



...wait for this...30 years and still going strong...Is this not a club that needs your aid and support?

## The Gavel – October 2014

Greetings again MARC members to another Gavel. I think autumn has finally arrived: the air is noticeably crisper and the leaves are showing off their brilliant fall colors. Before you know it Old Man Winter will be banging on our doors so enjoy the season while you can. Also, all those antenna building and maintenance projects you've been thinking about need to get tackled before it gets too cold. Although to be honest there's nothing quite as exhilarating as working off a tower in sub-zero weather!

The MARC Basic Licensing Course is well in hand under the expert guidance of Basil VE3JEB and his crew of instructors. I understand we've had about a dozen students sign up which is a fantastic turnout! Over the summer I received a number of inquiries about the course so clearly the word is getting out that MARC offers a top-notch education program and people are coming from far and wide to enroll. In addition, Basil and John VA3JK are coordinating a Morse code class for interested club members. Space is limited so if you haven't already done so please get in touch with Basil as soon as possible.

Michael VE3TKI and Ed VA3TPV have been hard at work assembling and testing a remote HF station at the MARC club station. The setup will be accessible to MARC members in particular those who live in antenna-restricted residences. The radio being used is the club's Kenwood TS-480 with software to control the radio and provide audio to and from the end operator using a high speed internet connection. As of this writing, further testing using a multi-band vertical antenna is being undertaken by Michael and Ed and other volunteers. Many thanks to this group for advancing the project to where it is today.

Speaking of antenna testing, our repeater manager Jim VE3JIW and his crew have made a few trips to the repeater site over the past several months to address some issues with the performance our two meter repeater. It appears the repeater antenna

This issue is a little later than normal. Please read the Editor's Column for an explanation.

Also Submissions for content I desperately required, please take finger to keyboard and get those words out of your head and let them be seen by your fellow members.

(Technology oriented, of course)

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### And more to come in the November issue!

Don't forget, get yourself published, and submit some content to the Communicator Newsletter, it's only as good as what is published on it's pages



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will need to be rebuilt but in the interim the mighty MIS machine is operating 5-9 on a temporary vertical antenna. If you think of it, please let Jim know how well the setup is working in terms of coverage, accessibility, etc. The repeater is one of the jewels in our crown and we need to thank Jim for his work at maintaining this important club asset.

And speaking of jewels in our crown (these segues just write themselves!) Bob VE3CWU, Rick VE3IMG and the club station crew have almost finished the repairs to the station antennas that had suffered damage from last December's ice storm. It was no small feat considering all the infrastructure that goes into establishing and operating two separate HF stations. As always, if any MARC member is interested in operating one of the club station radios please get in touch with Bob or Rick to make arrangements. This is yet another benefit of MARC membership.

Finally, it's never too early to talk about Ham-Ex. For those new members who are not familiar, Ham-Ex is a massive hamfest and flea market organized by MARC and the Peel Amateur Radio Club. Ham-Ex is an extremely important event for our club because we derive a good chunk of our club operating revenue from it. Our co-chair again this year is Rick VE3IMG. Over the next several months Rick will be talking about Ham-Ex and soliciting MARC volunteers for the event. Please consider donating a few hours of your time and help out. Or if you are unable to volunteer please consider donating some unwanted gear to the MARC club table. Either way, our continued success as a club relies on the success of Ham-Ex

That's about all I have to say for now. If you haven't already done so please renew your MARC membership either at the next club meeting or by mail to: PO Box 2003, Square One Post Office, Mississauga, ON L5B 3C6. Please make cheques payable to "Mississauga Amateur Radio Club" and include a filled-out membership form (downloadable in PDF and XLS formats from the MARC website). Thanks for reading and see you at the club meetings!

73,

Jeff VA3WXM



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## **Please Take Notice:**

### **Mississauga Amateur Radio Club Silent Auction**

We will be carrying out a silent auction of radio equipment from the estates of Scott Gregory VA3NMI and Don Meaker VE3KHN at the club meeting on Thursday November 27, 2014. Items not sold at the auction will later be offered for sale on the KWARC On Line Swap Shop, and anything remaining will be sold at the club's table at Hamex 2015. The proceeds of sales will be shared equally between the club and the estates.

The items for sale have been organized into lots. A spreadsheet in pdf format with a description and the reserve price for each lot has been uploaded to the Mississauga club member's yahoo group in the "Silent Auction" folder in the "Files" section. As well, photos of each lot may be viewed on Daniel Goodier's website. The link to the photos (<http://ve3ni.com/auction.html>) is included in the spreadsheet for easy reference. To look at the photo of a lot, click on the lot number thumbnail.

The auction rules are:

- The reserve price is the minimum bid allowed for the lot.
- You must bid at or higher than the reserve price to participate in the bid for a lot
- Club members only are eligible to participate in the auction
- You must be present at the auction, or have another member bid for you.
- That person will be required to pay for the item if the bid is successful
- Bids via email are not allowed
- Items are as is, where is (at the meeting), all sales final
- Payment will be by cheque or cash only, at the end of the auction
- Successful bidders must remove their items at the end of the evening
- A form will be provided for bid submissions.
- You must indicate the lot number, your bid price, your name and call sign on the form, and sign the bid.
- A box for bids will be provided.

If you have any questions please call me or email me directly ([ve3tki@sympatico.ca](mailto:ve3tki@sympatico.ca))

Michael VE3TKI  
905 826 5176  
647 746 5176 cell

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**The Editors column:  
from the keyboard of editor in chief  
Valentine Stubbs  
VE3VVS**

**MARC Members Yahoo Group**

The MARC Members Yahoo Group is the primary way to disseminate club information about upcoming events.

Join the MARC  
Members Yahoo Group

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To receive club related  
communications  
and to contact  
other club members

[http://groups.yahoo.com/group/marc\\_members](http://groups.yahoo.com/group/marc_members)



"You never heard of a ham operator before?"

**Club Breakfasts**

This much loved event happens the first Sunday of every month.

All you have to do is show up at Bobby's restaurant 20 Queen Street just North of Britannia Road.



At this time of writing this column it is October 25, is one or the latest I've actually started the newsletter, for this I apologize. I made a earnest effort last weekend, but the Apple released their new update to the OSX operating system, 10.10, or Yosemite if you prefer, and being a veteran of the world of IT that meant one thing, I need to upgrade, not tomorrow, not next week, NOW! Yes I'm technology junky, And if the upgrade is "free" well I got to have it ASAP!

After 30 years in the world of IT you would think I would not fall for the old line, "it won't take long, just download, install, and enjoy". Well I have relatively high band width, well ok as much as my provider will allow, and unlimited to boot, so the download part was easy, but.....

The upgrade of the actual operating system, well I never saw anything take so long, most of the day, and the space taken up by this newer and whiter washing OS somewhere there is 20gig lurking around. And there by after publication I will be upgrading to a SSD (solid state drive). So much for a free upgrade..... Up grader beware.....

Valentine Stubbs - Chief Editor - Communicator - VE3VVS



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**Editor's Note:** This submitted article was written in humor, meant to stir discussions about the role of safety in operating, but once you say that it is a fun piece

**Safety Schmafety**  
**by Eric P. Nichols, KL7AJ,**  
**as found from a post on Eham**

KL7YS "Young Squirt" popped in for coffee the other day, wending his way around a teetering maze of rickety bookshelves on the way to the creaky staircase leading down to my dungeon. I didn't hear him come in as my trusty David Clarks were clamped securely around my cranium, completely shutting out the universe, in deep concentration on the bottom end of 40m. He announced his presence by quickly flashing the shack lights off and then back on.

Phil Leggett was his name, but I never called him that. I never even called him Phil. He had a perfectly good ham radio suffix which I always used instead. It fit him to a coaxial T.

"Hi Squirt," I said, barely acknowledging his presence. "Be with you right after I sign off with this TA3," I lied.

Squirt blew some dead flies out of a mug, glopped some coffee sludge out of the decrepit urn that wheezed on the edge of the workbench next to the operating position, and plopped down on the guest stool. I taught squirt how to drink shack coffee; he'd been as pure as the driven snow before I got hold of him. He still had this annoying thing about safety, though. I figured sooner or later I'd break him down in that area, too.

I worked six more stations after the TA3 before I figured I'd better entertain my young guest. I finally doffed my skull crushers and gave Squirt my undivided attention.

"Glad you made it! I have a few jobs for you to do, if you're so inclined."

Squirt took a sip of the coffee. "Sure. Helpful is my middle name." He put the mug down and spun around on the stool a few times.

"Right," I said. "Well, I need to resurrect that monster homebrew amp on the floor by your feet. I Might have a buyer for it. It is just getting older and dustier down there. You wanna hoist that up to the bench for me? I'm getting pretty old; I don't want to sprain anything, you know."

"Uh, sure," Squirt said, glancing furtively around the basement. "Do you have any gloves I can borrow?"

"You afraid of getting your hands icky?" I teased.

"No, I don't want to cut myself in case there are any sharp edges on the cabinet."

"Why do you think God invented Band-Aids?" I said. "Do you need a doily to set the thing on, too?"

Squirt rolled his eyes as only a teenager can do. I directed his attention to a cabinet that hadn't been opened in years....because it had a half-full acetylene tank propped up against the door. "There's probably some gloves in there," I said, accommodatingly.

"Aren't these supposed to be chained to something?" Squirt asked, incredulously. "If it got knocked over, it could blow this place right off the map."

"Then don't knock it over," I suggested.

Squirt glared briefly, and set to work rolling the acetylene tank out of the way. He opened up the cabinet door and peered inside; beholding the ancient bottles of unknown potions perched on the shelf inside. "What is THAT stuff?" he queried, pointing to an unlabeled quart flask partially full of a dull grayish metallic something or other.

I squinted across the floor in the dim light. "Well, I'll be dipped in shellac. I wondered where my mercury got off to! I haven't seen it in...oh...twenty years or so!"

"M-m-mercury?!" he sputtered.

"You mean like mercury mercury?"

"What other kind is there?" I answered.

"Isn't that BAD stuff?" Squirt gasped.



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"Only if you drink it or snort it. You don't plan on doing that, do you?"

"How much IS that??!!" he sputtered again.

"Oh, about thirty pounds I imagine, from the looks of it."

"Why would anyone need thirty pounds of mercury??!!"

"I don't need it...I've just sort of collected it over the years. By the way, don't break that bottle; it would take us forever to clean up the mess."

"I...uh...won't," he said, with a certain paleness in his voice. He peered at another bottle. "Um, what's C Tet, if I dare ask?"

"Oh. That's Carbon Tetrachloride. It's great for cleaning electrical contacts."

"Isn't that banned or something?!" he gasped again. There seemed to be a lot of gasping going on. Silly safety-oriented kids.

"Well, if you mean you can't buy it any more, that would be true. But I have enough to last for a lifetime. I don't think the Carbon Tet Nazis would bother to come down here, anyway."

Squirt promptly closed the door to the cabinet, as if in so doing he would prevent the escape of some zombies. "There aren't any gloves in there," he said. There probably were, but I'm pretty sure he just wanted to get out of there in a hurry. He rolled the acetylene tank back into position.

"I-I guess I can do without gloves," he announced at last.

"Here...I'll help you hoist the thing up to the bench," I suggested. "I'm not that old and decrepit."

"Lift with your legs, not your back," Squirt instructed, as I was about to commence with the latter. I'd been lifting boat anchors with my back for the past fifty years with no ill effects, but I decided to humor the little twerp, just for kicks. I dutifully squatted down in proper fashion on my side of the rig, and we had it on the bench with no strains or sprains.

"I think your amplifier is leaking," Squirt observed, glancing a gloppy substance which adhered to his fingers.

"Oh, just some transformer oil, I'm sure," I said.

"What's transformer oil? I thought transformers were...well...transformers."

"Most of the time, yes. But some of the bigger ones...like this here...used oil for cooling. We filled them with Askarel in the day."

"What's Askarel?"

"It's just one of a few different types of PCBs we used. I used to pick it up at the power company super cheap."

"P-p-p-C-c-c-B-b-b-b-s," he sputtered again. "You mean like...P-p-p-C-c-c-B-b-b-b-s, the really bad stuff??!!"

"A few PCBs never hurt anyone. I used to be up to my armpits in the stuff when I was in the broadcasting biz. I haven't grown any unusual appendages."

Squirt stared at his hand like it was glowing green with radioactivity. I grabbed his hand and licked the offending substance off his fingers. "Nope...just mineral oil...my bad. PCBs have a more bitter taste. This rig is more newfangled than I thought."

Squirt rolled his eyes.

"Gee, that's really great to know. You're a very insane man."

"Thank you. Well, let's fire this beast up and see what happens." I unrolled the power cord and noticed that it was a 220 VAC plug for which I had no matching receptacle.

"Well, I guess we can't do anything," Squirt said, sounding oddly relieved.

"Not at all! Grab me two extension cords. I'll just run one from two outlets on opposite sides of the room; they'll be on different legs."

"Say what??"

"Hey Squirt; it's just electricity."

"Don't you know anything about the Electric Code??!!"

"Electric code, Schmelectric code. They were written by politicians. Ohm's Law was written by God himself...it doesn't give a rat's patoot about no electric code. Get me those extension cords!"

Squirt reluctantly complied, producing two semi-non-disintegrated extension cords from the darkness. I jammed one pin of the 220 plug into the hot lead of one extension cord, and the other pin into the other one. "There! Just like professional!"

"Uh, don't you need a neutral or something?" Squirt suggested, turning somewhat greenish.

"Oh...probably wouldn't hurt," I said. "I think I'll just grab that jumper cable over there and ground the cabinet to the bus bar on the back of the bench. Ground is ground."

After connecting up the jumper cable, I gestured toward the main power breaker on the front panel of the beastly boat anchor.

"You may have the honors, Squirt."

"Do you have a broomstick or baseball bat or something to flip it with? I really want to be a ways away from this...like in a different



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room...or different neighborhood...or something.”  
“Don’t be such a pantywaist, Squirt. Ham radio is a man’s hobby.”

Squirt sighed and then positioned himself in a sprinter’s crouch, facing away from the bench in order to make a quick getaway should it be necessary. He reached behind him and, with visible trembling, flipped the switch. A fan came to life, accompanied by a mild hum and a gentle orange glow. A few moments later, the eerie purplish glow of mercury vapor rectifiers bathed the room.

“What’s that!” Squirt asked nervously, getting ready to sprint out of the room again.  
“What’s what?”  
“That purple glow!”  
“Those are mercury vapor rectifiers.”  
“It’s supposed to do that?”  
“Do what?”  
“Glow purple like that! It looks like it’s gonna blow!”  
“Just some friendly ionization. Doing what they do best.”  
“Shouldn’t we be wearing...um...lead aprons or something?”  
“A little ultraviolet never hurt anyone. You could use a tan anyway.”

We admired my handiwork for a minute or two...or at least I did...when we were unceremoniously interrupted by a sizzling sound, followed by a loud hum and then a few clicks and clacks, and then utter darkness. Squirt began to scream as if he was alone in an absolutely pitch black basement with a madman and a demon-possessed linear amplifier.

“Call 911! Where’s the first aid kit! We’re going to die down here!”  
“Oh, fer Pete’s sake, calm down! It’s just a couple of popped circuit breakers. Mercury vapor rectifiers sometimes backfire if they haven’t been used for a while.”

Little did Squirt know, I was prepared for just such an occasion? I always kept a fully charged 300uF, 450 volt electrolytic capacitor on the shelf above my operating position. I knew exactly where it was, even in the dark. I also knew where my industrial strength shorting stick was.

I whispered in the darkness.

“Shh...do you hear that?”  
“No. What?” Squirt answered, nervously.  
“Listen very carefully.”

I brought my shorting stick to the terminals of the capacitor and ker- BANG!! A shot like an M-80 rang out as the blue white arc lit up the room for a fraction of a second, just long enough for me to see Squirt’s horrified expression before he passed out cold onto the floor with a thud.

Squirt doesn’t come to visit much any more...I’m not sure exactly why. He’s probably too busy conducting safety seminars or something like that. Well, there’s always another young ham around the bend, I figure.

### **A comment from the editor:**

The above article was submitted in a humors context, and I hope you read it in that context since it was quite good. At this time I would like to take a moment to give some helpful hints when submitting articles.

- a) Text should be single spaced, with no headers or footers, as text is going to be converted into a desktop publishing format.
- b) Most fonts are fine, “Pages” (the software I’m using) has many more fonts than most, but just to be safe side just use standard fonts, like arial, helvetica, century, etc.
- c) Avoid using spaces instead of tabs. Tabs work great in conversion, spaces not so much. if in doubt, just type text unformatted, “Pages” will take care of most the mundane formatting, and the rest I’ll do, I’m going to have to do it anyway. might as well make it easier for you.



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## VA3/VE3 Incoming QSL Card Bureau

The VA3/VE3 Incoming QSL Card Bureau is a low cost means for Ontario radio amateurs to receive QSL cards. The Bureau is organized as a not for profit corporation in Ontario. It is operated as a user-pay system. The Bureau is an independent entity, and is not supported financially by the Radio Amateurs of Canada (RAC). Membership in RAC is not required to use the VA3/VE3 Incoming QSL Bureau.

The Bureau operates a website ([ve3qcb.ca](http://ve3qcb.ca)) where you may find out if there are cards being held for you by clicking the "Do You Have Cards?" tab on the website. If you do not want the Bureau to send cards to you, please let us know, and also please put a note to this effect on the [www.qrz.com](http://www.qrz.com) listing for your callsign.

As a bureau user, you must supply funds to pay for postage and printing of address labels to the Bureau in order to receive any cards being held for you. You may submit funds via PayPal or credit card using the bureau's website. Click the "Deposit Funds" tab on the website for instructions. A minimum deposit of \$10 is required to cover the cost of envelopes, address labels, postage and handling. Please note that the bureau does not accept self addressed envelopes with stamps or otherwise, or loose stamps.

Please note that if we do not have your correct mailing address we can't send cards to you. If you have chosen not to have your address published by Industry Canada or with the QRZ or Buckmaster databases and you want cards you will have to send us your address directly.

If you wish to mail in funds to the Bureau, please send a cheque (no cash please) to the Bureau address at VA3/VE3 Incoming QSL Bureau, PO Box 216, Streetsville, Ontario, L5M 2B8. Please make the cheque out to: "VA3/VE3 Incoming QSL Card Bureau". Please write your callsign on the cheque, and provide an email address if you have one and a phone number so that we can contact you.

The operations of the Bureau are performed by mailing volunteers, who sort incoming QSL cards, and distribute them to Bureau users who have funds on account. The QSL cards are received from the Canadian National Incoming QSL Bureau (which is operated by RAC) in New Brunswick about 6 times per year.

Mailing of cards to users takes place once about 24g of cards accumulate, unless the user requests otherwise, to minimize costs. Only users with sufficient funds on file will receive cards. Unclaimed cards will be held for a maximum of one year only.

The Bureau charges a handling fee per mailing to cover the cost of Bureau operation such as the cost of the post office box, the cost of envelopes, etc.

The VA3/VE3 Incoming QSL Card Bureau is not associated with the RAC Outgoing QSL Bureau, which is managed by RAC for its members. Further information can be found in The Canadian Amateur (TCA) publication of RAC, as well as at the RAC website (<http://www.rac.ca>).

If you have any questions you can contact the Mike Christmas VE3XMS/VA3FS, the Bureau Manager, using the "Contact Us" tab on the Bureau website, or by mail to the address above.

Prepared by Don Hedger VE3TSQ  
VA3/VE3 Incoming QSL Card Bureau  
Bureau Projects and Committee Manager





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Editors note: This is submitted, from Michael Brickell, VE3TKI, on behalf of the OPDX

"DX Bulletins

There are a number of very good dx bulletins available, either through free subscriptions, for example the OPDX Bulletin (see the example below), or through a relatively modest subscription fee. Those of us who chase DX use these bulletins extensively, to find out what is coming up in the next little while dx-wise, and to keep on top of the status of future dxpeditions:"

From: [opdx-bounces@barf80.org](mailto:opdx-bounces@barf80.org) [<mailto:opdx-bounces@barf80.org>] On Behalf Of  
Tedd Mirgliotta (KB8NW)  
Sent: October-05-14 12:15  
To: Ohio/Penn DX Mailing List  
Subject: [OPDX] Ohio/Penn DX Bulletin #1183

SB DX @ WW <KB8NW \$OPDX.1183  
Ohio/Penn DX Bulletin No. 1183

The Ohio/Penn DX PacketCluster  
DX Bulletin No. 1183  
BID: \$OPDX.1183  
October 6, 2014  
Editor Tedd Mirgliotta, KB8NW  
Provided by [BARF80.ORG](http://BARF80.ORG) (Cleveland, Ohio)  
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finished and sent out from Strongsville, OH

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn PacketCluster Network, AB5K & the AR TelNet Clusters Network, K1XN & GoList, NJ1Q & W1AW, NG3K & ADXO, W3UR & The Daily DX, N4AA & QRZ DX, N5JR, K8GI, K8YSE, W8GEX & 60m News, AT International, CE3KHZ, CO8ZZ, DL7UXG & The DX News Letter, DL1SBF, [DxCoffee.com](http://DxCoffee.com), [DX-World.Net](http://DX-World.Net), ES1CW, F6AJA & Les Nouvelles DX, I1JQJ/IK1ADH & 425 DX News, I2MQP & DX Italia News, JA1TRC, JT1CD, OZ6OM & 50 MHz DX News, RSGB IOTA Web Site, Sixitalia Weekly, S50U, VA3RJ & ICPO, and the VHF-DX-Portal (MMMonVHF) for the following DX information.

DXCC COUNTRY/ENTITY REPORT: According to the AR-Cluster Network for the week of Sunday, 28th-September, through Sunday, 5th-October there were 229 countries active. Countries available:  
3A, 3B8, 3B9, 3D2, 3DA, 3V, 3W, 4J, 4L, 4O, 4S, 4U1I, 4X, 5A, 5B, 5H, 5N, 5R, 5T, 5W, 5X, 5Z, 6W, 6Y, 7Q, 7X, 8P, 8R, 9A, 9H, 9J, 9K, 9M2, 9M6, 9N, 9U, 9V, 9X, 9Y, A2, A3, A4, A5, A6, A7, A9, AP, BV, BY, C2, C3, C6, C9, CE, CE0Y, CE9, CM, CN, CP, CT, CT3, CU, CX, CY0, D2, D4, DL, DU, E5/s, E7, EA, EA6, EA8, EA9, EI, EK, EL, EP, ER, ES, EU, EX, EY, EZ, F, FG, FK, FM, FO, FR, FY, G, GD, GI, GJ, GM, GU, GW, H4, HA, HB, HB0, HC, HH, HI, HK, HL, HP, HR, HS, HV, HZ, I, IS, J2, J3, J6, J8, JA, JD/o, JT, JW, JY, K, KH2, KH6, KL, KP2, KP4, LA, LU, LX, LY, LZ, OA, OD, OE, OH, OH0, OJ0, OK, OM, ON, OX, OY, OZ, P2, P4, PA, PJ2, PJ4, PJ5, PJ7, PY, PY0F, PZ, S0, S5, S7, SM, SP, ST, SU, SV, SV5, SV9, T30, T32, T5, T7, TA, TF, TG, TI, TJ, TK, TN, TR, TT, TU, UA, UA2, UA9, UK, UN, UR, V3, V4, V5, V6, V7, V8, VE, VK, VK9X, VP2E, VP2V, VP5, VP8, VP8/h, VP9, VR, VU, XE, XT, XU, YA, YB, YI, YJ, YK, YL, YN, YO, YS, YU, YV, Z3, Z8, ZA, ZB, ZD7, ZD8, ZD9, ZF, ZK3, ZL, ZP, ZS

\* PLEASE NOTE: The report "could" contain "Pirate/SLIM" operations or more likely a "BUSTED CALLSIGN". As always, you never know - "Work First Worry Later".

3D2, FIJI (Reminder). Aki, JA1NLX, is now active as 3D2YA from Mana Island (OC-121) in the Mamanuca group until October 9th. Activity will be on 30-10 meters using mainly CW and some SSB/Digital, if possible. QSL via JA1NLX, direct or via the OQRS. DO NOT SEND VIA THE BUREAU. NO IRC. For more details, see: [http://www.asahi-net.or.jp/~yy7a-ysd/3D2YA\\_2014.htm](http://www.asahi-net.or.jp/~yy7a-ysd/3D2YA_2014.htm)

4L, GEORGIA. Operator Vaho, 4L8A, will be active in the CQWW DX SSB Contest (October 25-26th) as a Single-Op/Single-Band (20m) entry. QSL via K1BV orLoTW.



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5W, SAMOA. Before their KH8 operation as part of the ARRL Centennial celebration (W1AW/KH8, see OPDX.1175), operators John/N7CQQ, Cliff/KD6XH and Paul/W8AEF will be active as 5W0QQ, 5W0XH and 5W0EF, respectively, from Apia between October 23-28th. Activity will take place before and during the CQWW DX SSB Contest (October 25-26th). QSL via their home callsign, direct and LoTW.

A3, TONGA. Lee, VK3GK, who was recently active from Norfolk Island, is now active as A35RT from Eua Island (OC-049) until October 13th. His activity will be limited due to his involvement in the Rotary International Humanitarian project. However, he does plan to be active in the Oceania DX Contest on CW and SSB. Operations outside of the contest will be on 80-10 meters, including the 30/17/12m bands, using CW, SSB and possibly RTTY. QSL via his home callsign, direct or by the Bureau.

A7, QATAR (Press Release) [edited]: "Once again, a joint team with members from the 'Danish Contest Academy' and the 'Qatar Amateur Radio Society' will be active from Al Khor in northern Qatar in the M/2 category in the CQWW DX SSB Contest (October 25-26th) as 'A73A'. Operators Jan/OZ1ADL, Aziz/A71GO, Mubarak/A71AE, Alex/OZ7AM, Abdulrahim/A71BA, Abdul/A71BR, Ken/OZ1IKY, Mindaugas/LY4L, Jogesh/VU2BZY, Tom/A7WT2NY, Younis/A41MA and more members of QARS will be active from the compound and at the same time use the opportunity to display Radio Sport to visitors. The team will be setting up the station in the week prior to the Contest and will be active with the regular club callsign A71A, with a particular emphasis on the low bands. QSL via A71A."

D4, CAPE VERDE. Ralf, DK8FA, will be active as D44TUJ from Boa Vista (AF-086) until October 15th. QSL via DK8FA, direct or by the Bureau.

E3, ERITREA (Update/Dated September 23rd). Jay, JA1TRC, from the FGC Radio Team reports: "Zorro shut down the station around 18:00 UTC on 22nd September for this trip. He reported that he made 4,200+ QSOs, with his pleasure of giving ATNOs. He said it was the toughest QRV from DX he had ever experienced and exhausted himself by his official duties. However, he was healed whenever he heard 'Thank you Zorro for your hard work. 'He is on his way back to JA land and expected to arrive Tokyo around noon on 24th September local time. We will start arranging DXCC and LoTW documentations and register the LoTW account. We also will provide ClubLog online check and OQRS for convenient QSLing, after he returns to SEISA/FGC office."

EA8, CANARY ISLANDS. Alex, RA1A, will be active as EA8/RA1A from the Canary Islands during the CQWW DX SSB Contest (October 25-26th) as a Single-Op/Single-Band (15m) entry. QSL via RN3RQ or LoTW.

#### IOTA NEWS.....

AF-018. Operator Raffaele, IH9YMC, will be active from Pantelleria Island (IIA TP-001, MIA MI-124, WW Loc. JM56XT), African Italy, during the CQWW DX SSB Contest (October 25-26th) as a Single-Op/Single-Band (??) entry. QSL via eQSL.

AF-040. (Reminder) By the time you read this, Markus, DJ4EL, will be active as 5Z4/DJ4EL from Lamu Island, Kenya, until October 19th. Activity will be on 40-10 meters using SSB. QSL via his home callsign, direct or by the Bureau. QSL also via the LoTW.

AF-109. Miran, S500, will operate as IG9/S500 from Lampedusa Island, QTH Punto Alaimo (WW LOC JM65HM) until end of November. Miran will participate in both SSB and CW CQWW Contests as IO9Y team member in Multi/Multi entry from ZONE 33. All QSLs for IG9/S500 via his home callsign by the Bureau, direct with SASE + 2 USDs or Clublog's OQRS. Cards will be ready to print soon into 2015, LoTW later.

AS-200. Taka, JA8COE, will be active as JA8COE/5 from Shodo Island between October 16-19th. Activity will be on 80-10 meters using CW, SSB and the Digital modes. QSL via JA8COE, direct, by the Bureau or the OQRS on ClubLog. He has a Blog page at: <http://takaja8coe.de-blog.jp>

AS-201. Metin, TA1ED, will be active as TC0MI from Marmara Island between October 5-8th. Activity will be on 80-10 meters. QSL via his home callsign, direct or by the Bureau.

EU-031. Michele "Mike", IZ8XLP, will be active as IC8/IZ8XLP from Ischia Island (IIA C001) between October 18-24th. Activity will be holiday style on 40/20/17/15/12/10 meters using SSB only. QSL via his home callsign, direct, by the Bureau or the OQRS on ClubLog. For more information, see his Web page at: <http://www.bitebyte.biz/ic8iz8xlp>

NA-247. (NEW) By the time you read this, operators Dom/3Z9DX, Jeremy/ EI5GM, Dave/EI9FBB, Frans/J69DS and Col/MMONDX should be in St. Maarten with the primary aim to activate the NEW IOTA -- Pelikan Key, St. Maarten's Coastal Island. Their



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approximate dates of activity are scheduled between October 6-10th, but as with most island activations everything is dependent on calm seas and good WX. They will be using the callsign PJ7PK. Activity will be on 40-10 meters using CW and SSB. QSL via 3Z9DX, direct, by the Bureau or to paypal request (please, no need to send a paper card). For more details and updates, see: http://pj7pk.net or https://twitter.com/@pj7pk

SA-086. Just a reminder that the Chilean DXpedition Team will be active as XR2T from Damas Island (WLOTA-0029, FG40fs) between October 8-12th (likely dates -- See OPDX.1181). QSL via their manager CE3OP, direct or by the Bureau. For more details and updates, see the following at: http://www.qrz.com/db/XR2T or http://www.xr2t.cl/index.php

JD1, OGASAWARA. Freddy, F4HEC, will be active as JD1BOX from Chichijima Island (AS-031, WLOTA 2269, WWFF JAFF-018, JCG 10007), Tokyo Prefecture, between December 4-12th. Reports indicate that Freddy is one of the very few European operators to ever receive a JD1 callsign. Activity will be on 80-10 meters using SSB only. QSL via F4HEC, by the Bureau or direct.

JD1, MINAMI TORISHIMA. Take, JG8NQJ, will once again be active as JG8NQJ/JD1 from Marcus Island in the Minami Torishima (OC-073, JCG 10007) group between mid-October until mid-December. He is usually there to work on the island's weather station. Activity will be limited to his spare time. He will be mainly on 17 meters but also on 15/12/10 meters CW. QSL via JA8CJY, by the Bureau or direct to: Susumu 'Sin' Sanada, 5-17, 5-4, Shin-Ei, Toyohira, Sapporo 004, Japan. Online log is available at: http://dx.qsl.net/cgi-bin/logform.cgi?jd1-jg8nqj

JU50, MONGOLIA (Special Event). Look for special event station JU50VOM to be active until October 31st. Activity is to commemorate the 50th anniversary of the foreign language radio "Voice of Mongolia". QSL via JT1BV, direct, LoTW or eQSL).

NEED HELP FUNDING A DXPEDITION? QSL Manager Pedro, EA5GL, states, "If you're thinking of organizing a trip or DXpedition, please contact me before. I can offer financial assistance for the project." His E-mail address is: pedro.ea5gl@gmail.com

P3, CYPRUS. Operators Bob/5B4AGN, Dennia/F5VHY, Roger/G3SXW and Jack/G8DX will be active as P3F from the Cyprus QTH of 5B4AGN for the CQWW DX CW Contest (November 29-30th) in the Multi-Two category. The visiting operators will probably operate before and after the contest as 5B/homecall. QSL via their home callsigns. QSL P3F via M0URX or LoTW.

P4, ARUBA. Operators Joel/N5JR (P40JR) and Jim/NT5V (P40JW) will be active from Aruba between October 7-14th. They will operate CW, SSB and RTTY on 160-6 meters with an emphasis on 30/17/12m and 80/160m. QSL via their home callsigns or LoTW.

PJ2, CURACAO. Frank, PA4N, will be active as PJ2V from Curacao Island (SA-099) during the CQWW DX CW Contest (November 29-30th) as a Single-Op/ Single-Band (15m) entry. Outside of the contest, Frank states, "I might be active as PJ2/PA4N, holiday-style operation." He will upload his log to LoTW within one week after the contest. QSL via his home callsign.

PROPAGATION FORECAST/REPORT (October 6-12th)....

Oct/06th AN Oct/09th DIS Oct/11th AN
Oct/07th AN Oct/10th HN Oct/12th AN
Oct/08th HN

SOLAR REFERENCE KEYS/INDEXES AND GEOMAGNETIC REFERENCE

Table with 4 columns: NORMALITY, GEOMAG, K Values, Alpha. Rows include AN - Above Normal, HN - High Normal, LN - Low Normal, BN - Below Normal, DIS - Disturbed, VRY DIS - Very Disturbed, Quiet, Unsettled, Active, Minor Storm, Major Storm, Severe Storm.

QSL INFO AND NEWS.....QSL-INFO from DB0SDX (October 5th)

3D2YA via JA1NLX IT9/IZ8FFA via IZ8FFA R6DX via R6DX
3Z50AYP via SP7DQR K0L via K0ESU SN0S via SP5IOU
5Z4/DJ4EL via DJ4EL KH2L via W3HMK & KH2-(B) SN0SOTA via SQ6GIT



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5Z4/DL3SFK via DL3SFK	L48DZV via LU7DZV	SV5/DL3DRN via DL3DRN
5N54EAM via IK2IQD	LZ1375IKA via LZ1KCP	SV8/HB9AAI via HB9AAI
5Z4/DL5NAH via DL5NAH	OA6Q via OE3NHW	SV8/PA0PMD via PA0PMD
A520 via OH2YY	OE6XMF/MM via OE1GTU	SV8GKE via SV3DCX
C6AAS via PY2WAS	OG5N via OH1CQ	SW9XB via DJ9XB
C7A via 4U1VIC	OK2RJC via OK2RZ	SX100TS via SV2HXV
CT7/DJ5YQ via DJ5YQ	OP37AEF via ON4OB	T30D via DL4SVA
CT7/DL9UBF/P via DL9UBF	OZ/DG5LAC via DG5LAC	TM1GM via F6AJM (B)
E51HDJ via DJ2HD	PA35UNIFIL via PC9C	VP5/G3SWH via G3SWH
E51XIW via DJ5IW	PJ6/G4IUUF via G4IUUF	VP9/ND8L via ND8L
EA8/DF2RY via DF2RY	PJ7PL via WA1ZAM	VY2ZM via EA7HBC
EA8/DL2MDU via DL2MDU	PP5JD via PY3VB	YB9/HA3JB via HA3JB
EN90WF via UW1WU	R2014FI via R6DAG	ZL1X via ZL2MF
FR/DJ7RJ via DJ7RJ	R2014FL via RA6UA	ZM1A via ZL3CW
HB0/DL3TU/P via DL3TU	R2014FM via R7AM	ZP5VIA via DJ6QT
HB0/DL4AAE/P via DL4AAE	R2014FP via RW6AU	ZR9C via EA7FTR
HF3A via SP3PJY	R2014FQ via UA6YW	ZS4A via EB7DX
HF8SOTA via SP8PLM	R2014FX via RW6HS (d)	
IE9/IQ8QX via IK8YFU	R2014FY via RU6YJ	

(e) eQSL only (d) direct only (B) Bureau only (L) LoTW only  
(O) OQRS only (C) ClubLog only

QSL 3V8BCC via DJ2MX. Activity was during the CQWW DX RTTY Contest this past weekend from Zone 33 as a Multi-Op entry. It was a joint activity between ARAT and BCC. Operators were KF5EYY, DL6RAI, DL2MLU, F4HJD, DK7MCX, DJ4MZ, F5PUT and 3V8CB.

QSL RECEIVED VIA LoTW: 3D2KM, 3D2LJ, 4K6FO, 4L8A, 7QNL, 9M2TO, A54BD, A71AE, AL9A, BD9XE, BH4TXN, DM2DXA, E30FB, EG2INT, EG6RAY, EW8DJ, F5VKT, G8NEO, GI5I, GI7AXB, GM7R, HB0A, HB9BOI, HL4CKT, HZ1PS, JA1CTZ, JE4CIL, JG3RPL, JH4UYB, JR4OZR, KC4AAA, KH6GMP, KH6ZM, LA3S, M0OSH, M0TMC, OK1DO, ON6ZV, PA7JJ, R7LV, R7MA, R1ANC, SA3ANZ, SN7Q, SU9AF, TA1BM, TY1AA, UN3GX, UX7QV, VE7SV, VK3TDX, VK6IR, VK9BT, YL100PW, YL2KF, YO4DW, YO5NY, YS1/NP3J, YT9A, YV5YMA, ZD8RH, ZD9XF and ZL3TE

QSLs RECEIVED VIA MAIL: 9G5ZZ, DU1GM, JT1AA/3, RW0SC, T6DD, VP2ERM and YB4IR/8

QSLs RECEIVED VIA THE BUREAU: 4K9W, 4S7DFG, 4S7FRG, 4S7LXG, 8Q7MH, 9Y4W, A25CE, CO88ZZ, CP4BT, DL0SOP, DQ25GRENZE, EA6VQ, EA8/DD5ZZ, ES2MC, ES4QR, ES5QD, ES5TV, ES6RQ, ES9A, ES9B, ES9EFF, ES9HQ, ES0F, ES0IA, ES0U, ES0S, FG/DM1DZ, FJ/DK7LX, FS/LY2IJ, HB0A, HB0/DF4SA, HI7/DM1DZ, HK1/CO8ZZ, JW/DL5CW, JW/LY2KW, LY75FOC, LY80L, SV5/DL3DRN, SX100A, T48K, TF/DK7LX, TO7BC, V21ZG, V3IRU, VP2MMN, VP9/DJ4EL, VU2CDP, VU2NP, VU2PAI, VU2SGW, VU3DJQ, VU3DMP, W3MCG/VE4 (56 yrs), XW2CW, YC1CWK, ZA/DL4KM/P, ZA/DL7UCX and ZL8X

SILENT KEY. OPDX has been informed that Bob Elms VK6BE, became a Silent Key (SK) on Friday, September 26th, at the age of 94. Bob was a VK6legend. He was also a WIA Broadcast Officer from his home in Central St. Kalamunda for many years before the move south. OPDX and its readers would like to send out our deepest sympathy to the friends and family of VK6BE.

T48, CUBA. Members of the "Las Tunas Contest Crew" (T48K) [check out -- <[http://www.facebook.com/lastunascontest.crew?ref=tn\\_tnmn](http://www.facebook.com/lastunascontest.crew?ref=tn_tnmn)>] will be active during the CQWW DX SSB Contest (October 25-26th) as a Multi-2 or Multi-Single entry, depending if they can complete new stub filters. They are going to use a Vertical Dipole Antennas (VDA) on 10, 15 and 20 meters; loops on 40 and 80 meters and inverted L on top band from "Playa La Herradura" at Las Tunas north-coast. Operators will be Alex/CO8KA, Alex/ M8AKY, Doug/CO8DM, Raúl/CO8ZZ and guest operators Wal/CO8WAL and Jose/CM2XN. QSL via DK1WI.

TG9, GUATEMALA. Dwight, VE7BV, will once again be active as TG9/VE7BV from Guatemala between January 22nd and February 17th (2015). Activity will be holiday style on 20/17/15 meters using CW and SSB. QSL via his home callsign, direct, by the Bureau or LoTW.



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V6, MICRONESIA. Operators Shinji/JF2SDR and Nobuaki/JA0JHQ will be active as V63PJ and V63XP, respectively, from the SouthPark Hotel on Phonpei Island (OC-010) between November 7-10th. Activity will be on 40-6 meters. QSL via the operator's home callsign. More details are forthcoming.

V8, BRUNEI. YL operators Kyoko/JR3MVF, Evelynne/F5RPB, Ruth/IT9ESZ and Waltraud /DJ6US will be active as V84YL from Darussalam starting November 5th until the 10-12th. Activity will be on all HF bands using CW and SSB. QSL via DJ6US, by the Bureau or direct.

VK0EK, HEARD ISLANDS NEWS (Press Release - Propagation Page Added). Rich, KY6R, reports: "We have added a propagation page to help you plan for your Heard Island ATNO! Please check out the new page here: <http://vk0ek.org/propagation/> If you are in Santa Clara, California for Pacificon, don't miss Rich, KY6R's, Antenna Forum presentation at 8 AM on Friday, October 11th. The presentation will feature VK0EK propagation - and even antenna strategies. Pacificon information can be found here: <http://pacificon.org> Look at the Forums section and then the Antenna Forum."

XW, LAOS. Champ, E21EIC, will once again be active as XW11C (ex-XW0YJY)from Vientiane. Activity will be during the CQWW DX SSB Contest (October 25-26th) as a Single-Op/All-Band/High-Power entry. QSLs must be requested via the OQRS on ClubLog or via E21EIC and LoTW.

XX9, MACAU. Operators Eugene/EA5HPX, Fran/EA7FTR, YL Veronica/EA7JQS, Jose/EB5BBM, David/EB7DX, Oleg/US7UX, and their respective XYLs will be active as XX9R from Praia de Cheoc Van, at the Pousada of Coloane Hotel between October 22nd and November 1st. Activity will be holiday style on all HF bands, 160-6 meters, including 30/17/12m, using CW, SSB and RTTY. Suggested frequencies are: CW - 1823, 3523, 7023, 10103, 14023, 18073, 21023, 24893 and 28023 kHz SSB - 1825, 3780, 7065/7160, 14145, 18145, 21295, 24950 and 28495 kHz RTTY - 7035, 10140, 14080, 18100, 21080, 24921 and 28080 kHz 6m - 50103/CW and 50120/SSB They will have possibly two or three stations running simultaneously. The team will also be an entry in the CQWW DX SSB Contest (October 25-26th). QSL via EB7DX. For more details and updates, see: <http://www.macao2014.com>

ZA, ALBANIA. Father and son operators Franck/F4DTO and Patrick/F4GFE will once again be active from from Elbasan as ZA/ homecall between October 18-27th. Activity will be holiday style on 40-10 meters SSB only usinga Yaesu FT-450 with 100w into a dipole and vertical for 10m. QSL via their home callsign, direct or by the REF Bureau. No eQSL.

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TO BE ADDED TO THE OPDX MAILING LIST -- Click or send requests to:

- Help: <<mailto:opdx-request@barf80.org?subject=help>>
- Subscribe: <<mailto:opdx-request@barf80.org?subject=subscribe>>
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OPDX WORLD-WIDE WEB HOME PAGE (provided by John, K8YSE): <http://www.papays.com/opdx.html>  
ALSO VISIT THE NORTHERN OHIO DX ASSOCIATION'S WEB PAGES AT: <http://www.nodxa.org/> or <http://www.facebook.com/NorthernOhioDxAssociation>

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\*\* To contribute DX info, please send via InterNet Mail to:  
<[kb8nw@barf80.nshore.org](mailto:kb8nw@barf80.nshore.org)> OR <[kb8nw@arrl.net](mailto:kb8nw@arrl.net)> OR <[kb8nw@hotmail.com](mailto:kb8nw@hotmail.com)>  
Information can now be faxed to the following phone line at: 1-419-828-7791 (F A X only!)  
/EXIT

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Tedd Mirgliotta, KB8NW - E-mail addresses: <[kb8nw@barf80.nshore.org](mailto:kb8nw@barf80.nshore.org)> <[kb8nw@hotmail.com](mailto:kb8nw@hotmail.com)> <[kb8nw@arrl.net](mailto:kb8nw@arrl.net)>  
Editor of the Ohio/Penn DX Bulletin (OPDX - DXer's Tool of Excellence) President of the "Northern Ohio DX Association" (NODXA) DX Chairman for the "Northern Ohio Amateur Radio Society ARRL Assistant Director of the Great Lakes Division Sysop of the "Basic Amateur Radio Frequency BBS" ([BARF80.ORG](http://BARF80.ORG))

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OPDX mailing list  
[OPDX@barf80.org](mailto:OPDX@barf80.org)  
<http://hamnet.org/mailman/listinfo/opdx>



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VE3MIS/VE3RCX

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October 2014

I ran across the old newsletter of the BARC when researching Canadians who have experience with SteppIr antennas.

I harvested the following bits in the course of a read of a past year or so of archives, and thought we could probably recycle them, if needed.

Dumb obvious but good primer on coax testing:

<http://www.hamuniverse.com/HSOZHMrctthEmCommsimplecoaxtesting.pdf>

You're a Ham if ...

Your teenager refuses to ride in your car because it looks like a porcupine  
you know the Latitude and Longitude of your home QTH  
the propagation forecast means far more to you than the local weather forecast  
you'd rather help a buddy put up a new tower than mow the lawn

You ever tapped out HI in Morse on your car horn to another ham  
You've grabbed the wrong end of a soldering iron  
You've stripped wire with your teeth  
You charge your HT more often than your cell phone

Your HF amplifier puts out more power than the local radio station.

When you see a house with a metal roof and your only thought is what a great ground plane that would be.

The first question you ask the new car dealer is: "What is the alternator's current output?".

Your family doesn't have a clue what to get you for Christmas, even when you tell them.

You refer to your kids as "harmonics", and happen to mention your wife as your xyl while she is within hearing range.

You have accidentally said your Amateur Radio call sign at the end of a telephone call.

You really start to miss people you've never seen.

Your exercise machine is a Morse code keyer.

Every family vacation includes a stop at a Ham radio store.

Your favourite vacation spots are always on mountain tops.

Dumb obvious but good primer on coax testing:

<http://www.hamuniverse.com/HSOZHMrctthEmCommsimplecoaxtesting.pdf>

**Mike Wilde, P.Eng. PMP**

Attend all the regular club meetings,  
all times and events are posted on the club website:

**[WWW.MARC.ON.CA](http://WWW.MARC.ON.CA)**



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VE3MIS/VE3RCX

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October 2014

## Membership Renewal

By Rick Brown VE3IMG

It's a new club year and time to renew your membership. There are changes to our fee structure and revisions to the membership form.

We have reduced the number of membership types and revised our rates. Gone are Student, Family and Individual memberships. They all have been rolled into one Basic Membership, \$40 per family household. We offer preferential rates to Radio Amateur of Canada members in good standing. Provide us with your RAC membership number and you can join for \$35. The same family household rule applies.

With changes to the Canadian Anti-Spam legislation, we have revised and simplified our membership form. All members need to submit a completed form when renewing. We now require your express permission to:

- 1) Receive email notifications when a new MARC Newsletters is made available.
- 2) To be included in the MARC\_Members\_Yahoogroup
- 3) To make personal contact information available to club members.

You can download the membership form at:

[http://www.marc.on.ca/marc/documents/doc\\_marc\\_mbrshp.asp](http://www.marc.on.ca/marc/documents/doc_marc_mbrshp.asp).

Filling out the Excel version of the form is preferable to the handwritten pdf. Bring your completed form along with cheque or cash to a club meeting for processing. If you can't make it to a meeting, you can mail the form and cheque to our Post Office box:

Mississauga Amateur Radio Club  
Attention: Membership  
P.O. Box 2003  
Square One Post Office  
Mississauga, ON L5B 3C6  
Canada

Make all cheques payable to Mississauga Amateur Radio Club i.e. not MARC. Please renew promptly. The club relies on membership revenue to conduct business.

See you all at the next meeting with forms and payment in hand.

*(editors note: I have included the membership form available at the above mentioned link)*



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Mississauga Amateur Radio Club  
 P. O. Box 2003  
 Square One Post Office  
 Mississauga, Ontario, L5B 3C6  
<http://www.marc.on.ca>

<b>2014 / 2015 MEMBERSHIP REGISTRATION FORM</b>				Date:	
Call Signs		Last Name		First Name	
Address Street				Apt	
City		Prov/State	Postal Code	Country	
Home Phone		Business Phone	Ext	Cell Phone	
E-mail Address			E-mail address associated with MARC_Members Yahooogroup		

Family members residing in the same household can be included in the base membership for free. Please provide the following information for interested parties:

Family	Call Sign	Name	E-mail
1			
2			
3			

To conform with Canada's Anti-Spam legislation, we require your permission to provide the following club services. No response will be considered as a "No".	Yes / No
Do you wish to receive an email notification when a club newsletter is posted to the web? Current & past newsletters can be downloaded from <a href="http://www.marc.on.ca/marc/documents/doc_news.asp">http://www.marc.on.ca/marc/documents/doc_news.asp</a> .	
Do you wish to join the MARC Members Yahooogroup? This is a forum where MARC members post information related to Amateur Radio and Club events. You receive postings by email. Access is restricted to participating club members.	
The club roster is posted to the MARC Yahooogroup. It contains personal information provided on this form. It will be available to club members who join the group. Please indicate if we can list phone, e-mail and address information in the roster. The club executive will have access to all information on this form.	Phone
	e-mail
	Address
Do you wish to participate in ARES (Amateur Radio Emergency Services)?	

Membership Fee (One per household)			Class Fee		Course Manual		TOTAL
Regular \$40.00	RAC \$35.00	RAC Membership No. Required for discount	QTY	\$30.00 / Person	QTY	\$50.00 / Manual	
				\$30.00		\$50.00	
Office Use Only	Date Pmt Received	Cash	Cheque	PayPal	Received By Signature		

Personal information collected in accordance with Mississauga Amateur Radio Club privacy policy available at [http://www.marc.on.ca/marc/site/site\\_legal.asp](http://www.marc.on.ca/marc/site/site_legal.asp)



# Radio Amateurs of Canada

## Ontario



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Full - Regular - paper TCA \$56.00 + \$7.28 (tax) = \$63.28  
Full - Family \$25.00 + \$3.25 (tax) = \$28.25  
Full - Blind \$25.00 + \$3.25 (tax) = \$28.25  
Full - Maple Leaf Operator \$100.00 + \$13.00 (tax) = \$113.00  
Full - Limited \$38.00 + \$4.94 (tax) = \$42.94  
Full - Regular - e-TCA Only \$48.00 + \$6.24 (tax) = \$54.24

Associate - Regular - paper TCA \$56.00 + \$7.28 (tax) = \$63.28  
Associate - Family \$25.00 + \$3.25 (tax) = \$28.25  
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Note that the family membership fee applies to each family member who joins in addition to the principle member.

I wish to join for 1 yr

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If were previously a member please give your membership number  
or the callsign you held when you were previously a member \_\_\_\_\_

Name \_\_\_\_\_ Callsign \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Province \_\_\_\_\_ Postal Code \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Family Members \_\_\_\_\_

For blind membership please provide your CNIB number \_\_\_\_\_