



REFLECTOR

PO BOX 8895
HALIFAX NS
B3K 5M5

March 2012, Volume 73 Number 3

club web site is www.halifax-arc.org



Plan to Come to the
DownEast Flea Market on May 26



HARC Club Station phone number - 490-6421

Executive

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

Committees/Offices/Prime Contacts

Government liaison - VACANT
 QSL Bureau Mgr - Tom Caithness, VE1GTC 477-7081 tom.caithness@ns.sympatico.ca
 EMO Coordinator - Dave George, VE1AJP 466-8723 dgeorge@dal.ca
 EMO Trailer coordinator - David Musgrave, VE1EDA 435-4333 ve1eda@rac.ca
 Reflector editor - Lynn Bowser, VE1ENT 865-8567 bowser.elliott@ns.sympatico.ca
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 Membership - Carol Wood, VE1HAZ carolwood@accesswave.ca
 Web page - Frank Smith, VE1FIS frankiansmith@gmail.com
 Basic ham course - Barry Diggins, VE1TRI 861-3719 ve1tri@rac.ca
 2011 Flea market Chair - David Nimmo, VE1NN 462-3945 dnimmo@bellaliant.net
 Callbook Editor - Howard Dickson, VE1DHD, 823-2024 dh dickson@eastlink.ca
 Field Day coordinator - VACANT
 Safety Officer - Terry Bigelow, VE1TRB ve1trb@eastlink.ca
 NSARA Director - Barry Diggins, VE1TRI 861-3719 ve1tri@rac.ca
 Honorary Legal Counsel - Paul Radford, VE1ARH

Non Club Contacts

RAC Atlantic Director - Everett Price, VO1DK vo1dk@rac.ca
 RAC Section Manager - Jim Langille, VE1JBL (902) 667-1485 ve1jbl@eastlink.ca
 RAC Assistant Director for HRM Scott Wood, VE1QD, 823-2761 ve1qd@rac.ca

The **March General Meeting** of the Halifax Amateur Radio Club will take place Wednesday, March 21, 2012 in the club rooms on the 2nd Floor of the St. Andrew's Centre, 3380 Barnstead Lane, Halifax
 6:30 pm. - 7:30 pm - Social Hr
 7:30 pm - 8:20 pm - Presentation "The Titanic Era - What You May Not Know" by Spud Roscoe, VE1BC
 8:30 pm - 9:30 pm - General Meeting.
 Door Prize: will be a \$20 Canadian Tire gift card
 Guests are welcome.

The **DownEast Flea Market** is put on by the Halifax and the Dartmouth Amateur Radio Clubs. Located near the middle of Nova Scotia, and timed for about the end of May, this event is your spring opportunity to see fellow hams, browse, buy & sell radio equipment and "start" the new radio season.

Deadline for submissions to the April Reflector is Saturday, April 7, 2012

Take-15 Net Controllers

This will be the rotation. We would like at least 1 more. **If you want to join**, let Bill Elliott, VE1MR, know.



March 18	Erik	VE1JEH
March 25	Doug	VE1LDL
April 1	Bruce	VE1MLW
April 8	Emil	VE1ESP
April 15	Bob	VE1PQ
April 22	Win	VE1WIN

Puzzler - Do you know?

What is the significance of Maxwell's equations



Answer is on pg. 10

Sign At the Electric Company

We would be delighted if you send in your payment. However, if you don't, you will be.

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

March – NSARA – Phone March 11 and CW / Digital March 25.
 A Fall Protection Training course will be presented either a Saturday or Sunday in April or May.
 – See page 3, for more details

May 26/12 – DownEast Flea Market
 7:30AM Open for Sellers
 9:00AM Open for Buyers
 Noon - Final Draw & pack up

May 27 – MS Walk – Contact Tom, VE1GTC

June 23-24 – ARRL Field Day

July 28 & 29, – MS Bike Tour
 Contact Rick Gardner, VE1RGG, to help with communications

July, last full weekend – IOTA (Islands On The Air) contest

June 2 & 3 – Museum Ships Special Event

July 18 & August 15 – Pizza nights

HARC Meetings – Speakers

April 18, 2012 – Speaker will be Barry Manuel – presentation entitled “Updated EOC”.
 Door prize will be a \$20 Canadian Tire gift card.


May 16, 2012 – Speaker will be Scott Wood – presentation entitled “Celebrating Ham Radio Anniversaries, But Still Looking Ahead”. Scott is celebrating his 60th anniversary as an amateur and wanted to celebrate this anniversary along with those of other long-time hams, some of whom will also speak at this meeting. Scott and the other speakers will also look ahead to the future of amateur radio. As well, there will be special refreshments served during the social hour at this meeting.
 Door prize will be a \$20 Canadian Tire gift card.

I never drink water because of the disgusting things that fish do in it.
 -- W.C. Fields

Downeast Flea Market

Date: Saturday, May 26
Location: Halifax Forum (Bingo Annex) - same as last year - corner Yonge and Windsor streets.
 Lots of parking.
TALK-IN: 147.27 + 
Times:
 Doors open for Sellers – 7:30 AM
 Doors open to Public - 9AM
 Tables: **FREE ! BUT** reserve by contacting David, VE1NN by phone at 462-3945 or email dnimmo@bellaliant.net

Admission: \$4.00 per head for everybody

Enjoy:
 a) a Friday night "social"
 b) reduced rates the Chebuctou Inn 
 c) casual breakfast at the Steak & Stein before the Fleamarket.
 d) door prizes & draws
 e) the NSARA meeting immediately following fleamarket at same venue
 f) **The NEW 2012 Maritime Call Book will be available.**
 G) commercial sellers

To help out contact FleaMarket Co-ordinator David Nimmo at dnimmo@bellaliant.net

And come participate (browse, sell, buy, socialize & “do”) on the day.



ANNUAL MS BIKE TOUR AND MS WALK

The Club has again been requested to take part in these Worthwhile Events. Rick Gardner VE1RGG has again agreed to co-ordinate the Bike Tour. Tom, Caithness, VE1GTC has volunteered to co-ordinate the MS walk which takes place in Halifax on May 27 2012. Several club members annually volunteer to provide radio communications. . If you are willing to volunteer. please Contact Tom, VE1GTC.
 Fraser, VE1WO

The Brit Fader Scholarship is intended to assist with post-secondary education for a young Canadian Radio Amateur. Please inform potential candidates about this opportunity. 
 The time to submit 2012 applications is not too far off.

To keep the scholarship fund self-sustaining the fund needs donations. Please make an income tax deductible donation to
 The Brit Fader Scholarship fund.

The **Club station** is a good space for ham radio activities. **Please reserve your date & time** with Station Manager Jim, VE1JIM by phone at 443-8657 or e-mail ve1jim@ns.sympatico.ca

A day without sunshine is like, well, night.

Your help is needed!

The club is looking for radio amateurs of all qualification **to operate at the Discovery Centre on the weekends.** Small groups of operators will spend about 4 hours in a relaxed atmosphere operating and answering questions.
 This is a small amount of time to dedicate. We need to promote our hobby. At most of our meeting we hear of SK. We do not hear about new hams!
 Please contact John, VE1CDD, for more information by:
 Phone 865-5731 or e-mail ve1cdd@gmail.com

The Web site of the ARRL is www.arrl.org For information concerning radio propagation, visit the ARRL Technical Information Service Propagation page.

PRESIDENT'S MESSAGE for MARCH 2012

We are back in Nova Scotia; Lola and I had a very enjoyable month in Florida. I would like to thank the Executive for there efforts in my absence.

The Ham Breakfast was a success; Betty reported that there were 27 Guests at Toms in Sackville. Everyone enjoyed the meal and the social gathering.

The GOTA Event was well attended at the Club Station on 18 February. There were 28 Brownies, Guides and Leaders attending the two sessions. Various aspects of Amateur Radio were demonstrated. Special thanks to the Club Members who were present to make this worthwhile event possible.

The Amateur Radio Station at the Discovery Center will be in operation on the 14th of March. Please feel free to drop in and take part in this activity.

The Entertainment at the March Regular Meeting will be Spud VE1BC who make a presentation entitled "Titanic Era, What You May Not Know". This should be a very entertaining evening. Remember, the social portion of the meeting begins at 6:30.

Fraser Mac Dougall, VE1WO

Executive Reports for March, 2012

1st Vice President's Report

Nothing to report
- Bill Elliott, VE1MR

Second Vice-President's Report
Betty, VE1BSW

The HARC Ham Breakfast held at Tom's Family Restaurant in Sackville on February 25 was attended by 27 people and was enjoyed by all.

Are you up to date with your HARC membership dues?

Yearly rates are:
Full = \$25 Associate = \$15
Family (2 members) = \$35 + \$10 for each additional family member at the same address (receive only 1 newsletter). Use the Membership form on page 10 of this Reflector or contact Membership Chair Carol Wood, VE1HAZ,
carolwood@accesswave.ca

Visit the NSARA website:
<http://nsara.ve1cfy.net/>

Station Manger's Report

Jim Flowers, VE1JIM

The club has obtained a new Fire Extinguisher and the unit is mounted just inside the main door of the Club. The Station clean up is progressing, the Wall Plaques have been have been updated and are back in place; the cost of the engraving was \$ 27.60. The station requires a replacement radio for the existing VHF unit; repairs are required also it does not fill our requirements to EMO and should be replaced by a Dual Band VHF / UHF unit. This will be presented to Executive for consideration.

Do you have a mobile or portable radio that is D-Star capable? There is now a D-Star repeater located at Church Lake not far from Bridgewater. If you're in the area give it a try! 145.290 -

Once you're in heaven, do you get stuck wearing the clothes you were buried in for eternity?

To All Members of H.A.R.C.

No entrance will be given to the Halifax Amateur Radio Club by the Staff of St Andrews. Each member of the H.A.R.C. in good standing is entitled to have a card activated to allow them access. If you don't have a card activated for **access**, **NO ACCESS** will be allowed.



You may have a card activated by coming to the club station between 9-11 A.M. Mon to Fri most days and on most Sat mornings between 9-11 A.M. and general meeting nights.



You can call ahead at 902-490-6421 to see if someone is at the club station.

If there are any questions regarding this letter, please contact the Station Manager or any of the Executive of H. A.R.C. who will be glad to assist.

Jim Flowers, VE1JIM, Stn Mgr
902-490-6421(club)

Fall Protection Training for 2012

HARC Safety Officer Terry, VE1TRB, plans on running the course when he has enough people. So far there are only three. He has the trainer coming in for \$300.00 flat rate no matter how many people attend, so as you can see, the more attending, the better. Because of the cost in running the course, Terry needs at least 6 people (more if at all possible) before setting up a date. If you happen to know of anyone else who may be interested, please have them email Terry. If you happen to know a ham that would like to take the training but is not a member of the club, they can get their membership for the regular price and attend the course for free! What a great deal eh???

Anyway, he wants 6 to 8 people to sign up for the course before arranging for the trainer come in.

E-mail Terry at
trbigelow@eastlink.ca or
ve1trb@eastlink.ca



From the RAC Report, Feb., 2012
Good News from WRC-12: A New Band by Bryan Rawlins, VE3QN
 – Amateur Representative on the WRC12 Canadian Delegation

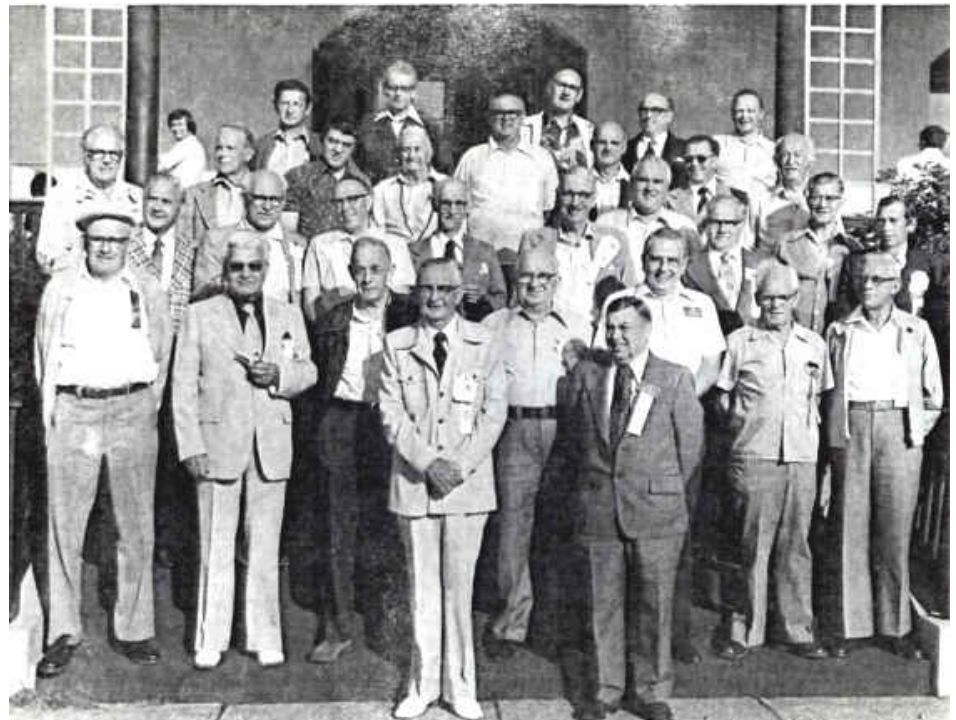
At its Plenary meeting held on February 14, 2012 in Geneva, the World Radiocommunication Conference approved a new secondary frequency allocation to the Amateur Radio Service at 472 to 479 kHz. Having passed First and Second Readings it is normally a formality that this change be included in the WRC-12 Final Acts when the Conference concludes February 17. The Table of Frequency Allocations would then be amended accordingly.

The new band at 600 metres will represent the return of Amateurs to the medium waves – an area of spectrum we have not had access to since the earliest days of radio regulation.

As a secondary user, Amateur Radio shares 472 to 479 kHz with the Maritime Mobile Service who are the primary user in all three ITU Regions and with the Aeronautical Radionavigation Service who are a Secondary user except as noted in the following.

The new allocation to the Amateur service is accompanied by several footnotes including, i) a number of countries will identify their intent to elevate the status of their Aeronautical Radionavigation Service to Primary as a step in ensuring protection from secondary users, and ii) the power which Radio Amateurs may use in 472 to 479 kHz will be limited to 5 watts (eirp) except for Amateur stations within 800 kilometres of the borders of a number of countries – principally Russia, many of the former Soviet bloc and the Arab states. For those affected Amateurs the limit will be 1 watt.

It is, of course, up to individual administrations to authorize use of the band by their Amateurs. In the case of Canada, it seems certain that such authorization will be forthcoming; however, the process which has to be



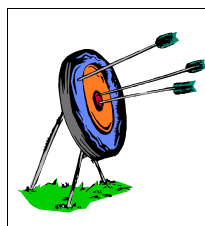
“Here's an oldie for you. The only two I know are Wayne Mills father, VE1NZ (Wimpy), and Bret Fader, VE1FQ.” - John Brady, VE1WZ

followed may take some time.

Canadian Radio Amateurs have played a central role in arriving at this successful outcome. The documents submitted through the ITU in support of this allocation were largely authored by Canadian Amateurs – as was the important work done in assessing the efficiency of the antennas Radio Amateurs would likely use.

Canadian Amateurs have been present at ITU meetings in Geneva since 2009 to advance the cause of this allocation. Our regulator, Industry Canada, has been outstanding in their support of our work and in ensuring today's success.

Finally, our colleagues in the IARU, ARRL, RSGB, and DARC have all played major roles.



To be sure of hitting the target, shoot first then call whatever you hit “the target.”

From the ARRL Letter for Feb.9, 2012
ARRL Field Day: 2012 Field Day Packet Now Available

It's that time of year again -- time to start gearing up for ARRL Field Day, June 23-24, 2012! ARRL's flagship operating event -- always held the fourth full weekend in June -- brings together new and experienced hams for 24 hours of operating fun. Field Day packets are now available for download and include the complete rules, as well as other reference items such as forms, ARRL Section abbreviation list, entry submission instructions, a Frequently Asked Questions section, guidelines for getting bonus points, instructions for GOTA stations and a kit to publicize your event with the local press. A brief one-page flyer with basic "What is Field Day" information has also been included in this year's Field Day packet. Amateur Radio clubs and individuals are encouraged to reproduce this flyer as a handout for information tables.

The CW for "@" is di-dah-dah-di-dah-dit

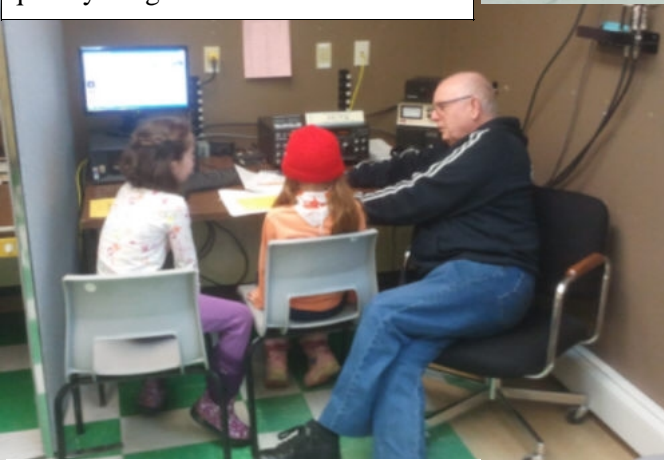
GOTA 2012

It seems like only yesterday we were participating in the 2011 GOTA or, as some guiders call it, "Thinking Day". This year we had two visiting groups. In the morning we had a group of Guides, while in the afternoon it was a group of Brownies. There were approximately 10 girls in each group as well as a number of leaders. The morning guides had been to the station a number of times before and were comfortable at the mike. It was the first time for the Brownies, but they quickly caught on.

A "Send your name in CW" lesson with Tom, VE1GTC



Photos by Doug, VE1LDL
Doug also demonstrated Paclink



Jim, VE1JIM, manned the HF station

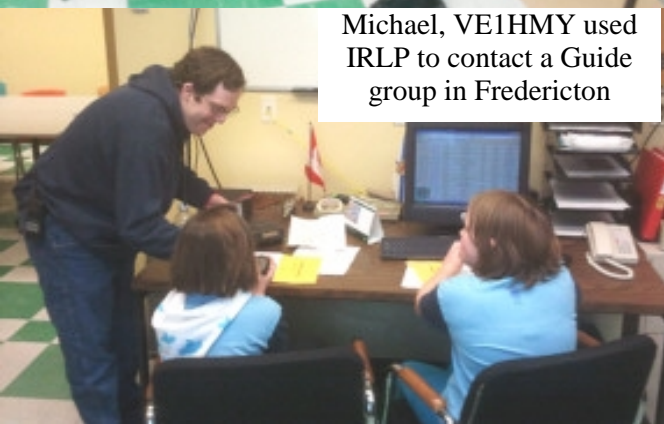
The Club Station was manned by Tom (VE1GTC), Jim (VE1JIM), Doug (VE1LDL), Mike (VE1HMY) and myself (VE1CDD).. We assisted the girls with VHF, IRLP, HF, CW and VOIP contacts.

Tom looked after teaching the girls to send their names in CW and gave each one a certificate when she completed the task. Jim manned the HF station and allowed them to chat with a number of hams as well as a Boy Scout troop. Mike contacted a Guide group in Fredericton, NB, who were having a sleep over in a church basement. The girls got to talk with other girls their own age. Mike also had further contacts with other hams via IRLP. I used Echolink and CQ100 and contacts were made worldwide.

I found the hams on CQ100 and Echolink more than helpful. There was no lack of operators willing to chat. They spent extended periods of time chatting with the young ladies and by asking numerous of questions, encouraged them to continue the conversation.

The girls spent over two hours at the Club Station and before they left, we provided them with pop and cookies. They teased us, by promising e Cookies" maybe even the mint ones.

It was a relaxing and enjoyable day for all who participated.



Michael, VE1HMY used IRLP to contact a Guide group in Fredericton



John, VE1CDD, using Echolink and CQ100 to make contacts



**Halifax Amateur Radio Club
Minutes of the General Monthly
Meeting of
Wednesday, February 15th 2012**

The February HARC meeting was preceded by a Social Hour and a talk by Fred Archibald (VE1FA) entitled "Enigma and A Trip to Bletchley Park". This was a fascinating overview of the history of the Enigma Machine development and deployment during WWII and how the allied forces were able to decipher the daily codes used to program this encryption device. Thanks to Fred for a fascinating talk.

First Vice-President Bill (VE1MR) called the formal monthly meeting to order at 1930 with ?? members in attendance.

Executive in attendance:

Bill Elliott (VE1MR) – First Vice-President; Betty Caithness (VE1BSW) – Second Vice-President; Doug (VE1 LDL) – Member-at-Large; Jim Flowers (VE1JIM) – Station Manager.

Regrets: Fraser MacDougall (VE1WO) – President; John Goodwin (VE1CDD) – Treasurer.

Approval of Agenda – Bill explained that we were not able to project the agenda this evening. However, he ran through the topics to be covered and with no additions requested, the agenda was approved on a motion by Tom (VE1GTC), seconded by Jim (VE1JIM).

Silent Keys: VE1OD – Elmer Naugler - Halifax

Guests: Chris McDonald – VE1LX – Dartmouth (New Member)

Minutes of the monthly meeting of January 18th 2012

MOTION - It was noted that the date at the top of the published minutes read November 2011. With the change of the date, approval of the minutes of the January monthly meeting as published in the February 2012 *Reflector* was moved by Betty (VE1BSW) and seconded by Erik (VE1JEH).

Motion carried.

Executive Reports:

Treasurer – John (VE1CDD) – in John's absence, there was no Treasurer's report; reporting was deferred to the March meeting.

All other Executive reports were published in the February edition of the HARC *Reflector*.

Committee Reports:

EMO – Dave (VE1AJP) – reported that there a survey was conducted to see how many of the Radio Amateurs on our emergency communicator call list were prepared to continue; we now have a confirmed list of twenty to thirty committed volunteer communicators prepared to help in an emergency. Tom (VE1GTC) indicated that because it has been some time since most have had emergency communication training; there is a plan to run a refresher (recertification) course later this spring in conjunction with the basic emergency communications training course. Anyone wishing to take the course should contact Tom or Dave Musgrave (VE1EDA).

Search & Rescue – Dave (VE1AJP) – Dave reported on the teething pains that they have experienced with their 15K generator on the Command Bus. Next, he reported on a training exercise that was conducted to assess the new digital repeater that has been purchased for their groups. A fault was identified with the use of one of the portable repeaters that will be looked into. Dave also reported on some water issues with the S&R building. Finally, Dave informed the group that there will be a S&R fundraiser at the Sunnyside Mall in Bedford this coming weekend.

Callbook – Howard (VE1DHD) Callbook Editor reported that work on the 2012 Callbook is proceeding ahead of the planned target. The printer has provided a final price for the printing of 1000 books and the price structure will be the same as in 2012 (to be published in the March *Reflector*) but the cost per single book purchase will be

\$15.00. The main outstanding issue is the inclusion of the callsign database. Proofreading is underway and books will be available for sale at the Downeast Flea Market in May.

Membership – Carol (VE1HAZ) reported that the Club has 110 full paid-up members; 29 Associate and 4 Life members. Carol reminded the membership that for those who have not renewed by April, the last copy of the *Reflector* will be March.

Old Business:

Discovery Centre – Bill indicated that John (VE1CDD) now has a complete station set up at the Centre and is committed to having operators on site each week to demonstrate and promote Amateur Radio. Chris (VE1LX) indicated that the Club has been on air three times but that the audience is very young (5 to 8 years) so the real interest is shown by parents who are accompanying them.

Titanic Event (Maritime Museum of the Atlantic) – Bill reported that John (VE1CDD) is working with the Museum to put on a CW radio demonstration at the Museum on the weekend of April 14th - the 100th anniversary of the sinking of the Titanic. John hopes to get a special anniversary callsign that can be used at the Museum and by Club members operating from the Club Station during the month of April for this anniversary celebration.

Club Secretary – Bill reminded the membership that the Club still does not have a Secretary (Howard is only assisting this evening to take the minutes but is NOT volunteering to be the Secretary; he is too busy with the Callbook). He again appealed to the membership to consider assisting with this important Club function. There were no volunteers.

New Business:

Climbing Certificate

(Recertification) – Bill reminded the group that the Club will cover the cost for those who wish to take the Climbing Course or for those who

(Continued on page 7)

Announcing IRLP Topic Channels from Ken, VY2RU

A new activity is coming to Amateur Radio. Beginning in March 2012, the Internet Radio Linking Project (IRLP) will host IRLP Topic Channels. Interested in history? Media? DX? There's an IRLP topic channel for you.

With nearly 3000 IRLP nodes worldwide, amateur radio operators can access a nearby IRLP node or repeater. Or, they can build an IRLP node, or even buy a plug-and-play node and join the conversation today.

There are nearly thirty reflectors scattered around the world that make it possible for nodes to talk to one another. Each reflector has ten channels and most of these go unused. The owners of these reflectors have contributed more than twenty channels for topic based discussions.

There is an IRLP Topic Lounge that serves as the meeting place for the IRLP Topic Channels. Then there are six channels with topics like DX, sports, movies and media, history and current events, emergency communications, and even the meaning of life itself. Then there are three flex channels that change periodically. These now include election 2012, stamp collecting and "the next new thing". The number of channels is expected to increase as interest in new topics develops.

The IRLP Topic Channels is the brainchild of Michael Bloom, W7RAT, and is sponsored by the Oregon Radio Internet Group, a radio club established to promote the use of voice of internet combined with actual ham radio. IRLP Topic Channels is supported by reflector owners in the US, Australia, Canada, and Norway. While IRLP is the backbone of the system some topic channels will provide access via Echolink and other VOIP systems.

The IRLP system was designed in 1998 by David Cameron VE7LTD who has volunteered channels on his own reflectors for this project. For more information on using IRLP visit www.irlp.net. The first group of topics and channels is expected to be published in the April issue of QST Magazine.

For the latest list of channels visit www.irlptopics.net for the latest topics or to suggest your own.

The aim of the Internet Radio Linking Project (IRLP) is to provide a simple and easy system to link radio systems from around the world together using the internet as the communications backbone. The IRLP operates a network of dedicated servers and nodes offering very stable worldwide voice communications between thousands of towns and cities, with unsurpassed reliability and telephone quality audio.

- From the 2012 callbook

Dear World,

Please stop freaking out about 2012. Our calendar ends there because some Spanish dirtbags invaded our country and we got a little busy ok? Sincerely, the Mayans

Silent Key

Earle Smith, VE6NM

It is with regret that Radio Amateurs of Canada has learned that Earle Smith, VE6NM, a RAC Past-President, passed away peacefully after an illness on Friday, Feb. 24.

Earle had served as President of RAC from late 2004 to the end of 2007 and was well respected by Amateur Radio operators both within Canada and Internationally. He was a gentleman and friend to all hams and a strong advocate for Amateur Radio and for the Radio Amateurs of Canada.

- Geoff Bawden, VE4BAW
- RAC President (ve4baw@rac.ca)

Minutes (Continued from page 6)

need recertification. The idea is that trained climbers will assist other Club members when tower climbing is required. A list of currently-certified climbers was published in the February *Reflector*.

Guides on the Air – Bill reminded members that this weekend (February 18/19) is Girl Guides on the Air weekend and that John (VE1CDD) along with Tom (VE1GTC), Terry (VE1TRB) and Jim (VE1JIM) will be in the Club Station to assist getting the young girls on the air.

Club QSL Manager – Bill reported that Win (VE1WIN) is no longer able to serve as the QSL Manager for the Club callsigns and asked if there was anyone willing to take on this task for the Club. There were no volunteers.

Announcements – Scott (VE1QD) reported that the IARU, through the current WARC 2012 conference has allocated the 472 – 479 KHz spectrum (just below the broadcast band) as a 5 W output secondary band allocation to Amateur Radio; this spectrum is also shared with aeronautical purposes.

Tom (VE1GTC) informed the group that the Club now has PowerPole connectors for sale - \$12.50/10 pair of poles.

50:50 Draw – the draw (\$23.50) was won by Tom (VE1BMJ).

Door Prizes – Bob (VE1QC) was the winner of a \$20.00 gift certificate at Future Shop

Motion – Moved by Scott (VE1QD) that the meeting be adjourned at 21:21 hrs.

Respectfully submitted by:
D. Howard Dickson – VE1DHD
February 16, 2012.

For information on the Seventh Annual ARRL Photo Contest go to <http://www.arrl.org/news/enter-the-seventh-annual-arrl-photo-contest> Entries must be received at ARRL HQ by May 31, 2012.

From the Mail Bag

The Maritime Net is on 3.750
at 7 PM daily.

Subject: Maritime Amateur

Greetings all,

I am not one to send out emails looking for support and if you are already a member of The Maritime Amateur, please disregard..

I am sending this one message and one message only out to all amateurs that I have in my address book. Over the past four years I have put much time and effort into The Maritime Amateur website www.maritimeamateur.ca. I started this site back in March 2008 to promote amateur radio in the Maritimes and also so that amateurs could have a place to go to find what is happening with amateur radio in their neighbourhood.

It has been very rewarding starting from a one page website to what is has grown into. I have had many positive comments which makes me more determined to continue with the site. This site would not work without the help of the amateur radio community. I made this site, but it is you who has kept it running. Ham Radio by Maritimers for Maritimers.

There has been over 37 thousand hits on the site, hundreds of pieces of information sent in by amateurs to put on the site and at this writing 77 members.

You can become a member of this site by going to the website and clicking on Members. Once there you will see a block that says Join Site. Once you click on there you will need to enter some information, email address, new password, location and display name. If joining, in the display name, please enter first name and callsign. You can also add a picture of yourself so that others can see the face that goes along with the voice.

Once you are a member you can join the Maritime Forum, posts comments and even start your own forum idea. Also as a member, you can start a Photo Gallery and add to ones that are already there.

I will send out an email blast once a month to let you know any changes to the website and any news of importance. I have made the site easy to navigate. I try to update the site each day to keep it fresh.

Consider becoming a member of this site for amateur radio operators here in the Maritimes.

If not, no problem, just enjoy reading and promoting the site to your friends. Thanks for reading,

73, James (Jim) Langille VE1JBL

The best Morse code teaching program can be found at <http://www.g4fon.net/>.

It has been tested to death and shown to be optimum. There are two primary advantages: (a) the student is entirely in control of the rate at which he or she may progress in learning the code, and (b) the characters that are sent by the program are not unnaturally slow but are sent, individually, at a speed consistent with what the operator will hear in the real world. This is known as the Koch method of learning and was widely used by both the military and Coast Guard when both those agencies employed CW for communication.

Gary, VE1RGB

A great 1/2 hour film about British Amateur Radio Ops working on sigint during WW II. (Thanks to Jerry Proc VE3FAB).

<http://www.eafa.org.uk/catalogue/5108>

I thought maybe ... you could pass this on to those interested.

Regards, Tom, VA3FY

Blessed are those who can give without remembering and take without forgetting.

From the RAC Report, Feb., 2012
Amateur of the Year for 2011
by Paul Burggraaf, VO1PRB
– RAC Corporate Secretary

The RAC Board of Directors takes great pleasure in announcing the selection of Dr. Cezar Trifu, VE3LYC, of Kingston, Ontario as the Canadian Radio Amateur of the Year for 2011.

Dr. Trifu exemplifies the Canadian Amateur with numerous IOTA DXpeditions since 2008 covering Canadian Islands and recently overseas islands. He has raised the profile of Canadian Amateur operations worldwide with thousands of QSOs with DXCCs covering over 6 continents.

His dedication to HF operations has been recognized with the DXCC Honour Roll, IOTA Honour Roll, IOTA Gold Level Awards, Canadian Islands Award and US Islands Award to name a short list of numerous awards. Cezar has also raised the national and international awareness of the Canadian Amateur scene with over 20 multi-language articles in several Amateur journals.

A presentation will be made to Dr. Trifu in the coming weeks with an article and more on his nomination to appear in the May-June 2012 issue of The Canadian Amateur magazine.

Do you have pictures, an interesting or funny radio-related story, an article or a question you would like to share via the HARC Reflector? Please send it/them to Lynn, at bowser.elliott@ns.sympatico.ca Please show "For Reflector" in the "Subject" box so I don't miss it.

Halifax Information Radio 97.9 FM in the event of emergency becomes a communications arm of EMO. The ham repeater on the EMO trailer operates on 145.410 -

Hire a teenager, ... while they still know everything.

From the ARRL Letter for Feb.9, 2012

WRC-12: Nobel Laureate Joe Taylor, K1JT, Addresses Plenary Session at WRC-12, Receives ITU Gold Medal

On February 3, delegates and attendees at the 2012 World Radiocommunication Conference had the pleasure of listening Joe Taylor, K1JT, share his vision of the future of radiocommunication. Taylor -- an ARRL Member -- won the Nobel Prize in physics in 1993 for the discovery of a binary pulsar, a discovery which has opened up new possibilities for the study of gravitation.

http://www.nobelprize.org/nobel_prizes/physics/laureates/1993/
After the speech, International Telecommunication Union Secretary General Dr Hamadoun Touré, HB9EHT, presented Taylor with the ITU Gold Medal in recognition of Taylor's outstanding contribution to the research in the field of radiocommunication.

Dr Touré introduced Taylor to the Plenary. In his introduction, he told the audience that Amateur Radio led to Taylor's career as a radio astronomer, and ultimately to his winning the Nobel Prize: "I'm told that an early interest in Amateur Radio led Joe Taylor to an exciting career in radio astronomy, which then earned him the 1993 Nobel Prize in physics. I share his interest in Amateur Radio with passion, but will that lead me to a Nobel Prize? I'm working on it!"

Taylor began his speech by thanking the WRC-12 delegates for the job they were doing at the Conference. "I understand that you have come to Geneva from more than 150 of the ITU's Member States," he said. "You are here to do an important job, an essential one, for nearly all of humanity in today's world. You are charged to do your utmost to accommodate the wide variety of competing interests of all users of the radio frequency spectrum and its available orbits for Earth satellites. This is

surely not an easy task. Most people give very little thought to the complicated issues that you face. Why should they, since for most of us, most of the time, the technologies that depend on these limited resources just seem to work. But I know, and each one of you knows, that much background work and many long negotiations are often necessary in order to make everything fit together and work in harmony."

Taylor noted new discoveries "that have fundamentally changed or expanded our understanding of nature's laws, or might do so in the near future." But, he said, these discoveries will not affect the ITU or future WRCs for "at least not for many decades to come. This is because our fundamental understanding of electromagnetism is already in a mature state. Maxwell's equations, after all, have been thoroughly tested now for 150 years. And in principle, they tell us everything we need to know in order to exploit the wonders of telecommunications at the speed of light. Our understanding of these laws of nature, including what they tell us is possible and not possible, is not likely to change, even in the more distant future. But of course we can still develop new and improved ways of generating, controlling and detecting electromagnetic radiation, as well as clever new ways of effectively sharing the spectral resources that we have. Such advances as these will surely continue, and perhaps they will even increase. The fundamental science may be mature, but technology's ability to exploit and build upon electromagnetic phenomena is still rapidly developing.

"It's interesting to comment in passing on the fundamental differences between the bounded radio frequency spectrum and the balance, for example, on accessible fossil fuels. Limitations of the radio spectrum are a result of fundamental

laws of nature. Every nation on Earth, and indeed every person on Earth, has access, in principle, to the same spectrum as everyone else. The amount of accessible oil, on the other hand, depends on the much more complicated way on how the Earth formed and evolved over time, and fossil fuels are not evenly distributed over the Earth and they are expendable. When it's gone, there's none left. The electromagnetic spectrum, on the other hand, will always be there, whether or not we humans are around here to enjoy using it. Moreover, the spectrum can be shared by many users simultaneously, and shared use can be especially effective if adequate planning is done in advance. That planning, of course, is an essential part of your assignments here.

"Future technologies will surely make even better uses of wireless communication than we do today. I foresee plenty of scope for contributions for new technologies. Information and communication technologies have much to offer for the betterment of the human condition everywhere, and perhaps especially so in the developing world. It is extremely important to continue seeking the best efficiencies in the use of the spectrum. I wish you every success in your task of creating wise and fair guidelines for regulators and policy makers who must allocate the limited resources in the very best interest of all mankind."

You can view Taylor's speech on YouTube, courtesy of Andy Clegg, W4JE at

<http://www.youtube.com/watch?v=F028RkKLeFl>

After Taylor's speech, Touré presented him with the ITU Gold Medal in recognition of Taylor's outstanding contribution to the research in the field of radiocommunication.

A diplomat is someone who can tell you to go to hell in such a way that you will look forward to the trip.



Answer to Puzzler on page 1

Conceptually, **Maxwell's equations** describe how electric charges and electric currents act as sources for the electric and magnetic fields. Further, it describes how a time varying electric field generates a time varying magnetic field and vice versa. (See below for a mathematical description of these laws.) Of the four equations, two of them, Gauss's law and Gauss's law for magnetism, describe how the fields emanate from charges. (For the magnetic field there is no magnetic charge and therefore magnetic fields lines neither begin nor end anywhere.) The other two equations describe how the fields 'circulate' around their respective sources; the magnetic field 'circulates' around electric currents and time varying electric field in Ampère's law with Maxwell's correction, while the electric field 'circulates' around time varying magnetic fields in Faraday's law.

Source: Wikipedia

http://en.wikipedia.org/wiki/Maxwell%27s_equations

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>

Actual exchange between pilot and control tower:

From an unknown aircraft waiting in a very long takeoff queue: "I'M F....ING BORED!"
Ground Traffic Control: "LAST AIRCRAFT TRANSMITTING, IDENTIFY YOURSELF IMMEDIATELY!"



Unknown aircraft: "I SAID I WAS F....ING BORED, NOT F...ING STUPID!"



The membership year is from January 1 to December 31.

All members receive the newsletter.

HALIFAX AMATEUR RADIO CLUB MEMBERSHIP - For 2012

- Same address as last year New address
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