE2KOI@rac.ca**Standing Committee
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For information about the duties and responsibilities about all Executive and Chair positions, please visit the OVMRC forums, Member section or contact any member of the Executive.

Sponsors

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

• **KENWOOD ELECTRONICS
CANADA INC.,**

Mississauga, ON

• **METAL PROS,***"The Small Quantity Metal Shop"*

Ottawa, ON

Web site: www.metalpros.com• **PEPPERS RADIO SALES,**

Rockland, ON

Email: peppersradio@videotron.caWeb site: www.peppersradio.net• **RADIOWORLD TORONTO**Web site: www.radioworld.ca**OVMRC Life Members**

Ernie Jury, VE3EJJ

Maurice-André Vigneault, VE3VIG

Ralph Cameron, VE3BBM

Doug Carswell, VE3ATY

Doreen Morgan, VE3CGO

OVMRC Repeater

VE3TWO

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

Amateur Radio Exhibit**VE3JW**

Web site:

ovmrc.on.ca/ve3jw.htm

Canada Science & Technology
Museum

*Is temporarily off the air due to the closure of
the Canada Science and Technology Museum*

Visit the OVMRC Store

at

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

The Rambler is the official newsletter of the Ottawa Valley Mobile Radio Club Incorporated and is published 11 times a year (monthly, except for July). Opinions expressed in the Rambler are those of the authors and not necessarily those of the OVMRC, its officers or its members. Permission is granted to republish the contents in whole or in part, providing the source is acknowledged. Commercial use of the contents is expressly prohibited.

Submit articles to the editor or by e-mail to:

[Robert Cherry, VA3AOD](mailto:Robert.Cherry@VA3AOD)

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

(Continued from [page 1](#)) position beaconing. We will have a full report on this year's event at the May meeting.

We have decided that our May 17th General Meeting will focus on Field Day (FD), what's it's all about, where it's happening, what are the FD rules and a slide show of past FD photos. This will be followed on June 12th with a Workshop meeting to plan the layout for the actual site setup and what folks are responsible for gear and operations and safety. This will include representatives from other clubs for the combined FD operation that is planned for this

year at the RCMP camp grounds, Long Island.

Our May meeting will also inform participants about the final details for the May 27th OVMRC transmitter hunt that we are planning in an area along the trails of the Sir George Étienne Cartier/Rockcliffe Parkway. This will be a hiking event using your 2 Mtr FM portable to seek out two hidden transmitters operating on two different frequencies. The start time to assemble will be late morning at a specified parking area and besides coffee and donuts provided by the Club, it will be a bring your own lunch affair. A planning and participation meeting for this event will be conducted on

Monday evening May 8th at the Aviation Museum to discuss conducting the event and directional antennas and techniques to use by participants.

The Club is also planning to have an information table at the Smiths Falls Flea Market Saturday May 13th. Any club members that wish to wave the OVMRC flag at the table to help recruit new club members and students for the radio course, contact me before the event.

May should be good month of OVMRC events and activities.

Have fun with it all!

73 de Norm Rashleigh, VE3LC
ve3lc@rac.ca

Other OVMRC Events to put on your Calendar:

- **Monday, May 8th, 7:00 pm**, Aviation Museum, Planning and Participation workshop for May 27th Transmitter Hunt Event.
- **Wednesday, May 17th, 7:00 pm**, Aviation Museum, General meeting, Presentation to be determined.
- **Saturday May 27th, 10:30 am**, OVMRC transmitter hunt and picnic, gathering location TBD.
- **Monday, June 12th, 7:00 pm**, Aviation Museum, Planning and Participation workshop for June 24th-25th Field Day.
- **Wednesday, June 21st, 7 pm**, Aviation Museum, Annual General Meeting.

Friday, Saturday, Sunday, June 23-25, Annual Field Day event, location RCMP Campground Long Island.

Upcoming Hamfests and Flea Markets:

3rd Annual Simcoe County Hamfest

Barrie Amateur Radio Club Inc.
Starts on Saturday, May 6, 2017
Barrie Ontario

eton.ca/rac/events/detail.php?event_ID=1871

33rd Annual Smiths Falls Flea Market

Rideau Lakes Amateur Radio Club
Starts on Saturday, May 13, 2017
Smiths Falls, Ontario

eton.ca/rac/events/detail.php?event_ID=1844

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

- **Rubber Boot Net**, VE3MPC 147.150 + work day mornings at 7:30 am conducted by Mike Parris, VA3TJP
- **QCWA Chapter 70 Net**, VE3MPC 147.150 + Monday evening at 7:30 pm conducted by John Barnhardt, VE3ZOV
- **Capital City FM Net**, VE2CRA 146.340 – (100 Hz tone), Monday evenings at 8 pm
- **Champlain Mini Net**, VE3STP 147.060 – (114.8 Hz tone), every evening at 6:45 pm

OVMRC Repeater VE3TWO :

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

VE3TWO Scheduled Nets:

- **Wednesday Evenings, 9 PM**, Across Canada Net, C4FM Digital Voice facilitated by Denis VE3BF.
- **Thursday Evenings, 8 PM**, Club Net on Analogue FM conducted by Ken VE3EKN.
- **Sunday Evenings, 8 PM**, Ottawa Digital Voice C4FM Net conducted by Denis VE3BF.

What's Happening Elsewhere!

Check it out; let us know what's going on in your club.

Ottawa Amateur Radio Club (OARC)

www.oarc.net/blog/:

Ottawa Valley QRP Society:

www.qsl.net/va3ovq/VA3OVQ/Welcome.html

The Ottawa Valley QRP Society is a group of Amateur (Ham) Radio operators in the Canadian National Capitol Region with an interest in QRP (low-power) operating, equipment homebrewing and antenna experimentation. The group holds the Amateur Radio call sign VA3OVQ. Membership is free and open to anyone in the National Capitol region with an interest in low power Amateur Radio.

Our monthly dinner meetings are :

Contest Calendar

For all contest information goto:
hornucopia.com/contestcal/

May 27 – 28, CQ WW WPX Contest, CW
cqwpw.com/rules.htm

June 10 – 12, ARRL June VHF Contest,
arrl.org/june-vhf

June 24 – 25, ARRL Field Day,
arrl.org/field-day

July 1, RAC Canada Day Contest,
wp.rac.ca/canada-day-contest-rules/

Cross Canada C4FM Weekly Net

Wednesdays 9PM Eastern
02:00 UTC
Room 28329 on the
Yaesu Wires-X network

Map of Canada showing regional call signs: Yukon Territory (Whitehorse), Northwest Territories (Yellowknife), Nunavut, British Columbia (Victoria), Alberta (Edmonton), Saskatchewan (Regina), Manitoba (Winnipeg), Ontario (Ottawa, Toronto), Quebec (Quebec City), New Brunswick (Fredericton), Nova Scotia (Halifax), Prince Edward Island (Charlottetown), Newfoundland and Labrador (St. John's).

DON'T HAVE A NODE?
LOG IN VIA ONE OF THESE
PARTICIPATING REPEATERS
VE1XK VE1BFB VE9SUX VE3TWO VE3RDX VE3RDX VE3RDX
VE3RDK VE3YHD VE3YQK VE3EOD VE5MBX VATREF

At 5:00 P.M. on the second Wednesday of each month at Donna's Express Restaurant at the corner of Churchill and Scott Streets in Ottawa.

We have an online discussion group on Yahoo Groups called ov-qrp.

See:

groups.yahoo.com/group/ov-qrp/ for details or email va3ovq at qsl.net.

Rideau Lakes Amateur Radio Club (RLARC)

ve3rlr.dyndns.org/:

West Carleton Amateur Radio Club

www.wcarc.on.ca

VE3ORF/3730 Group

www.ve3orf.com/

CRAO Club Radio Amateur Outaouais (CRAO)

A Thank You Presentation

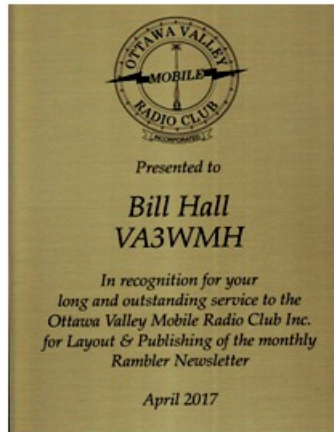
to Bill Hall, VA3WMH for Production of the Rambler Newsletter.

William (Bill) Hall, VA3WMH has been producing the OVMRC Rambler since 1999, the year he graduated from the OVMRC radio course obtaining his Basic, Advanced and Morse code qualifications. He initially got on-the-air using a 2 metre portable and was active for a short while as Net Control Station on the OVMRC 2 metre repeater net. Bill also purchased an HF – VHF-UHF transceiver and used it with an attic antenna but his progressive hearing loss made it more and more difficult to carry on with amateur radio activity. Bill now hears with a cochlear implant which has restored a measure of hearing but Bill says he still has great difficulty

hearing properly in noisy environments.

Bill's interest in amateur radio and involvement with the OVMRC followed a 29 year career with the Canadian Armed Forces (RCAF) and he says in retirement, he is also busy producing a quarterly newsletter and web site maintenance for another organization. Bill mentioned that back in 1999 when he first offered his services producing the Rambler, the job also included printing and mail distribution to the membership at a significant cost of \$2159.59. Thank goodness to distribution over the internet; those costs to the Club have been reduced to zero.

Bill Hall attended our April 19th meeting and was introduced to the OVMRC membership and was thanked for his past and continuing volunteer contribution to the Club for producing the Rambler Newsletter. Thank you Bill !



Norm Rashleigh, VE3LC (left) presents Bill Hall, VA3WMH his award at the OVMRC April meeting. In accepting his award, Bill said he still enjoys producing the Club Newsletter for the OVMRC but also said it is only as good as the material contained in it. He reminded OVMRC Club members to contribute content regularly to the publication.

Interference Causing Equipment Standard (ICES) 005, Issue 4

"Lighting Equipment" from ISED (formerly known as IC)

I made mention of this ICES document at the April meeting. Although written and released by the Department in December 2015, it only came into effect December 2016. All lighting equipment including the now popular LED light bulbs must meet the requirements of this standard so as not to cause significant radio frequency interference. Formerly, previous issues of ICES 005 covered only radio frequency interference generated by electrodeless RF excited gas tube lighting. It is now illegal by the general provisions of the Radio Communications Act of Canada to market any lighting equipment that is not ICES 005 tested and certified.

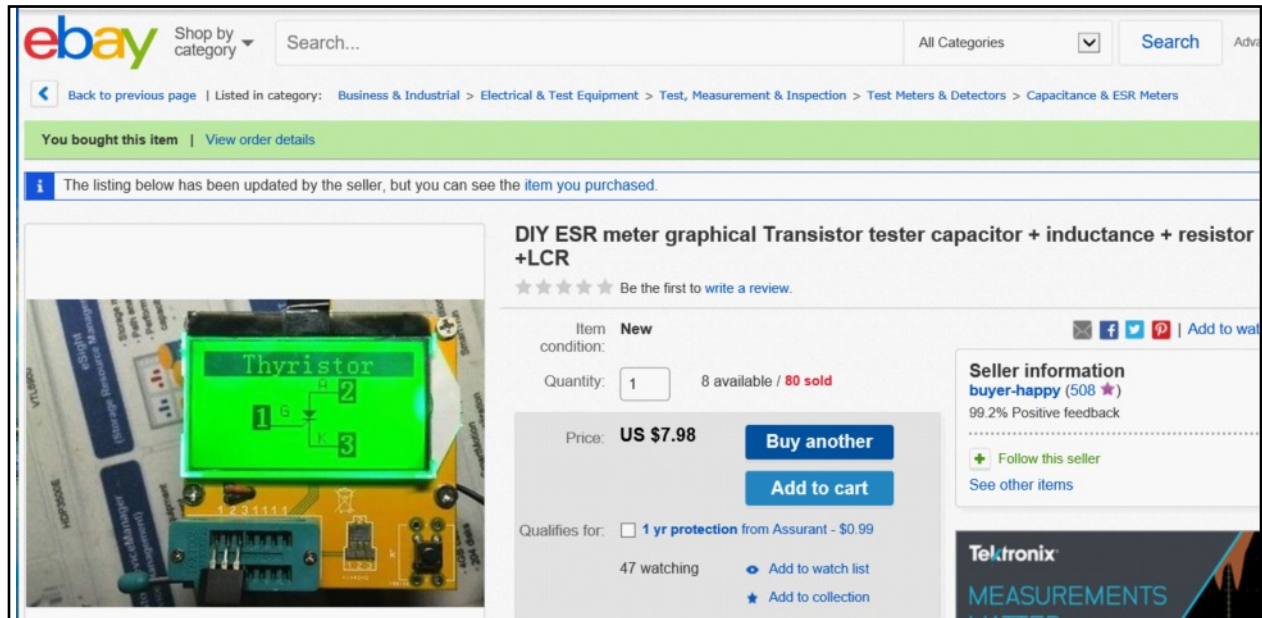
Lighting devices and equipment not certified under ICES 005 may cause significant RFI making it miserable for radio amateurs to receive well on the ham bands. Ensure especially that new LED bulbs purchased include on the packaging compliance to ICES 005. Previous to ICES 005 coming into effect, some manufactures (such as Phillips) tested their lighting devices according to the criteria of ICES 003 (IT & Digital Apparatus). You may still see some LED bulbs on the shelves having this certification on the packaging. Avoid purchasing LED bulbs (or any other lighting devices using a switching power supply) that does not show the Innovation, Science and Economic Development (ISED) certification to ICES 005.

Google "ICES 005" for the full certification requirements document from the Department.

de Norm ve3lc

Electronic Device Tester you can buy on eBay

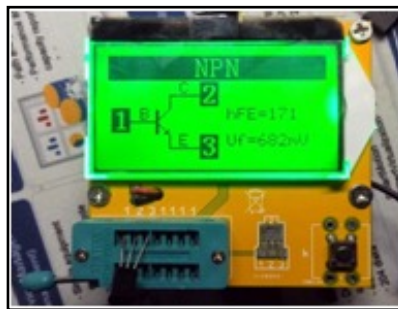
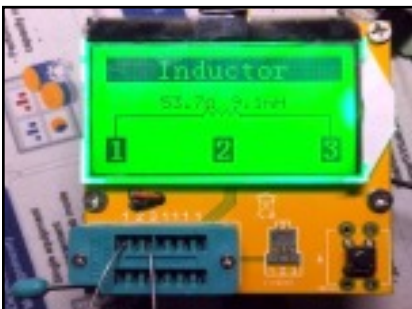
It's amazing the small inexpensive devices and test equipment you can purchase on-line these days. Here is a small circuit board instrument available on eBay for approximately \$11.00 Cdn (including shipping) from a Chinese vendor.



The instrument came in a small padded shipping envelope. Some assembly was required to solder in place the zero-force component socket, the push button and 9 volt battery connector wiring. All surface mount components and the display module were already installed on the board. Assembly took about 10 minutes. The instrument tests the following components:

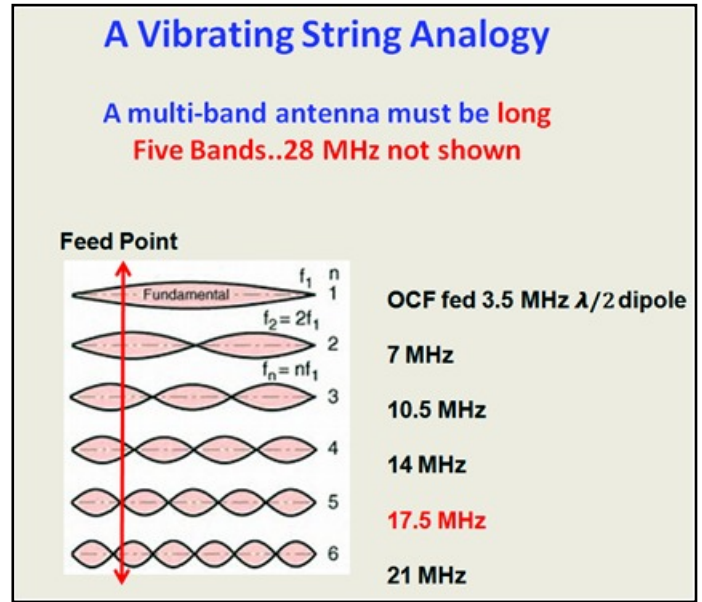
- Transistors (automatic detection NPN-PNP, p & n channel MOSFETs & JFETs Diodes, Thyristor, Resistors, Capacitors, Inductors, etc.
- resistor range 0.1 Ohms to 50 mOhm
- capacitance range 25 pf to 100,000 μ f
- inductance range 0.01 mH to 20 H
- Zeners less than 4.5 volts

Other screen images:





One of Dave's slides from his presentation.



Dave Conn, VE3KL accepts his OVMRC Mug after his very tutorial presentation on "HF Wire Antennas" to the OVMRC at the April meeting.

It seems Trump supporters are on JT 65!

It was the evening of the Trump Rally in Harrisburg, PA and the White House Correspondents Dinner was also happening. At the same time I was casually making a few contacts on 160 M on JT 65 and also watching CNN.

While using the WSJT-X application, I noticed some un-identified ham transmitting the text "Trump U.S.A.". I'm sure Trump's rally inspired the transmissions. See arrow on screen capture to the right. I was waiting for a counter political message, but nobody took the bait. Good thing!

OVMRC Net Activity, Check-in during the last month

Prepared by: Ken Evans, VE3EKN

OVMRC POT HOLE NET Report – 3760 kHz SSB Sundays at 10 AM local time

April 2	April 9	April 16	April 23	April 30
VE3BAE	VE3EJJ	VE3BAE	VE3LC	VE3BAE
VE3BF	VE3LC	VE3LC	VA3PCJ	VE3LC
VE3LC	VA3PCJ	VA3ZTF	VE3EKN	VE3BF
VE3EKN	VE3KI	VE3XRA	VA3BGO	VE3XRA
VA3BGO	VE3EKN	VE3EKN	VE3EJJ	VE3EKN
VE3EJJ	VE3NPO	VE3BF		VE3EJJ
	VE3XRA	VE3EJJ		

OVMRC 2 METRE NET Report -

VE3TWO repeater 147.300 MHz + 100 Hz tone, Thursdays 8 PM local time.

March 30	April 6	April 13	April 20	April 27
VE3LC	VA3ZTF	VE3LC	VE3LC	VE2OCQ
VE3BF	VA2EEK	VA3JYK	VE3BF	VE3ZZU
VE3GIQ	VA3HWA	VE3DHE	VE3GIQ	VE3LC
VE3LBU	VE3GIQ	VE3GIQ	VE3NJK	VE3NJK
VE3NJK	VA3ORL	VE3TXB	VA3HWA	VE3DHE
VE3ZZU	VE3LBU	VE3LBU	VE3ZZU	VE3LBU
VA3RLA	VE3ZZU	VE3NJK	VA3ORL	VE3GIQ
VE3DHE	VE3LC	VA3ORL	VE3LBU	VE3BF
VA3ZTF	VE3RUU	VA3ZTF	VE3DHE	VA3ORL
VA3HWA	VE3KLT	VE3BF	VE3RUU	VA3ZTF
VA3AOD	VE3NJK	VA3BGO	VA3AOD	VE2BJZ
VE3KLT	VA3AOD	VE3RUU	VE3TXB	VE3TXB
VE3RUU	VE3TXB	VE2OCQ		VA3JYK
VA3BGO	VE3EKN	VE3ZUU		VA3AOD
VE3EKN		VE3EKN		VE3RUU
				VE3EKN

Meeting Minutes

Date / Time: Wednesday, April 19, 2017, 19:30

Location: Canada Aviation and Space Museum

1. Call to Order:

The President, Norm Rashleigh, VE3LC, called the meeting to order at 19:30. There were 36 in attendance.

2. Greetings:

Guests and visiting amateurs:

Dave Conn, VE3KL

Brian Griffin, VA3BGO

Robin de Schulthess, VE3SZO

Harold Hamilton, VE3UNK

Roger Egan

3. Approval of Last Meeting Minutes:

MOTION: Moved by Tim Bailey, VE3TXB and seconded by Marcel Lemay, VE3RFNJ that the minutes of the last meeting be approved.

CARRIED.

4. Announcements and News:

Special Presentation:

Special presentation was made to Bill Hall, VA3WMH who has faithfully produced our club newsletter, "The Rambler", since 1999. A plaque was presented by President Norm Rashleigh, VE3LC followed by an expression of Club appreciation and applause.

CN Cycle for CHEO:

Harold Hamilton, VE3UNK called for volunteers to participate in the CN Cycle for CHEO event to be held Sunday May 7. The CN Cycle for CHEO is a fun, non-competitive event that offers a wide range of cycling and walking routes for people of all ages and abilities. The event takes place in the morning between 08:30 and 12:00. Amateur radio operators help with the event by participating in a 2m FM net over local repeaters. For more information on the event see: <http://cncycle.ca/en/>. If you wish to volunteer as a radio operator, you can contact Harold Hamilton at: VE3UNK@rac.ca.

Field Day:

Norm Rashleigh, VE3LC spoke briefly about the upcoming Field Day. Barry Allison, VE3NJK was asked to update the meeting and advised us that a site has been secured. On June 24th and 25th, the OVMRC will hold its Annual Field Day at the RCMP Camp Grounds, Long Island, Manotick Ontario. An aerial view slide of the grounds was shown indicating lots of parking, a canteen, barbeque pits and washrooms. Final details will be released soon.

Results of the April 8th Test Your Radio Workshop:

There were 15 in attendance, and both Barry VE3NJK and Norm VE3LC were worked off their feet. Both provided test equipment for HT's and Mobile radio testing for RF TX power, RX sensitivity etc. as well as radio programming using "CHIRP" software.

Club Meetings in May and June:

Monday, May 8, there will be a planning and participation workshop at the Aviation Museum, for the upcoming OVMRC Transmitter Hunt and picnic.

Wednesday, May 17, will be the next OVMRC monthly general meeting at the Aviation Museum at 7:30 pm.

Saturday, May 27, the OVMRC Transmitter Hunt and Picnic will be held along the Rockcliffe Parkway at a precise location to be announced.

Monday, June 12th, there will be a Field Day planning workshop at the Aviation Museum at 7:30 pm.

Wednesday, June 21, the Annual General Meeting of Members of the OVMRC will be held at 7:30 at the Aviation Museum. This important annual event will also include election of Club Officers and Executive for the coming year. All members are urged to attend. If you are interested in standing for an executive position, please advise the President, Norm Rashleigh well in advance of the meeting.

Saturday and Sunday, June 24 and 25, the OVMRC Annual Field Day will be held at the RCMP Camp Grounds, Long Island, Manotick, Ontario.

ICES 005 – Issue 4:

Norm Rashleigh, VE3LC gave a brief update on the latest bulletin regarding the standard for Lighting Equipment including LED lighting. Residential lighting must comply with the Standard, ICES 005

Local NETS:

Norm Rashleigh, VE3LC provided a slide reminder of the regularly scheduled NETS for OVMRC Members. The list can be found in the latest issue of The Rambler on page 4.

<https://www.ovmrc.on.ca/Rambler/Archive/Ram2017-04.pdf>

Show and Tell:

Peter Cars, VE3XEM, updated the meeting on his WSPR device and the latest low power contact made on 30M, from Eastern Germany using under 200mw. President Norm Rashleigh, VE3LC, displayed his assembled 'tester' purchased on EBay for approximately \$11.00. The device is used for semi-conductor devices, transistors etc. He also showed his assembled SDR receiver from Omnia SDR Proficio. A 160M - 10M SDR transceiver, 5W at a cost of \$236.00 US. <http://www.omnia.ca>

5. Upcoming Contests:

May 27/28 - CQ WW WPC CW Contest

June 10, 11, 12 -ARRL June VHF Contest

For information on upcoming contests, see the WA7BNM Contest Calendar at <http://www.hornucopia.com/contestcal>

6. Feature Presentation:

Dave Conn, VE3KL gave a presentation on *HF Wire Antennas* including Case Studies on various wire antenna configurations. He also demonstrated how he uses the free design software, *4nec2 antenna modeller and optimizer*, for his projects.

7. Prizes and Draws:

Prizes were won by 11 lucky individuals:

The 50/50 draw was won by Robert McKenny, VE3RMS.

8. Executive and Chair Reports:

8.1. Treasurer - Nicole Boivin, VE3GIQ:

Nicole reported that the Club has assets of \$25,790 with \$15,000 in GICs and the balance in cash.

8.2. Net Operations – Ken Evans, VE3EKN

Ken is looking for a couple of members to backstop him as Net Controller. He is also looking for feedback on shutting down the OVMRC Nets for the summer months of July and August.

8.3. Membership – Tom Mercer VE3LJS.

Tom reminded Members present that renewal time is approaching in September and to begin consideration now for your annual renewal.

8.4. Repeater – Norm Rashleigh, VE3LC:

Norm has returned a donated multicoupler for 144.390 MHz, the APRS Frequency with the idea of setting up a digi-peater at the VE3TWO site. This would assist those close to the repeater in the east end when operating their HT radios for APRS tracking. Otherwise, the VE3TWO repeater is working well and is being well used for C4FM activity

9. Adjournment:

MOTION: Moved by Steve Petruska, VE3MPS and seconded by Robert McKenny, VE3RMJ that the meeting be adjourned.

CARRIED.

The meeting was adjourned at 21:57.

*Minutes recorded by Ron Smith, VE3LBU,
for Frank Fullum, VE2KQI, OVMRC Secretary*

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

Signature	Date	Initials	<i>By initialing this box, I confirm that I consent to receiving e-mail messages from the Club.</i>
_____	_____		