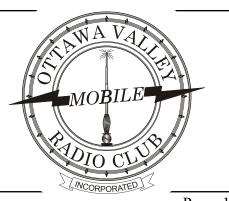
# Rambler

Newsletter of the Ottawa Valley Mobile Radio Club Incorporated



Oct 2017 Edition 55 Page: 1

# Celebrating our 60th Anniversary Season of Continuous Service to Ottawa

# **President's Ramblings**

**T** ow! The Club is away and running for another season. We've signed up over 40 candidates for the Amateur Radio Course. Our candidates' interest in amateur radio include communications for sailing on the high seas, a Pilot wanting to do APRS from his plane, IT Professionals, Engineers and Technologists wanting to explore the world of Software Defined Radio technology, several folks interested in "preparedness" and having amateur radio as a fall back if and when traditional communications fail; others are interested in "home brewing"; others want communications support for their Search and Rescue and public service activities; while others just want to learn something new and interesting. As usual, our candidates this year span ages from their 20's to 60's with some just retired while others about to enter their working careers.

A reminder to all, this is the Club's 60<sup>th</sup> Anniversary Season from its founding in 1957-58. To see what the Club was all about back then, I invite folks to visit the Club's Web site and look at some of the early issues of the newsletter bulletin archived at:

ovmrc.on.ca/newsletter/back-issues/1950s/

In celebration for this anniversary season of the Club, we are having OVMRC promotional mugs made up as well as custom shirts OVMRC members can order. The shirt will have your name and call sign embroidered as well as the OVMRC logo. We hope to have a sample of the shirt along with pricing info at our October meeting.

This year the Carp Fleamarket and Hamfest was bigger and better than ever before and a great success. Credit is due to the team of OARC folks that made it happen helped of course by several OVMRC members. We (the OVMRC) had a promotion table with our old VE3TWO equipment for sale. Unfortunately, there were no takers. We did however sign up a few Club memberships. The actual fleamarket was followed by the Radio Amateurs of Canada Annual General Meeting. Besides the requisite RAC business of approving the budget, there were two wonderful presentations at the meeting, one to do with the C3 Expedition WSPR beacon project by Barrie Crampton, VE3BSB and the other by Ron McFadyen, now VE3YXY of Stittsville but recently retired from a CBC broadcasting career in Whitehorse, Yukon, Ron's talk was all about the Yukon Amateur Radio Association and their Territory wide linked repeater network (Continued on page 3)

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# **Meeting Dates**

Wednesday, Oct 18<sup>th</sup>

# **General Meeting**

Aviation Museum

Avro Arrow Class Room

Speaker: Brian Grifin, VA3BGO
Topic: Vintage Radios

Wednesday, Nov 15<sup>th</sup>

# **General Meeting**

Aviation Museum

Avro Arrow Class Room

Speaker: Marc Bélanger, VE3BOE
Topic: Design and Construction
of his Tilt-Over Tower

# OVMRC Executive and Officers 2017-2018

President:: Norm Rashleigh, VE3LC

ve3lc@rac.ca

Vice-President: Barry Allison, VE3NA

ve3na@rac.ca

Treasurer: Nicole Boivin, VE3GIQ

ovmrc.treasurer@gmail.com,

Secretary: Frank Fullum, VE2KOI

ve2koi@rac.ca

# Standing Committee Chairpersons

Amateur Radio Training &

**Accredited Examiner:** 

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ve3lc@rac.ca

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ve3lc@rac.ca

#### **Events Chair:**

John McGowan, VA3JYK john.mcgowan1314@gmail.com

# **Sponsors**

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

• KENWOOD ELECTRONICS
CANADA INC.,

Mississauga, ON

• METAL PROS,

"The Small Quantity Metal Shop"
Ottawa, ON

Web site: www.metalpros.com

• RADIOWORLD TORONTO

Web site: www.radioworld.ca

#### Visit the OVMRC Store

at

http://www.cafepress.ca/ovmrc

Ottawa Valley Mobile Radio Club, Incorporated PO Box 41145 Ottawa, ON K1G 5K9

www.ovmrc.on.ca

# **OVMRC Life Members**

Ernie Jury, VE3EJJ

Maurice-André Vigneault, VE3VIG

Ralph Cameron, VE3BBM

Doug Carswell, VE3ATY

Doreen Morgan, VE3CGO

# **OVMRC Repeater**

VE3TWO

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

# OVMRC Call Signs VE3JW VE3RAM

The Rambler is the official newsletter of the Ottawa Valley Mobile Radio Club Incorporated and is published 10 times a year (monthly, except for July and August). Opinions expressed in the Rambler are those of the authors and not necessarily those of the OVMRC, its officers or its members. Permission is granted to republish the contents in whole or in part, providing the source is acknowledged. Commercial use of the contents is expressly prohibited.

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

Robert Cherry, VA3AOD cw527@ncf.ca

# **OVMRC Affiliations**









(Continued from page 1) with which he was heavily involved and promoted. I plan on having Ron give a presentation at the OVMRC sometime in the new year.

Our September meeting featured Barry Allison, VE3NA giving a video presentation on the preparing of the "kits" for last year's "J-Pole" antenna club project. His video production included Peter Carss, VE3XEM die threading the rods with his metal lathe. Barry showed his techniques for accurate drilling of the angle bracket. It demonstrated that the preparation of 35 kits for sale to Club members was no trivial affair. Bravo Barry!

For our October 18th meeting we have invited Brian Griffin, VA3BGO to give a talk about his passion for old time radios. Brian is a member of the Ottawa Vintage Radio Club which is an association of collectors and historians of yesteryear radio and broadcasting. Many members have collections of vintage radio sets and associated books, magazines and artifacts. It should be interesting what Brian has to tell about the Vintage Radio Club and his passion for old time radio.

For the November meeting, we have Marc VE3BOE lined up to give us a presentation about his tower construction project. We have been following with great interest over the last few months, the progress of Marc's design and construction of his 56 foot foldover self supporting tower. Marc's tower will have several beam antennas on top and will be cable winched from horizontal to vertical position for easy access to the antennas for maintenance and adjustment if needed.

For December, there will be not a regular meeting; instead, on Wednesday, December 20th, reservations have been made for an OVMRC Christmas dinner gathering at KS on the Keys restaurant. John, VA3JYK is organizing this event and circulated a signup sheet last meeting; if you plan on attending, please let John know as soon as possible.

In the September Rambler, I wrote an article about the Public Consultation to do with the "Proposed Revisions to the Canadian Table of Frequency Allocations (CTFA)". On behalf of the Club, I prepared a letter of response to send to the Department commenting on changes proposed affecting the Amateur Service. Following the reading the letter at the September meeting, a motion and approval by the OVMRC membership was obtained to send this correspondence; this was done the following day and I've included a copy in this issue of the Rambler. Our letter mainly focuses on an issue with regard to the limits on radiated power to be allowed on the new 60 metre, 15 kHz wide, amateur allocation. I might add, through Radio Amateurs of Canada membership on the Radio Advisory Board of Canada, the RABC will also be responding to the Department as will RAC directly, and likely, both will voice similar commentary about the new proposed 60 metre amateur allocation. Following the consultation period at the end of October, the Department should post all responses on their web page for all to see and read. It will be interesting to see what other amateur radio clubs and organizations respond to this consultation by ISED. When posted, these should appear at:

ic.gc.ca/eic/site/smt-gst.nsf/eng/h\_sf11244.html

So that's about it for my Ramblings for this month.

See you all at the October meeting

de Norm Rashleigh, VE3LC ve3lc@rac.ca

# **VE3MPC Changes**

This Repeater now requires a 100 Hz CTCSS tone to access.

A couple of weeks ago, repeater VE3MPC in Orleans had the CTCSS encoder/decoder switchedon with a 100 Hz tone to counter interference from and by users of repeater W2UXC in Plattsburg, NY that shares the same frequency channel. The Plattsburg repeater uses a tone of 123 Hz. It will now be necessary to program in a 100 Hz CTCSS tone for VE3MPC to access the repeater. Your radio should also include Tone Squelch (TSQL) setting so it only un-mutes on VE3MPC and is not open to cochannel interference and intermod.

# **Contest Calendar**

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

Oct 28-29 — CQ WW DX Contest, SSB, cq-amateur-radio.com/

Nov 4-5 — ARRL Earth-Moon-Earth Contest, <u>arrl.org/eme-contest</u>

Nov 4-6 — ARRL Sweepstakes Contest CW, cq-amateur-radio.com/

# Informal Amateur Radio Restaurant Gatherings (All are welcome)

- QCWA Chapter 70 breakfast gathering every **Tuesday** morning at 7:30 to 10 am, Summerhays Grill, 1972 Baseline Rd., Nepean
- Orleans Coffee gathering every **Friday** morning at 9 AM, McDonalds, 2643 St. Joseph Blvd, Orleans
- QRP Group Dinner meeting, **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)



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

# 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, VA3TJP
- **Phoenix Net**, VE3MPC 147.150 +(now with 100Hz tone), Tuesday evenings at 8 PM conducted by Pete, VE3XEM
- QCWA Chapter 70 Net, VE3MPC 147.150 + (now with 100Hz tone), Monday evening at 7:30 pm conducted by John, VE3ZOV
- Capital City FM Net, VE2CRA 146.940 Mhz, (100 Hz tone), Monday evenings at 8 PM
- Champlain Mini Net, VE3STP 147.060 (114.8 Hz tone), every evening at 6:45 PM

# **OVMRC HF Nets**

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



September 21<sup>st</sup>, 2017

Director General
Engineering, Planning and Standards Branch
Innovation, Science and Economic Development Canada
Ottawa, Ontario

Dear Sir

**Subject:** Canada Gazette Notice SMSE-005-17 -- Ottawa Valley Mobile Radio Club Inc, Comments regarding the Proposed Revisions to the Canadian Table of Frequency Allocations

The Ottawa Valley Mobile Radio Club (OVMRC) is a thriving Amateur Radio organization serving the Amateur Radio community in the National Capital Region. We focus on training and mobile operations providing volunteer communications for disaster relief and public service events. Our Club conducts an Amateur Radio Course and qualification examinations that attracts approximately 40 candidates annually. This year, our Club is celebrating its 60<sup>th</sup> Anniversary of continuous service to the Ottawa area.

The OVMRC welcomes this opportunity to comment on the Proposed Revisions to the Canadian Table of Frequency Allocations on sections that specifically affect the Amateur Service. The membership of the OVMRC has been following with great interest the proceedings of the World Radio Conference 2015 especially as it relates to a new 5 MHz band allocation.

## 77.5 to 78 GHz

We are pleased to see the Amateur and Amateur – Satellite services retain Primary Status for this allocation and respect that it is now proposed that Primary Status be co-shared with the Radiolocation service for automotive high-resolution collision avoidance radar applications. Since Amateur Radio use of this spectrum is limited to occasional, highly directional, point-to-point experimental communications over high elevation radio paths, we believe there will be negligible interaction sharing this band with the short range, ground based radio location services proposed. Our Club has only one member with equipment capable of transmitting on this band; he uses it a couple of times a year attempting to set distance records for this band with similarly equipped fellows between mountain top locations.

#### 5275 to 5450 kHz

We are pleased to see the proposed revisions to the Table adding the 15 kHz allocation of 5351.5 to 5366.5 kHz to the amateur service while retaining the existing five spot frequency assignments at 5332.0, 5348.0, 5358.5, 5373.0 and 5405.0 kHz. We respect the existing 100 watt (e.r.p.) power restriction to the existing channels and recognize the 15 watts (e.i.r.p.) indicated for the new allocation as prescribed in footnote 5.133B. However, since the existing authorized spot frequency of 5358.5 kHz, governed by Canadian footnote C21, is in the middle of the new 15 kHz allocation governed by ITU footnote 5.133B, we believe this represents a conflict with respect to radiated power that must be resolved or clarified. Since most amateur radio transmitters that cover this frequency range transmit up to 100 watts RF output, it would seem reasonable that a power limitation of 100 watts (e.r.p.) be allowed for the entire new 15 kHz allocation consistent with the five existing spot frequencies for which, we believe, no co-channel interference with primary status users has been reported. This amount of power would also be consistent with other administrations already authorizing 100 watts or more for their domestic amateur service over this frequency range. Besides making it more manageable for amateur operators to adjust their equipment, it would permit this entire allocation to be used more effectively in support of public service and disaster relief communications using single side band voice communications.

## 216 - 222 MHz

We appreciate and agree to the proposed Table revisions to delete the Amateur Service from the Table for the range 216 to 219 MHz to make it consistent with that given in RBR-4 (Standard for the Operation of Radio Stations in the Amateur Service) while maintaining the amateur service in the range 219 to 220 MHz and 220 to 222 MHz conditional on the provisions of Canadian footnote C11. We further understand this change will not affect the exclusive authorization of the amateur service in the adjacent frequency range of 222 to 225 MHz for which there is significant amateur communications activity.

We will look forward seeing these amateur allocation changes adopted in the revised Canadian Table of Frequency Allocations and being added to document RBR-4 as soon as possible.

On behalf of the members of the Ottawa Valley Mobile Radio Club;

Sincerely,

Norm Rashleigh, VE3LC

President, Ottawa Valley Mobile Radio Club Inc.

P.O. Box 41145

Ottawa, ON K1G5K9

# OVMRC Net Activity, Check-ins during the last month

Prepared by: Ken Evans, VE3EKN

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

September 7	September 14	September 21	September 28
VE3LC	VE3LC	VE3LC	VE3LC
VE3LBU	VE2OCQ	VE3RUU	VE3BF
VA3ZTF	VA3ZTF	VA3ZTF	VA3ZTF
VA2EEK	VE3GIQ	VE3GIQ	VA3ORL
VE3GIQ	VA2EEK	VA3JYK	VE3GIQ
VA3SPV	VE3TXB	VE3BOE	VE3LBU
VE3ZZU	VE3NA	VE3ZZU	VE3DHE
VE3NA	VE3LBU	VE3NA	VE3KTN
VE2KOI	VA3ORL	VE3TXB	VA3RLA
VE3RUU	VA3SPV	VE3LBU	VA3ECM
VE3NPO	VE3ZZU	VE3OKD	VE3BOE
VE3DHE	VE3RXH	VA3ORL	VA3SPV
VE2BJZ	VA3JYK	VE3LLX	VE3NA
VA3JYK	VE3RUU	VA3SPV	VE3RUU
VA3JPX	VE3EJJ	VE3NPO	VE3ZZU
VE3EKN	VE2BJZ	VA2EEK	VE3NPO
	VE3BOE	VE3EKN	VE3HAZ
	VA3HAZ		VE3EKN
	VE3NPO		
	VE3EKN		

# **OVMRC POT HOLE NET** – Check-ins last month 3760 kHz SSB Sunday mornings at 10 am local

September 10	September 17	September 24	October 1
VE3LC	VE3LLX	VE3BF	VE3LC
VE3EKN	VA3ZTF	VE3LLX	VA3ZTF
VA3PCJ	VE3EKN	VE3EKN	VE3EKN
VE3NA	VE3LC	VA3UMP	CG3BF/P
VE3EJJ	VE3NA	VE3NA	VE3NA
	VA3SIE	VE3LC	VE3EJJ
	VE3EJJ	VE3SIE	
		VE3EJJ	

### **OVMRC General Meeting Minutes**

**Date / Time:** Wednesday, September 20, 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 32 in attendance.

## 2. Approval of minutes from previous meeting:

MOTION: Moved by Ron Smith VE3LBU and seconded by Tim Bailey VE3TXB that the minutes of the Annual General Meeting held Wednesday, June 20, 2017 be approved. VOTE: All in favour.

CARRIED.

#### 3. Announcements and events:

#### Upcoming Events

Montreal South-Shore Amateur Radio Club (Biggest Hamfest in Quebec) Saturday October 21, 2017 9 AM To 1 PM 1023, Taschereau blvd, Longueuil, Qc

Aaron's Butterfly Run Saturday October 14, 2017 Call for amateur radio operators Contact is Luc Cousineau VA3LDC@gmail.com http://www.butterflyrunottawa.ca/

#### 4. Upcoming contests:

CQ World Wide RTTY DX, Sept 23 – 24 CQ World Wide SSB DX, Oct 28 - 29

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

#### 5. Local nets:

OVMRC Pot Hole Net, 3760 kHz, Sunday 10am OVMRC Pot Lid Net (CW), 3620 kHz, Sunday 11 am OVMRC FM Net, VE3TWO Thursday 8 pm X-Canada C4FM Net, VE3TWO, Wednesday at 9 pm QCWA Chapter 70 Net, VE3MPC, Monday 7:30 pm OARC Capital City Net, VE2CRA, Monday 8 pm Phoenix Net, VE3MPC, Tuesday 8 pm Upper Freq's Net, 144.250 MHz, SSB, Tuesday 9 pm Rubber Boot Net, VE3MPC, work days, 7:30 am

#### 6. New amateurs – What are you doing with your radio station?

Jocelyn Tremblay VE3JCT – Over the summer Jocelyn has been having a lot of fun and success operating QRP digital with an Alpha-Loop antenna. Jocelyn has made many contacts in Europe with a Yaesu FT817 at 5 watts.

Rob Haddow VE3RXH – Rob has been operating his Kenwood TS430 mobile and making contacts in Italy, Spain and the US.

#### 7. OARC Joe Norton Trust Award:

The Joe Norton Trust Award for the Advancement of Amateur Radio.

Each year the Ottawa Amateur Radio Club makes available an award of five hundred dollars along with a commemorative wall plaque. The award honours individuals new to the hobby who demonstrate participation and leadership in ham radio activities and a vision for their future initiatives.

The award is open to all newly licensed radio amateurs in the National Capital Region, having obtained their Amateur Radio Operator Certificate within 36 months of the award closing date.

Application is via a written submission of no less than 600 words and no more than 900 words to the Executive of the Ottawa Amateur Radio Club Inc. setting out their interests, achievements and plans to contribute to the advancement of amateur radio.

Written submissions must be received before 17:00 November 1st.

For more information: http://www.oarc.net/pages/awards-1/joe-norton-award/

#### 8. Discussion and approval of the budget for 2017 – 2018:

The treasurer, Nicole Boivin VE3GIQ presented the budget and explained it's major points. This was followed by a short period for questions and discussion, following which, there was a request to the floor for a motion to approve the budget as presented and that appeared in the September Rambler.

MOTION: Moved by Tim Bailey VE3TXB and seconded by Steve Middleton VE3RUU that the budget for 2017 – 2018 be approved.

VOTE: All in favour.

CARRIED.

### 9. MS Bike Tour, report by Nicole Boivin VE3GIQ

Nicole volunteered to organize and coordinate amateur radio ops for MS Bike Ottawa to Cornwall which was held July 15-16. Tim Bailey VE3TXB took care of network control, and Douglas King VE3YDK was the sweep. Sweep was new this year based on recommendation of Nicole. Based on the outcome of the event, the OVMRC will play a big part again next year. Congratulations to Nicole and all who volunteered and help make this event a success.

#### 10. Field Day 2017, report by Norm Rashleigh VE3LC

This year the club took part in a joint Field Day with the Ottawa Amateur Radio Club at the RCMP campground near Manotic. There were two radio stations (Class 2A) in operation with a total of 28 participants. Power sources used during the event were generator, battery and solar. The number of contacts made were 408 (CW) and 173 (phone). In addition, the club also operated a GOTA radio station. The GOTA coach was Frank Fullum VE2KOI, and there were 5 operators who made a total of 58 contacts (Phone). The total score for the event was 1,959 points.

# 11. Feature presentation, manufacturing and preparing the J-Pole antenna kits, Barry Allison VE3NA

Barry Allison VE3NA gave a presentation and video of how he and Peter Carss VE3XEM manufactured parts for and assembled kits for the Club's J-Pole antenna project. Following the presentation, Barry proposed ideas for club projects this year. Proposed and discussed were a Slim-Jim 2M antenna made from 300-ohm twin lead, and a 16-foot OCF dipole for 20M. Based on a show of hands, the members present would be very interested in either or both of the proposed projects.

Barry is also looking into clothing items to celebrate the Club's  $60^{th}$  anniversary. Proposed and discussed were a club shirt and a ball cap. The items would have the OVMRC logo and may have a  $60^{th}$  anniversary designation on them. All members present were very interested in both of the items.

### 12. Christmas party proposal, John McGowan VE3JYK, Events coordinator:

John has proposed KS on the Keys Restaurant (near Bank and Hunt Club) for the Christmas party this year. John had members sign-up and indicate how many guests they would likely bring. John will begin to make the arrangements, and report on progress in upcoming meetings.

## 13. OVMRC Response to Consultation: SMSE-005-17, Norm Rashleigh VE3LC

Norm showed and read the letter he composed to send on behalf of the OVMRC to the Department in response to their Public Consultation on the "Proposed Revisions to the Canadian Table of Frequency Allocations". Our response deals only with changes in allocations to the Amateur Service in the proposed revised "Table". Specifically, the response takes issue with the apparent conflict between the 100 watt restriction on the currently authorized five spot 5 MHz frequencies and the 15 watt limitation in the proposed revisions for the new 15 kHz wide allocation which has in the middle, one of the existing channels.

Following the discussion, Norm asked if the members would move to approve sending the letter on behalf of the Club to ISED in response to SMES-005-17.

MOTION: Moved by Barry Allison VE3NA and seconded by Jocelyn Tremblay VE3JCT that the OVMRC response to SMSE-005-17 be approved.

VOTE: All in favour.

CARRIED.

#### 14. Next Meeting:

Next meeting will be Wednesday, October 18 at 19:30. The feature presentation will be by Brian Griffin VA3BGO. The subject of Brian's presentation will be: Vintage Radios..

# 15. Adjournment:

MOTION: Moved by Steve Petruska VA3MPS and seconded by Steve Middleton VE3RUU that the meeting be adjourned.

VOTE: All in favour.

CARRIED.

The meeting was adjourned at 22:00.

Minutes recorded by Frank Fullum, VE2KOI, 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	<b>U</b> PDA <sup>-</sup>	TE/CHANGE
	Ple	ease print legibly	
Call Sign	Surname	AV	Perferred first name
Street			Apartment
City		Province	Postal Code
Home/primary phone	Work/other phone	E-mail address	12-
Are you a member of F RAC ID:	Radio Amateurs of Canada Expiry (YYYY-MM		
Do you wish to order	an OVMRC name tag?	(+\$12.00) Yes 🗆	No 🗆
Callsign for name tag		Name for name tag	
Full Membership (Not Full Membership (RAI Associate Membershi	C Member) \$	25.00/yr  \$_	ount Enclosed
Circle your interests	1		
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	Initia	By initialing this box, I confirm that I consent to receiving e-m messages from the Club.