



REFLECTOR

PO BOX 8895
HALIFAX NS
B3K 5M5

February 2014, Volume 75 Number 2
club web site is www.halifax-arc.org

Bad Travel Conditions on HARC Meeting Night? Check Our Website for A Cancellation Notice



HARC Club Station phone number - 490-6421

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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

The **February, 2014 General Meeting** of the Halifax Amateur Radio Club will be held Wednesday, **February 19** 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. Refreshments will be available. Entertainment 7:30-8:30 pm. Topic: "A vintage Ham and his vintage radios" given by Tom Gaum.

8:30-9:30pm Regular Monthly Business Meeting. The meeting agenda is on the HARC web site. Guests are welcome

HARC 2014 Membership Special Bonus

The HARC membership runs from January 1st to December 31st, so 2014 memberships are now due. As a special incentive this year, everyone who renews before the end of February 2014 will receive a special bonus in the form of several pdf files that you can put on your smart phone, tablet or computer.

(Continued on page 2)

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.



Feb. 16	Erik	VE1JEH
Feb. 23	Doug	VE1LDL
March 2	Bruce	VE1MLW
March 9	Emil	VE1ESP
March 16	Peter	VE1PJW
March 23	Win	VE1WIN

Deadline for submissions to the March Reflector is Saturday, March 8, 2014

Puzzler - Do you know

When was the flush toilet invented?

Answer on page 2



Definition: DUST: Mud with the juice squeezed out.

GENERAL INFORMATION



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

CLUB REPEATERS:
VE1PSR - 147.270 MHz + TX=82.5
VE1PSR/UHF - 444.350 MHz +
VE1PSR/6M - 53.550 MHz -
access tone 151.4 Hz
VE1HNS - 146.940 MHz - TX=82.5
PACKET: VE1NSD 145.050 MHz
LAN NODE

Events for Your Calendar

February 12 & 15 - HARC will host three Scout and Girl Guide groups at the station. These sessions will include a briefing about amateur radio and an opportunity to get on the air.

Feb.15 &16 - Guides On The Air (GOTA) - If you know any Girl Guides (or Brownies or Sparks!) think about getting on the air on February 15th or 16th. The best time is when the UK Guides will be on the air. There should be Guides on from Winnipeg, Canning and Halifax. For more information have a look at the GOTA web page:

<http://www.clarayl.ca/index.php/whatisgota> or contact va1yl at rac.ca

Feb 22 at 10:00AM - Breakfast at Tom's Restaurant Sackville Dr
Contact Doug, VE1LDL by: phone at 465-4665 or e-mail at leblanc@accesscable.net to confirm you plan to attend.



The NSARA Contest takes place each year on the second Sunday in March. For 2014 the date will be March 9.

Nostalgia isn't what it used to be.

Membership Bonus (Continued from pg.1)

These files have been extracted from the 2012 Maritime Callbook and include:

- * Maritime Repeater Maps and Lists
- * Maritime Repeater Linking Information + Link Codes for NS and PEI
- * IRLP Linking Information and Canadian Link Codes

While most of us have a copy of the Callbook in our vehicles, smart phones are becoming so common these days, that having this data on your phone or tablet could be extremely useful.

Remember, your HARC membership now includes an automatic membership with NSARA. Please renew now. You can mail your membership to:

Howard Dickson - VE1DHD
HARC Membership Chair
c/o Halifax Amateur Radio Club
PO Box 8895,
Halifax, N.S. B3K 5M5

HALIFAX AMATEUR RADIO CLUB

Corrections and additions to last months report.

Successful Candidates for Amateur Radio Qualifications Exams held in December 2013/January 2014

1. Marie-Lise Dagenais	Basic (Honours) & Advanced	VE1MLD
2. Roberto Diaz-Rodriguez	Basic (Honours)	VE1NCZ
3. Ron Doucette	Basic (Honours)	VA1FPV
4. Paul Geddes	Basic (Honours)	VE1PSG
5. Jeffery Goodine	Basic	VE1JDG
6. William Hebb	Basic (Honours)	VE1HEB
7. Chuck Kelly	Basic (Honours) & Advanced	VE1MDO
8. Laura Muise	Basic (Honours)	
9. Gary Murphy	Basic (Honours)	VA1GGM
10. Antony Parton	Basic (Honours)	VA1ANT
11. David Rennie	Basic (Honours)	VE1DJR
12. Scott Verge	Basic (Honours)	VE1SRV

Answer to Puzzler on pg.1



The first flush toilet appeared as early as 1,700BC. The palace of Knossos on the island of Crete, built around that time, featured a toilet with an overhanging cistern that dispensed water when a plug was removed.

It would take 3,000 more years before the next step in flushing technology was taken. In 1775 a patent for a flushing toilet designed to keep sewer gases from seeping back was issued to Alexander Cummings.

Source – Joe Schwarcz, McGill University

No man's life, liberty, or property is safe while the legislature is in session.
Mark Twain (1866)

The 2014 Brit Fader Scholarship

Howard, VE1DHD has updated and posted as a ZIP file the three forms required for the 2014 Brit Fader Scholarship application process. The 2014 award will be \$1000.



Please spread the word about this scholarship to any potential applicants.

Howard, VE1DHD // VE1ZD

Sign at a Towing company:

"We don't charge an arm and a leg. We want tows."

Contesting – Love it? Like it? Never even tried? Not enough time for an entire contest? Don't like to play alone? Arrange to "team up" with one or more other hams to go in to the club station to operate a contest or a part of a contest.

PRESIDENT'S REPORT for February 2014

I was encouraged by the positive response given to my presentation last month about developing a HARC strategy for member recruitment and development, including the many constructive comments and offers to help with the project. It is clear that we need to create more opportunities for this kind of dialogue about important issues within the Club, so we will make this happen. I look forward to moving ahead with this work as soon as I return from Mexico in mid-March.

In the meantime, on the 12th and 15th of February HARC will be hosting three Scout and Girl Guide groups at the station. These sessions will include a briefing about amateur radio and an opportunity to get on the air. In fact two groups will be operating during the Guides-on-the-Air (GOTA) event on 15 February. These events are important components in our membership recruitment strategy. Thanks to Tom, VE1GTC; Jim, VE1JIM; Doug, VE1LDL; John, VE1CDD; and I suspect others, for taking responsibility for these events.

Speaking of getting on the air, the DX Bulletins in my e-mail tell me I am missing many interesting DXpeditions and good propagation. If you haven't been on HF lately, blow off the dust from your rig and work some of the rare DX, even with low power and modest antennas. By the way, one of our Club members, George Nicholson, VE1GRN/N4GRN was a key team member of Amsterdam Island DXpedition, FT5ZM: the operation will be closed down by the time you read this.

In late January, Fraser, VE1WO; Win, VE1WIN; and several others (sorry I do not have all the names with me) put up the shelves and racks in our storage container at Cowie Hill. We are now ready to move our equipment from Bloomfield School and several other locations, just as soon as the weather permits. Win's donation of materials and every ones work on completing this project are appreciated!

Finally remember to take in the Ham Radio Brunch on Saturday, 22 February. You will find the details elsewhere in this issue of the *Reflector*

K. Scott Wood, VE1QD

1st Vice President's Report

I have had several people say they would like to help with various aspects of the technical committee. I have been able to make notes on some and have had e-mails for one or two but would like to build a data base. If anyone, including all those who have already said they would like to help out would please send me an e-mail stating your particular interests.

I understand that some of the newer members may not know all of the technical aspects we need help with but if you could also give a little background and where your current interests lie that would be very helpful

I am hoping to have a couple of work sessions at the VE1PSR repeater site in the next few months and I will let all those who express an interest in this aspect know of the particular dates.

I also understand that when I choose a date that a lot of folks will not be available then but if I can let 5 or 10 people know then I can expect 4 or 5 to show up.

Contact me at

bowser.elliott@ns.sympatico.ca

Thank you - Bill Elliott, VE1MR

NOTICE

We have been invited to take part in the Shearwater Hobby Show Saturday, Sunday April 5, 6 10 AM to 4 PM. We have participated for several years and have generated interest in Amateur Radio.

If we are to take part this year we need someone to co-ordinate this for the club. There are several people willing to help but no one yet has accepted the responsibility of organizing this event.

If you are willing to do this, please contact any executive member.

Want to check road conditions before driving?

New Brunswick Highway Cams:

<http://www.gnb.ca/0113/cameras/allcams-e.asp>

Nova Scotia Highway Cams:

<http://gov.ns.ca/tran/cameras/camera.asp>

PEI Highway Cams:

<http://www.gov.pe.ca/tpwpei/index.php3?number=1016836&lang=E>

The live web cam showing Halifax's Armdale Rotary is

<http://www.novascotiawebcams.com/halifax/armdale-rotary.html#axzz1AmMziRUo>



He said ... How many men does it take to change a roll of toilet paper?

She said ... We don't know; it has never happened.

January saw the **Installation of Shelving** inside our new storage container at Cowie Hill. With heat inside, work could (and did) proceed without those involved being hampered by bulky jackets, thermal gloves or danger of frostbite.

The 2x4 brackets will be strong enough to support tower sections & antennas while the less awkward items can be stored on the metal shelves.

The voices in my head may not be real, but they have some good ideas!



Work in progress - John, VE1CDD, downed tools long enough to photograph Fraser, VE1WO, and newly licensed Bill Hebb, VE1HEB, "customizing" the HARC's new storage facility



The **wood shelving** is in place in the container as of yesterday, January 10. There is still some bracing that has to be completed once the metal shelves are in place. We were not able to do this yesterday due to the time spent fabricating the wooden shelving; we were there until almost 4:00 PM.

There is some material remaining which can be used as spacers to raise items off of the metal floor if required.

73, Fraser

Safety Note

House fires caused by the improper storage of 9 Volt batteries.

What better place than the junk drawer in the kitchen? This video is from the CBS television station in Boston, MA and it's an eye opener! Wait until you see how easily a fire can start with a 9 Volt battery.

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

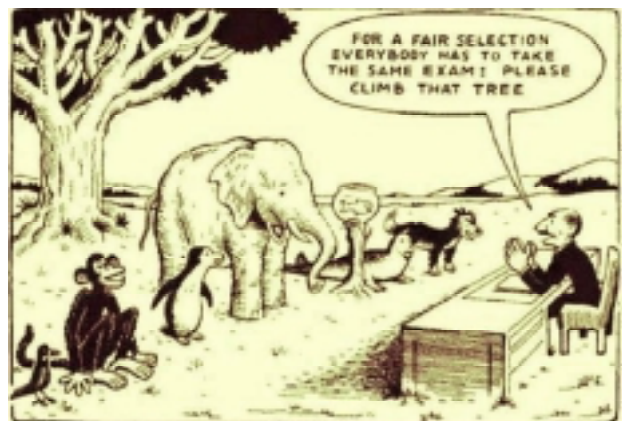
Google link below for more on this subject: https://www.google.ca/?gws_rd=cr&ei=E4SdUqqcIuSG2wWg2IGwAQ#q=house+fires+caused+by+stor-age+of+9+volt+and+aa+batteries+on+the+rise

How about starting out with some common sense rules for using our new storage facility such as

1/ Thou shalt not leave any item in such a position that it will prevent the door from :

- a) opening*
- b) closing*
- c) admitting a human of average circumference & dexterity.*

Or how about 2/ The center aisle must be at least 90% bare at all times. -ed



Our Education System

"Everybody is a genius. But if you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid."

- Albert Einstein

Shortwave towers coming down

■ Sackville transmission site falls to demolition crew

JAMES FOSTER
TIMES & TRANSCRIPT

SACKVILLE – The only sound that will ever again come from the famed Radio Canada International world-wide broadcasting site located here is the sound of demolition experts who are now carefully dismantling the site, followed by an eternal silence.

Crews have been hard at work for a few days now taking down parts of the webbing of giant antennas that used to broadcast the Canadian identity, not to mention wartime propaganda, around the planet, with all efforts to sell the facility finally proven to be for naught.

"Demolition of the towers and antennas is under way," CBC spokesman Jim Ball confirms.

"To date, most of the removals have been wooden poles on the site, but work on the antennas has commenced."

The CBC offered the site to shortwave broadcasters around the world but there were no takers – there weren't even any serious nibbles for the ancient technology. Like RCI, shortwave is giving way to Internet broadcasts, with listeners now tuning in on their computers and smartphones for their taste of Canada.

"It is anticipated the tower and antenna removals will take between three and four months," Ball says.

"All towers, antennas and tuning huts will be removed."

It marks the end of an era in international broadcasting history.

According to the CBC's archives, the CBC International Service was founded to broadcast to Canadian Forces overseas in the Second World War. At war's end the radio service focused on telling the world about Canada in more than a dozen languages.

From its studios in Montreal and its web of shortwave transmission towers in Sackville which came to personify the Tantramar marshes, the service was aimed at both Canadian and foreign listeners. In the inaugural broadcast, then-prime minister William Lyon Mackenzie King said the service would extend Canadian ideals of equality and freedom to the world.



The Radio Canada International shortwave transmitting station in Sackville is being taken down after decades of transmitting around the world.

PHOTO: RON WARD/TIMES & TRANSCRIPT

King was joined by justice minister Louis St-Laurent, who addressed the audience in French, and by Howard B. Chase, chairman of the CBC board of governors. The three talked about the service's goal of reflecting Canada beyond its borders. The service broadcast to the United Kingdom and western Europe in three languages – English, French and German – with a signal that was strong and clear.

Psychological warfare against Germany was a priority before the war ended, the archives report. German-language news shed a new light on Nazi leaders and told Germans what was happening in their own country. German prisoners of war held in Canadian prison camps were encouraged to record messages that would be heard at home. The messages were used as "listener bait" to encourage German audiences to tune in.

The so-called "Voice of Canada" chose the Tantramar marshes for their transmission towers thanks to the site's proximity to the East Coast, its low elevation and because the conductive powers of its soil made it an ideal location for shortwave broadcasting.

Such were those conductive powers that it was not unheard of for area residents to pick up the signal accidentally through their telephones

and even household appliances at times. In one famous episode of the phenomenon, a performance by the Montreal-based rock band The Angry Young Ducks at the Dieppe pub The Rendez-Vous almost had to be postponed as the band's speakers spontaneously-started broadcasting RCI's shortwave signal. The incident, which took place in the late 1970s, was cured when the bar owner showed up with multiple rolls of tin foil with which to cover the speakers, which allowed the show to go on.

The towers and antennas will be removed but the land and possibly two or three solid, if old, buildings will be put on the market for sale. The surrounding property could be developed for any number of purposes, perhaps even a wind farm given the notoriety of winds that almost constantly blow over the Maritimes' largest marshlands.

The land's location could prove a key selling point, right next to the Trans-Canada Highway and almost within site of the main highway to the Confederation Bridge leading to Prince Edward Island.

"When the demolition is completed, CBC will put the site back up for sale," Ball confirms.

"That is anticipated to happen in the fall of 2014."

For those hams who ever wished they could try out the Tx/Rx potential of the Sackville transmission site of Radio Canada International this Feb.8, 2014 newspaper item must bring at least a little feeling of melancholy.

And can you imagine doing Field Day there?

Thanks to both Ken, VY2RU and Lorne, VE1BXK for sending me this article –ed

Definition:

INFLATION:
Cutting money in half without damaging the paper.

With a current membership of Hams from all points in the Maritimes, the **Maritime Contest Club** is dedicated to the promotion & enjoyment of Radiosport. Contact ve1rgb@rac.ca or ve1lop@rac.ca for more information, or to join the Contest Club's *Reflector*.

Halifax Amateur Radio Club
General Meeting minutes
January 15th, 2014

Meeting opened: 2100

Members present: IGP, CAW, NN, BMJ, AJP, AI, JHF, BMF, GFA, VA3IIF, PSG, TRB, RUS, MR, WIN, JDH, QD, GGM, MDO, QDX, JMA, DDC, TOM, AWP, SRV, ANT, VBT, DHD, HEB, BC, FMD, LDL ZMB, Paul Geddes, Amanda Schreiber

Silent Keys: VE1IZ, VA1MAB, VE1ARK, VE1AB, VE9WN, VE1LR, VE1MUS, VY2UA
Agenda Accepted.

Minutes were not available in the Reflector

Scott congratulated Brandon and Graham on their receipt of the Rookie of the Year Award.

The Ham Breakfast will be on the 22nd of February at Toms in Sackville.

There are a couple of groups coming in ... one on the 12th (Cubs) and a group for GOTA.

The talk for February will be "A vintage Ham and his vintage radios" given by Tom Gaum.

Jim Guilford is away and as such the regular Treasurers report is not available, so Scott gave a quick rundown of the treasury.

Acceptance moved by Fraser (WO), seconded by Bill (MR). Accepted.

Bill (MR) gave a brief report on the status of the Technical Committee and the projects that are in the works.

Membership report was given by Doug (LDL) 4 Life, 17 Assoc., 46 regular for a total of 67 for 2104.

Dick (AI) as the nominating committee chairman gave a rundown of positions that need to be filled, including Flea Market and Field Day.

Fraser (WO) gave a quick overview of the continuing activities of the Archive project including the vast array of photos that have been processed to

date.

Dave (AJP) spoke about emergency communications and the need to have people available for disaster exercises, and asked that people make sure their information is current in case we need to contact you.

He spoke about Stormwatch, and trying to implement it during bad weather conditions in this area.

There hasn't been much SAR activity as of late, possibly, he surmised, because of the extreme cold we have been experiencing lately, that people have been staying inside and not getting lost.

Erik Hein was not present to cover the Radio Course.

Scott gave a rundown of the storage container project and what has been completed to date, including the installation of the racks and shelves, the completion of the electrical work, and the installation of the door.

We will be looking for help in the next few weeks to move stuff from Bloomfield to the container.

Nothing new on the leasing talks with the city.

No news is (possibly) good news.

The Remote Station project is up and running thanks to the hard work of Ed, Fraser, Bob and John, but we need someone to be the supervisor of the system, but that person needs to have an Advanced license to do so. Training will be provided on the system for users and the supervisor.

Paul Geddes gave an overview of what he hopes to see happen at CP Allen school, with regards to starting an amateur radio club at the school, and the possible link between the school's Astronomy club and amateur radio.

He suggested a field trip to the club for the Astronomy club to see what is possible on the radio end of things, such as moon bounce, me-

teor scatter etc.

Amanda Schreiber outlined the ongoing work for our public displays.

Scott mentioned that Chuck Kelly has finally received his Canadian license, and is interested in becoming an Accredited examiner.

We are working on education for youth to get them interested in Amateur Radio.

Terry (TRB) gave a report about the upcoming Fall Arrest recertification course and the upcoming Course on the 22nd of Feb. and those who are taking part.

There are some new regulations for tower work that he made everyone aware of, and asked if anyone else was interested in taking the course.

50/50 Draw: Doug (LDL)

Door Prize: Paul Geddes

Meeting adjourned 2140

Respectfully Submitted
Jeremy Fowler VE1JHF
HARC Club Secretary

To Do List for Spring

1. Shovel the walk
2. Scrape windshield
3. Break icicles off gutter
4. Shovel snow off roof
5. Salt sidewalk
6. Defrost water pipes
7. Reschedule cancelled Airline reservations
8. Chip ice off car door
9. Tow frozen car to garage to defrost radiator
10. Put groundhog in oven with BBQ sauce



Ham radio Apps for smartphones

The SWLing Post provides a run down of some of the amateur radio and SWL Apps available for your smartphone

Read the SWLing Post story at:
<http://swling.com/blog/2014/01/the-best-amateur-radio-and-shortwave-apps-for-ios-and-android-smartphones/>

How Technology has changed in 70 years from the Colossus computer in 1944 to a bionic hand in 2014

The 70th anniversary of the pioneering Colossus computer is being celebrated at Bletchley Park.

<http://www.bbc.co.uk/news/technology-26033681>

The machine was first used to crack messages sent by Hitler and his generals on February 5, 1944.

The celebration will bring together some of the machine's creators and operators at The National Museum of Computing (TNMOC). The machine's code-cracking prowess will be demonstrated on the day using the museum's rebuilt Colossus.

Now widely recognised as the first electronic computer, Colossus was kept a secret for 30 years because of the sensitive work it did during World War Two to crack German codes.

The work of the Colossus machines to decipher messages scrambled using the Lorenz enciphering machine that passed between the Wehrmacht's commanders is widely thought to have shortened the war and saved countless lives.

Colossus was created by Post Office engineer Tommy Flowers, and his first prototype was built out of parts from telephone exchanges including 1,600 valves. Later versions used even more valves and by the end of the war 10 of the machines were in use in the UK.

The celebrations will bring together some of the women who kept the different machines running as well as some of the engineers who built and maintained them. During wartime, about 550 people worked in the Bletchley Park unit that ran Colossus. Also attending will be some of the children of the machine's creators and operators.

Most of the machines were broken up and the plans destroyed after the war in an attempt to keep the work secret and to conceal the fact Britain was still using two of the machines to read Soviet messages.

"The achievements of those who worked at Bletchley Park are humbling," said Tim Reynolds, chair of TNMOC. "This day is in honour of all the men and women who worked on breaking the Lorenz cipher."

Scientists have created a bionic hand which allows the amputee to feel lifelike sensations from their fingers.

Source <http://www.bbc.co.uk/news/health-26036429>

A Danish man received the hand, which was connected to nerves in his upper arm, following surgery in Italy. Dennis Aabo, who lost his left hand in a firework accident nearly a decade ago, said the hand was "amazing" allowing him, in laboratory tests, to tell the shape and stiffness of objects he picked up, even when blindfolded.

The details were published in the journal *Science Translational Medicine*.

An international team carried out the research project, which included robotics experts from Italy, Switzerland and Germany.

"It was very exciting when after hours of testing....Dennis turned to us and said "I can feel the closing of my missing hand!"

Team members Dr Stanisa Raspopovic Bioengineer, EPFL Lausanne and Prof Silvestro Micera from the Ecole Polytechnique Federale de Lausanne and Scuola Superiore Sant'Anna, Pisa said "It is the first time that an amputee has had real-time touch sensation from a prosthetic device".

The scientific advance here was not the hand itself, but the electronics & software that enabled it to give sensory feedback to the brain. Micera and his team added sensors to the artificial hand which could detect & measure information about touch. Using computer algorithms, the scientists transformed the electrical signals they emitted into an impulse that sensory nerves could interpret.

During an operation in Rome, four electrodes were implanted onto nerves in the patient's upper arm. These were connected to the artificial sensors in the fingers of the prosthetic hand, so allowing touch & pressure feedback to be sent direct to the brain.

After a month doing laboratory tests, firstly to check the electrodes' function, then with these fully connected to the bionic hand Mr Aabo, said: " ... when I grabbed something I could feel what I was doing without having to look. It was intuitive to use and incredible to be able to feel whether objects were soft or hard, square or round."

The bionic hand is still a prototype, and due to safety restrictions imposed on clinical trials, Mr Aabo required a second operation to remove the sensors.

Those working in the field in the UK were also enthusiastic. This work, takes research in upper limb prosthetics into the next stage by adding sensory feedback. (Dr Alastair Ritchie, Lecturer in Biomaterials & Bioengineering, U. of Nottingham.) "This technology would enable the user to know how firmly they are gripping an object, which is vital for handling fragile objects."

The international team is now working to miniaturise the technology. "We must get rid of the external cables and make them fully implantable" said Prof Thomas Stieglitz, University of Friburg, Germany, whose laboratory created the ultra-thin implantable electrodes.

Scientists think it could be a decade before a sensory feedback bionic hand is commercially available. And they believe it may pave the way for more realistic prosthetic devices in the future which can detect texture and temperature. The super-functioning bionic hand of science fiction films remains the stuff of fiction.

From the Mail Bag

Are you a CW enthusiast or collect keys? Check out

<http://www.arrl.org/shop/ARRL-Centennial-Key/>

From Spud, VE1BC

New Equipment!!!!

SUN SDR-MB1 Stand Alone Transceiver made in Russia....ONLY 3000 EUROS (About \$4400.00 CDN) with All Options:

<http://www.cqdx.ru/ham/new-equipment/stand-alone-sdr-transceiver-sunsdr-mb1/>

Check out the Micom 4KW Linear Amplifier:

<http://www.cqdx.ru/ham/qro-qrp/micom4000-4-kw-power-linear-amplifier/>

Price "To Be Announced"! Oh Darn...it doesn't have 6M!!

More NEW Stuff: <http://www.cqdx.ru/ham/new-equipment/>

Enjoy - Ken VY2RU

Battle of the Atlantic Place, Halifax

Please watch the excellent video (link below) - part of the presentation at the unveiling of the Battle of the Atlantic Place Project design concept 23 January. The intent of this project is to permanently house HMCS Sackville, the last of 269 Flower Class corvettes that played a huge role in the winning of the crucial Battle of the Atlantic. Sackville is a living emblem of the huge national effort by Canadians in World War II to rise from an agrarian nation to a major industrial power and help the Allies defeat the Axis Powers.

Doug Thomas, Executive Director, Canadian Naval Memorial Trust

Battle of Atlantic Place - Design Concept

<http://www.youtube.com/watch?v=QcyXWAEK2b0>

"I particularly draw your attention to the YouTube video on Battle of the Atlantic Place. My father [Murray Knowles], possibly the last person alive to have commanded a corvette (HMCS Louisburg II), attended and was recognized at the concept unveiling yesterday at the Maritime Museum of the Atlantic."

Stephen Knowles

Published on Jan 21, 2014

When war was declared in 1939, Canada was primarily an agrarian country with a population of barely 11 million, limited industry and minimal military forces. Along with residents of the neighbouring colony of Newfoundland, Canadians across the nation quickly rose to the challenge of total mobilization. Britain's survival and the ultimate Allied victory in Europe were almost entirely dependent on the supply of men, materials, equipment and food from North America. As part of the Allied forces, Canadian ships and aircraft played a decisive role in this six-year campaign.

In 2011, the Canadian Naval Memorial Trust launched the Battle of the Atlantic Place Project to create an innovative experiential centre to celebrate the extraordinary national achievement of Canadians which enable the Battle of the Atlantic to be won, and to commemorate the service and sacrifice of those at sea and on the home front.

Discover why Battle of the Atlantic Place is of significant national importance, and what the Trust's design concept is for commemoration and celebration of our national achievement during Canada's 150th birthday in 2017, in this video released in January 2014.

Tokyo Hy-Power Ceases Trading....

Sent along by Ken, VY2RU

The Japanese amateur radio company Tokyo Hy-Power, well known for its high power linears for HF and VHF, has ceased trading

Tokyo Hy-Power Laboratory was founded in 1975 by Nobuki Wakabayashi JA1DJW in Saitama Prefecture near Tokyo, Japan. Their initial products were antenna couplers for HF bands such as the HC-500 and HC-2500.

In 1977, Tokyo Hy-Power Labs, Inc. was formally established as a developer and manufacturer of linear amplifiers, antenna tuners, etc. for radio amateurs. One of their early products, the HL-4000 linear amplifier using 8877/3CX1500A7 by EIMAC, was the first real HF band high-power linear of its kind in Japan.

As HF mobile operation grew in popularity, they developed fully-transistorized wide-band linears for mobile use such as the HL-200B and HL-400B.

In 1984 they started to manufacture RF power products for the industrial market. They developed RF switching mode technology used in 13.560 MHz RF power generators as well as other industrial and medical use products such as pulse high power and ultra wide band amplifiers.

In recent years they developed 3 KW VHF RF power generators together with a fast reacting auto impedance matcher used in the semiconductor manufacturing fabrication plants for advanced LSI chips.

(Continued on page 9)

There is always a lot to be thankful for, if you take the time to look. For example, I'm sitting here thinking how nice it is that wrinkles don't hurt.

Tokyo Hy-Power Ceases Trading....
(Continued from page 8)

Hamlife report in Google English
<http://tinyurl.com/Hamlife-Tokyo-Hy-Power>

The site is no longer available but a copy taken in August 2013 can be seen at:

<https://web.archive.org/web/20130822211226/http://www.thp.co.jp/>

At the time of writing the English language website was still available:
<http://www.tokyohypower.com/>

Japan once had more radio amateurs than any other nation but since 1996 the hobby has been in sharp decline with the number of amateur radio stations falling by over 65%, see:
<http://www.speroni.com/MPT/JA-Stations.html>

In reaction to Edward Snowden’s revelations regarding the NSA spying the Indian High Commission in London has reverted to typewriters to compose sensitive documents and no classified information is disclosed or discussed inside the building.

In 2013 a source at the Russian service in charge of safeguarding the Kremlin’s communications claimed that it returned to typewriters in the wake of the NSA leaking scandal.

From an article in the London Daily Telegraph by Ranul Bedi

The Maritime Amateur

Ham Radio
for Maritimers by Maritimers
www.maritimeamateur.ca

Groups Transmit “Hi” To Spacecraft Via Morse Code.

October, 2013 – The KCRG-TV Cedar Rapids, IA (10/10, Stinson) website reports how “University of Iowa scientists, students, ham radio buffs, and space enthusiasts” on Wednesday transmitted “Hi” to Juno via Morse code as it flew by the Earth. According to the article, Tony Rogers, president of the UI Amateur Radio Club, “jumped” at the opportunity to work on this project by coordinating efforts around the world. The group contacted “more than 350 ham radio stations in 18 countries and 40 states” to get as many people as possible to participate.”

Source - “Daily Brief”, 10 October 2013, American Institute of Aeronautics and Astronautics.

Passed on by Wayne, VE1WPH

AT&T Archives: Single Sideband, a 1977 film about microwave transmission

<http://youtu.be/ScOd3ExKFM8>

An Interesting 2 Minute Video

See more from the AT&T Archives at

<http://techchannel.att.com/archives>

This short film, made by Bell Laboratories in 1977, gives a basic overview of what single-sideband transmission consists of, and why it was implemented in the phone system that year. Single sideband transmission allowed the Bell System to carry a greater number of data, voice, and broadcast signals along the microwave network.

Single Sideband transmission was first recognized during the first overseas radio transmission tests conducted by the Bell System in concert with the U.S. Navy, in 1915. These tests took place at the U.S. Naval Radio Station in Arlington, Virginia, and were overseen by Harold D. Arnold of Bell Telephone (Bell Laboratories was formed later, in

1925). The tests built on scientific work by Raymond A. Heising and John Renshaw Carson at Bell Telephone and Western Electric.

The first cross-country microwave network call was placed in 1951. By 1977, the Bell System's microwave network carried 70% of the long-distance transmissions in the United States.

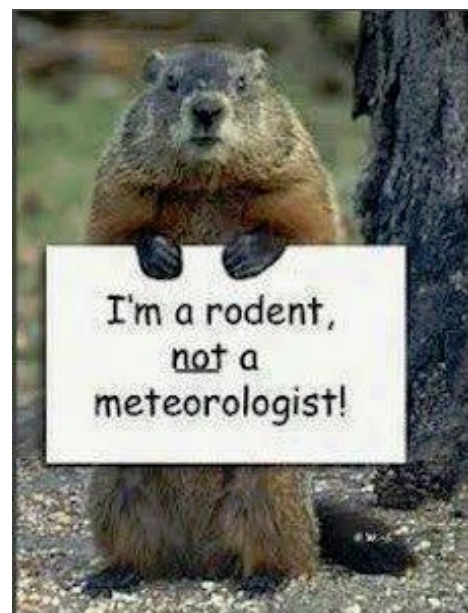
In 1974-77, new single sideband systems were tested in Georgia and Massachusetts: the plan was to bring this increased transmission capacity to the long distance network by 1980.

The microwave network continued to shoulder the bulk of the company's transmission capacity for another decade or so, but required a line-of-sight connection. As fiber optic transmission research and digital switching technologies made great strides in the 1980s, it became more feasible to fit a greater amount of information through fiber optic lines rather than relying on the microwave system.

The 1977 Massachusetts single sideband tests were of the AR6A system. A 1983 issue of the Bell System Technical Journal explains this technology and how it came about.

Footage Courtesy of AT&T Archives and History Center, Warren, NJ

Item sent in by Ken, VY2RU



Transatlantic Ham Radio balloon attempt. (as of Dec.4, 2013) Sent along by Ken, VY2RU

Jim, N2NXZ, launched a 1600g Hwoyee carrying amateur radio HF, VHF and UHF payloads from Rochester NY at 2128 UT on Tuesday, Dec.3, in an attempt to cross the Atlantic. Anthony M0UPU and Jim N2NXZ have supplied the following information:

- 1/ The balloon will be using a small tube in the bottom to prevent burst at sunrise.
- 2/ The balloon will be carrying two UKHAS format 70cms telemetry transmitters as follows :
 \$\$\$\$N2NXZ-1 434.550 MHz 50 Baud RTTY 7N2 500 shift
 \$\$\$\$N2NXZ-2 434.445 MHz 50 Baud RTTY 7N2 500 shift
- 3/ Both are continuous TX.

These are not equipped with TCXO's so this frequency may be +/- some arbitrary amount. In addition, N2NXZ-2 is equipped with a Euro/Azores frequency (144.800 MHz) APRS transmitter which will transmit below 300 meters

and then is geofenced so it won't transmit until ~ 400km from Azores, or > -15 longitude subject to normal euro legislation geofencing, call sign will be N2NXZ-12 with country prefix in comments i.e CU/N2NXZ-12.

Finally there will be a 50mW 10 meter CW beacon on 28.219 MHz which is transmitting N2NXZ/BLN/6 and repeats every 10 seconds @ 10 wpm.

We welcome listeners as always live chat here:

<http://webchat.freenode.net/?channels=highaltitude>

APRS track, try N2NXZ-11 or N2NXZ-12 <http://aprs.fi/>

Live Balloon Tracking

<http://spacenear.us/tracker/>

Beginners Guide to Tracking using dl-fldigi

http://ukhas.org.uk/guides:tracking_guide

To get up-to-date information on balloon flights subscribe to the UKHAS Mailing List by sending a blank email to this address:

ukhas+subscribe@googlegroups.com



The membership year is from January 1 to December 31.

All members receive the newsletter.

HALIFAX AMATEUR RADIO CLUB MEMBERSHIP - For 2014

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