



# REFLECTOR

PO BOX 8895  
HALIFAX NS  
B3K 5M5

October 2012, Volume 73 Number 8

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



## Welcome to Autumn



HARC Club Station phone number - 490-6421

### Executive

|   |          |                                 |
|---|----------|---------------------------------|
| President - Fraser MacDougal, VE1WO       | 865-4198 | fmac@eastlink.ca                |
| First V.P. - Bill Elliott, VE1MR          | 865-8567 | bowser.elliott@ns.sympatico.ca  |
| 2nd V.P. - Betty Caithness, VE1BSW        | 477-7081 | betty.caithness@ns.sympatico.ca |
| Secretary - Jeremy Fowler, VE1JHF         |          | VE1JHF@Gmail.com                |
| Treasurer - John Goddwin, VE1CDD          | 865-5731 | VE1CDD@eastlink.ca              |
| Director-at-Large: - Doug LeBlanc, VE1LDL | 465-4665 | leblanc@accesscable.net         |
| Club Station Mgr. - Jim Flowers, VE1JIM   | 443-8657 | ve1jim@ns.sympatico.ca          |
| Past President - VACANT                   |          |                                 |

### Committees/Offices/Prime Contacts

|  |          |                                |
|--|----------|--------------------------------|
| Government liaison - VACANT                      |          |                                |
| QSL Bureau Mgr - Tom Caithness, VE1GTC           | 477-7081 | tom.caithness@ns.sympatico.ca  |
| EMO Coordinator - Dave George, VE1AJP            | 466-8723 | dgeorge@dal.ca                 |
| EMO Trailer coordinator - David Musgrave, VE1EDA | 435-4333 | ve1eda@rac.ca                  |
| Reflector editor - Lynn Bowser, VE1ENT           | 865-8567 | bowser.elliott@ns.sympatico.ca |
| Reflector Dist. - Carol Wood, VE1HAZ             |          | carolwood@accesswave.ca        |
| Membership - Carol Wood, VE1HAZ                  |          | carolwood@accesswave.ca        |
| Web page - Brandon Detmers, VA1BSD               |          | brandon.detmers@dal.ca         |
| Basic ham course - Erik Hein, VE1JEH             | 826-7145 | ve1jeh@bellaliant.net          |
| 2012 Flea market Chair - VACANT                  |          |                                |
| Callbook Editor - Howard Dickson, VE1DHD,        | 823-2024 | dh dickson@eastlink.ca         |
| Field Day coordinator - VACANT                   |          |                                |
| Safety Officer - Terry Bigelow, VE1TRB           |          | ve1trb@eastlink.ca             |
| NSARA Director - Barry Diggins, VE1TRI           | 861-3719 | ve1tri@rac.ca                  |
| Honorary Legal Counsel - Paul Radford, VE1ARH    |          |                                |

### Non Club Contacts

|   |          |              |
|---|----------|--------------|
| RAC Atlantic Director - Everett Price, VO1DK      |          | vo1dk@rac.ca |
| RAC Section Manager - VACANT                      |          |              |
| RAC Assistant Director for HRM Scott Wood, VE1QD, | 823-2761 | ve1qd@rac.ca |

### Take-15 Net Controllers

This will be the rotation. We need at least 2 more. **If you want to join**, let Bill Elliott, VE1MR, know.



|         |       |        |
|---------|-------|--------|
| Oct. 14 | Doug  | VE1LDL |
| Oct. 21 | Bruce | VE1MLW |
| Oct. 28 | Emil  | VE1ESP |
| Nov. 4  | Peter | VE1PJW |
| Nov. 11 | Win   | VE1WIN |
| Nov. 18 | Erik  | VE1JEH |
| Nov. 25 | Doug  | VE1LDL |

### 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



The **October General Meeting** of the Halifax Amateur Radio Club will be held Wednesday, **October 17** 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. From 7:30 p.m. until 8:20 p.m., there will be a presentation by Howard Dickson, VE1DHD, will be "Electronic QSLing". General meeting to begin at 8:30pm. Door prize for this meeting will be a \$20 Sobeys Gift Card. Guests are welcome.

### NOTICE of MOTION

The Executive is proposing an upgrade to the Administrative Computer to bring it up to the standard of the existing desktops presently used on the Radio Equipment. This entails replacing the present CPU with a Re-furbished 2.8 MHZ Dual Core unit running Windows 7 Operating System. We will replace Two Monitors with new 22 inch LCD units. The total cost of the upgrade will be \$ 495.30 including Taxes. This motion will be presented for approval at the October Monthly Meeting.

**Deadline for submissions to the October Reflector is Saturday, November 10, 2012**

*Why are they called "stands" when they are made for sitting?*

*Events for Your Calendar*

**Basic Radio Licensing Course** for  
If you know of anyone who is interested in getting an amateur radio license, please have them get in touch with Erik, VE1JEH

October – VHF/UHF Contest

October – JOTA

November 21 HARC Meeting

Meeting to be held 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. The November General Meeting will begin at 7:30 p.m. followed by the Annual General Meeting and Election of Officers. Door prize for this meeting will be a \$20 Sobeyes Gift Card.

December - Christmas party

February – Guides on the Air

Downeast Flea Market – May

Field Day 2007 – June

July – Museum Ships Special Event

July - IOTA (Islands on the Air)

July & August – Pizza Nights

August – MS Bike Tour

Contact Rick Gardner, VE1RGG, to help with communications

August – NSARA Picnic

Northern Lights

August – International Lighthouse & Lightship Weekend

For more information see

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

October – Greenwood Flea Market

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](mailto:ve1jim@ns.sympatico.ca)

*He who hesitates is probably right.*

**The Basic Amateur Radio Licence Course 2012**

Our new radio licence course for this fall started on Thursday 27th of September at 7:00 pm in the HARC club classroom, Saint Andrews Community Centre. The first class was an Introduction-Information-Registration session outlining new technical features and different aspects of the hobby. The required procedures that lead to an amateur radio call sign from Industry Canada will be presented.

The second class Saturday 29th September at 10:00 am to 2:30 pm on Basic Fundamentals, Ohms law and Power was given by Tom VE1GTC. A hands on practical lab on applying the same material using multi meters to take place on the next class Thursday 4 Oct. Gary VE1RGB will be presenting Inductors and Capacitors on Thursday, Oct. 11.

The new course coordinator for 2012 is Erik Hein, VE1JEH. All club members who know of any individual who may want to take the course is asked to refer them to Erik by phone 826-7145 or e-mail, [VE1JEH@bellaliant.net](mailto:VE1JEH@bellaliant.net)

*Silent Key*

Earle Smith, VE6NM, passed away this year in Alberta. There was a service for Earle in Southampton Cemetery on Oct 5, 2012

*Sign in a London department store:*

**BARGAIN BASEMENT  
UPSTAIRS**

**REMINDER**

Have you changed your address? E-mail address? Got a new call sign? Please send your change of address to The Britt Fader Memorial QSL Bureau  
P.O. Box 8895  
Halifax, N.S. B3K 5M5

Is your address correct in Industry Canada's database? It is important that you inform Industry Canada of any change to your address.

**"Safety" 809 Area Code Scam**

This long distance phone scam causes consumers to inadvertently incur high charges on their phone bills. Consumers usually receive a message telling them to call a phone number with an 809, 284, 649, or 876 area code in order to collect a prize, find out information about a sick relative, etc. The caller assumes the number is a typical three-digit U.S. area code; however, the caller is actually connected to a phone number outside the United States, often in Canada or the Caribbean, and charged international call rates. Unfortunately, consumers don't find out that they have been charged higher international call rates until they receive their bill.

AT&T recommends the following tips to help avoid the 809 area code scam:

\* Return calls to familiar numbers only. As a general rule, return calls from numbers that contain familiar or recognizable area codes. You may call your directory assistance or long distance operator to check the area code location.

\* Carefully read your telephone bill. Make sure that you only receive charges from your provider of choice. Ensure you thoroughly understand charges listed on your phone bill, have chosen to do business with all of the listed providers billing for those charges and have authorized additional fees invoiced. If your local service provider has changed, you will receive a final bill from the former provider and a notice of service disconnection.

Additional information can be found on Snopes.



**PRESIDENT'S MESSAGE for October 2012**

By the time the Reflector has been distributed the Greenwood Flea Market will have taken place. HARC is planning to take part with the QSL Bureau as well as having tables with Club articles for sale.

The Executive has decided to re-publish the Regulation concerning the use of Mobile Radios in automobiles in this Reflector. The original article was published in the March 2008 edition.

The Basic course is underway, we have a varied age group taking part and it is good to see High School students as well as one Teacher in attendance this year.

The Nominating Committee is still working on a slate of Officers for 2013. There are still positions unfilled, please consider taking on Executive duties. Additional information is available from Tom Caithness VE1GTC.

There has been no response regarding the Proposal of setting up a Remote Operating Station system for the Club. In order for this project to advance we have to have a Project Manager to take on this task.

There is a possibility that we will require a Work Party to make the repairs to the Repeater Building at Cowie Hill prior to the Winter Season. Additional information will be forthcoming later this month.

Please do not forget our Annual General Meeting in November. The format of the meeting will be changed for this meeting, a brief Monthly Meeting will take place at 7:30, followed by the AGM at 8:30.

Fraser Mac Dougall, VE1WO

**ANTENNA WORK NEEDED**

The set up of the refurbished satellite station will be held up if we do not have someone to make a phasing harness for a pair of 1296 MHz antennas.

I do not really have the time to do this task but once someone has things ready I can check the SWR and other needed parameters of the system.

We need someone who can physically measure, cut and install N connectors on coaxial cable. The club will supply the cable and connectors.

Please contact Bill, VE1MR

Thank you - Bill, VE1MR

**1<sup>st</sup> Vice President's Report**

Nothing to report - Bill, VE1MR

**Second Vice-President's Report**

I am beginning the planning process for our HARC Christmas Party. Normally this event would be held on the third Wednesday in December which would be December 19 but some feel that we should hold it earlier, perhaps the week before on December 12. If you have an opinion on this, please e-mail me. Also, we held the Christmas dinner at Fan's Chinese in Dartmouth last year and everyone seemed satisfied with the place and the food. Again, if you have an opinion on this please e-mail me. If there is no objections to the normal time and place, I will make a reservation at Fan's for December 19 at 6:30 p.m. for 7:00 p.m. Because all restaurants are busy during December, I need to make our reservation relatively soon so I would appreciate receiving any comments before the end of October. Once we have decided on time and place, I will ask Carol Wood to send out an invitation to all members asking for RSVPs.

Betty, VE1BSW

**2013 Membership Incentive**

Jim Guilford, VE1JG, the winner of the major door prize at this year's Flea Market, has graciously donated the Duel Band Alinco Handheld radio back to the Club as he has no present use for it. He asked the Executive to decide what the most appropriate use of this radio would be.

The Executive has decided that we would use this gift as an incentive for Membership for 2013. Any person who takes out a new membership or renews their existing membership prior to the end of March 2013 will be eligible for the draw which will take place prior to the April Monthly Meeting. The winner will be announced at that time.

**Station Manager's Report**

We are looking into Upgrading the last two Computers in Club Station. We have been offered one CPU as a donation but will require the purchase of one additional unit. We also are looking into the purchase of two New 22 in LCD Monitors. One will be fitted on the new Administrative Computer and one will be used in the Radio Room with the Digital PSK System. A Notice of Motion for this purchase is printed in this Reflector.

Jim, VE1JIM

**Secretary's Report**

"Nothing to report."

Jeremy, VE1JHF

**Report of Director-at-Large**

Nothing to report

Doug, VE1LDL

**BAC Ledwedge Lookoff Rally Report**

26 August 2012 saw members of The Halifax Amateur Radio Club head to the woods in lovely sunny Tennycape. After a 19 year hiatus, Performance Car Rallying had returned to Nova Scotia and HARC members assisted with communications.

VE1CAW, VE1GTC, VE1PYE and VE1IGP all gathered at the Noel Legion bright and early.

VE9GFD joined us shortly thereafter. A quick situation update among the operators confirmed why Hams do so well at communications; we had each packed 3 times the required equipment for the task!

Technical failures would not impede us on this day.

We attended the organizers volunteer meeting at 0830hrs, and then began our short trek to the stages in the woods. Once we had our net setup and checked, we were good to go. The cars began to arrive right on schedule for first car on stage at 1019hrs.

After the first 3 stages of the day, we gathered at the central start/finish control. Quiznos sandwiches had sponsored the event, and a lovely mid day lunch was supplied. It was a warm one, with temperatures in the high 20's, even in the shade.

The afternoon saw the direction of stages reversed, giving a new challenge to competitors. Only one team had an issue and got stuck. They did however have the proper courtesy to do so right in front of one of our radio checkpoints! This was very exciting for the checkpoint, and made it much easier to track from net control. The car carried on and completed the days event.



George, VE1CAW sets up at the first radio checkpoint and spectator area.



Rally fans start to gather anticipating a good view

stages reversed, giving a new challenge to competitors. Only one team had an issue and got stuck. They did however have the proper courtesy to do so right in front of one of our radio checkpoints! This was very exciting for the checkpoint, and made it much easier to track from net control. The car carried on and completed the days event.

The Bluenose Autosport Club sends it's sincere thanks for the efforts of HARC on that sunny, warm Nova Scotia day. The event could not have run nearly as well without your assistance.  
Ian Pearce, VE1IGP

Dear America,  
You produced Miley Cyrus.  
Bieber is your punishment.  
Sincerely,  
Canada



Ian, VE1IGP; George, VE1CAW; Tom, VE1GTC; & Colleen, VE1PYE attend the volunteers meeting. (not shown, VE9GFD, George Doer)



The overall winners, Steve Quigley & Clarke Paynter take on Stage 1 of the day

**RADIO** Seems like cars have always had radios, but they didn't. Here's the true story:  
One evening, in 1929, two young men named William Lear and Elmer Wavering drove their girlfriends to a lookout point high above the Mississippi River town of Quincy, Illinois, to watch the sunset. It was a romantic night to be sure, but one of the women observed that it would be even nicer if they could listen to music in the car.

Lear and Wavering liked the idea. Both men had tinkered with radios (Lear had served as a radio operator in the U.S. Navy during World War I) and it wasn't long before they were taking apart a home radio and trying to get it to work in a car. But it wasn't as easy as it sounds: automobiles have ignition switches, generators, spark plugs, and other electrical equipment that generate noisy static interference, making it

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(Continued from page 4)

nearly impossible to listen to the radio when the engine was running.

#### SIGNING ON



One by one, Lear & Wavering identified and eliminated each source of electrical interference. When they finally got their radio to work, they took it to a radio convention in Chicago. There they met Paul Galvin, owner of Galvin Manufacturing Corporation. He made a product called a "battery eliminator" a device that allowed battery-powered radios to run on household AC current. But as more homes were wired for electricity, more radio manufacturers made AC-powered radios.

Galvin needed a new product to manufacture. When he met Lear and Wavering at the radio convention, he found it. He believed that mass-produced, affordable car radios had the potential to become a huge business.

Lear and Wavering set up shop in Galvin's factory, and when they perfected their first radio, they installed it in his Studebaker. Then Galvin went to a local banker to apply for a loan. Thinking it might sweeten the deal, he had his men install a radio in the banker's Packard.

Good idea, but it didn't work -- Half an hour after the installation, the banker's Packard caught on fire. (They didn't get the loan.)

Galvin didn't give up. He drove his Studebaker nearly 800 miles to Atlantic City to show off the radio at the 1930 Radio Manufacturers Association convention. Too broke to afford a booth, he parked the car outside the convention hall and cranked up the radio so that passing conventioners could hear it.

That idea worked -- He got enough orders to put the radio into production.

#### WHAT'S IN A NAME

That first production model was called the 5T71.

Galvin decided he needed to come up

with something a little catchier. In those days many companies in the phonograph and radio businesses used the suffix "ola" for their names - Radiola, Columbiola, and Victrola were three of the biggest. Galvin decided to do the same thing, and since his radio was intended for use in a motor vehicle, he decided to call it the Motorola.

But even with the name change, the radio still had problems: When Motorola went on sale in 1930, it cost about \$110 uninstalled, at a time when you could buy a brand-new car for \$650, and the country was sliding into the Great Depression. (By that measure, a radio for a new car would cost about \$3,000 today.) In 1930 it took two men several days to put in a carradio -- The dashboard had to be taken apart so that the receiver and a single speaker could be installed, and the ceiling had to be cut open to install the antenna.

These early radios ran on their own batteries, not on the car battery, so holes had to be cut into the floorboard to accommodate them. The installation manual had eight complete diagrams and 28 pages of instructions.

Selling complicated car radios that cost 20 percent of the price of a brand-new car wouldn't have been easy in the best of times, let alone during the Great Depression -- Galvin lost money in 1930 and struggled for a couple of years after that. But things picked up in 1933 when Ford began offering Motorola's pre-installed at the factory.

In 1934 they got another boost when Galvin struck a deal with B.F. Goodrich tire company to sell and install them in its chain of tire stores. By then the price of the radio, installation included, had dropped to \$55.

The Motorola car radio was off and running. (The name of the company would be officially changed from Galvin Manufacturing to

"Motorola" in 1947.) In the meantime, Galvin continued to develop new uses for car radios.

In 1936, the same year that it introduced push-button tuning, it also introduced the Motorola Police Cruiser, a standard car radio that was factory preset to a single frequency to pick up police broadcasts.

In 1940 he developed with the first handheld two-way radio (the Handie-Talkie) for the U. S. Army.



A lot of the communications technologies that we take for granted today were born in Motorola labs in the years following World War II.

In 1947 they came out with the first television to sell for under \$200.

In 1956 the company introduced the world's first pager;

in 1969 it supplied the radio and television equipment that was used to televise Neil Armstrong's first steps on the Moon.

In 1973 it invented the world's first handheld cellular phone.

Today Motorola is one of the largest cell phone manufacturer in the world -

And it all started with the car radio.



WHATEVER HAPPENED TO the two men who installed the first radio in Paul Galvin's car. Elmer Wavering stayed with Motorola. In the 1950's he helped change the automobile experience again when he developed the first automotive alternator, replacing inefficient and unreliable generators. The invention led to such luxuries as power windows, power seats, and, eventually, air-conditioning.

Lear also continued inventing. He holds more than 150 patents. Remember eight-track tape players? Lear invented that.

But what he's really famous for are his contributions to the field of avia-

(Continued on page 7)

**Halifax Amateur Radio Club  
Minutes of the General Monthly  
Meeting of**

**Wednesday, September 20, 2012**

Taking place at EMO offices in Dartmouth after a tour / presentation by Barry Manuel

Opened at 1930 by Fraser VE1FMD  
Regrets John, VE1CDD who is still on vacation

Silent keys: Douglas Cleough  
VE1TZ of Lawrencetown

Members in attendance: VE1-MR, NFD, TRI, LSR, AI, BMJ, QD, BSW, PJZ, LDL, JIM, IGP, GPY, CAW, JEH, HFJ, VBT, JMA, GFH, EGG, ESP, AJP, TRB, DDC, JHF, WO.

Motion to accept minutes of June 20, 2012 as published in the Reflector – Bill, MR corrected a missed seconder on one item (was VE1JEH)

Motion to accept: VE1NFD ...

Seconded VE1JIM ... passed

Treasurer's report – John VE1CDD was not available, so Fraser read last available report. Advised the club that one of the GIC's came due and will be reinvested.

Apologies from John as he is still on vacation, and he had advised he will forward an updated budget ASAP. John advised that we had several bills from June, mostly related to Field day, and that the cheques had been written. There were a couple of corrections to be made to the budget to correct dual entries, and it would be straightened away asap.

Motion to accept budget as read: Carol, VE1HAZ ...

Seconded: Barry, VE1TRI.

Motion passed

Call for any Executive reports that were not published in the reflector – none brought forth.

Committee reports:

EMO - Dave VE1AJP had nothing to report, but he had a reminder that it is hurricane season, and admonished that everyone should have backup batteries and be prepared for emergencies or call outs during this time.

SAR - Dave apologized for the disruption caused to field day by the re-

moval of the vehicles needed for searches and the details thereof and added his appreciation for the job the field day participants did in getting the vehicles ready on short notice to be moved.

He advised that it had been a busy summer for searched with lost people, and a large number of suicides. Fraser brought to light that we don't have a SOP to contact the site where the vehicles are and that we will have to come up with a plan for the future.

Membership – Carol reported Reflectors: 30 by post, 100 by email, 50 printed

Membership Dues: Paid for 2012: 108 Full, 18 Associate, 4 Life members

Old business:

Combination flea market (2013 /14)

As a result of the business meeting in June, the consensus was that HARC was basically in agreement to look at the procedure to combine the Maritime Flea Market for 2013/14

This came out of a discussion at the end of our flea market, with Moncton and Saint John clubs, that maybe we should have one large centralized flea market for the Maritimes - and have more luck drawing commercial vendors and other activities.

Fraser advised that he had been in touch by email with the clubs and identified a few concerns (location / how / where) but had some trouble getting a hold of St John club president...

Moncton club did respond, President Jean Paul Leblanc, with thanks and he was going to take it to their club in Sept.

He was in touch with St John club secretary Linda Friars and said they had discussed it and were going to continue to do so.

They would be contacting other clubs

Fraser suggested that HARC should not sponsor the first flea market but some central location and that the

chair of the committee should be from that location committee should be made up of all of the clubs

More discussion to follow at a later date when a committee is set up, and at this point it is in the planning stage.

Scott, QD wondered about how the profits should be shared and Fraser answered that would have to be discussed by the committee

Some other points were raised re logistics and it was referred to committee.

Scott VE1QD also suggested that it should be a bigger event than just a flea market with other events tied in not just amateurs but spouses as well and this was unanimously agreed.

There was some general discussion amongst the membership about taking pointers from other larger flea markets in the States and elsewhere about how they do things and apply them to our situation.

New Business:

1<sup>st</sup> item:

Approval for the repair costs for the repairs to the Cowie hill repeater building:

Bill, VE1MR, gave the membership an overview of what structural repairs were required to bring the building up to snuff due to some leaks, rot, and an ant colony intrusion...

Bill made a motion to spend a sum not to exceed \$500 to effect repairs on the building.

There were some questions to Bill about it, and Bill advised that they were going to approach HRM about sharing some of the costs for the repairs, or that HRM ``may`` foot the bill for the repairs but that we can't count on it. But basically the repairs should be done before the snow flies  
Motion by Bill VE1MR – Seconded by Jim VE1JIM

No further questions ... Motion passed.

*(Continued on page 7)*

*No one has more driving ambition than the boy who wants to buy a car.*

HARC Meeting Minutes (Continued from page 6)

2<sup>nd</sup> Item:

Introduction of the idea of having a remote HF station at the club for members to use from their home QTH's with a brief overview of the logistics involved to bring it to fruition.

The idea was received favourably by several members and the consensus was that the idea should be pursued further.

A notice will be put in the next reflector regarding this item, looking for someone to spearhead the project.

3<sup>rd</sup> item:

Nominating committee chairman: Tom Caithness has agreed to be the nomination committee chairman for the 2013 executive.

Tom advised that there have been several persons that have agreed to stand for the 2013 executive:

For the President Scott Wood, VE1QD

For the First Vice Pres.: Bill, VE1MR

For the Second Vice Pres.: open at this time

For the Secretary: Jeremy, VE1JHF, is remaining

For the Treasurer: still open at the moment, but Tom was unsure whether John would re-offer

For the Member at Large: Doug, VE1LDL, will re-offer.

Station manager: Jim, VE1JIM will re-offer

If anyone else is interested in running, Tom asked that they get in touch with either himself or Fraser to discuss it.

A call for any other new business was put forth.

Terry, VE1TRB brought up the subject of the broken winch cable on the HARC trailer that happened at the Field Day, that almost resulted in a personal injury accident, and queried whether anything had been followed up with regards to his report on the incident.

Fraser and Bill advised that they had some discussion on the matter, and

Bill advised that he had done some work to investigate the matter, but that nothing had been resolved yet as it needed a replacement cable. Terry stressed his feelings that the mast should be inspected by a qualified person because it is a safety issue, and it was his job as the club safety officer to see that this was followed up. He felt there were some changes that should be made to the positioning of some of the hardware on the winch and mast in order for it to be safer. There was some discussion between Bill, Terry, Fraser and some other members as to who should be consulted regarding this matter and exactly what needs to be done.

It was suggested that the manufacturer of the mast be contacted to see if a replacement cable could be obtained along with instructions on how to replace it, and it was agreed that this will be done.

No other new business was put forward.

50/50 Draw won by Jeremy VE1JHF

Door prize, \$20 Sobeys Gift certificate won by VE1LSR

Meeting was declared adjourned at 2120 by Fraser VE1FMD

Respectfully submitted  
Jeremy Fowler, VE1JHF  
Club Secretary



*Radio (Continued from page 5)*

tion. He invented radio direction finders for planes, aided in the invention of the autopilot, designed the first fully automatic aircraft landing system, and in 1963 introduced his most famous invention of all, the Lear Jet, the world's first mass-produced, affordable business jet. (Not bad for a guy who dropped out of school after the 8th grade.)

And that's how some of the many things that we take for granted actually came into being!

Contributed by Win, VE1WIN



Mall parking lot, Truro, Sept.2012 - Does this situation come under the heading of Safety, Emergency Unpreparedness, or "If We're Lucky It Won't Happen Again" or other vain hope? September's rain left Truro's flood plain under water - again.

Exaggerations. I Owe My Mother ....

1. My mother taught me TO APPRECIATE A JOB WELL DONE .

"If you're going to kill each other, do it outside.. I just finished cleaning."

2. My mother taught me RELIGION.

"You better pray that will come out of the carpet."

3. My mother taught me about TIME TRAVEL.

"If you don't straighten up, I'm going to knock you into the middle of next week!"

4. My mother taught me LOGIC. "Because I said so, that's why."

5. My mother taught me MORE LOGIC .

"If you fall out of that swing and break your neck, you're not going to the store with me."

6. My mother taught me FORESIGHT.

"Make sure you wear clean underwear, in case you're in an accident."

7. My mother taught me IRONY. "Keep crying, and I'll give you something to cry about."

Photos this issue thanks to:  
Ian, VE1IGP (Pg.4)  
George, VE1CAW (Pg.4)



**From the Mail Bag**

Greetings all,

Now that we have an amateur radio station and operator (Bob Robichaud VE1MBR) at the Canadian Hurricane Centre in Dartmouth it was only time before CANWARN, Canadian Weather Amateur Radio Network would be set up here in Nova Scotia. Over the past couple of years Bob has been accepting members to become CANWARN Spotters and Net Controllers. With all the modern technology, Environment Canada still needs amateurs who can report what they see and hear. We have been active a few times for hurricanes and winter storms that have passed over Nova Scotia. We are always looking for new members and more Net Controllers for different areas of the province.. If you have a weather station or even if you don't, you can become a member by contacting Bob at

Bob.robichaud@ec.gc.ca

Emails are sent out to all members when storms are approaching

and if asked by Environment Canada, a CANWARN net will be started up. EC will inform the members of what information they would like collected. Most of the modes we use are the MAVCOM system, IRLP Reflector 9014 and Echolink. Net control is usually on the VE1BHS Repeater 145.350 which also has IRLP and Echolink (only because there are no other Net Controllers available around the province). If an operator is available, HF is on 3.770 with 3.675 as backup. Echolink will soon be set up at the CHC and members will be able to send reports there.

Another net that has been on for many years now is the VoIP Hurricane Net <http://www.voipwx.net> which is on each Saturday night 9pm Atlantic time during the Atlantic Hurricane season, and once a month during the winter months. This net is for IRLP and Echolink. This net works very closely with the National Hurricane Centre in Florida. I had the opportunity lately of becoming a NCO for the net and

actually work the net when Leslie was on her way to our area. If the NHC needed a net set up, they have many operators available to give reports throughout the Caribbean and US. With storms more often now coming to Nova Scotia, it is a good fit for Canada to get in on this with CANWARN. Rob Macedo KD1CY Operations Manager with the VOIP Net has been working closely with Bob VE1MBR to have information shared between the National Hurricane Centre and the Canadian Hurricane Centre.

Any amateurs interested in weather (and I know there are many) and would like to become a member of CANWARN, more information can be found on the Maritime Amateur website at [www.maritimeamateur.ca](http://www.maritimeamateur.ca) Once on the homepage, click on CANWARN in the gray bar near the top of the page.

CANWARN needs you, the spotter, to make this system work.

Thanks for reading,  
James (Jim) Langille VE1JBL

Phone: 902-667-1485

E-mail: [ve1jbl@eastlink.ca](mailto:ve1jbl@eastlink.ca)



Hello guys.....just wanted to say hello and wish you well. We're doing fine on this end.

Busy with our growing business. We are launching a world-wide opportunity for some young person to be setup with a complete station.

Feel free to let others know and/or place link on any websites that would be convenient for young hams to become aware of this, if you so desire.

The link to the Application Form is on our HOME PAGE (at the top)... to be activated very soon.

[www.AmateurRadioSupplies.com](http://www.AmateurRadioSupplies.com)

This AD will be placed in the next issue of the DX Magazine and other places.

73, Randy NOTG



## AMATEUR RADIO SUPPLIES

### Young HAM Give-Away - January 2013

To encourage youth in Dxing and Contesting, Amateur Radio Supplies (ARS) will provide a COMPLETE STATION to a deserving young ham, under AGE 21.

HF 100 Watt Transceiver and 30 Amp Power Supply,  
Antenna, Heil Pro Headset, Vibroplex Paddles, LDG Tuner, Signal Link

**Applicants Up To Age 21 Can Submit Their Names/Callsign and Answer a Few Basic Questions Online.**

*We Will Ship Anywhere In The World To The Winner!  
Applicants Submittal Form LINK Located At:*

[www.AmateurRadioSupplies.Com](http://www.AmateurRadioSupplies.Com)

**All Submittals Must Be Received By 20 December 2012**

**Nominations Are Also Accepted Via Email:**

**[randy@amateurradiosupplies.com](mailto:randy@amateurradiosupplies.com)**

**Provided by the ARS Owner/Management Team: Jeff - N1SNB; Randy - NOTG**

*The early bird might get the worm, but the second mouse gets the cheese.*



Some hams are unsure of Nova Scotia's law regarding use of amateur radio equipment while operating a motor vehicle. On 31 January 2007, on behalf of the HARC, Murray, VE1MMD, HARC's Government Liaison Officer, sent the following letter.

The Honourable Murray K. Scott  
Minister of Transportation and Infrastructure Renewal  
PO Box 186, Halifax, Nova Scotia, B3J 2N2

Dear Minister Scott:

I am writing to you on behalf of the members of the Halifax Amateur Radio Club (HARC) specifically, and Nova Scotia Amateur Radio operators (hams) in general.

Recently the House passed Bill #7 that contained amendments to the Motor Vehicle Act, specifically the addition of Section 100D. We note that Section 100D (2) contains the following "This Section does not apply to a person who uses a hand-held cellular telephone or *other communications device* to report an immediate emergency situation."

As you are possibly aware, amateur radio operators provide communication services to a number of organizations and events, both emergency and public service. Our Club was active in the Swiss Air disaster and the 911 event providing emergency communication services, as well as communications to such events as the MS Walk-A-Thon, the MS Bike-A-Thon and numerous other events on a regular basis.

HARC is the back up communication source for the Emergency Operations Centre, HRM EMO. I am certain that other hams and their clubs also provide the same level of service and commitment to emergency providers within their communities. It is necessary that our members have the ability to communicate, not only in "immediate emergency situations" but also at various other times. It is of utmost necessity that our members have the ability to communicate whether from their homes, their club stations or from their vehicles. It is necessary that members be able to hone their skills to be able to provide service when called upon – whether it is in an emergency situation or in a public service situation.

We note the Section refers to "*other communication device*" which could possibly be interpreted by some to include amateur radios.

Is it the intent, now or in the future, to restrict the use of amateur radio equipment by competent operators while in their vehicles?

Thank you, G. Murray Mac Donald  
Timberlea, Nova Scotia, B3T 1K1  
Government Liaison Officer - HARC

*Once you've seen one shopping centre, you've seen a mall.*

On March 4, 2008 Murray received this letter in response

Mr. G. Murray MacDonald  
Halifax Amateur Radio Club

*Previously published in the  
March, 2008 Reflector*

Dear Mr. MacDonald:

The Honourable Murray Scott, Minister Transportation and Infrastructure Renewal, asked that I reply to your letter of January 31, 2008, regarding Bill 7 and the use of hand-held cell phones and other communications devices in reporting of an emergency.

The ban will apply only to the use of hand-held cell phone or engaging in text messaging on any communications device while operating a motor vehicle on a highway. It does not address the use of two-way radios in vehicles nor their use in reporting an emergency situation.

At present there is no intention to restrict competent operators from using two-way radios for legitimate purposes. On a related issue, driver distraction is one of the leading contributors to motor vehicle collisions and injuries, and with its emergence as a significant road safety issue, driver distraction has become the subject of national and international attention. Any activity that takes the drivers attention away from the task of driving; the use of CD players, tuning radios, etc., is a source of distraction. The Province will be reviewing this issue in more detail to develop a strategy to broadly address driver distraction and road safety.

Sincerely, original signed by Kent Speiran, P. Eng.  
Manager, Road Safety

### NASA's Global Hawk Hurricane Mission Kicks Off

Sept.7, 2012

PASADENA, Calif. - NASA has begun its latest hurricane science field campaign by flying an unmanned Global Hawk aircraft over Hurricane Leslie in the Atlantic Ocean during a day-long flight that began in California and ended in Virginia. With the Hurricane and Severe Storm Sentinel (HS3) mission, NASA for the first time will be flying Global Hawks from the U.S. East Coast.

The Global Hawk took off from NASA's Dryden Flight Research Center at Edwards Air Force Base, Calif., Thursday and landed at the agency's Wallops Flight Facility on Wallops Island, Va., today at 8:37 a.m. PDT (11:37 a.m. EDT) after spending 10 hours collecting data on Hurricane Leslie. The month-long HS3 mission will help researchers and forecasters uncover information about how hurricanes and tropical storms form and intensify.

NASA will fly two Global Hawks from Wallops during the HS3 mission. The planes, which can stay in the air for as long as 28 hours and fly over hurricanes at altitudes greater than 60,000 feet (18,288 meters), will be operated by pilots

*(Continued on page 10)*



in ground control stations at Wallops and Dryden Flight Research Center at Edwards Air Force Base, Calif.

The mission targets the processes that underlie hurricane formation and intensity change. The aircraft help scientists decipher the relative roles of the large-scale environment and internal storm processes that shape these systems. Studying hurricanes is a challenge for a field campaign like HS3 because of the small sample of storms available for study and the great variety of scenarios under which they form and evolve. HS3 flights will continue into early October of this year and be repeated from Wallops during the 2013 and 2014 hurricane seasons.

The first Global Hawk arrived Sept. 7 at Wallops carrying a payload of three instruments that will sample the environment around hurricanes. A second Global Hawk, scheduled to arrive in two weeks, will look inside hurricanes and developing storms with a different set of instruments. The pair will measure winds, temperature, water vapor, precipitation and aerosols from the surface to the lower stratosphere.

"The primary objective of the environmental Global Hawk is to describe the interaction of tropical disturbances and cyclones with the hot, dry and dusty air that moves westward off the Saharan desert and appears to affect the ability of storms to form and intensify," said Scott Braun, HS3 mission principal investigator and research meteorologist at NASA's Goddard Space Flight Center in Greenbelt, Md.

This Global Hawk will carry a laser system called the Cloud Physics Lidar (CPL), the Scanning High-resolution Interferometer Sounder (S-HIS), and the Advanced Vertical Atmospheric Profiling System (AVAPS).

The CPL will measure cloud structure and aerosols such as dust, sea

salt and smoke particles. The S-HIS can remotely sense the temperature and water vapor vertical profile along with the sea surface temperature and cloud properties. The AVAPS dropsonde system will eject small sensors tied to parachutes that drift down through the storm, measuring winds, temperature and humidity.

"Instruments on the 'over-storm' Global Hawk will examine the role of deep thunderstorm systems in hurricane intensity change, particularly to detect changes in low-level wind fields in the vicinity of these thunderstorms," said Braun.

These instruments will measure eyewall and rainband winds and precipitation using a Doppler radar and other microwave sensors called the High-altitude Imaging Wind and Rain Airborne Profiler (HIWRAP); the High-Altitude MMIC Sounding Radiometer (HAMSR), developed by NASA's Jet Propulsion Laboratory, Pasadena, Calif.; and the Hurricane Imaging Radiometer (HIRAD).

HIWRAP measures cloud structure and winds, providing a three-dimensional view of these conditions. HAMSR uses microwave wavelengths to measure temperature, water vapor and precipitation from the top of the storm to the surface. HIRAD measures surface wind speeds and rain rates.

"HAMSR was the first complete scientific instrument to come out of NASA's Instrument Incubator Program," said Bjorn Lambrigtsen, HAMSR principal investigator at JPL. "An advanced version of instruments currently flying on satellites such as NASA's Suomi NPP, HAMSR provides a much more detailed view of the atmospheric conditions in a hurricane than is possible from satellites. HAMSR is one of a number of airborne instruments developed by JPL that are being

used to carry out research in a variety of areas."

The HS3 mission is supported by several NASA centers, including Wallops; Goddard; Dryden; Ames Research Center, Moffett Field, Calif.; Marshall Space Flight Center, Huntsville, Ala.; and JPL. HS3 also has collaborations with partners from government agencies and academia.

HS3 is an Earth Venture mission funded by NASA's Science Mission Directorate in Washington. Earth Venture missions are managed by NASA's Earth System Science Pathfinder Program at the agency's Langley Research Center in Hampton, Va. The HS3 mission is managed by the Earth Science Project Office at NASA's Ames Research Center.

For more about the HS3 mission, visit: <http://www.nasa.gov/HS3> . For more on HAMSR, visit: <http://microwavescience.jpl.nasa.gov/instruments/hamsr/> . For more on NASA's Airborne Science Program, visit:

<http://airbornescience.nasa.gov> .

The California Institute of Technology in Pasadena manages JPL for NASA

**Safety Item** – In case you missed it the first time around... For information about RFID piracy risk to your Credit Cards, Passport, Debit Cards, etc. watch the video at

<http://youtube.googleapis.com/v/ILAFhTjsQHw%26sns=em>

*"The budget should be balanced, the Treasury should be refilled, public debt should be reduced, the arrogance of officialdom should be tempered and controlled, and the assistance to foreign lands should be curtailed lest Rome become bankrupt.*

*People must again learn to work instead of living on public assistance."*

- Cicero , 55 BC

*So, evidently we've learned nothing in the past 2,067 years.*

