The Halifax Amateur Radio Club



REFLECTOR



2050 Hammonds Plains Road Hammonds PlainsNS **B4B 1P3**

November 2020, Volume 81 Number 11

club web site is www.halifax-arc.org



Due to Covid-19 the HARC Christmas Party Will NOT Take Place

HARC Club Station phone number - 902-490-6421

President - Brian Allen, VA1CC 489-4656 basailor@eastlink.ca

First V.P. – Jason Ingraham, VE1PYE 292-9924 VE1PYE@bellaliant.net 2nd V.P. - VACANT

Secretary - Roger Stein, VA1RST 403-3738 burch.craft@gmail.com

Treasurer - Bill Simm, VA1ALW williamrham@live.ca Member-at-Large: -John Bignell johnmbignell@gmail.com

Station Manager: - Don Trotter, VE1DTR don_trotter@hotmail.com

Past President - Bill Elliott, VE1MR 865-8567 bowser.elliott@ns.sympatico.c

Director Emeritus - Bill Elliott, VE1MR 865-8567 bowser, elliott@ns.sympatico.ca

Committees/Offices/Prime Contacts

Government & Media Relations - Gary Murphy VA1GGM, 461-9416

garygmurphy@gmail.com

OSL Bureau Mgr - Murray MacDonald (VE1BB) twomacds@ns.sympatico.ca EMO Coordinator - David George, VE1AJP 466-8723 dgeorge@dal.ca EMO Trailer coordinator – David Musgrave, VE1EDA 435-4333 ve1eda@rac.ca Reflector editor - Lvnn Bowser, VE1ENT 865-8567 bowser.elliott@ns.sympatico.ca Reflector Hardcopy Dist. - Jeremy Fowler, VE1JHF 240-4302 ve1jhf@gmail.com Membership - Jim Calvesbert, VE1PPA jim.calvesbert@gmail.com Reflector electronic Dist.; Jim Calvesbert, VE1PPA jim.calvesbert@gmail.com Web site content Manager - Brandon Fowler, VE1BMF bmfowler95@gmail.com Basic ham course - Jason Ingraham, VE1PYE 292-9924 VE1PYE@bellaliant.net

2021 Flea Market Chair - Vacant 2021 Field Day Coordinator Vacant

Safety Officer - VACANT

VA1MMA Project Manager - Dick Grantham, VE1AI rgrantham@ns.sympatico.ca NSARA Director - Bill Elliott, VE1MR 865-8567 bowser.elliott@ns.sympatico.ca Honorary Legal Counsel - Paul Radford, VE1ARH

Non Club Contacts

RAC Atlantic Director - Dave Goodwin, VE9CB ve9cb@rac.ca

RAC Section Manager – Dave Hull, VE1HUL d.hull@ns.sympatico.ca

RAC Assistant Director for HRM Scott Wood, VE1QD, 823-2191 ve1qd@rac.ca

Take-15 Net Controllers

This will be the rotation. We still need more net controllers. If you want to join, let Bill Elliott, VE1MR, know.



Nov. 15 Gary VA1GGM Dec. 20 Bill VA1ALW Nov. 22 Bill VA1ALW Dec. 29 Cam VE1BIT Nov. 29 Cam VE1BIT Jan. 3 Peter VE1WIN Dec. 6 Peter VE1WIN Jan. 10 Gary VA1GGM Dec. 13 Gary VA1GGM Jan. 17 Bill VA1ALW

Deadline for submissions to the January 2021 Reflector is Saturday January 9, 2021

"Life is like riding a bicycle. To keep your balance, you must keep moving." Albert Einstein



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

The 2020 Annual General Meeting of the Halifax Amateur Radio Club will take place Wednesday, November 18, following our November General Meeting. The method (virtual) and time will be sent in an email. Check your e-mail for details as the date approaches. Also check the web site for any other updates. Currently there is no access to Station 50.

At this A.G.M. we will elect the H.A.R.C.'s executive officers for 2021. **Please attend as part** of the necessary quorum to exercise your voting right, privilege, and duty.

Guests are welcome

Due to the global pandemic most if not all events have been cancelled. See page 2 for coming events. You can also read about possible alternatives for some events in the following pages.

GENERAL **INFORMATION**



Sunday evenings:

TAKE-15 NET at 8:30 PM

CLUB REPEATERS:

VE1PSR - 147.270 MHz + TX = 82.5VE1PSR/UHF - 444.350 MHz +

VE1PSR/6M -53.550 MHz -

access and TX tone 151.4 Hz

VE1HNS - 146.940 MHz - TX=82.5

PACKET: VE1NSD 145.050 MHz LAN NODE

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Live October 17 at 1:15 pm EST: Unveiling ceremony to Commemorate Battle of Atlantic and Fern Blodgett Sunde: First Female Radio Operator to Go to Sea



https://www.rac.ca/battle-of-atlantic-and-fern-blodgett-sunde-statue-unveiling-ceremony-today-at-115-pm/

Live at 1:15 pm EST Oct.17: Unveiling Ceremony to Commemorate Battle of Atlantic and Fern Blodgett Sunde: First Female Radio Operator to go to sea.

The ceremony and monument unveiling may be accessed after the event) on Cobourg Media Facebook & YouTube, or by accessing the links at:

http://www.cobourgmedia.ca/fernblodgettsunde The virtual unveiling ceremony of the Fern Blodgett Sunde bronze monument was held Saturday, October 17, 2020) at 1:15 pm Eastern Daylight Time. The ceremony took place in the meditation garden, Victoria Park, Cobourg, by Lake Ontario.

Fern Blodgett Sunde (1918-1991) grew up in Cobourg, with a dream of sailing the high seas. Determined to serve

Canada when WWII broke out, she became the first Canadian woman to graduate with a professional wireless radio operator's certificate, and the first woman ever to work deep sea as a ship's radio operator ("Sparks").

A fluke in Norwegian regulations, a shortage of radio operators, and her own persistence allowed her to sign onto the M/S Mosdale, a Norwegian merchant ship.

Fern carried out her duties with outstanding competence & great courage during the Battle of the Atlantic. It was incredibly dangerous, as Allied ships fighting to get personnel & crucial supplies to Britain faced U-boats, mined waters, enemy aircraft, & perils of the sea as battlefield.

Fern was aboard 78 of the Mosdale's record 96 transatlantic crossings, opening the door to a sisterhood of Sparks. In 1943, she was awarded the Norwegian War Medal, the first woman ever to receive the honour.

Speakers included His Excellency Jon Elvedal Fredriksen, Norway's Ambassador to Canada; Rear-Admiral Jennifer Bennett, Royal Canadian Navy; Dr. Richard Gimblett, Command Historian of the Royal Canadian Navy (retired); Dr. Stéphanie Bélanger, Canadian Institute for Military & Veteran Health Research and Professor at the Royal Military College of Canada; Tyler Fauvelle, professional Canadian sculptor who created the monument.

For more information about Fern Blodgett Sunde and her amazing achievement please visit:

https://www.rac.ca/battle-of-atlantic-and-fern-blodgett.../

Leona Woods, Chair and Helen Vari, Honourary Chair Fern Blodgett Sunde and the Battle of the Atlantic Commemoration 2020 leonaewoods@gmail.com

Alan Griffin, RAC MarCom Director

Nominations for the 2021 H.A.R.C. Executive

The following is the list of the HARC Executive positions and the person willing to serve in each in 2021.

President: Brian Allen, VA1CC 1st VP: Jason Ingram, VE1PYE Secretary: Roger Stein, VA1RST Treasurer: Bill Simm, VA1ALW Station Mangr: Don Trotter, VE1DTR Member at Large: John Bignell, VE1JMB

Non-elected position

Bill Elliott, VE1MR has agreed to continue to serve as Director Emeritus and Past President

Needed

The H.A.R.C. needs to fill the following position.

Safety Officer - Because incumbent Pat Kavanaugh, VE1PK needs to step down due to health issues. Please contact President Brian if you are interested in this position

Pat will help you with the transition.

The RAC Board of Directors is pleased to announce that Brent Taylor, VY2HF, has been appointed as a Trustee for the Canadian Amateur Radio Hall of Fame (CARHOF).

Brent lives in Stratford, P.E.I. with his wife Janice. He will be representing the province of P.E.I. for a 3-year term from Sept.2020 until Sept.2023. Brent replaces Ella McCormick, VE1PEI, who served on the Board from 2015 to July 2020.

The RAC Board & the CARHOF Board of Trustees extends sincere appreciation to Ella for her dedication & contributions to the CARFOF Board evaluation process over the years. We wish her all the best of success in her future endeavours.

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When cannibals ate a missionary, they got a taste of religion.

PRESIDENT'S MESSAGE for November, 2020

Good evening everyone---Welcome to winter- the snow we had earlier in the week was a hint as to what we can expect in the coming months. I hope you all have had a chance to get your antennas in order for what we can expect around here thru the winter months.

Well, another year is about too end for the club as the next meeting will be both the monthly General meeting and the very important ANNUAL yearly meeting. It is very important that as many as possible attend this meeting so that we have a quorum and the meeting is legal according to our constitution and charter. I do promise to keep both meetings as short as possible but cover all the important items.

We do have a new chair person for the membership chair. He is Wayne-- ve1wph and he is willing to step forward and serve in this important position. Wayne has some changes he would like to make with the form to simplify registration for both new and old renewals. I do believe he has some other changes in mind but he will bring these to the executive.

We are still in need of a SAFETY Officer... to date no one has stepped forward for this position- important to organizing & doing antenna work for club members and of course the club ...If some one is interested in taking this on, please, contact any member of the executive and we can make arrangements to transfer the position.

We will have a new budget for the upcoming year for you to start the process of ratification and this will happen over the next two meetings before becoming final.

We also have some other projects to work on such as the satellite tower install at the club and our current install of antennas at the Cowie Hill location. This also includes the pulling in of 5 heilax cables of about 160ft each...some work, but many hands make for light work.

We need to stay vigillant over this virus as new cases are being reported in our Atlantic bubble... if this continues it seems that we may not get into the club late into next year...many events have been cancelled thru to September of next year.. this is not going away soon.

This is a short note to end the year on and look forward to seeing you all at the General and Annual meeting on the 18th of November at 19:00 hrs... Don will send out instructions thru Jim as to how to join this memorable meeting- a first for us in so many ways.

73 - Respectfully, Brian Allen- VA1CC, President of the HARC

Membership Registration Process

Membership may be initiated or renewed using any of the following methods:

(1) Download and save our new Fillable PDF membership form to your computer. Then open it using Adobe Reader (which you can download for free from their website), or other PDF Reader then fill in the form and print a copy and mail it along with appropriate cheque payment to our postal address.

Halifax Amateur Radio Club

2050 Hammonds Plains Road

Canada B4B 1P3

Attention: Membership chair

- (2) Interac e-Transfer The process to do an Interac e-Transfer is as follows:
 - Download and save our fillable membership application form to your computer. Then open it in your PDF reader we recommend Adobe Reader; fill it in and save it to your computer. Then, e-mail a copy of your completed membership application form to membership@halifax-arc.org Please be sure to indicate on the form that you are paying by Interac e-money transfer.
 - Then, go to your on-line banking site and send an Interac e-money transfer to treasurer@halifax-arc.org . e-Transfers are automatically deposited in the HARC bank account
 - The Treasurer will confirm receipt of the funds with you and will notify the Membership Chair.
 - The Membership Chair will then issue a 2021 e-Membership Card by email confirming that your annual membership has been paid.
- (3) Alternatively, you can come to one of our monthly club meetings and Membership Chair will be happy to renew your membership. Do you have any inquiries or comments? Send us an email.

Technology & Science

Got any signal up here? Nokia to build mobile network on moon

From

www.cbc.ca/news/technology/moon-nokia-cellular-network-1.5767509

1st wireless broadband communications system in space to be built on the lunar surface in late 2022

Thomson Reuters --Posted: October 19, 2020. Last Updated: October 19 Nokia of Finland has been picked by NASA to build a cellular network on the lunar surface. (Peter Cziborra/Reuters)

Finland's Nokia has been selected by NASA to build the first cellular network on the moon, the company said on Monday.

The lunar network will be part of the US space agency's efforts to return humans to the moon by 2024 and build long-term settlements there under its Artemis program.

Nokia said the first wireless broadband communications system in space would be built on the lunar surface in late 2022, before humans make it back there.

New measurements show that the moon has hazardous radiation levels

The Finnish company will partner with Texas-based private spacecraft design firm Intuitive Machines to deliver the network equipment to the moon on their lunar lander.

After delivery, the network will configure itself and establish the first LTE (Long-Term Evolution) communications system on the moon, Nokia said.

"The network will provide critical communication capabilities for many different data-transmission applications, including vital command and control functions, remote control of lunar rovers, real-time navigation and streaming of high definition video," Nokia said.

NASA says it will buy moon rocks and dirt from private companies.

Greetings all,

Sending this out to all my amateur radio contacts from the old Maritimer Amateur & newer contacts.

Over the last few months, I have started up a Maritime Silent Key list like I use to manage on the old Maritime Amateur website. I know the need was there and it was always a popular page on the website.

I am now using our club website WestCumb ARC in Amherst to take on this responsibility again. I know many of you are interested in this list as we are a small group here in the Maritimes. I use the WestCumb ARC twitter feed @WestCumbARC to post the latest Silent Keys but knowing many of you do not use Twitter I have decided to start sending out Silent Keys to all my contacts via email.

I hope most if not all of you will ap-

preciate these notices as some of these SK's may be hams we have talked to in the past, had conversations with at flea markets, or close friends we have talked to over the

As new Silent Keys come in I will send out a email with the name of the person in the Subject line and a link to the silent key page. Scroll to the bottom of the page for the latest Silent Keys. Click on the name of the person for their obituary.

There have been three Silent Keys here in October, Donald Rhyno VE1BAH, Robert "Bob" Anderson VE9BMA and James "Buddy" Boone VE1VRM

https://www.westcumb.ca/maritime-silent-keys-2020

Thanks for reading, Stay safe, Jim Langille VE1JBL

Cyber Safety from Avast News - 3 ways to avoid

ransomware attacks

Keep your antivirus software up to date to help prevent malware from accessing your device in the first place. Don't have one? Get one!

Don't click on suspicious links. Ever. Phishing attacks are still the most popular form of distributing malware and often have disastrous consequences.

Back up all your files and photos. That way, if you do find yourself a victim of ransomware, you can restore all your information.

Hi Guys -

This month's issue of The Spectrum Monitor has interesting articles on the new Mission RGO One HF Xcvr for low power & portable ops, MFJ's RigPi Station Server for remote ops, an SDR Buyers Guide, plus a nice historical piece on the rise of radio listening, and more.

John Brady, VE1WZ

HELP

We are developing a team to help take care of the web page but need a dedicated web master to oversee the web site.

"Actual" Exchanges between pilots and control towers

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

Lufthansa (in German): "Ground, what is our start clearance time?"
Ground (in English) "If you want an answer you must speak in English"

Lufthansa (in English): "I am a German, flying a German airplane, in Germany. Why must I speak English?"

Unknown voice from another plane (in a beautiful British accent:

"Because you lost the bloody war!"



HARC Annual General Meeting 20NOV2019 @ 1955 AST

Welcome – Bill VE1MR

Acceptance of the Agenda: It was moved by Scott, VE1QD to accept the AGM Agenda; seconded by Dick, VE1AI. Motion carried

Approval of the Minutes from the 2018 AGM: It was moved by Scott, VE1QD to approve the 2018 AGM minutes and seconded by Dick, VE1AI. Motion carried

President's Report for 2019 by Bill VE1MR:

"I would like to thank everyone who participated in club activities over the past year. While some members have been high profile in club activities there are many more who have participated behind the scenes. It is often the unnamed participants that keep the club running smoothly by doing small tasks for the club. These are the members who see something that needs to be done and they do it without being asked or come forward to do a small task. Again, many thanks to all those club members for their participation. These include the following activi-

ties:

Dec. 2018: Christmas Dinner January: Basic Amateur Radio Course 2019

February: Ham breakfast February: Guides on the Air

April: Shearwater Spring Hobby Show

May: MS Walk May: Flea Market

June: Woodlot Car Rally June: ARRL Field Day

July: Pizza night July: MS Bike Tour

Aug.: Pizza night @ Maritime Mu-

seum of the Atlantic

August: Ledgewood Lookoff Car

Rallv

October: Advanced Amateur Radio Course

October: Trout Lake Car Rally In addition to the previous I would be remiss to not mention the fantastic publicity HARC receives by its members manning the Wireless Room at the Maritime Museum of the Atlantic. Another major effort is by the HATS group and the volunteer hours they put in to uphold out commitment to HRM EMO.

Some other major tasks are the Brit Fader Memorial QSL Bureau managed by Murray McDonald VE1BB, and the work finalizing getting the club station fully operational led by Brian VA1CC with the help of several others." Bill Elliot, VEIMR President of

the Halifax Amateur Radio Club for 2019"

Reports of other Directors:

Membership Report for 2019 provided by VE1PPA Jim Calvesbert As of November 19, 2019 there were 99 Full members, 17 Associate members, 4 Life members for a total of 120. 44 of the members are also RAC members.

Treasurer 2019 Fiscal Year End Financial Report by VE1ALW Bill Simm.

The opening balance was \$4,251.23 on Oct. 1, 2018.

Income for the period was \$15,676.27.

Expenses for the period were \$11,082.29.

The closing balance was \$8,845.21 on Sept. 30, 2019.

The club investments for the period ended at \$49,333.03. Cash on hand \$0.

VE1MR presented the Audited Financial Statement as completed by Murray McDonald VE1BB as the auditor of the books

from the period October 1, 2018 to September 30, 2019.

His letter stated, "I have examined the balance sheet and income statements (with supporting reports) of the Halifax Amateur Club as of September 30th, 2019. In my opinion these financial statements present fairly the financial position of the Halifax Amateur Radio Club in accordance with the general accepted accounting principles applied on a basis consistent with that of the previous year."

It was moved by Dick, VE1AI to accept the report, seconded by Doug, VE1LDL. Motion carried.

Presentation of the 2020 Budget by Bill Elliott VE1MR, a handout was provided.

Bill presented the budget for 2020, including an HRM grant request for \$5000 to upgrade club computers. Bill went over the line items, both income and expense.

In summary there is a projected expense of \$22,100 against a projected income of \$15,800, resulting in a projected deficit of (\$6300). However, the projected closing balance for Sept 30, 2019 is \$8901.48. If all projects were completed that would leave a projected 2020 ending balance of \$2601.46 to the good. Discussion followed and clarifications were provided by Bill VE1MR.

Allister VE1PAB moved to accept the proposed budget, Brian VA1CC seconded

motion carried, first vote.

Second Vote will be at the January 2020 meeting.

Ratification of the Executive Activities 2019 on behalf of the Club. Dick VE1AI moved to accept,

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Minutes of the HARC 2019 AGM (Continued from page 5)

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Doug VE1LDL seconded, the motion carried.

Report from the Nominating Committee and Election of the Executive for 2020.

Appointment of a Secretary for the AGM (Roger Stein) VA1RST (oops we forgot)

Bill Elliott, VE1MR and Dick Grantham, VE1AI, made up the nominating committee.

The following selections were presented in the Reflector and here tonight as the slate of officers for 2020.

President: Brian Allen VA1CC 1st VP: Jason Ingram VE1PYE Secretary: Roger Stein VA1RST Treasurer: Bill Simm VA1ALW Station Manager: Don Trotter VE1DTR

Member at Large: John Bignell VE1JMB

There were no nominations from the floor for any of the positions. All were approved by Acclamation

Adjournment by Bill VE1MR Respectfully submitted by Roger Stein VA1RST HARC Secretary

RAC Board of Directors announces (Continued from page 2)

Brent Taylor, VY2HF, was first licensed in 1984 as VE1APG and received his partial HF privileges 6 months later after demonstrating successful CW operation. One year later he passed his Advanced examination. He obtained the call VE1JH, and was known by that call for over 20 years. He moved from N.B. to PEI in 2007 and acquired the call VY2HF.

Brent believes strongly in supporting Amateur Radio organizations. He is a Past-President of the Fredericton

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Halifax Amateur Radio Club Minutes of the Virtual General Meeting of 21 October 2020

- 1. Welcome to the HARC virtual monthly meeting for October 21, 2020: The virtual meeting was called to order by President VA1CC, Brian at approximately 1930. It was noted that we do not have a quorum after waiting for more people to join the meeting.
- 2. Report of any Silent Keys: The following amateurs in the Maritimes have passed since the last club meeting:

John Watters - VE1JGW - Sept 16 - Pictou NS

Neville B. Hannah - VE9OP - Sept 29 - St John NB

Donald M Rhyno - VE1BAH - Oct 10 Liverpool NS

Robert B Anderson - VE9BMA - Oct.13 Moncton NB

Additional information can be viewed at https://www.westcumb.ca/maritime-silent-keys-2020

- 3. Acceptance of the Agenda: A request was made to accept the agenda as presented by Brian, VA1CC
- 4. Approval of Minutes of September 14, 2020 as printed in the Reflector:
- 5. <u>Correspondence</u>: Brian VA1CC gained access to Station 50, there was no mail. Brian noted on the event calendar at Station 50 that there would be Exercise Handshake on the following Tuesday Oct 27.
- 6. President's Report: VA1CC Brian reported that Roger VA1RST has handled the clubs affiliation with RAC and is now also the administrator on the QRZ.com calls of VE1FO & VE1FQ. Roger reported to Brian that Howard Dickson, VE1DHD, former HARC Secretary, was very helpful in getting that switched over to Roger. HATS will be having an event on Halloween. Bill VE1MR requested through Ray VE1RAY to have Gary

Murphy VA1GGM submit a report for the Reflector on the latest happenings in HATS.

7. <u>Treasurer's Report:</u> Bill VA1ALW reported the income from the period of September 1 to September 30 was in the amount of \$165.00. Expenses for the same period came to \$77.64, opening balance of \$11,969.60 with a closing balance of \$12,086.96.

membership@halifax-arc.org is the proper email to send membership payments; a password is no longer needed; dues automatically go into the account. E-Transfers out of the account still would require two people to sign in and the expense is considerable. Checks will still be used to reimburse members for HARC expenses. PayPal can be set up with the above address to receive funds received for equipment sales. A motion was not made to accept the report.

8. Station Manager Report:

Don, VE1DTR reported a meeting took place in September at HARC with Greg, VE1GFX & Fraser, VE1WO to set up and record the procedures to set up for remote station operation. Four pages of setup instructions are in progress. Use is quite straightforward once the enrolment is gone through. Fraser, VE1WO said use is trouble-free, a reboot was required at one time but then ran smoothly. The rotor antenna position indication still needs work. Procedures will be written regarding call sign use.

9. Search and Rescue:

Dave, VE1AJP reported on the Bluff Trail system between Lakeside and Timberlee. It is a very rough trail area with 32 km of trails. A member of the response team was out on a hike and came across a lady with a severe ankle injury. She could not walk out on her own and the response team was activated. Access was only along the rails to trails

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October General Meeting Minutes (Continued from page 6)

route to be able to launch a boat to reach the women. There was a bicycle event going on so the trail got a little crowded as the emergency fleet made their way through the cyclists! The woman was reached & transported for attention to her injury. Another evidence search request was responded to in Dartmouth near the Costco area regarding a missing person.

10. <u>Committee</u>, <u>Event and Special</u> <u>Projects Reports:</u>

- 1. The Club is still looking for two club positions to be filled. They are Membership Chair, and Safety Officer, Jim Calvesbert, VE1PPA and Pat Kavanaugh, VE1PK are stepping down. Also, someone is needed to review the Treasurer's books. Please contact Brian, VA1CC
- 2. A Chair person is needed to head up the nomination committee to help in polling members to fill these positions.
- 3. Brian, VA1CC has still not heard back from Don Mosher, HRM EMO coordinator on a date for the Zoom boom at Cowie Hill repeater site. Bill VE1MR reported that he needs to replace some coax connectors, he needs a larger wrench that can open to 1-1/2".
- 4. Brian, VA1CC reported that the November meeting will be followed by the AGM where the Budget will have the first reading. A quorum needs to be available, this will be approx. 22 members.
- 11. Round Table: A discussion was held on the NSARA, best bet is an e-transfer to Shirley to join according to Bill, VE1MR. The normal NSARA meeting would have been at the Greenwood Flea Market in October but that event was not held due to covid.

A request was made for a current list of surplus equipment and the consignment equipment list. Jason, VE1PYE reported that the Trio receiver was sold as well as some pieces of the consignment equipment.

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Following receipt of the latest shipment of QSL cards from the incoming bureau, a total review of all QSL cards on hand was conducted.

Any card dated 2015 and prior, and the callsign holder did not have sufficient funds on hand was identified for destruction. There were 1347 such cards identified, some dating back to 1979 (41 years ago). Any callsign holder who had cards on file prior to 2015 and had received cards since, were not identified for destruction but remain in his/her file pending the receipt of money for deposit into their account. An annual review of all cards on hand will be recommended to ensure that the Bureau runs efficiently.

A total of 125 plus mailings were sent out to current callsign holders involving many QSL cards.

As of this date, any callsign holder having a current address on file and sufficient funds on deposit have had their cards mailed out. It is anticipated that a number of these cards will be returned by the Post Office due to incorrect addresses. An attempt was made to ensure the correct address was identified using our data bank, Industry Canada and QRZ listings.

Thanks, Murray, VE1BB See some of the old QSL cards below

100 years ago
everyone
owned a horse
and only the
rich had cars.
Today everyone
has cars and
only the rich
own horses.





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



In Golf -Whatever you think

you're doing wrong is the one thing you're doing right.

VEIAVD P. O. BOX 143, KENTVILLE Kings Co., N. S., Canada

RADIO VELYM CONFIRMING CW-PHONE OSO OF Dec 18 1979

AT 0040 GMT UR SIGS RST 5 9 ON 3.7 MC. RCVR.

XMTR: 75 8 20 180 WATTS INPUT ANT: DIPOLE

REMARKS: Mercy Christmas, Bob.

PSE, QSL, TNX (13)

H. PAUL ROBINSON

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Are wind, solar, & batteries the magic solutions to all our energy needs?

Or do they come with too high a price? Mark Mills, Senior Fellow at the Manhattan Institute, analyzes the true cost (economic & environmental) of so-called green energy.

Have you ever heard of "unobtanium"?

It's the magical energy mineral found on the planet Pandora in the movie, Avatar. It's a fantasy in a science fiction script. But environmentalists think they've found it here on earth in the form of wind and solar power.

They think all the energy we need can be supplied by building enough wind & solar farms; and enough batteries.

The simple truth is that we can't. Nor should we want to—not if our goal is to be good stewards of the planet.

Why? Consider some simple physics realities that aren't being talked about.

All sources of energy have limits that can't be exceeded. The maximum rate at which the sun's photons can be converted to electrons is about 33%. Our best solar technology is at 26% efficiency. For wind, the maximum capture is 60%. Our best machines are at 45%.

So, we're pretty close to wind & solar limits. Despite PR claims about big gains coming, there just aren't any possible. And wind & solar only work when the wind blows and the

sun shines. But we need energy all the time. The solution we're told is to use batteries. Again, physics & chemistry make this very hard to do.

Consider the world's biggest battery factory, the one Tesla built in Nevada. It would take 500 years for that factory to make enough batteries to store just one day's worth of America's electricity needs. This helps explain why wind & solar currently still supply less than 3% of the world's energy, after 20 years and billions of dollars in subsidies.

Putting aside the economics, if your motive is to protect the environment, you might want to rethink wind, solar & batteries because, like all machines, they're built from non-renewable materials.

Consider some sobering numbers:

A single electric-car battery weighs about half a ton. Fabricating one requires digging up, moving & processing more than 250 tons of earth somewhere on the planet.

Building a single 100 Megawatt wind farm, which can power 75,000 homes requires some 30,000 tons of iron ore & 50,000 tons of concrete, as well as 900 tons of non-recyclable plastics for the huge blades. To get the same power from solar, the amount of cement, steel & glass needed is 150% greater.

Then there are the other minerals needed, including elements known as rare earth metals. With current plans, the world will need a 200 to 2,000 percent increase in mining for elements such as cobalt, lithium & dysprosium, to name just a few.

Where's all this stuff going to come from? Massive new mining operations. Almost none of it in America, some imported from places.

Australia's Institute for a Sustainable Future cautions that a global "gold" rush for energy materials will take miners into "...remote wilderness areas [that] have maintained high biodiversity because they haven't yet been disturbed."

And who does the mining? Let's just say that they're not all going to be union workers with union protections.

Amnesty International paints a disturbing picture: "The... marketing of state-of-the-art technologies are a stark contrast to the children carrying bags of rocks."

And the mining itself requires massive amounts of conventional energy, as do the energy-intensive industrial processes needed to refine the materials and then build the wind, solar, & battery hardware.

Then there's the waste. Wind turbines, solar panels & batteries have a relatively short life; about 20 years. Conventional energy machines, like gas turbines, last twice as long.

See

https://www.youtube.com/watch? v=RqppRC37OgI

October General Meeting Minutes (Continued from page 7)

Any articles. pictures, jokes, etc can be submitted to Lynn for the Reflector (request from Bill VE1MR).

The Swap Shop on the HARC website will be attended to, under construction is the term!

There was a discussion on VHF antennas and the various merits of using a 3 band vs 2 band design and resultant gain of the various antennas. Brian has an exam to administer next Sunday.

12. <u>Motion for Adjournment</u>: Bill, VE1MR, moved to adjourn. Meeting adjourned at approx. 2100 hours.

Respectfully submitted by Roger Stein, VA1RST, HARC Secretary

Why does Goofy stand erect while Pluto remains on all fours? They're both dogs!

Check out info on Coaxial Transmitting Chokes
By Jim Brown K9YC
Santa Cruz, CA

http://audiosystemsgroup.com

Slides (and a lot more) are at http://k9yc.com\publish.htm

Thanks to John Brady, VE1WZ

Humans are the ONLY mammals that don't make their own vitamin C.

Hi Guys - FYI.

Two days ago Microsoft released their "Fall 2020 Update", the so called "2009 update" (September 2020) – also referred to as "20H2". They're all one and the same.

Eventually, your computer will be "polled" (by Microsoft) and the upgrade will become available to you. However, if you'd like to avoid that "surprise", and perform the update at a time convenient time to you (in effect, force the update to occur now), here's what to do:

Goggle "Windows 10 Download", then

Click on "Download Windows 10 Disc Image (ISO file) - Microsoft", then

click on the first button "Update Now" to download the Update Assistant file (a very small file), then

after the Update Assistant downloads, click on the "little arrow" at the bottom left corner of your screen and

click on "Open", and finally

click on "yes"

This will open the "Update Window", following which the update process will begin (this involves the downloading of a rather large file and the installation of same - all this happens automatically).

I updated my Win 10 computers two days ago. There were no issues – all went very smoothly.

John Brady, VE1WZ

FT DX10 New Yaesu HF Transceiver 100W SDR with 4m. NEWS FLASH

https://www.youtube.com/watch?v=LZCg8fLGwzs
Thanks to John Brady, VE1WZ

"My luck is so bad that if I bought a cemetery, people would stop dying." - Ed Furgol

Greetings everyone,

Each year in October Nova Scotia Public Safety Field Communications has an Interoperability Forum to go over the latest tools and information about TMR2 (Trunked Mobile Radio) the communications system used now throughout the Maritimes by multiple agencies. Due to COVID this year's presentation was by video only.

Amateur radio operators who volunteer at EOC's get a chance each month to use this radio system and their own amateur radio setup during Exercise Handshake.

PSFC was supposed to put on a presentation at SMART 20 but due to COVID was canceled. Hopefully, we will be able to bring them up next year.

Here is this year's Forum which is very well done. Congratulations to all and thanks for sharing.

A reminder just below the link is a Passcode you must use to start the video. Just copy and paste.

Enjoy the presentation.

Everyone stay safe.

Jim Langille, VE1JBL

----- Forwarded message -----

From: Trunk Mobile Radio 2 < TMR2@novascotia.ca>

Date: Fri, Oct 23, 2020 at 11:22 AM

Subject: Recording - Virtual 2020 Interoperability Forum

Thank you to everyone who joined our Virtual 2020 Interoperability Forum!

The video recording is now available for you to view.

Please pass this link along to anyone you think is interested in watching:

https://zoom.us/rec/share/ K0YCA76nxJAjf5mAbpWqo2dkoEeNBK8PIsPgg42YFdI4AA0H4HWW6I-0qo1kvxM. PdbG4O2zYm3Ea3zg

Passcode: 5\$q!rJ1=

RAC Board of Directors announces (Continued from page 6)

ARC and the New Brunswick Amateur Radio Association. He was involved with the Canadian Amateur Radio Federation (CARF) and the Canadian Radio Relay League (CRRL) before the merger into Radio Amateurs of Canada.

He is a member of RAC, the Charlottetown A.R.C, the International Repeater Group (NB), the A.R.R.L., the Radio Society of Great Britain, AMSAT, the National Radio Club, & the Canadian International DX Club.

Brent works for the Federal Department of Veterans Affairs as Acting Manager of the Department's Business Systems unit with responsibility over the database that holds the Department's Veteran/client information. He previously worked as an educator, radio broadcaster, newspaper columnist, and served one term (1991-1995) as a member of the N.B. Legislative Assembly.

"I am very pleased to be invited to join the CARHOF Board of Trustees as the representative from PEI.

For more information about the Canadian Amateur Radio Hall of Fame please visit:

https://www.rac.ca/carhof/

Frank Davis, VO1HP, Chair, Board of Trustees, Canadian Amateur Radio Hall of Fame.

From The Economist

Good vibrations How to send underwater messages without batteries



A new device extracts energy from ambient noise

RADIO WAVES do not travel well underwater. That is why ships employ sonar rather than radar to plumb the briny depths. Messages broadcast through the ocean need to be sonic, too. For that purpose people often use acoustic modems, which can turn electronic signals into sound, and vice versa, like an old-fashioned acoustic coupler for a telephone.

Such instruments need power, though. And if they are sitting on the seabed, replacing their batteries is a serious chore. But Fadel Adib of the Massachusetts Institute of Technology (MIT) may have the answer. A device he has created & tested not only broadcasts & receives sound – it is powered by sound as well.

The core of Dr Adib's invention is called a broadband resonator. Typically, an object resonates strongly at only one or a few frequencies. This is why a singer can shiver a wineglass into fragments by holding a particular note—but only that note, and no other. A broadband resonator, by contrast, can receive or transmit sound across a range of frequencies.

Dr Adib's resonator consists of two

If you can smile when things go wrong, you have someone in mind to blame.

nested hollow ceramic cylinders with a layer of polymer sandwiched between them. This structure has many interacting resonance modes. It is

> this that gives it its frequency range. The trick that turns it into a power source is that the ceramics are piezoelectric meaning they can convert the vibrations of acoustic energy into electrical energy and vice versa. And, the ocean being a noisy place, there

is a lot of acoustic energy around to convert. A device powered by a piezoelectric broadband resonator can thus constantly replenish its batteries without them having to be changed.

The resonator also, though, has a second use. It acts as an acoustic modem that receives instructions to and broadcasts data from the instrument it is part of. To prove this works, Dr Adib and his colleagues used a resonator-based acoustic modem to communicate 60 metres across the Charles river, which separates mit's home town of Cambridge from Bostonand, indeed, flows directly past the front of the institute. The Charles is nowhere near as noisy as the open ocean, so they had to supply the sound to power the resonator artificially, using an underwater loudspeaker. Thus supplied, however, the device was able to transmit data at a rate of 20 kilobits per second. This is about the same as a conventional acoustic modem.

Dr Adib has also, by attaching the resonator to an appropriate sensor, used it to transmit information about water temperature, acidity and salinity. Indeed, he sees sensors as an important market for the new devices. One application would be monitoring conditions in fish farms. Another

would be in tracking tags for sea creatures—though the current minimum size of a resonator means this would, for the moment, be practical only for large animals (e.g. whales).

Ring my chimes

Resonators could also be employed as nodes in underwater communications networks—extending the range over which a message can be sent. And they might be used in underwater navigation beacons that would provide precise location data to submersibles unable (since signals from satellites are radio waves) to employ the global positioning system or one of its equivalents for the purpose.

More specifically, America's navy, which is sponsoring the project, has plans to use resonator-powered devices as sentries. An array of such devices could calculate the range and direction of a source of sound such as a ship or submarine and send it back to base.

Dr Adib and his team are now working on extending the devices' capabilities. Their immediate goals include communicating between pairs of them over a distance of a kilometre, and building networks that have hundreds of nodes.

The Atlantic Amateur

Ham Radio for the **Atlantic Provinces**

www.atlanticamateur.ca

I'm not turning my clock back on Sunday. The last thing we need is an extra hour of 2020!!!!

