



The Halifax Amateur Radio Club

REFLECTOR

PO BOX 8895
HALIFAX NS
B3K 5M5

April 2016, Volume 77 Number 4
club web site is www.halifax-arc.org



April Showers Should NOT Include Snow flakes



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RAC Section Manager - Craig Seaboyer, VE1DSS	cseaboye@stfx.ca
RAC Assistant Director for HRM Scott Wood, VE1QD, 823-2761	ve1qd@rac.ca

Take-15 Net Controllers

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



April 17	Win	VE1WIN
April 24	Gary	VA1GGM
May 1	Doug	VE1LDL
May 8	Bruce	VE1MLW
May 15	Win	VE1WIN
May 22	Gary	VA1GGM

Executive Vacancy

Second Vice-President Erik Hein, VE1JEH, has resigned from the HARC executive for health reasons. (get well soon Erik!!). There will be an election to fill the position of Second Vice-President at the HARC April General Meeting

*A lot of money is tainted.
It taint yours and it taint mine.*

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

6:30pm - Social with refreshments.

7:30-8:30pm

Presentation: Geocaching

Speaker: Carolyn Sparling,
VE1FRG

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

Guests are welcome

Puzzler - Do you know?

What medical advancements do scientists hope to achieve by studying the DNA of the Western Painted Turtle?



Answer to Puzzler is on page 10

**Deadline for submissions to
the May Reflector is
Saturday May 9, 2016**

GENERAL INFORMATION



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

CLUB REPEATERS:

VE1PSR - 147.270 MHz + TX=82.5
VE1PSR/UHF - 444.350 MHz +
VE1PSR/6M - 53.550 MHz -
access tone 151.4 Hz
VE1HNS - 146.940 MHz - TX=82.5

PACKET: VE1NSD 145.050 MHz
LAN NODE

Event for Your Calendar

On Saturday 30 April, Amherst, the WestCumb Amateur Radio Club has organized a day of seminars which they call a "Symposium for Maritime Amateur Radio Techs."

June 11 - DownEast FleaMarket
Location: St. Andrews Center gym.
Contact Tom, VE1, to arrange to help with setup, take down, manning the door for admissions, etc.

June 25&26 - Field Day 2016
Contact this year's coordinator, Wayne, VE1WPH, to schedule your participation.

July 24th, 2016 is the date for the Ledwidge Lookoff Rally and they need and would appreciate our communications help.
Contact-Ian, VE1IGP, to volunteer.

This fall's Basic Amateur Course will start on September 22 at the club room.
Contact person is Tom, VE1GTC.
He can be reached at
veltom@rac.ca or
tom.caithness@ns.sympatico.ca.

Message handling practice nets

On VE1PSR 147.270 +
Sunday at 1930 hrs.

Anyone wishing to become involved with the emergency communication message handling please contact

Tom Caithness for voice practice.
Tom.caithness@ns.sympatico.ca

or Dave Musgrave for digital
david.musgrave@ns.sympatico.ca

STUPIDITY AWARD WINNER

The Ann Arbor News crime column reported that a man walked into a Burger King in Ypsilanti, Michigan at 5 A.M., flashed a gun, and demanded cash. The clerk turned him down because he said he couldn't open the cash register without a food order. When the man ordered onion rings, the clerk said they weren't available for breakfast. The man, frustrated, walked away.

The West Cumberland ARC is sponsoring its first SMART event – **Symposium for Maritime Amateur Radio Techs** – on Saturday, 30 April 2016 in Amherst. The full details appear in their announcement elsewhere on this page. The event involves hams from all the Maritime Provinces both as participants and presenters. Its purpose is... "to provide insight into the technical and procedural aspects of amateur radio operation." Most of you will remember HARC's eight year effort to provide a forum for DXers and contesters in this region, the Maritime DX Forum (MDF). As one who helped organize and promote that event, I particularly welcome this initiative by the WestCumbARC to convene a gathering of the region's hams on such a broad range of topics.. The daylong event will feature a number of well-known presenters from the region, including Jeff Briggs, VY2ZM, a world renowned low band DXer; and Dave Goodwin, VE9CB, a former RAC President whose globetrotting ham radio adventures

took him to China and other Asian lands. However, they are but two of the dozen or so maritime hams who will make presentations on a very diverse set of technical and operational topics, and provide instructional demos of various modes of operating. Follow the URL to the Maritime Amateur website in order to see the full program schedule

<http://www.maritimeamateur.ca>

and click on SMART).

It is my hope that many HARC Club members will support this excellent program by attending. For those who may need a ride to Amherst, or wish to share transportation, we can try to make convenient arrangements at the April 20th Club meeting. This will be a wonderful opportunity to exchange ideas and get to know other Maritime hams. Let's meet in Amherst on Saturday, 30 April and get some SMARTS!

K. Scott Wood, VE1QD

Symposium for Maritime Amateur Radio Techs

"To provide insight into the technical and Procedural aspect of Amateur Radio Operation"

When: April 30, 2016

Location: ED Fullerton Building,
Amherst NS

Time: 0900 – 1700

Cost: \$5.00 (includes lunch)

FEATURES

16 Presentations (in 2 rooms) on topics such as

- HF Operation, Contesting, DXing, Antennas, Digital...

- VHF – UHF Digital, Long distance, Equipment...

- RaspberryPi, SDRs, APRS ...

- DEMOs HF, VHF, UHF, DMR, DStar

Lunch provided between 1130 – 1330

50-50 tickets will be sold on site

General Public Welcome

For more information Go to:

<http://www.maritimeamateur.ca>
and click on SMART



For health reasons, Erik, VE1JEH, has decided to leave the executive for now and concentrate his efforts on getting well.

Our thoughts and prayers are with you, Erik and with your wife.

National Parks on the Air - USA

Throughout 2016, Amateur Radio will be helping the National Park Service celebrate their 100th anniversary. Hams from across the USA will activate NPS units, promote the National Park Service and showcase Amateur Radio to the public.

PRESIDENT'S MESSAGE for April, 2016

Good morning all amateurs, this is VA1CC listening for DX- mainly VK0EK and FT4JA; however, I have not heard them yet and time is running out to get them. Even as I listen for them, I'm thinking about much has happened in our club during the past month.

March break at the Museum of the Atlantic was a fantastic event where we had a team of 4 present each day over the 7 days we were there. Team members of the morning shift were: Win, VE1WIN; Jim Powers, VE1CU; Byron Mullett, VE1NFD; and myself, VA1CC. The afternoon shift saw members of the team work from 12:30 to 4pm: these members were: Doug, VE1LDL; Jeremy, VE1JHF; Amanda and Jane, and Bill, VA1ALW I hope I have not missed anyone.

Dick, VE1AI, has taken on the leadership of the Museum project as Erik VE1JEH, has stepped down due to medical reasons. Bryon Mullett has offered to help Dick with this project and I have confidence in this dynamic team to continue the success of the museum project:

Note: March break at the Museum of the Atlantic saw 750 participants send their name in Morse code as an active display. We had a lot of fun with the kids and there parents and had the opportunity to meet some very interesting people..

We were invited to participate in the April 02/16 family day mini sci. fi. exhibition at the Museum. Once again we assembled a team of 4 to take this on. Members included Win, Jim Powers and Byron Mullett. This time in just 4 short hours we had 50 participants; we were so busy that the time passed very quickly. I handed out many brochures for our club and there were many who asked about our course and location.

Well, both of our upcoming events are in good hands and making EXCELLENT progress. The first is, of course, the Flea Market on June 11/16 under the leadership of Tom Guam, VE1BMJ. I know he is trying to implement some new ideas around the flea market concept so stay tuned for news releases.

Tom is also taking table reservations now and it is a good time to clean out long idle items that new hams might be able to use. It's funny how radio is a progression through equipment and techniques.

Our second major event IS June 25 / 26, our famous participation in the ARRL Field Day event. This event has placed us in Canadian Amateur radio history by earning the many Canadian first place finishes in our category coveted by so many clubs including Ontario. The leadership for this event is under the close watch of Wayne, VE1WPH. If there is any thing you can do to help make this event another success please contact Wayne ASAP .. we need a set-up team : operations teams in CW- headed by Dick-: Phone captain headed by (vacant) and the GOTA tent. Jane and Amanda have the food detail in hand and then of course there is the take down team... so there is something for everyone to help out with and many hands make for light work.

Other events coming up include the MS Walk-athon: MS Bike-athon and a car rally; also there is Museum Ships on the air weekend. So, we'll have no difficulty keeping busy for the first part of the summer. Details still have to be established for the visiting cruise ships schedule. I will continue to update you on all of these events as news breaks.

Finally, a word of "CAUTION" ..TO THOSE WHO BUY AND SELL ON LINE... eg. qrz.com, ...KWARC, etc. etc.. One of our members' call sign was pirated and linked to a fake e-mail address. An American buyer thought one of our members was scamming him for \$150.00 for a piece of gear he never received and supposedly sold after he had received the money and threats were made about informing the local police and RAC. We are all vulnerable to this type of scam so every one take extreme precautions when buying or selling on line as reputations can be damaged for ever.

Well, that's all of the exciting news for now. Wishing you all good DX and good health...73'S

Brian Allen, VA1CC, President - H.A.R.C.

Congratulations to Jorde Boutilier who passed his Basic Amateur Radio exam with honours on April 4. He has applied for call sign VA1CDN. Examiner - Bill Elliott, VE1MR

Check out the RAC blog at:
<http://racblog.wordpress.com/transforming-radio-amateurs-of-canada-introduction/>

I asked God for a bike, but I know God doesn't work that way. So I stole a bike and asked for forgiveness.

Over the 7 days of March Break more than 750 people, mostly kids but also the occasional parent, visited our radio demonstration set-up at the Maritime Museum of the Atlantic and earned their "introduction-to-Morse-Code" certificate by learning to send their own name on a straight key.

Hams staffed the operation in shifts

Left to right The morning shift:

Byron, VE1NFD Jim, VE1CU

Win, VE1WIN; Brian, VA1CC.

Fascinating Error in Judgement:

"The Bomb will never go off, I speak as an expert in explosives."

- Admiral William Leahy,
US Atomic Bomb Project



Announcing the Eureka Amateur Radio Club

Pierre (VE3KTB), Alex (VE1RUS) and John (VE3CXL) would like to announce the establishment of the Eureka Amateur Radio Club (EARC) – probably the most northerly located amateur radio club in the world!

VY0ERC took to the air with VE1RUS at the controls on 26 January 2016. The first QSO was on 40m between Eureka and Sable Island (CY0/VA1AXC, op. Aaron).

The EARC is located in the environs of the Eureka Weather Station which is itself located at 79 degrees 59 minutes N, 85 degrees 56 minutes W on Ellesmere Island (IOTA NA-008). VY0ERC is currently operating out of the Polar Environment Atmospheric Research Laboratory (PEARL) Ridge Laboratory (RidgeLab) managed by the Canadian Network for the Detection of Atmospheric Change (CANDAC). The RidgeLab is set on top of the hill at 600 m.a.s.l. and approximately 11km as the crow flies from the weather station. The coordinates are 80 degrees 3 minutes N and 86 degrees 25 minutes W. The separation is significant as Eureka is

in grid square EQ79 and the RidgeLab is in grid square ER60, and as the RidgeLab is above 80 degrees N, it is in ITU zone 75 rather than ITU zone 4. Both are located in CQ zone 2.

Currently the VY0ERC station consists of a TS-480HX, an Astron RS-50 power supply and an MFJ-941E tuner. There is one more or less permanent antenna, a Cushcraft R5

10-20m vertical located on the roof deck of the RidgeLab. Other antennas are added as needed and may include a homebrew 20m Moxon rectangle, wire dipoles hung as inverted-vees for 20 and 40m, slopers, and a horizontal loop that approaches a full wavelength on 80m. Keeping antennas in the air is one of our greatest challenges. The weather is obviously a challenge,



The Ridge Lab of Polar Environment Atmospheric Research Laboratory - the home of the Eureka Amateur Radio Club located in at 80N, 86W in Eureka, Ellesmere Island, Nunavut.
Photo by Pierre Fogal (VE3KTB)

The Eureka Amateur Radio Club*(Continued from page 4)*

with temperatures ranging from below -50C upwards and wind speeds that can reach 100 kts and persist at high levels for days. Additionally, the RidgeLab is a state-of-the-art atmospheric observatory and amateur radio operations may not in any way impinge on the scientific program. This limits our antenna locations and usually requires the visiting operators to remove them at the end of the stay.

We expect that VY0ERC will be on the air for multiple weeks 3-6 times per year as VE3KTB and VE1RUS visit PEARL in support of the atmospheric measurements program. Operation will be as the work schedule permits. We have very good local network connections and the ability to operate the TS-480 from Eureka where we eat and sleep. The operators of the club are avid contesters and you can expect that VY0ERC will be on the air for any major contests that occur while they are on site. For those looking to work us, 20m is often our best band. Bear in mind that the Sun is not above the horizon from 20 October to 20 February and this greatly affects propagation. Also we are located due east of the north magnetic pole, well inside the auroral oval. A useful resource that can be consulted to gauge propagation are the RBN reports for the VE8AT beacon located at the weather station. VE8AT is a part of the NCDXF/IARU International Beacon Project and is sponsored by the Northern Alberta Radio Club.

Other resource to observe current propagation conditions is the WSPR project. The club's radio is set as a WSPR beacon on 20m from time to time. Also in keeping with the research nature of PEARL, the EARC expects to be available for and active in, various areas of research pertaining to amateur radio as time and resources permit.

Given the remote location of Eureka, there is not a "resident" ham population. Eureka has a permanent complement of 8 people to which CANDAC adds anywhere from 1 to 12 people from time to time. Thus, we are opening membership in the EARC to all interested amateurs. There will not be any dues associated with becoming a member, although donations would be gratefully accepted, whether they are monetary or equipment. We will soon begin the formal process necessary in Canada to establish the club properly.

Alex and Pierre would like to acknowledge the support we receive from our friends at the Eureka weather station and our colleagues in CANDAC, specifically James Drummond of Dalhousie University. Without the forbearance of all of the above, it would be very difficult to operate from Eureka. John Gilbert (VE3CXL, ex. VE8OW) operated from Eureka from 1956-58 during which time he was an active DXer and contesting putting Zone 2 on the air.

73 and see you on the bands!

Pierre VE3KTB

Alex VE1RUS

John VE3CXL

Middle age is when you choose your cereal for the fiber, not the toy.

The Maritime Amateur

Ham Radio
for Maritimers by Maritimers
www.maritimeamateur.ca

While no course is currently scheduled, anyone wanting to take fall arrest training should contact Terry, VE1TRB, or a member of our executive to reserve a spot on the next course. offered.

**Safety**

It seems to me that I've done more damage to myself (all minor things) in the kitchen than in any other room in the house (including ham shack & workshop).. With that in mind, here are some tips to help prevent a kitchen accident or fire: -ed

1/ Keep sharp tools sharp. Cutting with a dull knife requires more force than cutting with a sharp one and that extra force makes loss of control (and a cut you) more likely

2/ Be aware of flammables. Don't put oven mitts or kitchen towels anywhere near the stove top. A spark could cause a tea towel to catch fire. Curtains, appliance cords and anything else that can melt or catch fire should be a safe distance from the stove.

3/ Dress appropriately. Loose fitting clothing can catch fire. When you're cooking — especially over propane burners — keep baggy shirts tucked in or tied back with a well-fitting apron. Avoid wearing long, flowing sleeves when you're at the stove, too. But don't work topless, especially when cooking with fats; they could spatter onto your bare skin.

4/ Don't leave the kitchen. If you have something cooking in the kitchen, stay in the room. If you absolutely have to step out of the kitchen while you're cooking, take the pots and pans off the heat or turn off the burner. Pots and pans left unattended are the most common causes of kitchen fires.

5/ Dispose of grease responsibly. That means not throwing hot grease in the garbage can — it can cause something in the trash can to ignite. Wait until the grease cools and then dispose of it.

In case the worst case scenario happens, be sure to have a fire extinguisher in the kitchen where it's in easy reach. Never, ever put water on a grease fire because it can make the fire spread.

The Halifax Amateur Radio Club
General Meeting Minutes
16 March, 2016

Meeting convened: 2020hrs

Silent Keys: VE1GK Glenn Wallis

Members present: CC, JHF, TRB, DDC, BMJ, DTR, QD, PHK, JMA, AJP, IGP, GGM, GTC, LDL, GFA, BMF, Amanda, Jayne, WPH, VA1CAW, PEG, CU, George, AYM, RAR, WC, Jorde (guest),

February Minutes Acceptance:
 Motion to accept by Dave, DDC
 Seconded by Terry, TRB
 Motion Carried

Treasurers report: (JG absent)
 Report presented by Brian (VA1CC)

Motion to accept: Don, DTR
 Seconded by Scott, QD
 Motion Carried

Wayne, WPH presented info on Field Day preparations and there was some discussion on the topic. (Field Day is 25/26 June)

Tom, BMJ, presented information on the upcoming Flea Market (11 June) and the preparations ongoing for same.

Tom plans on having some exhibits this year, such as an AMSAT display, a display on Software Defined Radios, and he hopes to have a DIY table.

Craig, JMA, gave a brief report on the Shearwater Hobby Show. (9/10 April)

Scott, QD, reported on a technical symposium that is being put on by Moncton ARC in April.

Eric is not present to give a report on the MMA (Maritime Museum of the Atlantic)

Brian gave a quick rundown on those folks who are manning the radio room at the MMA, as well as a quick update of the March

break activities.

Gary GGM gave a quick report on the municipal grants that the Club is trying to procure.

Bill, MR is absent.

Tom, GTC is absent.

Dave, AJP, gave a report on a recent search for a missing teenager. Also a humorous story on an evidence search after a shooting in Dartmouth.

Brian reported on a gentleman who recently wrote his exam and passed, after studying the question bank and answers by himself.

Brian also reported that he has been in contact with the company that produced the last 3 orders of embroidered shirts and obtained some decent prices for shirts, and there is a signup sheet the back table if you would like to place an order.

Brian reported that Laura, ZMB, has resigned her position as Secretary due to work commitments.

Anyone interested in the position please contact the Executive.

Jeremy, JHF, has agreed to fill in until the Executive can find someone to replace her.

Wayne, WPH, reported on the 1000th ARISS contact on 10 March.

Ian, IGP, reminded those present about the Ledwidge Lookoff Rally on 23/24 July, and if anyone was interested in helping out.

Door Prize: \$25 Gift Certificate won by Jim CU

50/50: \$21 won by Jorde

Motion to adjourn Ian, IGP
 Motion carried

Meeting Adjourned 2117 hrs.

Respectfully submitted

Jeremy Fowler,
 VE1JHF,
 Acting Secretary



Windows vs Ford

For all of us who feel only the deepest love and affection for the way computers have enhanced our lives, read on.

At a recent computer expo Bill Gates reportedly compared the computer industry with the auto industry and stated,

"If Ford had kept up with technology like the computer industry has, we would all be driving \$25 cars that got 1,000 miles to the gallon."

In response to Bill's comments, Ford issued a press release stating:

"If Ford had developed technology like Microsoft, we would all be driving cars with the following characteristics (and I just love this part):

1. For no reason whatsoever, your car would crash ... twice a day.

2.. Every time they repainted the lines in the road, you would have to buy a new car.

3... Occasionally your car would die on the freeway for no reason. You would have to pull to the side of the road, close all of the windows, shut off the car, restart it, and reopen the windows before you could continue. For some reason you would simply accept this.

4. Occasionally, executing a maneuver such as a left turn would cause your car to shut down and refuse to restart, in which case you would have to reinstall the engine.

5. Macintosh would make a car that was powered by the sun, was reliable, five times as fast and twice as easy to drive - but would run on only five percent of the roads.

6. The oil, water temperature, & alternator warning lights would all be replaced by a single "This Car Has Performed An Illegal Operation" warning light.

7. The airbag system would ask, "Are you sure?" before deploying.

8. Occasionally, for no reason whatsoever, your car would lock you out and refuse to let you in until you simultaneously lifted the door handle, turned the key and grabbed hold of the radio antenna.

9. Every time a new car was introduced car buyers would have to learn how to drive all over again because none of the

(Continued from page 6)

controls would operate in the same manner as the old car.

10. You'd have to press the "Start" button to turn the engine off.

PS - I'd like to add that when all else fails, you could call "customer service" in some foreign country and be instructed in some foreign language how to fix your car yourself!

"Cows Over the World DXpedition" Set to Get Under Way 04/06/2016

Tom Callas, KC0W, has all of his bovines in a row to begin his "Cows Over the World DXpedition" to several DXCC entities in the Pacific and Asia this month, several months earlier than initially announced. All call signs will include a "COW" suffix. American Samoa will be the starting point for his all-CW adventure. The Minnesota DXer will operate as KH8/KC0W beginning on or about April 12. At the outset of his stay on Tutuila Island (OC-045), Callas will be on a beach near Pago Pago on the east side of the island.

"Running down the center of American Samoa is an 800 meter (approximately 2600 feet) tall mountain, which should greatly attenuate my CW signal to Europe and Asia," he told The Daily DX. This location should favor North and South America, however.

After completing operations on the east side of the island, KC0W will move to the west side to accommodate European and Asian DXers. He has estimated that he will operate "for a month or two" from the east side of the island. "Europe and Asia, don't get frustrated if you can't hear me when I'm operating from the east side of the island. Your time will come," he said on his QRZ.com profile.

Callas has no set time frame to operate from each entity. "The determining factor will be: When the pileups die down, it's time to pack everything up and move

along," he said. Although his emphasis will be on 160, 80, & 40 meters, KC0W plans to be active on 160 through 6 meters, running 500 W to vertical antennas over salt water. He expects to participate in "all major CW contests."

His DX travels to the other islands are still on track. These include Samoa, Tokelau, Solomon Islands, Temotu Province, and Bangladesh. He said he's spent months researching the absolute best DXing sites at each location.

Callas stressed that he will only be operating CW. "No microphones have been brought along," he pointed out. He's financing the round-robin DXpedition out of his own pocket.

KC0W advised DXers trying to work him first to listen, and also to "spread out when operating split." He said he rarely works more than 2 or 3 stations in a row on the same exact frequency.

QSL direct only with an SASE and \$2 (KC0W does not use the QSL Bureau or Logbook of The Air). A tentative phase II "Cows Over Africa" DXpedition is on the drawing board.

In the past, Callas has operated from St Helena Island (ZD7X), Cambodia (XU7XXX), Haiti (HH5/KC0W), and Martinique (TO00). "Over 93,000 QSOs have gone into the logs from my 'One Man DXpeditions,'" he said on his QRZ profile. — Thanks to The Daily DX for some information

From the ARRL website,
April, 2016

Of the many events which our membership support each year **Field Day** is ranked very close to the top of the list. Over the many years that the Club has participated in Field Day we have traditionally done very well, both nationally and internationally. This success hasn't come easily. It's been the result of members who contribute in so many ways in terms of time and effort. From helping with the setup and teardown of antennas, towers & tents to the folks who make sure the operators are provided great meals (there's always something on the burner for a late night snack). From the operators & loggers who contribute 2 hours to those who are in it for the marathon session it's all about contributing in any way that you can.

As Chair of this years Field Day 2016 effort I'm very happy to say that even at this early stage the number of members who have stepped forward to accept positions and volunteer their time and effort has been outstanding. However there are a number of opening that you can help to fill. In the next few days a Field Day page will be added to the Club's website (www.halifax-arc.org). All things related to our FD efforts will be posted to that page. If you're participating as an operator in FD 2016 or may be only interested in contributing a few hours or might simply want to drop by and say hello during the weekend this page is where you'll get the information that you'll need.

In addition FD activities will be available in upcoming editions of the Reflector. We'll also be providing updates during the Take -15 Nets as well as at the regular monthly general meetings. You're also welcome to follow us on social media. In short we'll have lots for you to discover as we close in on Field Day 2016. You're invited to join the fun in any way that you feel comfortable with. My contact info is on the front page of this Reflector and will be displayed on our Field Day web page.

That's it for now. Until next time,
73 Wayne - VE1WPH

From the Mail Bag

So your car is connected to the Internet is it? ... Check this out.

Hackers Remotely Kill a Jeep on the Highway—With Me in It - YouTube

<https://www.youtube.com/watch?v=MK0SrxBC1xs>

Courtesy of Ken, VY2RU

I recorded the interview with KK6EK on Heard Island (via satellite phone) last night and have posted on my web site.

Got to:

<http://www.ve1lv.com/>

Hal, VE1LV

On Saturday April 23, 2016 The Eastern Shore Amateur Radio Club will be holding a meeting as well our annual meeting. The meeting will be at 10am. at the Search & Rescue Building at Head of Chezzetcook, where we always have it.

We will have a special guest with us at our meeting; Paul Deschambault is a retired Meteorologist after forty years of service.

Paul also is a CoCoRaHS Maritime's Coordinator.

Paul has been at my home on Ham Radio on 3735MHz. on the P.L. Net and will be back with us on a second visit on Friday April 22nd.

So bring along your questions and Paul will be only too happy to answer your questions and concerns.

Looking forward in seeing you all there on Saturday, April 22, 2016

73, Joe Bellefontaine, VE1EEE

Celebrated each **April 18, World Amateur Radio Day** marks the anniversary of the founding of the IARU in 1925 and provides an opportunity to present a positive image of Amateur Radio to the general public.

David, WA1OUI, sends a link to a video detailing the human implications of living in the National Radio Quiet Zone. "It's about the thousands of square miles around the National Radio Telescope in West Virginia [Including parts of Virginia and Maryland -- Ed.] that must be radio emission free, and what that does to the inhabitants: no cell, microwave, Wi-Fi, ham radio or anything!":

<https://www.youtube.com/watch?v=I35z9Borplw&feature=youtu.be>

Ken, VY2RU

Electronic Safety/Security

iPhone ATM PIN code hack -
HOW TO PREVENT

This is a clever way for bad guys to steal your ATM pin code using an iPhone without you noticing at all BUT there is a really simple way to prevent it from happening. To see how go to

<https://www.youtube.com/watch?v=8Vc-69M-UWk>

**Two of the greatest qualities
to have in life are:**



**PATIENCE
and WISDOM**

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

RF Touch lamps are RF-operated devices that often cause, or are susceptible to, EMI problems. They have a free running oscillator that is very broad and rich in harmonic energy. This oscillator is hooked up to a touch plate that changes the frequency of the oscillator when a hand is placed near the plate. Unfortunately, this plate also acts as an antenna, radiating some of the energy of the oscillator, or picking up nearby radio signals. When the former happens, it can interfere with other services. When the latter happens, the circuitry inside the lamp reacts the same way that it would when the plate is touched -- the lamp changes states from "off" to "on". Although cases of moderate interference can sometimes be cured by using a "brute-force" type AC-line filter and/or a common-mode choke, most cases will require internal modification to the lamp. For a number of different reasons (you may be blamed if anything EVER goes wrong with the lamp or house wiring) you do not want to perform this modification on equipment that is not your own. Remember -- house AC power is dangerous. These modifications must only be performed by qualified service personnel.

From the ARRL website, April, 2016

The Darwin Award honourable mention for 2013

Seems an Arkansas guy wanted some beer pretty badly.. He decided that he'd just throw a cinder block through a liquor store window, grab some booze, and run. So he lifted the cinder block and heaved it over his head at the window. The cinder block bounced back and hit the would-be thief on the head, knocking him unconscious. The liquor store window was made of Plexiglas. The whole event was caught on videotape.



Paul Deschambault our CoCoRaHS coordinator for the Maritimes spent some time March 19 with one of our newest volunteers, Joe Bellefontane in West Chezzetcook NS. Joe is a HAM Radio operator (VE1EEE) and hosted an information session with Paul on CoCoRaHS live on air with other HAMs in the region. It was well received as Paul explained his meteorology background, took questions about weather and provided information on this great citizen science initiative we call CoCoRaHS. Great job Paul and Joe! Paul will be back on air again in the near future with Joe for another session....we look forward to signing up more HAMs in the region as CoCoRaHS volunteers.

CoCoRaHS Canada

D-STAR satellite to launch from Kourou

The ESA Education Office Fly Your Satellite! (FYS) programme is designed to train the next generation of aerospace professionals.

Three chosen student teams have each developed 1U CubeSats carrying amateur radio payloads which are expected to launch on April 22, 2016 into a 453 by 644 km 98.2 degree inclination orbit

The satellites designed and built by the student teams, arrived in South America on Friday, March 25. Upon arrival, they were given a security escort from the airport to the Guiana Space Centre, near Kourou.

The student teams arrived on March 28.

The satellites themselves are CubeSats. This class of small satellites have helped revolutionise access to space. Made of standard components, as the name suggests they come in modular dimensions of just 10x10x10cm in size.

On March 30 the students removed

the so-called Remove Before Flight pins and successfully verified that the CubeSats were ready for launch. Afterwards, the lateral access ports of the P-POD were put back in place. The next time the students will have contact with their respective CubeSats will be through the communication link after the satellites are deployed into orbit.

The next activities consist in completing the application of a special thermal-optical tape on the outside of the P-POD, which will ensure the unpowered CubeSats are shielded from extreme thermal radiation during the launch phase. Finally, the planning for the next weeks will consist in integrating the P-POD with the rest of the launcher.

OUFTI-1 from the University of Liege, Belgium, will be the first satellite to carry an amateur radio D-STAR transponder. The article 'D-STAR digital amateur communications in space with OUFTI-1 CubeSat' by Jonathan Pisane ON7JPD, Amandine Denis ON4EYA and Jacques Verly

ON9CWD can be seen in the June 2013 edition 202 of the AMSAT-UK publication OSCAR News. <http://tinyurl.com/June-2013-OSCAR-News>

The CubeSat e-st@r-II from the Polytechnic of Turin, Italy, will demonstrate an attitude control system using measurements of the Earth's magnetic field; and AAUSAT4 from the University of Aalborg, Denmark, will operate an automated ocean vessel identification system.

ESA Press Release
http://www.esa.int/Education/CubeSats_-_Fly_Your_Satellite/Launch_campaign_started_CubeSats_arrived_at_Kourou_spaceport

IARU coordinated frequencies <http://www.amsat.org.uk/iaru/>

OUFTI-1 - 145.950 MHz FSK AX25 and D-STAR (uplink 435.045

MHz) - CW beacon 145.980 MHz e-st@r-II - 437.485 MHz CW and

1k2 AFSK

AAUSAT-4 - 437.425 MHz

According to the United Nations Food & Agriculture Organization, 8.3% of Canada's greenhouse gas emissions are farm-related; 32% of that comes from cows.

*Inscribed on a headstone in an old cemetery in Pennsylvania :
Here lies the body of Jonathan Blake,
Stepped on the gas instead of the brake.*

www.rac.ca
RAC's web site has URLs to swap shops all over the country

**Answer to Puzzler on page 1**

The Western Painted Turtle, the most abundant in North America, is a fresh water species that can freeze solid and return to life when thawed. It can also hold its breath for up to 4 days at room temperature without suffering oxygen deprivation and up to 4 months when hibernating according to Brad Shaffer of UCLA's Institute of the Environment & Sustainability.

Shaffer and his colleagues hope that solving the DNA puzzle may one day lead to innovations in treating hypothermia, frostbite, heart attacks or strokes. Western Painted Turtles can live for more than 40 years.

Source: a Canadian Press article by Dene Moore

Dallas Hubley

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DONATIONS FOR BRIT FADER SCHOLARSHIP TRUST

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

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

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

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

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

DONATION FORM - BRITT FADER SCHOLARSHIP TRUST

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

Amount of Gift: _____ Date of Gift: _____ .

Name of Donor: _____ .

Address of Donor: _____ .

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

Signature of Donor _____ .