



# REFLECTOR

PO BOX 8895  
HALIFAX NS  
B3K 5M5

October 2017, Volume 78 Number 8  
club web site is [www.halifax-arc.org](http://www.halifax-arc.org)

ISED has approved CK100VDA and 9-17 Dec. for HARC members for the centennial of the Halifax Explosion.



All phone numbers must be preceded by area code 902 when dialling, unless otherwise indicated

HARC Club Station phone number - 902-490-6421

### Executive

President - Brian Allen, VA1CC	489-4656	basailor@eastlink.ca
First V.P. - Don Trotter, VE1DTR	823-1888	ve1dtr@rac.ca
2nd V.P. - Doug LeBlanc, VE1LDL	465-4665	igpearce@hotmail.com
Secretary - Howard Dickson, VE1DHD	823-2024	dhickson@eastlink.ca
Treasurer - Jim Guilford, VE1JG	466-2124	jimguilford@gmail.com
Director-at-Large: - Craig MacKinnon, VE1JMA 463-8517		cjmackinnon@gmail.com
- Ian Pearce, VE1IGP	469-3474	igpearce@hotmail.com
Station Manager: - Alex Tikhomirov, VE1RUS	444-1271	a.texer@gmail.com
Past President - Bill Elliott, VE1MR	865-8567	bowser.elliott@ns.sympatico.ca
Director Emeritus - Bill Elliott, VE1MR	865-8567	bowser.elliott@ns.sympatico.ca

### Committees/Offices/Prime Contacts

Government & Media Relations - Gary Murphy, VA1GGM garymurphy@gmail.com  
 QSL Bureau Mgr - Tom Caithness, VE1GTC 477-7081 tom.caithness@ns.sympatico.ca  
 EMO Coordinator - David George, VE1AJP 466-8723 dgeorge@dal.ca  
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 - Howard Dickson, VE1DHD dhickson@eastlink.ca  
 Basic ham course - Wayne Harasimovich, VE1WPH wayneph@bellaliant.net  
 2017 Flea market Chair - Marc Hemphill, VE1BEL mjhemphill@ns.sympatico.ca  
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 Safety Officer - Pat Kavanaugh, VE1PHK pkavanaugh@bellaliant.net  
 VAIMMA Project Manager Dick Grantham, VE1AI rgrantham@ns.sympatico.ca  
 NSARA Director - Bill Elliott, VE1MR 865-8567 bowser.elliott@ns.sympatico.ca  
 Honorary Legal Counsel - Paul Radford, VE1ARH

### Non Club Contacts

RAC Atlantic Director - Dave Goodwin, VE9CB	ve9cb@rac.ca
RAC Section Manager - Craig Seaboyer, VE1DSS	cseaboys@stfx.ca
RAC Assistant Director for HRM Scott Wood, VE1QD, 823-2191	ve1qd@rac.ca

The **October 2017 General Meeting** of the Halifax Amateur Radio Club will be held Wednesday, October, 18 in the Senior's Room on the 1st floor of the St. Andrew's Centre, 3380 Barnstead Lane, Halifax.

6:30-7:00pm - Social half-hour with refreshments.

7:00-8:00pm - Presentation: A QSO that led to 3DA0 (Swaziland).

Speaker: Helen (VA1YL) and Fred (VE1FA) Archibald

8:00-9:00pm Regular Monthly Business Meeting

Guests are welcome

### Notice of Motion

The Executive recommends that a motion come to the AGM in November to raise the HARC membership dues by \$5 across the board

**Deadline for submissions to the November Reflector is Saturday, November 4, 2017**

### Take-15 Net Controllers

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



October	15	Bruce	VE1MLW
October	22	Gary	VA1GGM
October	29	Peter	VE1PJW
November	5	Doug	VE1LDL
November	12	Bruce	VE1MLW
November	19	Gary	VA1GGM

### Puzzler - Do you know?

What essential speed-adapted anatomical structure of the peregrine falcon has been engineered into modern supersonic jets ?



Answer is on pg. 5

*The reason women don't play football is because 11 of them would never wear the same outfit in public. -Phyllis Diller*

### 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

HARC's Basic Amateur Radio Certification course (**BARC**) began Thursday, October 5 at 7PM with 16 students. It will run until mid-December when the certification exam will be held. The cost of the 2017 Basic Qualification Course has been set at \$100.00. This includes the Canadian Amateur Radio Basic Qualification Study Guide, 9th Edition, the Course and HARC Associate Membership for 2018 (Jan. 1 thru Dec. 31).

Details about the course can be found on the HARC Website -

[www.halifax-arc.org](http://www.halifax-arc.org)

The Basic Course Coordinator is Wayne Harasimovitch VE1WPH / VE1ISS

Oct.21 - Greenwood Amateur Radio Club 29th Annual Flea Market

Date: 21 OCT 2017 (Saturday)

Time: 10:00AM – 1:00PM

(Open 8:00AM To Sellers)

Place: Greenwood Community Centre, Church St., Greenwood, NS.

The Truro Amateur Radio Club's Newbie Round Table Net will return on October 22nd, 2017.

**Mark the 100<sup>th</sup> anniversary of the Halifax Explosion** The Halifax Amateur Radio Club has been given the special callsign **CK100VDA** to use for nine days in December - **0000Z on December 2nd to 2359Z on December 10th**, December 6, 2017 is the 100th anniversary of the Halifax Explosion.

December 20 - the HARC Christmas Party will be held at Boston Pizza, 115 Chain Lake Drive, Bayers Lake Business Park, on Wednesday, Dec.20, 2017 at 6:30 p.m.

We need to know numbers - you and how many guests will be with you. Let Betty, VE1BSW, know BY DEC.17 either by e-mail at:

[betty.caithness@ns.sympatico.ca](mailto:betty.caithness@ns.sympatico.ca)  
or telephone her at 902-477-7081

Presentation of the Win Hartlin HARC Participation Award will take place at the Christmas Party.

### Greenwood Amateur Radio Club - 29th Annual Flea Market

Date: 21 OCT 2017 (Saturday)

Time: 10:00AM – 1:00PM

(Open 8:00AM To Sellers)

Place: Greenwood Community Centre, Church Street, Greenwood, NS.

Cost: Admission \$5.00.

Tables Free To Sellers

GPS Coordinates:

N44° 58.512' W064° 55.612'

Talk In: VE1WN 147.240+

Someone will be on our local repeater to answer questions or give directions.

BBQ Sausage, Hot Dogs, Pop, Tea and Coffee Available.



Door Prizes And Raffle - There will be various door prizes given out throughout the event with one big door prize at the end. We will also be selling tickets on a radio.

Fleamarket

All sorts of Amateur Radio, Computer and Electronics for sale. Sell your old stuff or buy some new old stuff.

To Book Tables Contact: Carol, VE1ICY at

[cfhutchinson@gmail.com](mailto:cfhutchinson@gmail.com)

To Obtain Further Info Contact: GARC President Phil Hunter, VE1PHL at

[garc.ve1wn@gmail.com](mailto:garc.ve1wn@gmail.com)

RAC's web site is [www.rac.ca](http://www.rac.ca)

### Canada 150: Special Event Prefixes for Canada's Sesquicentennial

R.A.C. has secured permission for all Canadian Radio Amateurs to use special call sign prefixes to celebrate the 150th anniversary of Canada's Confederation. Events will take place throughout 2017 to celebrate the anniversary..

These special prefixes are optional. Amateurs can choose if & when to use the special prefix vs their normal prefix at any time during the year. Stay tuned to the RAC website for additional information.

For more information on Canada 150 visit

<http://canada.pch.gc.ca/eng/1342792785740>.

Once again, Betty, VE1BSW, has been asked and has agreed to organize the **HARC Christmas Party**.

“ The HARC Christmas party will be held at Boston Pizza, 115 Chain



Lake Drive, Bayers Lake Business Park, on Wednesday, December 20, 2017 at 6:30 p.m. As usual, there will be a door prize. If you are planning to attend, please e-mail Betty Caithness at

[betty.caithness@ns.sympatico.ca](mailto:betty.caithness@ns.sympatico.ca) or call her at 902-477-7081 by December 17 so that final arrangements can be made with the restaurant. Please be sure to let Betty know how many people will be attending with you.

All guests of members are welcome.”



HARC has a stock of **Anderson Powerpole connectors** for sale at \$1.25 each (\$2.50 for 2 connectors – a complete mating pair). Place orders with Tom Caithness, VE1GTC, by E-mail [tom.caithness@ns.sympatico.ca](mailto:tom.caithness@ns.sympatico.ca)

*"Whatever you may look like, marry a man your own age. As your beauty fades, so will his eyesight."*

-Phyllis Diller

**PRESIDENT'S MESSAGE for September, 2017**

.Good afternoon fellow amateurs, here is VA1CC, Brian, once again and I'm very happy to report that there was some propagation today [Saturday 07] as I was able to work 2 Australian stations on 40m, several stations on 17m and a few on 20m and even a couple on 15m which was really strange.

Anyway, to all in our amateur community, allow me to wish each of you and your families a very Happy Thanksgiving. We have so much to be thankful for even down to the weather where we have a pretty mild climate when it comes to all types of storms i.e., hurricanes, floods, earth quakes and extreme heat. We will soon have to deal with the snow and high winds, freezing rain and the odd mild spell in the middle. The majority of us wish for better health, the need for less medication and much less stress.

We have some events to mention for the up-coming months: our October monthly meeting on the 18th (the 3rd Wednesday of the month): we have a going concern in the Wireless Room at the Museum Of the Atlantic every Monday and Thursday of the week: we have our meetings in November for the executive and our general meeting plus our AGM SESSION included: and in December we have our Christmas party which is being organized by Betty Caithness, VE1BSW. Details will be forth coming on this always exciting event. The AGM will see several new members on the executive and it is important for you to be there to exercise your democratic rights in the electoral process.

Our fiscal year ended September 30 and Jim our treasurer has created a new budget with several very important issues that will need to be voted on, so once again your attendance is requested.

Our move to "some where" is in progress with the wreckers' ball falling sometime in the May-June time frame so there will be a lot of work on many fronts ... flea market, Field Day, the move ... and each of these items contain many details which must be shepherded to timely completion. And we still have to provide emergency comms for EMO; -- VHF / HF/ 900 MHZ as well as TMR. We are still waiting for the city to come up with an appropriate home for us (the sooner the better). There is a plan to bring down our tower in October-November and it would be great to be able to immediately relocate it to the new site. Just so much to consider and time and weather is moving forward.

As soon as something develops, I will ask Howard to send out a general message regarding the results.

Well, those are the high lights for this month and a look into the foreseeable future. Again, have a healthy and safe Thanksgiving weekend and remember turkey is very healthy (unless you have gout), it's the gravy that does you in.

73 - respectfully Brian Allen, VA1CC, President of H.A.R.C.

**HARC plans to mark the 100<sup>th</sup> anniversary of the Halifax Explosion with a special event**

The Halifax Amateur Radio Club has been given the special callsign CK100VDA to use for nine days in December - 0000Z on December 2nd to 2359Z on December 10th, with December 6th being the 100th anniversary of the Halifax Explosion.

We have set up a special page on the HARC website - look under "Events" on the home page for the tab "CK100VDA". There you will find the history of the Great Explosion.

We will have the capability of simultaneously working in all three modes - SSB; CW; and any one of the various digital modes.

Amy Hoffman of ISED Canada has informed us that "multiple people CAN use the same call sign (be it special event call or club call) in multiple locations at the same time, and club call sign CAN be used at the same time in different modes in the same way that a special event contest call sign can."

Sep 28 2017, 8:34 am ET

**Puerto Rico Amateur Radio Operators Are Playing Key Role in Puerto Rico**

by Suzanne Gamboa

When things went dark and quiet in Puerto Rico, a cadre of amateur radio operators became a lifeline on the island.

About two dozen amateur radio operators on the island helped police and first responders communicate when their radio networks failed completely. Some of the radio operators, or hams traveled on trucks to provide communications to the power company, PREPA.

"It's a less than ideal solution, but it works and that's the essence of amateur radio – make it work," said Tom Gallagher, NY2RF, CEO of the A.R.R.L.

Now the ranks of operator are about to get reinforcements.

At the request of the Red Cross, the league planned to send 50 radio operators into Puerto Rico with "enormous" radio gear in water proof containers, their own power

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### News from the Halifax ATS

*The Halifax Auxiliary Telecommunications Service, or **Halifax ATS**, is an operational vehicle through which HARC contributes to emergency telecommunications when a man-made or natural disaster strikes our community. This service is a joint effort of amateur radio clubs in the Halifax region and functions under the direction of the Halifax **Emergency Management Office (EMO)**.*

**NEWS:** The hurricane season this year has been a dramatic reminder of the devastating power of nature and the need to be prepared. The stories emerging from disaster zones in Caribbean and southern USA, for example, emphasize the critical loss of communications and the role played by amateur radios as an important back-up.

Well, hurricanes haven't been the only recent sources of disasters. There have been wild-fires, floods and earthquakes as well. David George, VE1AJP, provided the **first Halifax ATS General Meeting** on 3 October with an impressive review of the many events. His talk provided an important context for the further discussions about our current state of readiness and plans we have for organizational development, training programs and exercises. Our membership now stands at 32 with 26 attending the meeting. The next evening, 4 October, I made a presentation to the Eastern Shore Joint Emergency Management (JEM) group in Chezzetcook about *Amateur Radio: A Vital Component in Emergency Communications*. It was attended by a dozen folks. It is my hope that I will be able to have a similar discussion with each of the other JEM groups in the near future.

**The Basic Amateur Radio Certification (BARC)** Course started on Thursday, 5 October, with 16 participants. It will run until mid-December when the certification exam will be held for candidates. Wayne Harasimovitch, VE1WPH, is the Course Coordinator. Details about the course can be found on the HARC Website - [www.halifax-arc.org](http://www.halifax-arc.org)

#### UP COMING EVENTS:

- 11 October (Wednesday) at 1000 hrs. EMO – Radio Advisory Group Meeting at HARC.
- Tom Caithness, VE1GTC, the ATS Training Officer will announce soon a schedule for fall training programs.

**ACTION:** Do you want membership information? Please contact Dave Musgrave, VE1EDA. He is our membership officer and will see that you get the necessary information and application forms. His contact information is via email: [ve1eda@bellaliant.net](mailto:ve1eda@bellaliant.net)

It seems the question is not **if**, but rather, **when** we will encounter a serious emergency situation requiring amateur radios response. Are you personally ready?

73 de Scott Wood, VE1QD

Coordinator, Halifax Auxiliary Telecommunications Service (ATS)

### CONTAINER CLEAN UP

On Saturday September 23, 2017 a crew of HARC members went to Cowie Hill site to clean up and organize the storage container. Things began about 1000 with the arrival of Bill, VE1MR, Doug, VE1LDL, Fraser, VE1WO, George, VE1CAW, John, VE1BIR, Howard, VE1DHD, Jim, VE1JG, and Tom, VE1GTC, we were later joined by Brian, VA1CC. Some could only stay a few hours but all help was very appreciated. Most were able to stay until we were finished about 1500. Thanks to all who helped.

First we emptied the racks and shelves and moved out many larger items cluttering the floor space. We extended the middle wooden rack to accommodate two tower sections side by side and added more bracing between the wooden rack and steel shelving on the opposite sides of the container. The lowest shelf of the wooden rack was determined to be wide enough to place several large items which got them out of the floor area.

Besides helping with the container Tom, VE1GTC also worked in the repeater building to route a temperature sensor out side the building to a location that would give reasonably accurate outside temperature readings. He checked both the inside and outside temperature readings and determined they were quite accurate. Several people were able to get their first ever viewing of the refurbished repeater building and the installed gear.

We took a break in shifts to have lunch while others determined some of which gear was to be kept, what was saleable surplus and what was garbage. Some of the garbage will be recycled, either as electronics or metal. Having determined some things to keep we began to place it back in the container - mostly on the wooden racks, surplus saleable gear was placed on the metal shelves. We placed larger surplus saleable things behind the container along with some items that will need further work to dismantle for usable parts and disposal of leftovers.

We finished up around 1500 hours and now the container has room for a bit more storage, the floor is clear from end to end. The improvement is remarkable and the gear will be

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easier to get at for deployment for Field Day or emergencies. Unfortunately we were all too busy to take any before and after pictures to include here. A list was made of surplus saleable gear and we will be advertising most things and taking some of the smaller surplus gear to flea markets for disposal. Again many thanks to those who were able to help.

The following week Fraser and Brian met up with a junk removal service and the junk was removed. Also Ian, VE1IGP was over with his trailer later and took recyclable materials to a recycling depot to recover some money. Again thanks to all who were able to help with this task.

Bill Elliott, VE1MR



### Answer to Puzzler on pg. 1

Source: Canadian Wildlife Magazine

Peregrine falcons dive after prey at speeds of more than 322 kilometres per hour without bursting their lungs because they have evolved a special set of cone-shaped bones around their nostrils that allow them to keep breathing in high-speed flight. These bones, called baffles, help peregrines control shock waves of air that would otherwise burst their lungs. Jet aircraft can face similar challenges.

When a jet flies at a supersonic speed air rushes toward the engine at such speed that it hits a wall of resistance and flows around the engine instead of through it.

This can cause the engine to stall - bad news when you're thousands of metres in the air. To solve the problem, engineers mimicked the falcon's nostrils by creating a cone at the opening of the engine.

This guides the airflow, allowing it to enter the machine safely without causing mechanical failure in flight. All modern supersonic jets have since adopted this peregrine-inspired design.

Advice from A Wise Old Man....

*"The biggest troublemaker you'll probably ever have to deal with, watches you from the mirror every mornin' ".*

## The Maritime Museum of the Atlantic Wireless Room VA1MMA Report

I have to say, that this summer's activity at the Wireless Room at the Maritime Museum of the Atlantic was truly outstanding. All of the volunteers stepped up making it possible to have 2 and sometimes 3 HARC volunteers there most active



days. The volume of tourists this year was substantially higher than last year due to Canada 150 and also the hurricanes in the Caribbean.

We manned the display 2 days a week, Mondays and Thursdays, without exception. Thanks to Arthur's (VE1/G5DJW) dedication, schedules were filled and we did not miss a day. Things will wind down at the end of October for the season, except for special events.

The pure joy experienced by those visitors who stopped by the exhibit, and learned to send their name in Morse code, was heartwarming to witness. Unless you have been there, it is hard to describe. You hear comments from the guests like....I did it....or, oh I haven't done this since I was a boy scout 60 years ago....did you memorize ALL those letters..... did you copy that....I haven't sent CW in years, Hi I am K4--but I haven't used CW in years.....or, how can I get more information on how to become a ham.....oh you guys must all be hams, when the cell phones die you guys are it.....etc etc.

We issued **6736** certificates this season so far, and "the season ain't over yet".

We had more than **100** visiting hams, from across Canada, but mostly from the US and even some DX.

We had the executive directors of a new Naval Museum in California who were so taken with the reaction of the public at our exhibit, that they wanted copies of the certificate and requested information on how to contact the local Amateur Club in their area.

One very important item of note brings us back to the great enthusiasm we all experienced working with the late Win Hartlin (VE1WIN) at VA1MMA. Win had procured a proper Merchant Marine's Radio Officers uniform, and also procured the proper rank insignia and WW II ribbons. We just received word at the time of writing this that it is now complete and ready to be put on display. Thanks Win, you are still contributing.

Thanks to all of the HARC Museum volunteers and support staff for making this undertaking the resounding success it continues to be. It is a great testament to the public service that HARC continues to accomplish.

Dick Grantham, VE1AI, Museum Project Manager

**HALIFAX AMATEUR RADIO  
CLUB Monthly Meeting  
Minutes  
20th September 2017**

The September monthly meeting of the Halifax Amateur Radio Club was declared open at 20:07 hrs with Brian (VE1AZV) in the chair.

Motion to approve the Agenda – moved by Scott (VE1QD); seconded by David (VE1IIF); carried.

Self introductions: There were 35 members present.

Silent Keys: Brian reported the following silent keys for the period May 18th to September 20th 2017:

Nelson Blythe Pert VE1BTV  
Fredericton NB Sep. 18th, 2017

George Ernest MacKay VA1CBG  
Stellarton NS Sep. 15th, 2017

Inglis Horton MacAulay VE1MV  
Glace Bay NS Sep. 3rd, 2017

John Leo Keating VE1JLK  
Pleasantfield NS Aug.29th, 2017

John Gareth Greenslade VE9SG  
Sackville NB Aug.15th, 2017

Roy George White VO1RW Mount  
Pearl NL Aug.15th, 2017

Colin M. Curleigh VE1CMC  
Parrsboro NS Aug. 9th, 2017

Douglas William Adams VE1DWA  
Bible Hill NS Aug.8th, 2017

Gilbert Linwood "Lin" Titus  
VE9FX Fredericton NB Jul.27th,  
2017

Robert Gary Bartlett VE1RGB  
Wellington NS Jul.22nd, 2017

Thomas Walter Weaver VE9TOM  
Moncton NB Jul.16th, 2017

Berwyn Andrews "Skip" Goudey  
VE1BG Arcadia NS Jul. 13th, 2017

Bryan Rodney Martin VE9BRY  
Sainte-Anne-de- Madawaska NB  
Jun.21st, 2017

Dale Harry Wing KB1KIH  
Robbinston ME Jun.14th, 2017

Motion to approve the minutes of the June monthly meeting as published in the HARC Reflector

was made by Dick (VE1AI); seconded by Fred (VE1FA); carried.

**President's Report**

HARC Move – Brian reported on the upcoming move of the Club from the current St. Andrew's Centre. He indicated that in speaking with Barry Manual (HRM – EMO) today, he is optimistic that our move to #50 Fire Station on Hammonds Plains Rd is looking positive and that we will have access to the second floor. Brian further indicated that he has visited the site and checked for possible radio interference in the area and there appears not to be any. Once we have approval by the Fire Chief, and it is determined that HRM owns the land, Barry will move forward with putting in a tower base for us. Brian indicated that Bill (VE1MR) is organizing the removal of our tower and beam that is located here at St. Andrews, and that will take place at some point in October. However, we will leave the vertical antenna in place so we will continue to have HF capability from the site until the final move has been completed. This is critical as our Club station serves as the backup communications site for the EMO in HRM.

Dominica Support – Brian indicated that Bill (VE1MR) had received a request from a news organization in Antigua who had lost all contact with Dominica and asked if we could hear anything from them. Bill asked Dick (VE1AI) to see if he could try and make a contact with a Ham in the area. Dick reported that he had been able to talk with a Ham in St. Croix on the hurricane-net frequency who informed him that Dominica had been almost totally destroyed.

**Executive Reports:**

**Treasurer's Report** - Jim (VE1JG) presented the Treasurer's report for the period of June, July and August. He reported that there was an opening bank balance for 1 June 2017 was \$7,516.38. Total income for the month of June was \$2,126.09 with expenses of \$ 2,042.22. Our cash position at the end of the month

of June was \$7,300.25.

The opening bank balance for 1 July 2017 was \$7,300.25. Total income for the month of July was \$2221.35 with expenses of \$ 1,440.17. Our cash position at the end of the month of July was \$6,082.43, and our bank balance was \$6,316.43.

There was an opening bank balance for 1 August 2017 of 6,316.43. Total income for the month of August was \$291.50 with expenses of \$ 1,977.24. Our cash position at the end of the month of August was \$4,396.69.

A copy of the full report is appended to the official hard copy of these minutes.

**Motion** to approve the June, July and August reports of the Treasurer – Moved by Jim (VE1JG); seconded by Scott (VE1QD); carried.

**1<sup>st</sup> Vice-President Report** (Don – VE1DTR) – Don had nothing to report.

**Station Manager Report** (Alex – VE1RUS) – Alex was unable to attend but forwarded the following report:

1. Connectors for the defective coax cables have been purchased - 20pc - Amphenol 083-1SP-15RFX - \$41.792 CAD total. Invoice is attached. We now need to arrange a time for a cable party to put these new connectors on any defective coax.

2. A surplus equipment list has been compiled, but it requires the assessment of all of the items before publishing the list; this is planned to be done on October 4.

3. HARC vertical – there has been no progress on getting this antenna repaired and the project is on hold.

4. A HARC equipment list has been compiled (at least for the equipment located at St Andrews), but revision is required.

On a personal note, Alex indicated that

1. He confirms that he would like to purchase the surplus rotator that is available for \$100;

2. He also indicated that he would

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*Minutes (Continued from page 6)*

like purchase the Kenwood TS570 that was donated recently, if the club can put it on hold for him. He will make an offer later. Both pieces of equipment are for use at the arctic radio club on Ellesmere Island in Nunavut, NA-008.

### Committee/Project Reports:

**Search & Rescue/EMO** (David – VE1AJP) – EMO – David reported on the recent loss of phone and internet service in Atlantic Canada. It appears that there had been separate cuts through the two fibre-optic cables supplying the east coast. A number of local Hams were on standby but because the system started to come back on line within several hours, there was no callout. As far as Search and Rescue is concerned, Dave reported a quiet summer. There'd unfortunately been one major week-long search for a lost individual who was never found.

### Halifax Emergency Telecommunication Services (HATS)

Scott, VE1QD reported that there will be an introductory HATS meeting in the Halifax Club meeting room at 7pm on Tuesday October 3<sup>rd</sup> to do some team building. Scott also reported that there are now two turn-key "go kits" that HATS has purchased for emergency communication

**Membership** (Howard, VE1DHD) Howard reported that the total Club membership as of this evening is 152 members with four Life, 118 Full, and 30 Associate members, and that we have 54 HARC members who are also members of RAC.

**Brit Fader Scholarship Announcement** (Howard, VE1DHD) Howard reported that the 2017 Brit Fader Scholarship had been awarded to Bram Paterson (VA2XE). He outlined Bram's accomplishments and referred members to the HARC website for details.

### Nominating Committee update

Scott, VE1QD reported that members of the committee are Bill (VE1MR) and Dick (VE1AI), with himself as

Chair. He reported that all of the main committee chair positions have been filled including Field Day chair, flea market chair and basic course coordinator. In addition, nominations have been confirmed for all of the Executive positions with the exception of President. All current members of the executive will be returning with the exception of the Secretary and Second-VP. Arron Bradley (VA1ARM) has agreed to let his name stand for secretary and Gary Murphy (VA1GGM) has agreed to let his name stand for second-VP. Concerning the President, Brian has agreed to continue on if we can not find anyone to replace him. Finally, Scott pointed out that we also need to have an auditor assigned to review the 2017 books.

**Field Day Report** (Don VE1DTR) - Don provided an overview of our 2017 Field Day operation. Don indicated that he came on board as Field Day Chair only twenty days prior to the event. He reported that a number of technical difficulties had been identified in the post Field Day review. The overall score (approximately 5500) was helped immensely by the large number of bonus points that we made. Don indicated that he has an extensive Field Day report that will be appended to these minutes.

### Old Business:

**Scouts Jamboree Report** (Tom VE1GTC) - Tom reported on the July Jamboree where the Halifax Club supplied radios and antennae, as well as technical support.

**St. Andrew's Move / New Club Location Report** (Brian, VE1AZV) – see President's Report above.

### New Business:

#### Tube Bank

Brian informed the meeting that

*Golfer: "How do you like my game?"*

*Caddie: "Very good, but personally, I prefer golf."*



Dallas Hubley, the manager of our Tube Bank, had recently passed away, so the tube bank will now have to find a new home. Doug (VE1LDL) reported that the "Vintage Radio Club" is willing to take the tubes off our hands. Brian indicated that he will get in touch with Tom Gaum (VE1BMJ) to see if he will assist the Club in finding a home for the tubes.

### Special Halifax Explosion Callsign (CK100VDA)

Fred (VE1FA) reported that the Club has been given this special callsign to use for nine days around the 100<sup>th</sup> anniversary date of the Great Halifax Explosion that occurred at 9:05 am on December 6<sup>th</sup> 1917. Fred went over the history of the disaster (see the HARC website for details) and outlined the rules around the use of the special callsign by HARC members. He referred members to visit the HARC website for details on signing up for an operating day and time.

### Nova Scotia Amateur Radio Association (NSARA) membership dues collection

Howard (VE1DHD) reported that the Executive had begun to discuss HARC finances in the spring and he indicated that many HARC members appear to be unaware that the 2013 HARC membership fee increase of \$5 was not really a HARC membership fee increase (our membership continues to be \$25), but rather represented the agreement by HARC to enroll each full HARC member in the Nova Scotia Amateur Radio Association (NSARA). Given that the Club will no longer be publishing a callbook (a major source of Club revenue in the past) it was agreed to look carefully at the arrangement that we had undertaken with the NSARA. When the requested information was finally received from the NSARA, the HARC executive determined that the agreement should be terminated and Howard brought forward the following motion to the Club:

**MOTION:** that the Halifax Amateur Radio Club cease collecting

*(Continued on page 9)*

## From the Mail Bag



From: Arthur Osmond aeo@live.ca

I would like to BORROW the April 2012 edition of QST, for a very short time. Please ring me on 902 466 7735 or email aeo@live.ca.

Many thanks,  
Arthur Osmond VE1/G5DJW.

From Robert VE3EGD Sept. 28th, 2017

I am beginning a research project to study ducting in maritime environments to see if communications reliability can be enhanced. In particular, I would be interested to know if anybody in the forum has any knowledge or experience with ducting and circular polarisation.

Thanks for any help,  
Robert Bultitude  
robert.bultitude@yahoo.com

(Originally VE1ABG (Moncton, 1967-1975)

Source: The Maritime Amateur website

## LOOKING FOR PROGRAM IDEAS!

We have begun to arrange programs for our monthly club meetings in 2018. As always, we are anxious to solicit your ideas of interesting topics we might address and recommendations of presenters who are entertaining speakers.

Our monthly programs represent an important educational opportunity but should also be an entertaining event. We often call on our own membership for programs; however, we should never hesitate to broaden the pool of talent on which we draw. There are accomplished and interesting hams throughout our Maritime Provinces who we can invite to address us – something we already have been doing now and then. Moreover, there is little standing in the way of inviting any exciting speaker, anywhere in the World to address us via a conferencing technology such as *Go-to-Meeting* or *Skype*, for example. Is there a presenter at some ham fest or an author in leading ham radio magazines who has inspired you and who we might similarly invite? The extent of our imagination and dreams are the only limit!

Do you have a topic you would like to share with your fellow Club members, but feel that you may need some help with the preparation of a program? Well, we can help you prepare a power point presentation, including graphics and some coaching, if desired.

Please contact me with any suggestions you may have.  
K. Scott Wood, VE1QD, HARC Program Committee  
Email: scott.ve1qd@gmail.com  
Tele: 902 823-2191



*"Why pay money to have your family tree traced; go into politics and your opponents will do it for you."*  
~Author unknown~

*(Continued from page 3)*

supplies, new generators and solar arrays.

Their job, once set up and in place, will be to be the communication pipeline for the Red Cross Safe and Well program, helping people on the mainland trying to connect with loved ones on the island or get news of their status.

"You can relieve a lot of misery by telling people their relatives are okay," said Gallagher..

The ham operators who work with first responders are part of the Amateur Radio Emergency Services, ARES. They regularly drill with police, fire brigades and hospitals and regularly drill and practice what to do in floods, hurricanes or dangerous rainstorms.

When Hurricane Irma hit St. Thomas, turning the island into "matchsticks," and destroying its communications infrastructure, the league sent equipment to St. Thomas through FEMA and got St. Thomas connected with slow speed digital communication. The league left some radio units in Puerto Rico in case more was needed in St. Thomas and Dominica.

That turned out to be fortuitous, Gallagher said.

"When everyone woke up from Hurricane Maria, they kind of felt like they were in the 16th century," he said. "The only technology you have is fire."

"People tend to think of (amateur radio) as a dying hobby. In fact, we've never had more (hams),"

Gallagher said putting the number at 750,000 with an additional 30,000 every year.

"We use old fashioned techniques and we use very modern digital, computer based radio and we use it in many ways – to talk to each other, for high altitude balloon launches ... We do a lot of satellite communications so the technology is quite advanced," he said.

Gallagher said amateur radio operators also helped in Hurricane Harvey but the association was not as active because the existing infrastructure has become very resilient since hurricanes Katrina and Sandy, with investments "hardening up" networks. There was some loss when of communications when Irma

*(Continued on page 9)*



### HARC Basic Course Begins With An Enthusiastic Group

Fall is upon us once again and with it comes another Amateur Radio Basic Qualification Course sponsored by HARC. This year's course is just a little different than those of the past few years. First off I'm not Tom, VE1GTC. I am however Wayne, VE1WPH and I'll be trying to fill some pretty big boots as Tom takes a little break from the action. He hasn't left the picture all together. Rather he's simply allowing someone else to gain experience in the position. I personally think that's a good idea and something we should all consider doing. The challenge of accepting a position in which you have no experience can be very rewarding (and maybe just a little scary). We have a large membership as Amateur Radio Clubs go so it's worth considering how each of us can contribute to make the load easier for those who contribute so often. Now Tom hasn't given me the keys to the car entirely. He's right there to provide his guidance. That's much appreciated!

Another change was the start date which was Thursday, October 5th. This was later than in past years but this was more a matter of finding a Co-ordinator than anything else. Despite this late start I'm pleased to say that at present we have a total of 15 registered students for this session (I've had a number of "last minute" enquires so this number might increase). To the students I extend a friendly HARC welcome and a sincere wish for your success in the December exam. Lets get this done!

Helping the students along the path towards qualification are the usual trusty band of fearless Instructors. Each takes time from their own busy schedules to create individual lesson plans and act as "Elmers" to those wishing to join us in the ranks of Amateur Radio. Their contribution to the growth of Amateur Radio in our community can't be overstated. As a group the Course success rate speaks to their experience and ability as instructors. They're a great bunch of folks who have just embraced this hobby for years. HARC as well as the students are fortunate to have them assisting.

Finally, I'll invite everyone reading this edition of the Reflector to visit the Education section of the club website ([www.halifax-arc.org](http://www.halifax-arc.org)) to see the class schedule. The pace of instruction is only slightly more than in past years however it still remains within reason. It follows current thinking and trends in technical instruction while not being totally immersive. With a little effort a Canadian Amateur Radio Basic Qualification might be under this year's Christmas tree. Your Examiners are patiently standing by.

Look for more news on how our hardy crew is progressing in the next edition of the Reflector.

"Til then, 73. Wayne - VE1WPH / VE1ISS, Basic Course Co-ordinator

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](mailto:bowser.elliott@ns.sympatico.ca)

Any changes for publication will be due to the editor altering grammar, spelling, or space constraints or for diplomatic or risk of law suit reasons.

### The Maritime Amateur

Ham Radio  
for Maritimers by Maritimers  
[www.maritimeamateur.ca](http://www.maritimeamateur.ca)

*"As I hurtled through space, one thought kept crossing my mind - every part of this rocket was supplied by the lowest bidder"*

John Glenn...

*Minutes (Continued from page 7)*

membership dues from all full HARC members on behalf of NSARA but consider making an annual financial contribution to NSARA – moved by Howard and seconded by Jim (VE1JG). After a lengthy discussion, the Chairman called the motion and on a show of hands, 16 members approved, 5 opposed and there were 12 abstentions; carried.

**Ticket Draw:** The winner of the \$31.50 50:50 draw was Aaron (VA1ARN).

**Adjournment:** Motion to adjourn was made by Ian (VE1ARJ) at 21:59.

Respectfully submitted  
by HARC Secretary,  
Howard Dickson (VE1DHD)

*(Continued from page 8)*

hit Florida, but those networks were up pretty quick, he said.

Puerto Rico's electrical infrastructure was already in bad shape because, not upgraded for about a decade because of its economic woes, and materials to the island must be shipped in.

Amateur radio operators are granted frequency spectrum by the government "for our frequency and experimentation. But we also have a responsibility to use those skills in service for country in times of need. It's not a privilege, it's a grant" he said. "We are making payments on that grant."

Go to [www.arrl.org/irma](http://www.arrl.org/irma) for Amateur Radio involvement with Hurricane Irma.

Go to [www.arrl.org/harvey](http://www.arrl.org/harvey) for Amateur Radio involvement with Hurricane Harvey.

Go to [www.arrl.org/maria](http://www.arrl.org/maria) for Amateur Radio involvement with Hurricane Maria.

*Tranquilizers work only if you follow the advice on the bottle: Keep Away From Children.* -Phyllis Diller

**Brit Fader Scholarship**

This scholarship is granted in memory of Brit Fader, VE1FQ, by the Brit Fader Scholarship Trust, a Canada Revenue Agency registered charity whose trustees are appointed by the Halifax Amateur Radio Club. The first grant was awarded in 2008

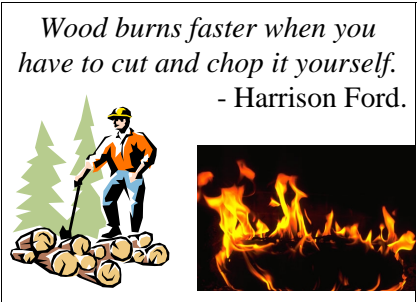
Applicant must be a licensed Canadian radio amateur who has made some contribution to amateur radio.

We prefer to receive donations to build an endowment by investing the

principal and paying scholarships out of income. To do this, donations must be made on the basis of what Canada Revenue Agency calls a "10 year grant", which requires the donor to complete the simple authorization form (see below) and enclose with your donation made payable to Brit Fader Scholarship Trust and mail to

Halifax Amateur Radio Club  
 P.O. Box 8895  
 Halifax, Nova Scotia B3K 5M5  
 Attn: Brit Fader Scholarship Trust

Donations are tax deductible. We are a registered charity with Canada Revenue Agency (registration # 0984971-25).



**DONATIONS FOR BRIT FADER SCHOLARSHIP TRUST**

Since 1985 the Halifax Amateur Radio Club has sought to set up a scholarship fund for post-secondary technical education for ham radio license holders in honour of Brit Fader, an outstanding Nova Scotia radio amateur who died in 1990.

Brit Fader Scholarship Trust has been approved by Revenue Canada as a charitable organization. The Trust will issue official income tax receipts for all donations made to the scholarship fund.

We urge each club and each radio amateur to consider making a donation to the Trust.

Donations should be made payable to Brit Fader Scholarship Trust and be accompanied by the enclosed donation form. Send the enclosed form and your donation to: Halifax Amateur Radio Club

P.O. Box 8895  
 Halifax, Nova Scotia B3K 5M5  
 Attn: Brit Fader Scholarship Trust

**DONATION FORM - BRIT FADER SCHOLARSHIP TRUST**

I direct that the enclosed gift to the Brit Fader Scholarship Trust, Registration number 0984971-25 (and any property into which it is converted) be held for a period of not less than 10 years. This permits the Trust to keep my donation as capital and use the interest for scholarships.

Amount of Gift: \_\_\_\_\_ Date of Gift: \_\_\_\_\_ .

Name of Donor: \_\_\_\_\_ .

Address of Donor: \_\_\_\_\_ .

\_\_\_\_\_ .

Make cheques payable to BRIT FADER SCHOLARSHIP TRUST. (An Official Income Tax Receipt will be issued)

Signature of Donor \_\_\_\_\_ .