



The Halifax Amateur Radio Club

REFLECTOR

PO BOX 8895
HALIFAX NS
B3K 5M5

June 2013, Volume 74 Number 6

club web site is www.halifax-arc.org



Come Out to Field Day, 2013 June 22-23



HARC Club Station phone number - 490-6421

Executive

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Non Club Contacts

RAC Atlantic Director - Everett Price, VO1DK vo1dk@rac.ca

RAC Section Manager - Craig Seaboyer, VE1DSS cseaboye@stfx.ca

RAC Assistant Director for HRM Scott Wood, VE1QD, 823-2761 ve1qd@rac.ca

Take-15 Net Controllers

This will be the rotation. We would like at least 2 or 3 more. If you want to join, let Bill Elliott, VE1MR, know.



June 16 Erik VE1JEH	Aug. 11 Bruce VE1MLW
June 23 Doug VE1LDL	Aug. 18 Emil VE1ESP
June 30 Bruce VE1MLW	Aug. 25 Peter VE1PJW
July 7 Emil VE1ESP	Sept. 1 Win VE1WIN
July 14 Peter VE1PJW	Sept. 8 Erik VE1JEH
July 21 Win VE1WIN	Sept. 15 Doug VE1LDL
July 28 Erik VE1JEH	Sept. 22 Bruce VE1MLW
Aug. 4 Doug VE1LDL	

The June, 2013 **General Meeting** of the Halifax Amateur Radio Club will be held Wednesday, June in the Senior's Room on the 1st floor of the St. Andrew's Centre, 3380 Barnstead Lane, Halifax.

Social Hour begins at 6:30 p.m. As usual, refreshments will be available.

Our June meeting program will be H.a.R.C. Field Day Then & Now and Field Day 2013 Field Day planning presented by Howard Dickson, VE1DHD & Brian Allen, VE1AZV.

For meeting agenda see the HARC web site

Guests are welcome

Sign at a Propane Filling Station:

Thank heaven
for little grills.

**Deadline for submissions to
the September Reflector is
Saturday, September 7, 2013**

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

Events for Your Calendar

June 22-23

Field Day 2013

July 27/28, 2013 – MS Bike Tour
Contact Rick Gardner, VE1RGG, to help with communications

July – Museum Ships Special Event

July 27, 28 MS Bike Tour
and- IOTA (Islands on the Air)

July & August – Pizza Nights

Aug. 3 to 5 – 100th anniversary of the CSS Acadia

Aug. 25, 2013 – Bluenose Auto Sport Club Car Rally. This year's race will take place on August 25.

August – NSARA Picnic

August – International Lighthouse & Lightship Weekend

For more information see

<http://www.lighthouse.fsnet.co.uk/events/intlighthouseday.html>

Sept. 21 - demonstration at Mic Mac Mall

Sept. 26 Amateur Radio Basic Course begins

7th Anniversary

Howie, VE1FV, sent an e-mail reminder that June 10, 2006 was the weekend of the launching of the solar powered repeater VE1KEJ in Kedge Park Back country hills Fire Tower.

A Pan Am 727 flight, waiting for start clearance in Munich, overheard the following:



Lufthansa (in German):
"GROUND, WHAT IS OUR START CLEARANCE TIME?" _

Ground (in English): "IF YOU WANT AN ANSWER YOU MUST SPEAK IN ENGLISH." _

Lufthansa (in English): "I AM A GERMAN, FLYING A GERMAN AIRPLANE, IN GERMANY.. WHY MUST I SPEAK ENGLISH?" _

Unknown voice from another plane (in a beautiful British accent):
"BECAUSE YOU LOST THE BLOODY WAR!"

Attention Amateur Radio Volunteers for the MS Bike Tour

Please let me know if you are available to participate in the 2013 Bike Tour.

I will also need to know if you need accommodations at Acadia on Saturday night.

Information is available at the MS Website:

http://mssoc.convio.net/site/TR?fr_id=2071&pg=entry&s_locale=en_ca

Rick, VE1RGG
Rsgardiner@eastlink.ca

HARC Website Update

The HARC website continues to be improved and updated on a regular basis - weekly at the very least.

If you follow the link from the home page "Monthly Meeting" "For Meeting Agenda...." you will find the monthly meeting agenda posted no later than 24 hours prior to the meeting.

D. Howard Dickson
VE1DHD // VE1ZD

The **Club station** is a good space for ham radio activities. **Please reserve your date & time** with Station Manager Jim, VE1JIM by phone 443-8657 or e-mail ve1jim@ns.sympatico.ca

Are you up to date with your HARC membership dues?

Yearly rates are:

Full = \$30 Associate = \$15
Family (2 members) = \$45 + \$15 for each additional family member at the same address (receive only 1 newsletter). Use the Membership form on page 10 of this Reflector or contact Membership Chair Howard Dickson VE1DHD

Why is it called "after dark" when it is really "after light"?

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. The scholarship is to assist in cost of pursuing post-secondary education in a technical field, in electronics or electrical engineering. An application and one or two Referee's forms must be submitted to constitute a complete application. Both forms are downloadable from the RAC website and from the website of the Halifax Amateur Radio Club www.halifax-harc.org

To apply, send in the application and at least one completed referee forms to Brit Fader Scholarship Trust, c/o Paul Radford, 208-5880 Spring Garden Road, Halifax. Nova Scotia B3H 1Y1.

Does the scholarship fund accept contributions? Yes. 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 a simple authorization form (see next month's Reflector) which we ask you to complete and enclose with your donation.

To donate, make cheques payable to Brit Fader Scholarship Trust and mail to the attention of Paul Radford, c/o Coady Filliter, Barristers & Solicitors, Suite 208, 5880 Spring Garden Road, Halifax, Nova Scotia, Canada B3H 1Y1.

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

PRESIDENT'S MESSAGE: JUNE 2013

My visit in mid-May to Dayton, Ohio, and the great Hamvention, was an especially interesting and sweet one for me. While there, I received my award as 2012 Radio Amateur of the Year from RAC. A good collection of Canadians as well as senior ARRL and IARU leaders were present as witnesses. I am deeply honoured to share this distinction with a small number of fellow Canadian hams, including our own: Britt Fader, VE1FQ (1976) and Bill Elliott, VE1MR (2003). My sincere thanks go to HARC for nominating me and to all who wrote letters of support.

A number of events have taken place in the last four weeks, including the MS Walk on 26 May, where 10 HARC members under the leadership of Terry Bigelow, VE1TRB, and Tom Caithness, VE1GTC, provided communications for the event. This may be our longest running public service event!

Our annual Flea Market took place on Saturday, 1 June at St. Andrew's Community Centre with 50 plus tables of interesting items, good door prizes and 260 attendees. There was a nice social event the evening before for those who had arrived early from more distant points. It was a smaller flea market than many in the past but a clear success by any reasonable measure. Murray MacDonald, VE1BB, provided the leadership and many Club members helped in various ways to make it all happen. For some time small flea markets in the region have been declining in attendance so the meeting following HARC's Flea Market to discuss the possibility of one big Maritime, or even Atlantic Provinces, ham fest was very interesting. There was nearly unanimous support for the idea among the c.a. 20 attendees representing most key Clubs. An Interim Planning Committee was struck to further develop the ideas for approval by sponsoring Clubs. It is expected that a regional ham fest will take place in 2014 and will be at a location that is central for most hams.

Finally, the City has agreed to allow us to locate a storage container at Cowie Hill so the way is clear for us to purchase the insulated container approved by the Club. This will take care of our storage problems for the medium term, allowing us time to develop a longer term, hopefully permanent solution. We are aiming to complete the move to Cowie Hill during the summer.

Our next big event is Field Day so be sure and put 21 – 23 June on your calendar, and let Field Day Chair Brian Allen, VE1AZV, know what you can do to help with set up and operating over the weekend. This event is HARC's most popular and fun event! Brian will have more to say on the topic at our June meeting.

K. Scott Wood, VE1QD

ARISS is an international educational outreach program with US participation from ARRL, NASA & AMSAT.

<http://www.rac.ca/ariss>

**Executive Reports for June, 2013****Past Presidents Report**

The Club still requires a Co-Ordinator for the Museum of The Atlantic weekend of August 3rd and 4th. We have been asked to Operate from CSS Acadia. A request will be made to the Museum Staff to install the Vertical and Wire Antennas. A number of Club Members have indicated they are willing to take part as Operators but we require a Project Co-ordinator. If you are willing to take on this Task, please contact any member of the Executive.

Fraser Mac Dougall VE1WO

1st Vice President's Report

Nothing to report
Bill, VE1MR

2nd Vice President's Report

Nothing to report
Doug, VE1LDL

Secretary's Report

"Nothing to report."
Jeremy, VE1JHF

Station Manager's Report

Nothing to report
Jim, VE1JIM

Report of Director-at-Large

Nothing to report
Ilan, VE1IGP

Puns for Educated Minds ...

A grenade thrown into a kitchen in France would result in Linoleum Blownapart.



Two silk worms had a race. They ended up in a tie.

A hole has been found in the nudist camp wall.

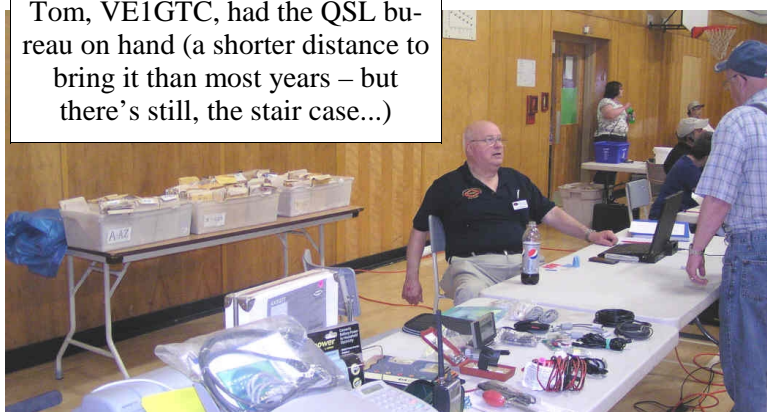
The police are looking into it.

DownEast Flea Market 2013 at the St. Andrews Centre



The NSARA table was 'manned' by Shirley, VE1JFG, NSARA Secretary and Tom, VE1TA, NSARA President. The NSARA Annual Meeting was convened immediately after the Flea Market

Tom, VE1GTC, had the QSL bureau on hand (a shorter distance to bring it than most years – but there's still, the stair case...)



The Club sold a satisfying amount of its surplus equipment

Eric, the ARISS contact sound technician, provided videos from the International Space Station as well as sound for our flea market announcements. Thank you, Eric!

RAC has honoured Scott Wood, VE1QD, with their Amateur of the Year award



Scott receiving the **Canadian Amateur of the Year** award on Saturday May 18, 2013 in Dayton in front of the Radio Amateurs of Canada (RAC) booth.

Scott is the 3rd HARC member to win / be awarded the **Canadian Amateur of the Year** award by Radio Amateurs of Canada. "Our" previous winners were Britt Fader, VE1FQ and Bill Elliott, VE1MR.

RAC's web site is **www.rac.ca**

Standing with Scott from left to right are:
John Sluymer, VE3EJ
George Nicholson, VE1GRN and N4GRN
Gary Bartlett, VE1RGB
Scott Wood, VE1QD
Geoff Bawden, VE4BAW and RAC President
John Scott, VE1JS

John Sluymer and George wrote letters of support and Gary and John Scott together with Howard Dickson (not pictured) prepared the submission.

Website Policy & Procedure: Howard Dickson, VE1DHD is the person to whom all website-related materials are to be sent, Howard will do his best to keep the site current.

Please, help us to keep our website a current and valuable asset to our members as well as the rest of the world. The website has now been updated and there are a couple of new features -- have a look.

Howard Dickson (VE1DHD)



The best wood in most amateur golfer's bags is the pencil.

Let there be light but what kind? Incandescent (maybe to be banned), fluorescent (big & ugly), Compact Fluorescent, LED (LED light bulb technology is not quite mature), kerosene or propane lamps? Have our law-makers thought this through?

Each Compact Fluorescent Light contains a small amount of mercury. We all should be aware that mercury is a dangerous neurotoxin, as is mercury vapour. So how are we supposed to dispose of worn out units? What should we do if one breaks - Especially in a room with inadequate ventilation? Go to

<http://www.lewrockwell.com/blog/lewrw/archives/75548.html> and watch and listen to this video of a speech by a US Congressman regarding the new CFL light bulbs that must be in use by 2014 in the US per Congress. Ignore the political rhetoric but listen to the disposal directions and think about his comment about possible interference with radio and/or TV.



At least the US has some rules on the subject.

And CFL's are readily available in our local stores so where are the disposal warnings and provisions. What are our Canadian authorities doing/recommending about this danger and, really, WHY are people installing them at home? The hype is that "CFL's are more energy efficient; only 10% of the electricity used by incandescent bulbs goes into light; the other 90% goes into heat. Big deal - we live in Canada where even in the warmest areas we need to heat our homes at least three fourths of the year. And the pricey little items don't last anywhere near as long as they are advertised to. *This has been a rant from your editor*

Halifax Amateur Radio Club

General Meeting minutes

May 15th, 2013

Meeting called to order 2034
 Bill Elliot, VE1MR presiding.

Silent Keys:

Roger Adams VE1VK
 Dave Engram VE1DLE
 David Cuzner VE1CUZ

Motion for approval of the agenda

Motion: Fraser VE1WO

Second: Ian VE1IGP

Approved

Treasurer's report

Treasurer's report given by Jim Guilford VE1JG. Jim advised that our insurance is coming due in June, and that he is in the process of investigating the feasibility of obtaining insurance through RAC.

Motion for acceptance by Jim, VE1JG.

Seconded by Jim (JIM)

Approved

Executive Reports

Ian (IGP) made mention of the upcoming car rally in August and asked if anyone was interested in helping out to get a hold of him.

Bill read a report left by Scott mentioning the RAC webinar, the ongoing cleaning and sorting of the Bloomfield site, and the ongoing discussions with Barry at EMO regarding the placement of the storage container.

Fraser (WO) reported on the need for someone to spearhead the event for the Acadia 100th anniversary, as well as someone to take charge of the remote station project.

Membership:

Howard reported that we have 11 Associate and 94 Full members for a total of 109 this month.

Ground search:

George (CAW) reported on a search for a missing person in the York Redoubt area, that, unfortunately, did not end happily.

EMO:

Dave (AJP) was not present.

Archive Project:

Fraser (WO) gave an update on the Archive Project that he and Spud have been working on, and that they had met with the contact at the Archives, and they are continuing to compile materials such as minutes, photos and financial statements. He advised that they should be ready to turn over the material to the Archives by the end of June.

Member News:

No one had anything to report.

Old Business:

Long term storage of HARC equipment:

Bill read the second motion regarding the purchase of the insulated container.

There were a couple of questions put forth which Bill answered.

Tom (GTC) mentioned the upcoming surplus of the old Rockingham fire station.

Motion has been carried pending city approval for placement.

Maritime Hamfest meeting at the flea market:

We still looking for someone represent HARC at the meeting.

Brit Fader Scholarship:

Howard reported that RAC had not put a notice in the TCA about the scholarship, but that it should be in place in the next issue.

MS Walk and Bike Tour:

Tom reported that he has sufficient bodies for the MS Walk. Rick Gardiner is taking care of the Bike Tour.

HARC station remote operation:

Bill reported that Ed (EGG) has made some good progress with testing of the system, but that we still need someone to spearhead this.

CSS Acadia anniversary:

Bill reported on the upcoming anniversary celebrations, and the preparations required for it, and that we still need someone to coordinate that.

Bill asked if there was anyone interested in a possible seminar by Sinclair Technologies (antenna and antenna products manufacturers) on some Saturday in August. There was a general consensus that very few people were interested in this at this point.

HARC Demo at MMM:

Bill asked people to remember that Dick (AI) will be looking for people to operate that this demonstration in September.

Maritime Museum of the Atlantic is interested in having a permanent installation about Maritime communications, if anyone is interested in coordinating that.

Display boards for public events:

There was some discussion about new display boards for public events, but Bill was unsure what Scott had in mind with regards to this.

Howard (DHD) to produce a list for the membership for the draw for the handheld.

Door Prize:

25\$ gift certificate: Ian, VE1IGP

50/50: John VE1VBT

Meeting adjourned at 2112 on a motion from Howard, VE1DHD.

Respectfully submitted

Jeremy Fowler, VE1JHF

HARC Club Secretary

The Maritime Amateur

Ham Radio

for Maritimers by Maritimers

www.maritimeamateur.ca

Notice in health food shop window:

CLOSED DUE TO ILLNESS



Front Row in a relaxed pose L to R Brandon VE1BMF and Graham VE1GFA
 Middle row L to R Win VE1WIN, Doug VE1LDL, Dave VE1DDC, Amanda YL of VE1PJW
 Back row L to R Jeremy VE1JHF, Tom VE1GTC, Terry VE1TRB, Peter VE1PJW

Members of HARC took part in the annual MS Walk held on Sunday May 26, 2013. Voice communication were provided along the routes and rest stops as well as mobile first aid. Other assistance was provided as necessary by the members of the team. MS Staff reported a very successful event.

*I discovered I
 scream the same
 way whether I'm
 about to be de-
 voured by a great
 white shark or if a
 piece of seaweed
 touches my foot.*

Feb.25, 2013 Canada launched NEOS-SAT, a \$24-million asteroid hunter as well as our first military satellite, called Sapphire (\$65 million), and 2 tiny nanosats that are part of projects by Austria, Poland & Canada to study the brightest stars in the sky.

Sapphire will orbit with sun behind it. This will enable it to pick up the light reflecting off old rocket boosters, dead satellites and other debris that threaten operating satellites & spacecraft.

They tiny nanosats are the smallest space telescopes ever – just over 20cm across and less than 7 Kg. each. They will be part of the BRITE Constellation of 6 nanosats scheduled for completion in 2014

Sapphire & NEOSAT were secondary cargo on India's Polar Satellite Launch Vehicle carrying an Indo-French observation satellite.

Source – the Montreal Gazette, Saturday, Feb.23, 2013

Basic Radio Licensing Course

If you know of anyone who is interested in getting an amateur radio license, please have them get in touch with Erik, VE1JEH

By phone at 826-7145 or by e-mail bravojeh@gmail.com



Another 2013 DownEast Fleamarket image – I have to wonder what Erik is saying to Scott to cause that particular facial expression –ed.

From the Mail Bag

I have made some changes to my web site. I have an up to date version of the club history at:

<http://www.ve1bc.com/files/Manuscript%20VE1FO.pdf>

It is now rather lengthy and takes a little while for it to load.

The web site is: www.ve1bc.com

I have updated my history of the Gypsum Fleet that some may find of interest. I have also included a history of the two small railroads the Cornwallis Valley and North Mountain Railways that operated in Kings County years ago.

73/88, Spud VE1BC

New Online QSL Request Service

Tired of putting IRCs or \$2US in an envelope and sending it off to a QSL manager in the hope of getting a confirmation for that rare DXpedition station that you just worked. Well, there is now an alternative to this “tried but often not-so-often true” method of direct QSLing. It is called the Online QSL Request Service (OQRS) and there is an excellent article in the June 2013 QST (pg. 88) on this system.

Briefly, it involves your making a QSL request either directly to a QSL Manager who uses the system, or through Club Log; you are automatically linked through to your PayPal account to authorize the \$2.00 payment. Interestingly, if you worked the DXpedition station on more than one band, confirmation for the first band is \$2.00 and all the rest are free of charge.

This is a GREAT system for QSL managers for the big DXpeditions too in that it saves them both time and money. No more opening envelopes, checking for the proper currency or stamps, printing off the mailing labels etc.; PayPal takes care of it. And, it is fast!

To try the system out, I just requested two QSLs from the 5D5A Morocco DXpedition of March 2011. Mind you, this goes against my established principle of initiating a QSL request, but I wanted to see how the system works. It cost me two dollars to get two contacts confirmed. This is a real bargain as I saved the cost of sending a Direct Card to their QSL manager; I saved the cost and time of printing out my confirming label and placing it on my card, and broke even on what one would normally include in the envelope (\$2.00US).

“Check it out!!!”

From -Howard Dickson, VE1DHD

HamTV from the International Space Station....

Frequencies have been announced for the new Ham Radio Digital TV transmitter that will transmit from the ISS in the amateur radio 2400 MHz band.

The main mission of HamTV is to perform school contacts between the astronauts onboard ISS and the scholarship, not only by voice, but also by unidirectional video from the ISS to the ground within ARISS program.

In addition to the existing VHF radio amateur station, ISS will host a

S-Band video transmitting station. This new equipment can broadcast images from the ISS during the school contacts or other pre-recorded video images up to 24 hours a day to allow ground stations tuning.

It is planned to transmit DVB-S signals on 2.4GHz at either 1.3Msps or 2.3Msps with 10 watts of RF from the ISS Columbus module.

The IARU Amateur Satellite Frequency Coordination Panel have announced coordinated frequencies of 2422.0 MHz and 2437.0 MHz.

HamTV on Facebook: <https://www.facebook.com/Hamtvproject>

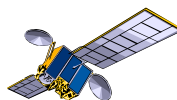
More information from AMSAT-Italia at http://www.amsat.it/Amsat-Italia_HamTV_brochure.pdf

Link Budget: http://www.amsat.it/Amsat-Italia_HamTV.pdf

Italian astronaut Luca Parmitano KF5KDP is planned to launch from Baikonur in Kazakhstan to the ISS on May 28 (see High School Student's RocketHub Project). It is understood that the HamTV equipment will be carried to the ISS on the ATV 4 spacecraft currently planned to launch on June 5.

Passed along by Ken, VY2RU

Up on the stage at the Fleamarket Eric (ARRL contact sound technician) provided videos from the International Space Station.



Why is it that no plastic bag will open from the end you first try?

Safety

So you purchase a package of batteries and you're stuck having to store the extra(s). What better place than the junk drawer in the kitchen? But first insulate the battery contacts.

This video is from the CBS television station in Boston, MA and its an eye opener! Wait till you see how easily a fire can start with a 9 Volt or AA battery.

<http://ehssafetynews.wordpress.com/2012/11/05/updated-house-fires-caused-by->

November 5, 2012 By Jack Benton in Fire Hazard, Fire Prevention, News, NFPA, Personal Safety, Public Safety, Safety Education, Safety in Real Life, Safety in the Home Tags: Amherst New Hampshire, CBS, Fire chief, Fire marshal, Londonderry New Hampshire, New Hampshire, Nine-volt battery,

LONDONDERRY, NH 8/8/2012 (CBS) – New Hampshire's Fire Marshal is warning people after a fire at an Amherst, New Hampshire home that is being blamed on a battery, paper clips, post-it notes, and other items stashed in a junk drawer. The prongs of the battery, a 9-volt, apparently came in contact with a metal item and some paper. The metal item conducted the battery current, and the paper worked as fuel.

On Wednesday, Londonderry Fire Chief Mac Caffrie demonstrated for WBZ-TV just how it can happen.

"The potential is there," Chief Caffrie said. "There are a lot of things in a normal junk drawer that do burn, and apparently the ignition source was a 9 volt battery."

Chief Caffrie points out there are easy solutions.

"Just take a piece of electrical tape and put it across the battery," he said.

A simple move like that can protect your house from a very real risk.

<http://boston.cbslocal.com/2012/08/08/nh-fire-marshal-warns-about-junk-drawer-items-after-amherst-blaze/>



RAC Bulletin 2013-019E

Radio Amateur of Canada Foundation Grants 2013-05-16

Radio Amateurs of Canada (RAC) is pleased to announce that we are seeking applications for grants from Amateurs across Canada in the following categories:

*Scholastic Grants for deserving Amateur Radio Operators

*Research Grants for research and development related to Amateur Radio

*Community Grants for charitable institutions, senior homes, and youth centres

*Emergency Grants for radio equipment for emergency service groups

The Board of Directors is especially interested in awarding grants to deserving young Amateur Radio operators who are furthering their education at the College or University level in an Electrical Engineering course. If you are enrolled in a Science, Technology, Engineering or Mathematics (STEM) program we also encourage you to submit a request. Send your College / University name, recent transcript, Amateur Radio Certificate and a brief biography to RAC.

Further details and application forms are available at the RAC web site: <http://www.rac.ca/en/rac/donations/foundation/grant-info.php>.

If you have a child or grandchild in college or university this would be a great way to assist them furthering their education in the technology fields. Using the knowledge obtained from their Amateur Radio skills to further their engineering ability.

The Board of Directors is pleased to thank all the Amateurs across Canada who have generously donated to this program. If you wish to contribute please contact RAC HQ for further details.

I will be the contact person for this round (2013) of grant applications.

Bill Unger, VE3XT <ve3xt@rac.ca>

RAC Director - Ontario North East

An older Jewish gentleman was on the operating table awaiting surgery and he insisted that his son, a renowned surgeon, perform the operation.

As he was about to get the anesthesia he asked to speak to his son.

"Yes, Dad, what is it?"

"Don't be nervous, son; do your best and just remember, if it doesn't go well, if something happens to me, your mother is going to come and live with you and your wife...."

The Canadian military is looking at mounting high-powered lasers on armoured vehicles to help protect troops from roadside bombs or IED's by detonating these devices from a distance.

Of the 158 Canadian soldiers killed in Canada's 10-year combat mission in Afghanistan 93 died in IED incidents.

Laser technology has advanced greatly in recent years and lasers are now close to being used in the field. Recent developments in the fibre laser technology has lead to "availability of low-cost and robust core laser systems readily available for defense applications."

Source: the Montreal Gazette, Feb .23, 2013



The membership year is from January 1 to December 31.

All members receive the newsletter.

HALIFAX AMATEUR RADIO CLUB MEMBERSHIP - For 2013

- ☐ Same address as last year ☐ New address
☐ I would like newsletter as PDF E-Mail (Please note by taking newsletter online you save the Club significant mailing and printing costs)

E Mail Address (Please provide for our files and NSARA membership)

Call Sign _____

First Name Initial Surname

Street Address (Mailing)

City/Town Province Postal Code Telephone Number

Fees: ☐ Full Member, must be a licensed Amateur (\$30.00) ☐ Associate member (Non Voting) (\$15.00)

☐ Family membership (one newsletter) (\$30.00) + \$15.00 each additional person.* Amount submitted \$
 * All Full Members will also be Members of NSARA

✉ Mail to: Membership Chair CERT _____ CARD _____
 Halifax Amateur Radio Club
 P.O. Box 8895 SEC _____ ENTERED _____
 Halifax, NS B3K 5M5

"Redneck High Tech"

Megahertz - How your head feels after 17 beers.

Modem - What you do when the grass gets too high.

Mouse pad - Where Mickey and Minnie live.

Network - Scooping up a big fish before it breaks the line.

Screen - Keeps mosquitos on the porch.

Serial Port - A red wine that you drink with breakfast.

Superconductor - Amtrak's Employee of the Year.