



The Halifax Amateur Radio Club

REFLECTOR

PO BOX 8895
HALIFAX NS
B3K 5M5

January 2016, Volume 77 Number 1
club web site is www.halifax-arc.org



**Yes it's Winter but there's
a little More Daylight Each Day now**



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The January 2016 General Meeting of the Halifax Amateur Radio Club will be held Wednesday, January 20, in the Senior's Room on the 1st floor of the St. Andrew's Centre, 3380 Barnstead Lane, Halifax.

6:30pm - Social with refreshments. Also an IC-745 is to be auctioned. The IC-745 is in the radio room; pictures of the unit can be found at:

<https://goo.gl/photos/oKT4ohpNdo5okagr9Presentation>

8:30-9:30pm Regular Monthly Business Meeting

Guests are welcome

*Everyone has a right to be stupid.
Politicians just abuse the privilege.*

Photos this issue thanks to Jim, VE1JG; Doug, VE1DFG; Scott, VE1SRV; Neil, VE1YZ

**Deadline for submissions to
the February Reflector is
Saturday February 6, 2016**

Take-15 Net Controllers

This will be the rotation.
We need more net controllers. If you want to join, contact Bill, VE1MR

Jan. 17	Gary	VA1GGM
Jan. 24	Scott	VE1SRV
Jan. 31	Doug	VE1LDL
Feb. 7	Bruce	VE1MLW
Feb. 14	Win	VE1WIN
Feb. 21	Gary	VA1GGM



When insults had class

"I am enclosing two tickets to the first night of my new play; bring a friend, if you have one."

-George Bernard Shaw to Winston Churchill

"Cannot possibly attend first night, will attend second... if there is one."

-Winston Churchill, in response



GENERAL INFORMATION



Sunday evenings:
TAKE-15 NET at 8:30 PM

CLUB REPEATERS:
VE1PSR - 147.270 MHz + TX=82.5
VE1PSR/UHF - 444.350 MHz +
VE1PSR/6M - 53.550 MHz -
access tone 151.4 Hz
VE1HNS - 146.940 MHz - TX=82.5
PACKET: VE1NSD 145.050 MHz
LAN NODE

*Event for Your Calendar***From Arctic & Antarctic DX****(Updated 2016) Worked All NCDXA "RST"
Stations: A Special Event Covering All of
Northern North America!**

Members of the North Country DX Association (NCDXA) will be active in February and March 2016 from several different locations in Alaska, Yukon, Northwest Territories & Nunavut using **KL7RST**, **VY1RST**, **VE8RST** & **VY0RST** to further promote Amateur Radio up north. This is a first for the north- a joint-venture KL7, VY1, VE8 and VY0 special event! All modes 6-160 meters and WARC bands are permissible. SWLs are welcome to participate. The object is to work or log (SWL) as many NCDXA "RST" stations as you can from their different locations. Work/log each "RST" station only once per their QTH/band and mode. No cross band, cross mode or remote operating allowed. Wildcard **PORTABLE "RST" STATIONS** will also participate and are worth 3 points each/mode and band but must be the "RST" stations mentioned below! The portable stations must be outside their own prefix to count (ie-KL7RST/KL7 does not count but KL7RST/VY1, VY1RST/KL7, VE8RST/VY0 etc. count- note portable Canadian calls are in accordance with IC Rules and Regs.). Watch the DX spots as we plan to have stations on from Whitehorse, Yellowknife, Anchorage, Fairbanks, a Canadian research station near the North Pole, a diamond mine in NWT and many other cities (maybe an Alaskan glacier or two!). QSL manager is **K7ICE**. KL7YK is LotW administrator for Alaska, VY0CF for Nunavut and VY1MB for Yukon. Please send your logs in adi format to them and myself. Optional full color certificates are also available (email JohnKL7JR@gmail.com for details) for working/hearing any of the "RST" stations. (QSLs printed by KB3IFH)

SPECIAL EVENT DATE: February 15 (0001Z) through March 27 (2359Z), 2016. **EXCHANGE:** NCDXA "RST" stations send signal report and QTH (ie-5x7 Anchorage, 5x9 Whitehorse etc.). Receiving stations send signal report and state, province or country. **CERTIFICATE LEVELS:** Beautiful full color certificates are available for working/logging

- (1) One or two NCDXA "RST" station (s),
- (2) any KL7RST, VY1RST, VY0RST or VE8RST, but must work one of each
- (3) for those more competitive (keep in mind the scoring is for certificate levels and this is not a contest), a highest score category. Certificates are different scenery shots from the north for each level.

Scoring example: K7QRM works KL7RST in Anchorage on 10m SSB, 10m CW, 15m SSB and 40m CW for his Anchorage total of 4 points. K7QRM works KL7RST at Matanuska Glacier on 10m SSB and 12m SSB for his Matanuska Glacier total of 2 points. K7QRM also works VY1RST in Whitehorse on 10 SSB, 15m digital, 40m CW and 30m CW for 4 points. K7QRM also works VE8RST in Yellowknife on 10m SSB and 20m SSB for a total of 2 points. K7QRM also works VE8RST in Hay River on 10m SSB for 1 point total. K7QRM's grand total points are the city QSO sum of 13 points (plus any wildcard points). Handwritten or pc generated certificate applications are acceptable. First, 2nd, 3rd etc. places will be awarded. All certificates will be emailed in pdf format. Certificate deadline is May 15, 2016. As a bonus, pending snow depth and weather, we may also have KL7RST and VY1RST on together from the border of Alaska and the Yukon on the Alaska Highway. That has got to be another first for the north! A special QSL and certificate will be available for the border op

Thanks in advance for your DX spots!

73 de "Yukon John", KL7JR

2016 RST celebration in memory of Rich, KL7RA (SK). DX in peace OM**Wildcard Portable "RST" Stations**

TWO RIVERS...KL1JP, WL7BDO, KL3UI, KL7/N1TX.

2 Rivers Contest Club (KL2R)

PILOT STATION...KL7DG

KENAI...KL8X

KODIAK...NL7ER

VALDEZ...WL7CG

PRUDHOE BAY...KL7TC & Borealis ARC (WL7CXA)

MATANUSKA GLACIER...KL7JR (rover)

YUKON- VY1RST

WHITEHORSE...VY1RM, VY1JA, VY1EI, VY1MB, VY1MAB

KL7JR and KL7IDA (rovers)

NORTHWEST TERRITORIES- VE8RST

HAY RIVER...VE8NSD

INUVIK...VE8GER

YELLOWKNIFE...VE8AP, VE8WD

EKATI DIAMOND MINE...VE8AP (rover)

NUNAVUT TERRITORY- VY0RST

RANKIN INLET...VY0CF

EUREKA (Ellesmere Island)...

VE1RUS and VE3KTB (rovers)



A bus station is where a bus stops. A train station is where a train stops. On my desk, I have a work station.

PRESIDENT'S MESSAGE for January, 2016

Hello all, WELCOME TO 2016! I hope everyone had a great Christmas and wish all a Happy New Year. I also trust you all got your wish list filled with new radio stuff. For me, it was very quiet both in terms of family and radio. There certainly has not been much on the radio with the latest storms on the sun and all the havoc it has played with propagation. After 3 hours on the radio this morning I had a total of 6 contacts - very slow going.

We have had our Christmas dinner at the Panda Buffet and an excellent time was had by all. There were about 45 people in attendance. The buffet flowed very well with hot and tasty food available. We also announced our Rooky of the Year award and this year's winner is Coral Wickstrom, VA1CAW, a very deserving winner who participates in the club in many ways such as the Brit Fader QSL Bureau: HATS and a JEM Site near her home.

The door prize of a \$50.00 gift certificate was won by Cathy Manuel.

Thank you Betty for setting up the Christmas dinner - it was well done and appreciated by all who attended.

I had the pleasure of attending Tom's (VE1GTC) course on EMO message handling. Once again Tom has done a remarkable job presenting this material to us; it is one thing to work single sideband contacts and entirely another matter to pass formal emergency traffic in very bad circumstances. Experienced hams can learn a lot from this course including speed, accuracy and clarity in a hostile environment. Tom and the HATS team will be presenting more courses that will include first aid, ics-1 thru 4, digital communications, leadership and so on. Please stay tuned for more exciting news on HATS and how you can get involved. Registration forms are available from Tom Caithness and David Musgrave and from the club. This new group is vital to our existence as a club, so please support this project.

In this issue, please read Scott's report on the BARC course. It contains the results of the basic course and some insight into what the future may hold for HARC and its training requirements for current and new hams. After a committee is established and a clear goal is defined and how to accomplish it, the executive will present to the membership. Scott has put a lot of effort into this report and his work is recognized and appreciated by the executive.

I attended my first exam session with Bill, VE1MR, in December after being newly approved as an examiner by Industry Canada. We had 9 write of which 7 passed successfully; the others will write again when they feel they are ready. All those who have attended the course not only this year but in the past are all WELCOME TO ATTEND the HARC meetings and participate in club events. We really would like to see you there as your opinions and votes count in the operation of the club.

My wish this year is to bring the club together again - that is, to restore our membership and participation in the club's events and projects. Very important projects are the new HATS GROUP and the Museum of the Atlantic. The museum requires a police check because we are often dealing with young people. The HATS group has a registration form that allows us specific contact info for you and to make sure you are covered for insurance reasons. Other on-going projects include the MS Walk-a-thon & Bike-a-thon, car rally, Museum Ships Weekend, Flea Market, Field Day, Scouts tours, Cadets (Sea/Land/Air), Guides on the Air, and other special events.

January's social prior to the general meeting is simply that - A SOCIAL - a 10-15 minute business meeting and then time upstairs in the club rooms. This is a chance to talk to others about news and events and ideas. This is what I call special time for each other and we need to do more of this.

As always, be healthy happy and safe and good dx for 2016.

I look forward to seeing you all at the general meeting next Wednesday night.

Respectfully. .Brian Allen, VA1CC

"Any time three New Yorkers get into a cab without an argument, a bank has just been robbed." --Phyllis Diller

The CQ Web site is <http://www.cq-amateur-radio.com/>

Visit http://groups.yahoo.com/group/Canadian_Amateur_Radio_Group/

**Basic Amateur Radio Course, 2015
DRAFT REPORT**

by Scott, VE1SRV

Fall 2015 The Halifax Amateur Radio Club presented our Basic Radio Amateur Course commencing September 10, 2015 and concluding with exams December 20, 2015.

This is the 2nd year for myself, Scott VE1SRV, as the course instructor & coordinator. Last year being my first year I taught about 1/2 the course and had guest lecturers for the balance.

Starting at the conclusion of last year's (2014) course, I took a close look at what was being covered and how much the course being taught was relevant to the Industry Canada's expectations (examination). I came to understand that in some cases the material being covered was not relative to the Basic Course, or personal asides were taking way too much of the class time. So this year I undertook to not just revamp the way the BARC was taught in Halifax but to make it a model for other clubs teaching the same in Canada. It is a large undertaking. This year saw a start to my goal, that is, a new and different approach to the introduction of Amateur Radio through the BARC.

I started right out of the gate, first night with a review of basic math and a review of the SI standards, base units and base unit conversions. A lot of BARC students have not been to school in awhile and have long since forgotten how to convert using decimals and how to find a log value. The first night was a short night and all went home confident that they could understand and use the relatively simple math they would need later in the course to understand some abstract concepts.

Last January (2015) Paul VA1PAL offered to help me design labs to go with some of the chapters in the Coax manual, the study guide we use. These are concepts we need to

know as Hams to pass our basic exam, such as induction, capacitance, propagation and resistance to cite a few examples. Although not all our labs were complete by the start of the fall BARC, there was enough to get started with.

The fall 2015 BARC was not without guests. It was common to have a student from a prior year drop by to say hi!, or sit in on an area they wanted to know a little bit more about. We also had a representative from Industry Canada who showed us some toys and equipment. The spectrum analyzer was a big hit to all, and you know what? We can all read it, understand it and set it up now. What a lab!! We also had a soldering course taught by Bill VE1MR. We learned how to install and solder basic connectors (PL-239 and power poles). A great asset for a new Ham.

Also we worked on team building, and had two food nights. Treats and snacks were enjoyed by all! In fact the course officially ran from 7-10PM, but it was not uncommon to have students still in the class at 11 to 11:30PM, hanging on to the experience for as long as they could.

We also had some video presentations including a spoof video on "what's inside a lead storage battery". (we all know it's light sabers and thousands of AA cells :)). Video of The Bee Gee's "Staying Alive" greeted the students when returning from our break in the safety section. Very funny and all had a great laugh as part of our team building experience.

The fall 2015 BARC was increased to 3 hours each Thursday evening with a short break on the hour. Most evenings Paul VA1PAL would drop by and help out in a variety of ways, including helping me to break some hard concepts down in a way that students could understand. Areas of propagation and RF signals can be

very confusing for beginners to understand (and believe)! Thank you Paul!

Gary VA1GGM & Coral VA1CAW as well as others would drop in from time to time. This was GRAND as it gave the students a first hand look at club members and how they interacted with each other as well as their hobby. They help to draw the new students into the various aspects of our hobby.

Our safety section saw Scott VE1SRV come to the class fully rigged in his climbing gear. It gave me a good opportunity to let the students know that we have a climbing team in our club and, if interested, provide the training needed.

I also added the ability for students to Skype into the class if they had to be away for the evening (but had access to Skype).

What is left to do?

My work is only just beginning. By the next course. I want to have the following additional labs in place:

- Build a simple step up transformer
- Pass the screwdriver through a large energized coil. What happens?
- Make a home brew capacitor
- Introduce resonance using a tray of water
- Cook a hot dog using 120vac and two dinner forks. This demonstrates resistance, including internal battery resistance.
- Bread board an entire regulated power supply

In the 2017 Course, I am planning on recording the audio/video portion of each lesson so they can later be integrated into a Modular concept where I will develop a written module around a specific lab and video. There would be a Module for each section of the course. The idea behind this is to make the course

(Continued on page 5)

(Continued from page 4)

such that one can participate in without having to travel to a club; typically anyone who lives more that about 40 or 50 Km or so. For that matter the modules would be available to anyone who wants to use this mode of learning. They would also have the ability to Skype in to our live course.

I would like to put the next BARC on using a proper class room/workshop in an adult learning centre in Dartmouth. I have chatted with the manager of the Centre and it looks like "no problem".

On the last evening of the BARC I gave the students four questions to answer. The questions were.

- What was your over all opinion of the course?
- What would you like to see changed?
- What would you keep the same?
- Closing Comments
- Rate the quality of the course from 10 to 100

Below is a summary table with the student responses to the above questions

What was your over all opinion of the course? I found the course both interesting and informative. I really enjoyed the course. The course was educational. They also enjoyed the instructor and methods he employed. The ability of the instructor to explain concepts in depth and answer students questions to their satisfaction. The instructor and guests were very knowledgeable. The course was in depth and covered most of the material to prepare for the exam. The course covered more than most originally anticipated. Information stayed relevant (no long asides).

What would you like to see changed?

- More time to the course length.
- More labs, more hands on.
- More white boards for concepts & notes!
- Cover regulations early in the year.
- Use of U-Tube videos on some subjects.
- Introduction of mandatory homework.
- Tests every two weeks or so.

What would you keep the same?

Use of white board. Labs. Short breaks on the hour. The use of

videos. The opportunity for class interaction. Learning and practicing the phonetic alphabet from day one. Practicing using the radio. Keep the teacher! Good instruction and lectures. Demos of tech equipment by Industry Canada rep. Review at the end of each class. Instructor & format! The day of the course (Thursday evenings).

Closing Comments: I really enjoyed having one instructor. It gave the students a chance to build rapport. It gave us consistency in the class. Thanks Scott! I thought the course was very interesting and Scott is a very knowledgeable instructor! :) During the course I felt very at home and could ask questions and the answers were well explained until the answer was understood. No rushing through chapters! Well taught course! Consider running the course in January to June instead. Thank you Scott, for your dedication to your students!!! Good use of training aids to get used to Amateur station operation and allow students to get comfortable with the hobby. More hand outs and quizzes. Do not promote this as an EASY course. It is not easy for everyone.

Rate the quality of the course from 10 to 100

100/100	90/100	90/100
90/100	90/100	85/100
80/100		

Average Score: 88/100

To see the individual question and responses go to
<http://ve1srv.net/>.



Basic amateur Radio Course 2015 Class Picture Left to right Nate, Heather, Scott (VE1SRV), Pauline (VE1, Dustin, Darrel, Keegan and Melinda

Basic amateur Radio Course 2015
Class Results

8 Wrote:

3 Passed with Honours

3 Passed with less than honours

2 will rewrite (mark less than 70)

Call signs:

Keegan Gingell VE1WTF

Darrell MacLean VE1DWX

James Phillips VA1SUN

Nic Swyer VE1NRD

Heather Zinn – NO CALL YET

**Halifax Amateur Radio Club
General Meeting Minutes
18 November 2015**

The meeting was convened at 1935 by Brian, VA1CC

Members present: PAV, SRV, ZMB, JEI, VBT, VA3IIF, MR, QD, CU, VA1ALW, CG, AI, RUS, LDL, DTR, BB, VMJ, GQI, NN, AJP, CAW, PQ, QC, OU, BSW, GTC, WO, IGP, JMA, JHF, BMF, GFA, DHD, JIM, Amanda, Jayne, JG, VA1CC.

Silent Keys: None to report

October Meeting Minutes Approval: Moved: Bill MR;
Seconded: Howard DHD

Treasurer reports: Jim JG presented the monthly financial report.

Moved for acceptance: Jim JG; seconded: Dick AI
Accepted

Basic Course update: Scott SRV presented a brief report on the progression of the Course.

Station Manager: Alex RUS had nothing to report; everything running ok.

HATS Report: Scott QD informed those present that they are getting the website up and running, there are new forms, he will be giving a talk on the 28th at the Eastern Shore club. There are upcoming meetings and a training sessions on Dec. 5th.

Rookie of the year: Murray Macdonald volunteered to take on the position of Rookie of the Year coordinator.

Christmas Party: Betty Caithness BSW advised about the Christmas party. Wednesday Dec 16th at the Panda Buffet in Dartmouth. Please advise Betty if you are going.

Nominations committee: Howard DHD, Scott QD and Dick AI have agreed to stay on.

EMO/SAR: Dave AJP - Evidence search for Dartmouth shooting

Story about holing the bottom of the Zodiac

Hunting season is upon us. Be safe in the woods.

Membership: Howard DHD Howard reported the people are starting to renew for 2016. We have 5 Life members, 101 full members, 27 associate members.

He also reported about a donation of \$150 to the Club from Randall Reid as a thank you to the Club for the work on his tower this summer.

Door Prize: \$25 GC from WalMart won by Scott Wood, VE1QD

50/50: Won by Dick Grantham, VE1AI

Meeting adjourned: 2003

Respectfully Submitted
Jeremy Fowler, VE1JHF,
HARC Secretary



HARC ROOKIE OF THE YEAR - 2015 AWARD

To quote the Policy on Rookie of the Year Award, the purpose is "To encourage newly licensed operators to participate in the amateur radio hobby on a regular basis. Candidates will be assessed using a set of criteria and one member will be recognized as the HARC Rookie of the Year."

This year we were presented with a number of very good candidates for consideration as the 2015 HARC Rookie of the Year.

The winner is active in the life of HARC having participated in a number of HARC sponsored events. She was a charter member of the Halifax Auxiliary Telecommunications Service, has completed the Halifax ATS training course, has been assigned to a Joint Emergency Management Site (JEMS), and participated in Operation Kingfisher. She participated in the 2015 Field Day and operated as a member of the GOTA group. An attendee at many monthly HARC meetings, she has also assisted with the Britt Fader QSL Bureau.

We are pleased to award the 2015 Rookie of the Year Award to Coral Wickstrom (VA1CAW)



President Brian presented Coral, VA1CAW, with the HARC 2015 Rookie of the Year award at the HARC Christmas Party

- Murray Mac Donald, VE1BB/VE1MMD

Silent Key

Abbie Ross, VE1BFB,
lost her battle with cancer
Saturday,
December 26,
2015.
Abbie was
married to Brad, VE1ZX



The 2015 HARC Christmas party

42 people attended The 2015 HARC Christmas party at the Panda Buffet in Dartmouth on the evening of Dec. 16. All seemed to have a good time with much eating & drinking & talking only interrupted by trips to the buffet tables.

Cathy Manuel won the Door prize -- a \$50.00 Sobeys gift Card.

Rookie of the Year was awarded to Coral Wickstrom, VA1CAW. (See page 6)

Coordination & restaurant interface by Betty, VE1BSW.

Pictures by Jim Guilford, VE1JG



*A Good Friend Is
Like A Good Bra.
Hard to Find, Supportive,
Comfortable, And Always
Close To Your Heart!*



Darwin Award Semifinalist #4

A man in Alabama died from rattlesnake bites. It seems that he and a friend were playing a game of catch, using the rattlesnake as a ball. The friend - no doubt a future Darwin Awards candidate - was hospitalized.

*"Only Irish coffee provides, in a single glass, all four essential food groups: alcohol, caffeine, sugar, and fat."
-Alex Levine*



Converted to Tilt over tower, December 2015

What do you do when the years are passing and we can't do what we used to do. I lowered my tower down last June for service and couldn't put it back up again after the service was complete. Not without trying but it just didn't sit well with me. I decided to engineer a tilt over plate so I could lower the tower at will anytime I wanted. I'm using what I refer to as a Radio Shack Tower so nothing special but it was in the spirit of Ham radio " Cheap "



As you can see with all the planning and engineering the end result is quite simple. Bottom triangular 3/8" plate is attached to the posts coming from the concrete base and the second plate has pegs running up into the lower section of the tower. The hinge is a three part hinge made up from another piece of pipe welded to the two plates to form a three part hinge. Another piece of pipe runs through the centre of this hinge affair and has a hole drilled in both ends to make this hinge/pin removable.

You will notice four other 3/8" drilled holes in both plates matching up so a bolt can pass through both plates when vertical to hold everything in place. The four bolts and the hinge hold it all together. Now all I have to do in the spring is to install a separate pole with a wench to wind up and down on my own. That will complete my tower modification and bring it to a conclusion.



Financially it only cost me about \$100 but there was 15 hours of labor to complete the project. If I'd had to pay for labor it would have been better to purchase a tilt over tower from some commercial company. I do have the drawings available to anyone who wants to try this on your own but NO, I am not helping.

Thanks for your interest. VE1DFG

Halifax Amateur Radio Club has a number of items of **surplus gear** for sale:

1. Kenwood LF-30A Low Pass (TVI) Filter (QTY 1)
2. Heathkit HM-15 Reflected Power Meter (QTY 1)
3. Realistic/Radio Shack Minimus-3 Cat.No. 40-913B
Speaker 8Ohm Screw terminals and
RCA Jack (QTY 1)
4. ICOM IC-22S Transceiver 2m (QTY 1)
5. Sargent Welch S-30300 Galvanometer + or -
500 microamps (QTY 15)
6. Fisher Scientific 44205 Galvanometer + or -
500 microamps (QTY 15)
7. Fisher Scientific 44222 10 Amps DC (QTY 2)
8. Fisher Scientific 44421 6/30VAC (QTY 5)
9. Fisher Scientific 44418B 500 mAmp AC (QTY 2)
10. Fisher Scientific 44416E 500 mAmp DC (QTY 5)

For details please contact Alex Tikhomirov (VE1RUS), HARC station manager via e-mail or phone.

Alex, VE1RUS

Without geometry, life is pointless.

Safety - When NOT to Use Cruise Control:

A resident of Kinburn, Ontario was traveling between Kinburn & Ottawa. It was raining, though not excessively, when her car suddenly began to hydro-plane and literally flew through the air. The driver was not seriously injured but very stunned at the sudden occurrence!

The responding OPP Officer, when told what had happened explained something that every driver should know - **NEVER DRIVE IN THE RAIN WITH YOUR CRUISE CONTROL ON.** If the cruise control is on when your car begins to hydro-plane and your tires lose contact with the pavement, your car will accelerate to a higher rate of speed making you take off like an airplane.

The Officer said this warning should be listed, on the driver's seat sunvisor; **"NEVER USE THE CRUISE CONTROL WHEN THE PAVEMENT IS WET OR ICY".** Use the cruise control only when the pavement is dry.



NOTE: Some vehicles (like the Toyota Sienna Limited XLE) will not allow you to set the cruise control when the windshield wipers are on.

HALIFAX, Nova Scotia, 1 December 2015

Two pairs of dolphins are being donated to Canada's submarine museums by LCdr Jim Guilford, RCN (Retired). One pair of dolphins, about 12 inches high, is being donated to the Museum of Naval History in Port Burwell, Ontario, for the OJIBWA Submarine Museum; and the other pair of dolphins, about 6 inches high, is being donated to Site historique maritime de la Pointe-au-Père in Rimouski, Quebec for the ONONDAGA Submarine Museum. The dolphins have been transferred to Donald Courcy, a submarine veteran, who will deliver the dolphins to the submarine museums. In the attached photos, you can see Donald Courcy on the right accepting the dolphins from LCdr Jim Guilford on the left.



LCdr Guilford served many years in the Canadian Submarine Service when he was a non-commissioned officer and his trade was Radioman, just like Donald Courcy. He was Donald's POTEL on OKANAGAN and OJIBWA IN 1971/1972. Jim also served as COX'N of OJIBWA. He held the rank of CPO1 before commissioning from the ranks and he achieved the rank of LCdr before retiring from the Royal Canadian Navy. Jim (VE1JG) and Donald (VE1CG) are passionate ham radio operators and lovers of the morse code. Jim has also accumulated one

of the best collection of morse keys in Canada.

Donald recently moved back to Halifax and re-connected with Jim at a meeting of the Halifax Amateur Radio Club. It is while reminiscing their submarine days that Jim came up with the idea of donating the dolphins to the submarine museums.



LCdr Jim Guilford (retired), VE1JG, and submarine veteran Donald Courcy, VE1CG display the 2 pairs of dolphins

The HARC Reflector is "your" local ham radio club publication. Want to share any information, pictures, articles, URL's questions, etc. please title "for Reflector" and send to editor Lynn, VE1ENT at

bowser.elliott@ns.sympatico.ca
Any changes for publication will be caused by grammar, spelling, space and diplomacy or risk of law suit.

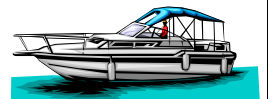


Last summer, down on Lake Isabella, located in the high desert, an hour east of Bakersfield, CA, some folks new to boating, were having a problem. No matter how hard they tried, they couldn't get their brand new 22 foot boat going. It was very sluggish. In almost every manoeuvre, no matter how much power they applied it just dragged. After about an hour of trying to make it go, they putted into a nearby marina, thinking someone there may be able to tell them what was wrong. A thorough topside

check revealed everything in perfect working condition. The engine ran fine, the out-drive went up and down, and the propeller was the correct size and pitch. So one of the marina guys jumped in the water to check underneath. He came up choking on water, he was laughing so hard.

NOW REMEMBER...THIS IS TRUE.

Under the boat still, strapped securely in place, was the trailer!

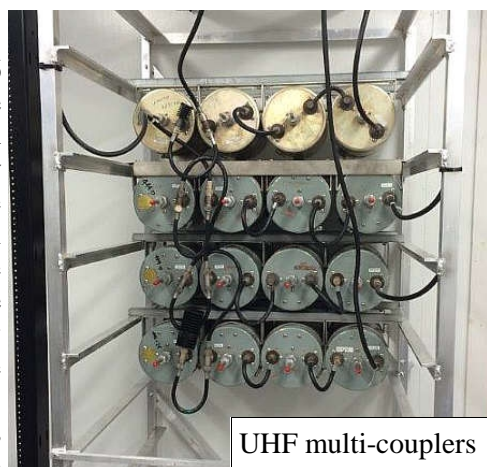


The VE1CDN repeater has been moved in to its new location in Upper Sackville and is now operational. On the morning of Monday January 4, 2016 Neil, VE1YZ and Bill, VE1MR went to the site and installed the rack and UHF multi couplers. The VHF multi couplers were delivered to the site previously by Bill, VE1MR and Wayne, VE1WPH but were not in their proper places. Neil and Bill installed them in their proper places and assessed what more was needed in the way of cabling. Also assessed was the AC power and the length of the ground wire was determined and loosely placed.



On the afternoon of January 5, 2016 Neil and Bill returned to the site with more tools, coaxial cable and the gear to go into the rack. They installed the VHF repeater, the UHF hub repeater, a UHF pre amplifier tray, a power supply for the packet and APRS, and a tray to hold the packet and APRS gear.

On Thursday January 7, 2016 Tom, VE1TA got to the site before Neil and Bill by a few minutes and had the AC box open and wires ready for the AC panel. Tom installed the AC panel in the rack while Bill completed the installation of the ground. Tom also helped determine cable runs lengths and helped string a few of those. Tom only had about 2 hours free time so did what he could to speed things up. Neil put the jumpers on the UHF cans while Tom and Bill ran cables for the UHF and VHF runs, then Tom had to leave early. Neil and Bill finished the cabling and tested the repeaters. The repeaters were put on the air and initial testing showed the VHF repeater was not performing as it should and the UHF repeater did not have connectivity to the system through the UHF link at VE1BHS. After some sleuthing a problem was found in the VHF filtering and rectified so the VHF repeater was working as expected with a couple of signal reports from people listening. A lot of time was spent trying to resolve the problem with the UHF repeater but time ran out.



On the afternoon of Sunday January 10, 2016 Neil and Bill returned to the site now knowing what the problem with the UHF hub repeater was. After correcting the problem there was connectivity to the UHF link at VE1BHS. The signal had some noise on it and the UHF pre amplifier was connected to the receiver which improved the signal considerably. The system was now working correctly. Later that evening Bill reconfigured VE1PKT to use the VE1CDN UHF hub repeater so now VE1PKT and VE1CDN are back to their normal configuration.

There is still some tidying up to do as well as the installation of VHF and UHF packet and APRS to be done at a later date. Hopefully this can be done before the site becomes blocked by snow.