



# REFLECTOR

PO BOX 663  
HALIFAX NS  
B3J 2T3

October 2007 Volume 68 Number 8

club web site is [www.halifax-arc.org](http://www.halifax-arc.org)



**Our Club Station is located at the St. Andrews Recreation Centre See page 10**



The **General Monthly Meeting** of the Halifax Amateur Radio Club will take place Wednesday, October, 2007 at 1930 hours (7:30 PM) in the new club rooms in the **Saint Andrews Recreation Center**. (For directions see page 10.) There is plenty of parking. The evening will be a social evening.

Guests are welcome.

Fraser (VE1WO) has accepted the position of Chair of the 2008 HARC Flea Market.

**Nametags** bearing the club logo are available for \$5.00. If interested, please contact Dave, VE1NN

The **Club station** is a good space for ham radio activities. **Please reserve your date & time** with Station Manager Brian Allen, VE1AZV E-mail [basailor@eastlink.ca](mailto:basailor@eastlink.ca)

How can you measure the speed of light in your kitchen? See [www.mrhood.co.uk/pub?p=151](http://www.mrhood.co.uk/pub?p=151)

HARC Club Station phone number - 490-6421

See the HARC Web site at: <http://www.halifax-arc.org>

**Our executive and committees.**

Position Name & Call Sign	Phone #	E-Mail
President - Bill Elliott, VE1MR	865-8567	ve1mr@rac.ca
First V.P. - Dick Grantham, VE1AI	434-8046	ve1ai@rac.ca
2nd V.P. - Tom Caithness, VE1GTC	477-7081	tom.caithness@ns.sympatico.ca
Secretary - Murray MacDonald, VE1MMD	876-0661	twomacds@ns.sympatico.ca
Treasurer - Fraser MacDougall VE1WO	865-4198	ve1wo@rac.ca
Director-at-Large: - Doug LeBlanc, VE1LDL	465-4665	leblanc@accesscable.net
Club Station Mgr. - Brian Allan, VE1AZV	489-4656	basailor@eastlink.ca
Past President - Bob Swinwood, VE1PQ	860-4454	bob_swinwood@hotmail.com

**Committees/Offices/Prime Contacts**

75th Anniversary Chair – VACANT

Brit Fader Memorial QSL Bureau Manager - Tom Caithness, VE1GTC  
477-7081 tom.caithness@ns.sympatico.ca

EMO Coordinator - Dave George, VE1AJP	466-8723	dgeorge@dal.ca
Reflector editor - Lynn Bowser, VE1ENT	865-8567	ve1ent@rac.ca
Reflector Dist. - Howard Dickson, VE1DHD	823-2024	dhedickson@hfx.eastlink.ca
Membership - Howard Dickson, VE1DHD	823-2024	dhedickson@hfx.eastlink.ca
Web page – Rob Ewert, VE1KS,	826-1705	ewertr@hfx.eastlink.ca
Basic ham course - Scott Wood, VE1QD	823-2761	ve1qd@rac.ca
EMO Trailer coordinator – David Musgrave, VE1EDA	435-4333	ve1eda@rac.ca
2008 Flea market Chair – Fraser MacDougall VE1WO	865-4198	ve1wo@rac.ca
Field Day coordinator – VAVANT		
Safety Officer – Terry Bigelow, VE1TRB		ve1trb@eastlink.ca
RAC Atlantic Dir. (acting) - Len, VE9MY	(506) 847-5656	lmorgan@nbnet.nb.ca
NSARA Director - Scott Wood, VE1QD	823-2761	ve1qd@rac.ca

**Take-15 Net Controllers**

**NOTE: There have been some changes.**

This will be the rotation.

If you cannot take the net on your particular evening get in touch with one of the others and trade places with them. If I have left any one off the list, or you want to join, please let Bill Elliott, VE1MR, know.

October 14	Peter	VE1PJW
October 21	Chris	VA1CDB
October 28	Wayne	VE1WPH
Nov. 4	Herb	VE1HX
Nov. 11	Win	VE1WIN
Nov. 18	Emil	VE1ESP
Nov. 25	Chris	VA1CDB



**Puzzler - Do you know?**

What was the TE-147 transmitter. where & when was it in service?

*Answer on page 5*



**Deadline for submissions to the November Reflector is Saturday, November 10, 2007**

*Murphy's Law of Lockers: If there are only two people in a locker room, they will have adjacent lockers.*

**GENERAL INFORMATION**



Sunday evenings:  
EMO Net: at 7:30 PM on 147.270 +  
TAKE-15 NET at 8:30 PM on  
147.270 + (VE1PSR/VHF)

CLUB REPEATERS:  
VE1PSR/VHF - 147.270 MHz +  
VE1PSR/UHF - 444.350 MHz +  
VE1PSR/6M - 53.550 MHz -  
access tone 151.4 Hz  
VE1HNS - 146.940 MHz -

PACKET:  
VE1NSD 145.050 MHz LAN NODE

*Events for Your Calendar*

**Work 40 YLs Challenge.** You still have time to work & log 40 YLs in 2007 for the CLARA challenge

**A Basic Radio Licensing Course** started Thursday, September 20. Anyone interested should get in touch with Scott, VE1QD

A CW course this fall conducted by Gary, VE1RGB. If you are interested in taking the course, or you know of anyone interested contact Gary.

October – VHF/UHF Contest

October 19-20– JOTA (Jamboree On The Air) golden jubilee: the 50th JOTA will run from 19 October 2200hrs to 21 October 2400hrs GMT

October 20 – Greenwood Fleamarket

December - Christmas party

**Attention new Amateurs**

Any new amateurs obtaining their call-signs please let Howard, VE1DHD, know by phone at 823-2024 or e-mail [hdickson@hfx.eastlink.ca](mailto:hdickson@hfx.eastlink.ca)

About Earth's Moon ...

From an article in the New York Times by Kenneth Chang

Years of bouncing laser beams off mirrors left on the lunar surface by the Apollo astronauts show that each year the moon is another 3.8 cm. farther from the earth ; so the moon was once closer to Earth than its current approximately 238,000 miles.

NASA is planning the Lunar Reconnaissance Orbiter, a robotic mission to the moon; in 2008. India, Japan and China are also planning robotic missions.

As far back as 1799, the mathematician Pierre-Simon LaPlace noticed that the moon's girth (3,475 kilometers) is about 4 km. greater than its pole-to-pole height.

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

**Are you up to date with your HARC membership dues?**

Yearly rates are as follows:  
 Full = \$25      Associate = \$15  
 Family (2 members) = \$35 + \$10 for each additional family member at same address (only 1 newsletter)

From the ARRL Letter, Vol. 26, No. 15 To learn more about ARRL Certification and Continuing Education courses and registration for online courses (for ARRL members) visit the CCE Course Listing page <<http://www.arrl.org/cce/courses.html>>

Offerings include:  
 Radio Frequency Interference  
 Antenna Design & Construction  
 Analog Electronics (EC-012)  
 Digital Electronics (EC-013)  
 or contact the CCE Dept.  
 <[cce@arrl.org](mailto:cce@arrl.org)>.

*By the time you can make ends meet, they move the ends.*

From the ARRL Letter, Vol. 26, # 40 **ARRL Shipping New Books:** The ARRL is shipping three new ARRL publication editions: "The 2008 ARRL Handbook," "ARRL's HF Digital Handbook" and "ARRL's Low Power Communication." An early bird bonus CD is guaranteed for members and customers who place orders for The ARRL Handbook by October 31. You can find ordering details and more information at ARRL Online Product Catalog <<http://www.arrl.org/shop>> These books are also available from ARRL publication dealers. Find the dealer nearest you by going to the ARRL Dealer Locator Web page <<http://www.arrl.org/catalog/dlrsearch.phtml>>.

Check out the web site for the Southern Alberta Balloon Launch Experiment #3 (SABLE-3)

<http://www.sbszoo.com/bear/sable/sable3.htm>

*From Chris, VA1CDB*

From the ARRL Letter, Vol. 26, No. 22

In accordance with an Industry Canada/R.A.C. agreement special permissions allowing some Canadian radio amateurs to conduct **experiments at 136 kHz and 5MHz terminated June 30.** "These experiments have had, as one objective, the provision of data that would support the objectives of RAC and the IARU for possible new allocations to the Amateur Service at these frequencies," RAC said. Future special authorizations will depend on the outcomes of WRC-07, which gets under way Oct.22. New, worldwide, secondary amateur allocations at 135.7 to 137.8 kHz and in the 5 MHz range are up for possible consideration at WRC-07. RAC Newfoundland-Labrador Section Manager Joe Craig, VO1NA, described some of his LF experiences in "The Transatlantic on 2200 Meters," (July 2005 QST) <<http://www.arrl.org/qst/2005/07/craig.pdf>>. Craig also has been in the forefront of 60m. experimentation in Canada through the Marconi Radio Club of Newfoundland. In 2003, club station VO1MRC worked N1RL in Massachusetts for the 1st Canada-US 2-way amateur contact on 60m. See <<http://www.u.c.s.m.u.n.c.a/~jcraig/5megex.html>> 5 MHz Exp

HARC has a stock of **Anderson Powerpole connectors** for sale at \$1.25 each (for a red and black connector for one complete end ). To make a complete mating pair will require 2 connectors. If you have not already converted all your gear to Powerpole connectors you should consider doing so. Place orders with Tom Caithness, VE1GTC, by E-mail [tom.caithness@ns.sympatico.ca](mailto:tom.caithness@ns.sympatico.ca)



*Understanding Engineers - Take Six*

To the optimist, the glass is half full.

To the pessimist, the glass is half empty.

To the engineer, the glass is twice as big as it needs to be.

**PRESIDENT'S MESSAGE**

Happy Halloween, the club is moving and going quite well. There will be several more sessions and then more time spent getting the new rooms set up. This is a great opportunity to get involved with the club. We are planning some new activities to be announced in the near future. The current executive sees this as an opportunity to rejuvenate the club and get more member participation.

The new facilities will allow several things to be going on at the same time. The actual radio room can be isolated from the other areas and the QSL Bureau will often be active with sorting and recording cards. We are also hoping the library will be better organized and more useful. A workbench will be set up and hopefully some projects will happen that can involve members.

You as a member has a say in what happens, so if you have suggestions or ideas of other things you would like to see happen, please let someone on the executive or a committee know.

On another note, the nominating committee will be canvassing members for executive positions. Please consider what you may be able to do for the club. While executive jobs are important and require some input of time, they are not difficult. The executive, working as a team with the help of members and committees make this club extremely successful.

There may also be some changes in committee make up, hopefully some new committees and more members on several others, Committee work is a great way to be a participating member of the club and learn more about how the club operates as well as a great opportunity to learn more about Amateur Radio.

On a final note, if you have an idea for meeting entertainment, topics and guest speakers, please let the 2<sup>nd</sup> Vice President know. Not all ideas can be implemented but the more ideas heard from the members the better able the executive is able serve the members.

73 - Bill, VE1MR      73 - Bill, VE1MR

From the ARRL Letter, Vol. 26, No. 24

There have been some significant changes to the US Islands Awards Program. The US Protectorate Islands were recently added to the program; formerly, only those islands governed by individual states were included. As such, there are several new islands added to the mix, including the US Virgin Islands, American Samoa, Guam, Puerto Rico and others. New awards have also been added to the program, and an additional award is the works for protectorate islands. USI stresses that the earlier award series is still ongoing and hasn't changed. "These new awards series marks the first expansion to the program in many years," said Page Pyne, WA3EOP, USI's Program Coordinator. For more information, see [www.usislands.org](http://www.usislands.org).

*Pilot: "Folks, we have reached our cruising altitude now, so I am going to switch the seat belt sign off. Feel free to move about as you wish, but please stay inside the plane till we land. It's a bit cold outside, and if you walk on the wings it affects the flight pattern.. Weather at our destination is 50 degrees with some broken clouds, but they'll try to have them fixed before we arrive."*

**EXERCISE // EXERCISE // EXERCISE**

Amateur radio operators who have trained as emergency radio communicators will have an opportunity to test their skills on Saturday, November 10<sup>th</sup> from approximately 8am to 1pm by taking part in *Exercise Summer Games*.

*Exercise Summer Games* has been designed around a scenario where disaster strikes during athletic summer games that are being held in Halifax. Starting with hundreds of athletes who come down with what appears to be a contagious Norwalk-like gastrointestinal virus – the media however suggests that this may be a biological attack perpetrated by terrorists – the scenario escalates to conclude with the bombing of a large cruise ship in Halifax harbour by a small boat loaded with high explosives, and one of the generators at Tufts Cove. As the boat burns, there is fear that the fire could spread to an adjacent wharf where a cargo ship, that is thought to contain high explosives, is tied up. The authorities will consider the evacuation of south-end Halifax.

The Emergency Operations Centre in Dartmouth is activated early on Saturday morning, and Amateur Radio emergency communications personnel are called out to assist with communications. Because of the pressure already on the local Halifax hospitals, many of the casualties are taken to the St. Andrews Emergency Health Centre – a fictitious Emergency Centre located on Bayers Rd. at the St. Andrews Community Centre and the site of the new HARC Club Station and facilities. A Reception Centre is established off the Peninsula in Lakeside at the site of the new Tantallon Joint Emergency Management (J.E.M.) facilities. To assist with communications, Radio Amateurs will be positioned (tactical

*(Continued on page 4)*



(Continued from page 3) **EXERCISE**

voice stations and PacLink stations) at the forward site on the Halifax waterfront, at the St. Andrews Centre in Bayers Rd., and at the Tantallon J.E.M. facilities in Lakeside.

This exercise is designed primarily to test formal message handling. It will compare the effectiveness of passing complex formal messages by voice over a formal directed net, with the passing of the same message using the new portable digital PacLink communications systems that have been developed by Neil Hughes, VE1YZ, for use by Radio Amateurs in emergency situations. The exercise will also test, for the first time, the effectiveness of our SSTV system in forwarding real-time images from the "forward site" back to the Emergency Operations Centre.

Over the past several months, five new portable PacLink stations have been put together and put in use by a number of local Radio Amateurs who were trained by Neil to use them. These digital devices use either Packet or the Internet (whichever is available) to send Outlook Express email messages. Because these stations are fully portable – a digital communication station in a suitcase – this equipment can be set up very quickly at remote locations and can send messages back to the EOC or to any of the other PacLink stations (fixed or portable) on the system. PacLink has been employed by ARES groups in the United States for several years and has proven to be both extremely useful and effective at formal message handling. This will be the first test of our PacLink portable stations in Halifax.

For this exercise, we will require at least five personnel who have had training on the PacLink system, two individuals knowledgeable in the use of the SSTV system, and at least ten radio operators / loggers for the various sites that will be used. If you have received EMO Emergency Radio Communications training, this will be a wonderful opportunity to test and to hone your skills. **Please mark Saturday, November 10<sup>th</sup> 2007 on your calendar and keep the morning open for this important exercise. It will run from approximately 8am to 1pm.**

Howard Dickson – VE1DHD  
Exercise Coordinator

### An IOTA DX-pedition to Bon Portage Island – Part 1`

Does there exist an HF-loving ham who hasn't dreamed of being the "rare one", seated at a good radio station on a remote island, giving out contacts to thousands of eager callers -and working other rare islands? For that great majority of hams who will never go to Heard Is. or Scarborough Reef, there is a relatively easy, inexpensive alternative: journey to a local island and enter the Radio Society of Great Britain's annual "Islands On The Air" (IOTA) contest at the end of July! The July IOTA Contest and collecting the 800+ official IOTA island groups are now major ham challenges.

We, a group of 7 -10 VE/VA/VO/VY1's and 2's, have been doing this for about 15 years, "activating" Maritime islands such as Pictou (XJ1CWI), Fogo (XO1CWI), St. Paul (CY9CWI), the Magdalens (XM2CWI, VC2W), Whitehead (VC9W, XJ9GM), and Seal (XJ1CWI) Islands. Each year we try to learn from our previous mistakes and do a little better in the contest.

For 2007 we activated a new island: Bon Portage (aka Outer) Is., a mile off Shag Harbour on the southwest coast of Nova Scotia. Once the home of lighthouse keepers Evelyn and Morrill Richardson (Evelyn wrote "We Keep A Light", winner of the Governor General's Award for Non-Fiction in 1947), Bon Portage is now a biological research station and bird observatory owned and maintained by Acadia University. The island had also never been activated for the Canadian Islands (CISA) awards, and its lighthouse (CAN-360) had not been on the air. We applied to Industry Canada and received the call VC1W, but under the new rules, could only use it for the 24h of the contest. For the rest of the expedition we either used our own calls/p, or the Halifax ARC call VE1FO/p.

Arriving at Prospect Wharf, the seven of us and our tonne of gear were greeted by Lee Adams, the caretaker of Bon Portage ("BP"). It took two trips of the sturdy 19' Cape Islander "Eider" to get us and our gear onto the island's shaky old dock. Fortunately there was little wind



Loading the boat for BP in Shag Harbour. Easy-to-handle water-resistant packaging is important.

and only small waves, but the deep Bay of Fundy swell that usually wraps around BP made safely passing people, heavy Rubber Maid tubs ("RMTs" to expeditioners), and tower sections up onto the dock a challenge. Fortunately, there was a battered ATV with an ancient trailer on the island: one of the trailer's tires even had air in it. However, we didn't complain: hand-carrying that tonne of gear more than a km down the rough trail to our QTH didn't bear thinking about!

(Continued on page 9)



**Answer to Puzzler on page 1**

The TE-147 was a low frequency transmitter (44 to 150 KHz) which was installed at Naval Radio Station CFH, Newport Corner, near Windsor, Nova Scotia around 1942 and remained in service until the 1970's when it was replaced. For more information see Jerry Proc's article on his web site <http://jproc.ca/rfp/te147.html>

From the ARRL Letter, Vol. 26, # 31 48 teachers from around the US signed up for the ARRL 2007 Teachers Institute. Classes of 12, ranging from pre-school teachers to college professors, get the opportunity to explore and experience firsthand wireless technology basics, how to teach basic electronics concepts integral to microcontrollers and robots, as well as how to bring space technology into the classroom. The 4 day course culminates with building and programming a robot. While the emphasis of the course is not Amateur Radio and teachers need not be hams to attend the all-expenses paid sessions, some do go ahead and take the Technician license exam. Education and Technology Program Coordinator and Director of the ARRL Teachers Institute Mark Spencer, WA8SME, said, "About 80 percent of the non-ham teachers have gone on to get their Amateur Radio license. They get really 'jazzed up' about ham radio while they are here." To find out more about the ARRL Teachers Institute, see the ARRL Web site <<http://www.arrl.org/FandES/tbp/ti.html>>.

**Early Canadian radio clubs:**

Calgary Amateur Radio Association was formed in the early 1920's with 12 amateurs making up the charter members in the association.

*Source – From Spark to Space*

*I'm so depressed. My doctor refused to write me a prescription for Viagra. He said it would be like putting a new flagpole on a condemned building.*

**Safety Corner October 2007**

By Terry, VE1TRB

**Part 2 NON- IONIZING RADIATION**

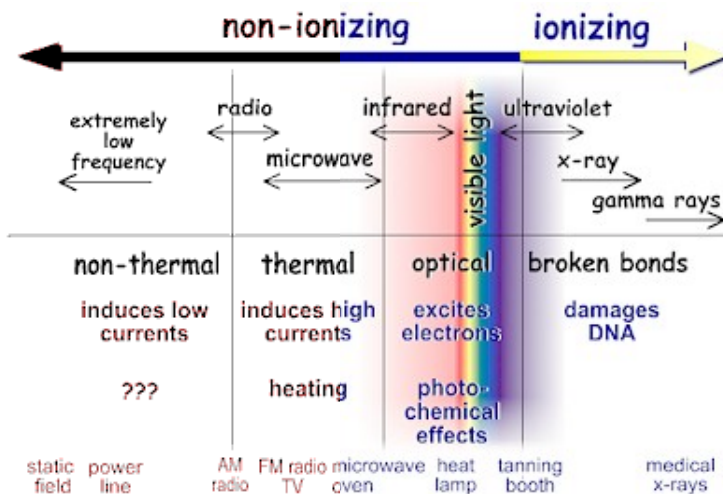
References: [http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/99ehd-dhm237/limits-limités\\_e.html](http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/99ehd-dhm237/limits-limités_e.html)

[http://www.epa.gov/radiation/understand/ionize\\_nonionize.htm](http://www.epa.gov/radiation/understand/ionize_nonionize.htm)

Non-ionizing radiation is described as a series of energy waves composed of oscillating electric and magnetic fields traveling at the speed of light. Non-ionizing radiation includes the spectrum of ultraviolet (UV), visible light, infrared (IR), microwave (MW), radio frequency (RF), and extremely low frequency (ELF). Lasers commonly operate in the UV, visible, and IR frequencies. Non-ionizing radiation is essential to life, but excessive exposures will cause tissue damage, and can pose a considerable health risk to potentially exposed workers if not properly controlled.

**Non-ionizing radiation** has enough energy to move atoms in a molecule around instead of producing charged ions when passing through matter, the electromagnetic radiation has sufficient energy to cause the atoms to vibrate or heat. Non-ionizing radiation is thought to be essentially harmless below the levels that cause heating. Nevertheless it is known to cause biological effects. Visible and near ultraviolet light may ionize some molecules or accelerate radical reactions. The light from the Sun that reaches the earth is largely composed of non-ionizing radiation, with the notable exception of some ultraviolet rays. Most ionizing radiation is filtered out by the atmosphere.

Radiation, having a wide range of energies, forms the electromagnetic spectrum. The spectrum has two major divisions, non-ionizing and ionizing: The energy of radiation shown on the spectrum below increases from left to right as the frequency rises.



Radio frequency fields are a part of everyday life. They are produced by sources such as radio and television broadcasting, mobile radio, communication transmitting facilities, and cellular telephones. They are also produced in our homes by electronic devices such as television sets, computers, microwave ovens and infrared lamps .

Biomedical studies in Canada and other countries indicate there is no scientific or medical evidence that a person will experience adverse health effects from exposure to radio frequency fields, provided that exposure is within the guidelines set out in Safety Code 6.

More on Safety Code 6 in Part 3

**REMEMBER SAFETY IS EVERYONE'S BUSINESS**

If you have any comments or questions that you would like to see addressed in this column, please feel free to send me an email at [ve1trb@eastlink.ca](mailto:ve1trb@eastlink.ca).

**Halifax Amateur Radio Club  
Minutes of the Monthly General  
Meeting  
Wednesday, September 19, 2007**

President Bill (VE1MR) called the meeting to order at 1934 with 48 members and guests in attendance.

Silent Keys: There were no silent keys to report.

Guests / Visitors. Rod Moag, VY2RT and W5NDS, was in attendance.

Executive in attendance:

Bill Elliott (VE1MR) President; Dick Grantham, (VE1AI) 1<sup>st</sup> Vice-President; Tom Caithness (VE1GTC) 2<sup>nd</sup> Vice-President; Murray Mac Donald (VE1MMD) Secretary; Fraser Mac Dougall (VE1WO) Treasurer; Doug Leblanc (VE1LDL) Director-at-Large; and Bob Swinwood (VE1PQ) Past President.

Regrets: Regrets were received from Brian Allan (VE1AZV), Station Manager.

Minutes of the June 20, 2007 monthly general meeting: It was moved by Win (VE1WIN) and seconded by Terry (VE1TRB) that the minutes of the June 20, 2007 meeting, as printed in the September 2007 edition of the Reflector, be adopted. Motion was carried.

Executive Reports:

Treasurer's report: Fraser (VE1WO) presented financial reports for July and August. He reported that the income for July was \$1,342.22 and that expenses were \$359.34. The bank balance at the end of July was \$14,756.19. Fraser also reported that income for the month of August was \$ 1,575.08 and expenses were \$4,591.40. The bank balance at the end of August was \$12,091.98.

It was moved by Dave (VE1EDA) and seconded by Terry (VE1TRB) that the Treasurer's Report be accepted. Motion was carried.

Secretary's report: Murray (VE1MMD) reported that the lease for the St. Andrews facilities had been signed covering the period of 01 Sep. 2007 to 31 Aug. 2012, with a renewable clause included. He ad-

vised that we now have 24-hour access to our facilities. He thanked Barry Manuel, EMO, for his ongoing assistance to the Club in relation to the lease and improvements to the facilities. Murray reminded the members that the Club has identified a number of issues of the QST magazine required to complete the Club's collection. He asked members to check their libraries and if they have surplus issues that the Club requires, to let him know.

President's report: Bill (VE1MR) reported that the 75<sup>th</sup> Anniversary Committee is in need of a Chair and other volunteers. If any one is available to take on these duties, please let him know. He thanked Doug, VE1LDL, for taking the time this evening to attend at our Bloomfield site to direct any members or guests that showed up for the meeting to the new facilities.

1<sup>st</sup>. Vice President's report: Dick (VE1AI) reported plans are under way to move the Club's antennas and to reinstall them at the new site. He advised that plans are under way to install a forty-eight (48) foot tower along side the station. Approval has been received from the HRM for the installation of the tower. The hole for the tower base is expected to be dug within the next few days at no cost to the club. The plan is to have the tower and beam installed within three (3) weeks. He reviewed the current antennas owned by the Club and will be recommending the purchase of a sloper and dipole. Dick advised that an antenna party is scheduled for September 29<sup>th</sup> to remove the existing antennas from Bloomfield.

2<sup>nd</sup>. Vice President's report: Tom (VE1GTC) reported that the QSL Bureau had been moved to St. Andrews. He advised that a team consisting of Tom, Brian (VE1AZV) and Murray (VE1MMD) have been working at cleaning up the backlog and a number of mailings have taken place with more expected shortly. A box of cards had just arrived from the bureau in St. John and will be sorted shortly. For those

wishing to pick up their cards, plans are to have the Bureau open on Saturdays once the move is completed, or they may be picked up on monthly meeting nights. In the meantime Tom will be in the QSL Bureau most Tuesdays. He reported that the information concerning individual participants on the HARC web page is not correct and will be updated following the Greenwood Flea Market. Following discussion, it was agreed to continue to post QSL card totals and money on hand on the HARC web site. Tom advised that he has secured door prizes for up to the November meeting. The door prize for this evening is a stainless steel hammer multi tool.

Station Manager's report: Brian (VE1AZV) sent his regrets due to work commitments. In his absence, the secretary reported on his behalf. Work crews are required for both September 22<sup>nd</sup> and 29<sup>th</sup> to continue packing and associated matters in relation to the move. Brian, Bill, Dick and Murray had a meeting with Barry Manuel (E.M.O.) and an electrician from the Fire Service to assist in determining the electrical requirements for the new facilities. Brian has prepared a plan showing the required outlets, switches etc. The plan is to install a transfer switch to allow for the switching of generator power in the event of loss of power. He will be meeting with the electricians ASAP. Brian had met with a HRM engineer to discuss the installation of the proposed tower. (See Dick's report). He will be installing the projection screen and white board prior to this Saturday for use by the course presenters.

Member at Large: Doug (VE1LDL) advised that he had nothing to report.

Past President: Bob (VE1PQ) advised that he had nothing to report but indicated that he was pleased with the proposed plans to open the station on Saturday mornings. He felt this was a positive move and will provide members the opportunity to get more involved in the Club.

*(Continued on page 7)*

*Minutes* (Continued from page 6)

Committee reports:

**Membership:** Howard (VE1DHD) reported that the 2007 membership total stood at 155 consisting of two (2) life members, twenty-seven (27) associate members and one hundred and twenty-six (126) full members. In addition, eight (8) full members had paid their dues for the 2008 year.

**Search and Rescue:** Dave (VE1AJP) reported that the summer had been busy for the Search and Rescue team starting with the search for the two (2) young boys who died tragically in the Sackville area and ending with the tragic loss of life of two (2) men in the Lake Major area. He advised that they should be receiving their new logistics vehicle within the next three (3) weeks. A number of improvements had been added including the addition of a generator with 16,500-watt capacity. They have received twelve (12) new Motorola VHF units that include GPS capability. Dave reported that a new site for their bingo had been secured and they are currently working on building up their clientele.

**EMO:** Dave (VE1AJP) reported that a considerable amount of training had been conducted on the use of the Win 2000 Pac-Link E-Mail system.

**75<sup>th</sup> Anniversary:** Bill (VE1MR) reported that he continues to chair the meetings of the 75<sup>th</sup> Anniversary Committee, but that a full time Chair was still required. He advised that plans for the 75<sup>th</sup> Anniversary are proceeding well and that a report will be available for the October general monthly meeting.

**Field Day:** Bill (VE1MR) reported that the required information had been submitted for Field Day. This year's total points showed an increase over last year and he is confident that we should take the 2F class overall. The results should be known within 1½ to 2 months.

**Basic Course:** Scott (VE1QD) advised that the basic course would commence on September 29<sup>th</sup> with

thirteen (13) to fourteen (14) in attendance. Anyone interested in taking the course, or knows of anyone interested, is requested to contact Scott.

**Morse Code Classes:** Gary (VE1RGB) advised that the classes commenced on September 17<sup>th</sup> at the new facility with four (4) in attendance. Anyone interested in taking the course, or knows of anyone interested, is requested to contact Gary.

Dave (VE1EDA) presented a plaque to the Club on behalf of the M.S. Society for our ongoing participation in their events.

**Old Business:** There was no old business requiring attention.

**New Business:**

**Presentation to Club:** Win (VE1WIN) presented a professionally designed and produced banner to the Club recognizing the Club's 75 anniversary. He dedicated it to "the members sitting at these tables and all those who came before them" and requested that it be hung in the Club facilities.

He also indicated that he felt more should be done to recognize those who served as executive members over the years. As a result he moved, seconded by Doug (VE1LDL) that a wooded plaque containing the names of those who had served as executives be procured and displayed in the Club facilities. The motion carried.

**Nominations / Nomination Committee:** Howard (VE1DHD) spoke on the need for an elected nomination committee to be in place now. He stated that the Club is at a critical juncture in its history with the upcoming 75<sup>th</sup> anniversary celebrations and the move into our new facilities. He reviewed the way executive positions had been filled in the past with the incumbent executive generally keeping their positions without elections, in an effort to make life easier for the Chair of the Nomination Committee. He emphasized the fact the Club had a large pool of talented and technically ca-

pable that remained basically untouched. As a result, a small number of members ended up doing much of the work of the Club. He noted that tonight's turnout was one of the largest the Club has seen in a period of time and certainly should be the norm. He advised that a competent Chair and Committee should be put in place as soon as possible. The Chair and Committee must include members who are knowledgeable of Club members, their talents and commitment as it was imperative that the Committee identify competent people for the various executive positions and committee chairs. Although the past methods have produced good executives and committee chairs, he felt that it was time to ensure continuity, opportunity for growth and new blood. He advised that the role of the Chair and Committee was to bring forward a slate of competent candidates.

Terry (VE1DTY) stated that the fact that no elections had been held in the past could be attributed to a lack of communication, and that communications must be improved.

Scott (VE1QD) moved, seconded by Dave (VE1NN) that Howard be elected as Chair of the Nominating Committee. Motion carried. It was agreed that Scott (VE1QD) and Win (VE1WIN) be appointed as members of the Committee.

**JOTA:** Howard reported that he had been approached by a Scouts Canada representative concerning the Club's assistance in setting up and operating a station during the Jamboree on the Air on October 20<sup>th</sup>. Doug (VE1LDL) and Sam (VE1VYN) agreed to attend.

**Auditor:** Bill (VE1MR) advised that we require a member to serve as Auditor to review the Club's financial records for the annual general meeting. It was agreed that he would contact Matt Boyle (VE1BSG) to ascertain if he would be willing to serve as auditor.

**Reports / Announcements:**

(Continued on page 10)



Mr. Dickson and Mr. Grantham,

Hello, my name is Willy Adams and I am the current Assistant Area Commissioner for Troop (Scouts). I am contacting you in regards to a Scouting event that has been happening for the past 49 years, this year will be 50 years. Here is an excerpt from the JOTA web site that best explains what JOTA/ Jamboree On The Air is about

"The JOTA/ Jamboree On The Air is an annual event in which about 500,000 Scouts and Guides all over the world make contacts with each other by means of amateur radio. It is a real Jamboree during which Scouting experiences are exchanged and ideas are shared, thus contributing to the world brotherhood of Scouting. This years JOTA will have a theme; in 50 hours we will travel around the globe. Fifty hours? Yes, 50 hours, not just 48. This golden-jubilee JOTA is 2 hours longer: the 50th JOTA will run from 19 October 22:00 h GMT to 21 October 24:00 h GMT." If you wish you could copy and paste this address to your explorer for more information on JOTA and to see how really large this event really is. <http://home.tiscali.nl/worldscout/index.htm>

Last year this did not take place as I did not get any of the information until it was too late, to see if you or someone in your club could help. It has been greatly appreciated for the assistance in the past, because without your radio club and your time and equipment we would not be able to put this on for the Scouting youth in our area. I have been there for JOTA the last number of years and it has been a wonderful experience for me, and to see the look on a scouts face when they are able to talk to someone from far away country.

I know I am contacting maybe a little too early, but I am thinking too early is better than too late. This year we are hoping to hold it on the 20 Oct 07 just for the day at Camp Harris. I do realize the statement from the web site I put into this e-mail, says it is 50 hours. But, any amount of time you could give us would be terrific and very appreciated. I am looking forward to hearing from you and thank you for taking the time to read this e-mail.

Willy Adams, AAC Troop  
grizzlyla@hfx.eastlink.ca



## From the Mail Bag



You guys might be interested in this:

<http://www.aytechnologies.com/TechData/K9AYLoopArrays.pdf>

Cheers, Al, VO1NO

Enjoy the radio nostalgia

<http://www.youtube.com:80/watch?v=vBGIdf0VjQ4>

"Radio Hams" Film (Pete Smith Specialty)

*Sent along by Chris, VA1CDB*

### From the Sept.07 Tantramar A Matter of Mutual Concern

As many of you have discovered, some unsavory mental midget has purchased our former domain name, 'www.westcumb.com' and is using it to promote his smut on the internet!

Unfortunately, there is absolutely nothing anyone can do to stop this. It was certainly in our best interests to continue with our former domain name and we did our best to re-register it back in the spring but with no user name and password to be found, it was not possible. Now we are faced with visitors to our website subjected to this filth if they do not use our new domain name to reach this site. And there is no easy way for me to inform everyone of the change!

Please help out by sending an email to all amateurs you have email addresses for. Let them know that the WARC is located at [www.westcumb.ca](http://www.westcumb.ca) now and not the former URL

Thanks...73 de VE1CHI, Jim C. Webguy

=====

Here is a short note to email to other amateurs:

Hi..

Just wanted to let you know that the WestCumb Amateur Radio Club (WARC) website is now located at <[www.westcumb.ca](http://www.westcumb.ca)>. Please bookmark this site for future reference. Thanks and 73...

If any WARC club member or any other amateur wishes to have something of mutual interest listed on our website, simply email the info to Jim at <[ve1chi@rac.ca](mailto:ve1chi@rac.ca)>

*Language quirks – There is no egg in eggplant nor ham in hamburger; neither apple nor pine in pineapple. English muffins weren't invented in England or French fries in France (Surprise!). Sweetmeats are candies while sweetbreads, which aren't sweet, are meat...*

Good morning Mr. Adams:

I took part in the JOTA/Jamboree on the Air three years ago from Camp Harris as did Dick Grantham and several others. We all had a very rewarding day helping your young people make contacts around the world. I am sure that members of the Halifax Amateur Radio Club will be able to provide assistance on Saturday October 20th. I will discuss this with Dick and raise it with Bill Elliott our Club President and will get back to you in the near future to confirm our participation. Looking forward to talking to you again soon.

Howard Dickson (VE1DHD)

*Doug, VE1LDL, and Sam, VE1VYN, will do JOTA this year. -ed.*



(Continued from page 4)

Our QTH, the old light-station on BP's southern tip is a ham's dream: surrounded by salt water for 300°, the two houses and lighthouse are on a couple of grassy, level acres of moist soil 15-30' above high water: just perfect for HF propagation! In fact, we located the 80m vertical/inverted L on the rocky beach about 2' above the high tide mark, with a 10' section of galvanized masting submerged below the low tide mark clamped to old RG-8 to serve as part of it's ground plane! The marine flavor of this antenna was further enhanced by its four guy rope anchors: a driftwood log; a commercial fish box full of rocks; and two lobster pots.

The two houses, set up to accommodate groups of biology students, were surprisingly comfortable: the propane-fired water heater and stove worked, and when the old lighthouse diesel genset ran it operated the lights, water pump, and refrigerator. This 10 kW genset (no longer needed for the "solarized" lighthouse beacon) had "issues", and provided several of us with our first opportunity to hand-crank a 3-cyl diesel engine... not a "geezer-friendly" task...

The IOTA contest uses the "classic" HF bands only (80, 40, 20, 15, and 10m), and we run in the "Multi-Op High Power DXpedition" class, which requires both a "run" and an "island multiplier" HF station. This makes our setup quite complex for a portable, because we need a 3-computer logging network, Internet access, two good antennas for each band, and we need to minimize the QRM between two 500 W stations only 30' apart. Our goal is to run 20m CW and 20m SSB simultaneously in the same house without serious QRM!

Over the years we've gotten not only older, but (we think) a bit smarter. First suggested by our long-time CW expert Reg, VE2AYU, and finally put into practice on last year's expedition (VC2W) by Al, VO1NO, we put up the towers using the "falling derrick" method. This enables a pre-assembled 40' tower, rotor, and beam to be erected with much better control (always good on windy islands) and with much less muscle (also good for our graying group). Bill, VE1MR used his 20' 6m tower as the derrick for the two 40' HF towers before setting up 6m (see pix).

Wednesday, 25 July was beautiful and we labored all day on the antennas and stations. By nightfall the two HF beams, the 6m beam, 80/40 dual dipole, 40m vertical and 80m inverted L were all up. Eager paws connected the antenna analyzer-great

SWR curves!- and tuned the TS-850 and FT-1000 MP Field -good sigs! The 34' telescoping verticals for 40m and the 80m L were performing well- 63 years after they were made for the WW II Mk 19 wireless set...

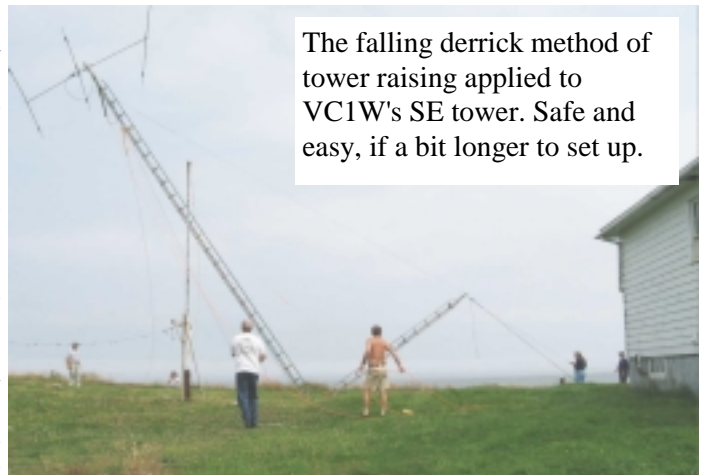
We had laid out the two yagis on a NW-SE line, about 330' apart and used choke baluns to keep their RF inside the coax. This and careful grounding and filtering in the 2 stations allowed us to use SSB and CW simultaneously (both with linears) on 20m- a big advantage! At one point I (VE1FA) was running 20m SSB, and unbeknownst to me, Rich, VA1CHP in the mult station (30' away) was also working on 20m SSB!

Thursday and Friday were spent in putting up the "K9AY" crossed receiving loops, fine-tuning the antennas and the HF stations, chasing endless gremlins out of the computer network, working on the Lister diesel genset, and in casual operating. While we plan carefully, the unexpected often happens. For example, to minimize the lateral load on the top of the old 80m inverted-L mast, we used very fine wire, a tie-wrap insulator, and thin cord for the horizontal section; too fine for the eyes of a cruising herring gull, who got his wings completely tangled. Hanging with one wing over his head, Bill VE1MR cut him loose. Bill was too kind to wait until we found out how well he would load...

(See the November Reflector for **An IOTA DX-pedition to Bon Portage Island Part 2**)



The VC1W QTH on Bon Portage Island, as seen from the parapet of the lighthouse (CAN-360). The distant tower is the NW "Run" beam and the nearer the SE "Mult" beam. Both stations are in the larger house. In the distance is mainland Nova Scotia.



The falling derrick method of tower raising applied to VC1W's SE tower. Safe and easy, if a bit longer to set up.

**Web Smarts - What is Phishing?**

From the Royal Bank Of Canada website

**Phishing** is a type of **fraud** that is designed to trick individuals into disclosing confidential and financial information for the purpose of **identity theft**.

**How it Works**

\* You receive an unsolicited e-mail appearing to be from a legitimate and reputable company, like RBC Financial Group.

\* The e-mail may raise concerns that your account information is out of date or that you have received money. There is usually a sense of urgency and there may be a consequence associated with the request. For example, you are asked to validate your account information in order to prevent it from being suspended or terminated.

\* You are asked to take action by following instructions that usually involve having you click on a link that takes you to a fake Web site. The fake Web site appears valid, often complete with a legitimate company's brand name and logo. Often the link and the URL address of the fake Web site look very similar to the URL address used by the real Company that is being spoofed.

\* You are asked to provide or update your personal and financial information by completing an online form or by responding to the e-mail directly. You may be asked to provide a variety of information such as credit card numbers, account numbers, passwords, date of birth, drivers licence number, and social insurance or social security numbers.

\* Once the information is provided, it is captured by the fraudster who may use it to gain access to accounts or to steal your identity.

Check into the Maritime Noon Net, week days at 12 noon on the Gore repeater, 146.640 – MHz

*Minutes (Continued from page 7)*

Welcome back: On behalf of the Club, Dick (VE1AI) welcomed Jason (VE1PLF) back from his recent tour of duty to Afghanistan.

50/50: Doug (VE1UY) won the 50/50 draw in the amount of \$25.00.

Door Prize: Helen (VE1HMR) won the stainless steel hammer multi tool.


It was moved by Howard (VE1DHD) that the meeting be adjourned.

Meeting adjourned at 2045.

Respectfully submitted,  
Murray Mac Donald, VE1MMD  
Secretary, H.A.R.C.

From the ARRL Letter, Vol. 26, No. 31

**Morse Code Study** – A psychology professor at the University of Pittsburgh is conducting a study involving short-term memory and how it correlates to Morse code. Julie Fiez, the study's principal investigator, said she got the idea of using Morse code in her experiments to see how people process audio tones from a family member who is an Amateur Radio operator. "Our interest is in verbal working memory which is the ability to keep 'on-line' for a short time, information you can access later." First, participants will be asked to accurately copy sentences as they are presented in Morse at 3 different rates (16, 19, and 25 words per minute). Then they will be asked to listen to the entire Morse sentence and recall the sentence from memory. Part two asks participants to recall lists of letters from memory. The letters will either be in English or in Morse. Participants will either hear the letters through headphones or see them on a computer screen. The study will look for differences in memory performance between Morse lists and English lists.

*Health nuts are going to feel stupid someday, lying in Hospitals dying of nothing.* 

**DIRECTIONS to the HARC**

The driveway is located a very short distance past the intersection of Bayers Road outbound and Romans Avenue. You must be in the right hand lane on **Bayers Rd outbound** when you cross Romans Ave. If you see the Bayers Rd. Shopping Center directly to your left you have come too far!!

If you come in from the highway toward Bayers Road inbound you have some choices.

1/ Take Exit 0; turn right on to Dutch Village Rd; go to the lights and turn left onto Mumford Rd; turn left onto Romans Ave.; turn left onto Bayers Rd and get in the right lane and then right into the driveway of the Recreation Center.

2/ Go straight in Bayers Rd (inbound); just before the Halifax Shopping Center turn right onto Vaughan Avenue and follow it to Romans Avenue, turn right onto Romans Avenue; go right along Romans to Bayers Road turn left onto Bayers Rd and get in the right lane and then right into the driveway of the Recreation Center.

3/ Coming from Bedford or the McKay Bridge? Follow Connaught Ave to Bayers Rd.; turn and go outbound on Bayers Rd. in the right lane and turn right into the driveway of the Recreation Center.

Hopefully you will have no trouble getting there – we will try to have someone monitoring 147.270 + for anyone who gets into difficulty.

From the ARRL Letter, Vol. 26, No. 32

New Prefix for Bosnia and Herzegovina: The ITU has granted a request from the Ministry of Communications & Transport of Bosnia & Herzegovina (BiH) to replace T9A-T9Z with E7A-E7Z. According to IARU Secretary David Sumner, K1ZZ, "... it should put to an end the use of call signs outside the ITU-allocated call sign block by stations in parts of BiH." New prefix implementation "probably later this year".