Journal of the Lakehead Amateur Radio Club

Thunder Bay, Ontario

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Emergency Preparedness Week (EP Week) is an annual event that takes place each year during the first full week of May and is an opportunity to encourage Canadians to take concrete actions to be better prepared to protect themselves and their families during emergencies.
For more information, please contact info@GetPrepared.ca or call 1-800-830-3118.

This national event is coordinated by Public Safety Canada, in close collaboration with the provinces and territories and partners.

Manitoba
Manitoba Emergency Measures Organization
Telephone: (204) 945-4772 / Toll-free: 1-888-267-8298
www.manitobaemo.ca

Ontario
Office of the Fire Marshal and Emergency Management
Telephone: (647) 329-1100 / Toll-free 24 Hour line: 1-800-565-1842
www.ontario.ca/beprepared

Royal Wedding special call sign GR9RW: May 19-23

The special call sign GR9RW will be active for five days in May to mark the occasion of the Royal Wedding between His Royal Highness Prince Harry and Ms. Megan Markle, which is due to take place on May 19, 2018 at St. George's Chapel in Windsor Castle in England.
This commemorative Amateur Radio station will be operated by members of the Cray Valley Radio Society from Eltham in southeast London, in the United Kingdom.
Ofcom, the communications regulator in the United Kingdom, has issued this unique Special Event call sign to be used from May 19 to May 23 inclusive, and it is believed "it may be the first time that the 'GR9' prefix has ever been active".
GR9RW will primarily use SSB and CW, and additionally FM on the VHF and UHF bands. Two HF stations and one VHF station will be active and will cover all bands from 80m to 70cm.
A very special QSL card will be sent on request and cards can also be requested via OQRS.
For more information visit the Cray Valley Radio Society's website at http://www.cvrs.org/ and look on the QRZ page for GR9RW for details of the station and how to obtain the special QSL card.
Up-to-date information will also be posted on the Cray Valley Radio Society's Twitter feed: @G3RCV.
For further information about the Royal Wedding itself please visit: https://www.royal.uk/royal-wedding-2018

Alan Griffin
RAC MarCom Director

NO CANWARN TRAINING

Geoff Coulson from Environment Canada has advised that due to staffing shortages there will be no CANWARN training in Northwestern Ontario this year.

LARC SENATE

Robert Hansen VE3RVA
Dave Kimpton VE3AVS
Laurie Bridgett VE3BCD
Terry Stewardson VA3LU
Ed Baumann VE3SNW

LARC EXECUTIVE

President: Randy Gottfred VA3OJ

Vice-President: Bob Hansen VE3RVA

Treasurer: Bill Unger VE3XT

Board Member: Mike SkillenVE3EDX

Board Member: Mark Vaillant VA3MVR

Board Member: Brad Harris VE3MXJ

LARC Emergency Coordinator

Brad Harris VE3MXJ 767-0628

ARES District Emergency Coordinator

vacant

CANWARN

VA3JMS John 767-3631
VE3RRP Karl

Public Service Events

VA3TBA Chris Chadwick

Accredited Examiners

VE3FAL Fred Lesnick 577-0789
flesnick@tbaytel.net
VE3VAI Lori Bedford 622 – 6386

ABOUT US

The Lakehead Amateur Radio Club (LARC) is an incorporated not for profit group of amateur radio operators in the Thunder Bay area that meet for self education, community service and fellowship. Our meetings are the second Thursday of the month at room 214 McIntyre Building, Confederation College, 7:30 PM. Our postal address is 1100C Memorial Ave. Suite 184,Thunder Bay, Ontario P7B 4A3. This newsletter is published monthly except for July and August by Ed Baumann VE3SNW and questions and submissions may be emailed to hiqnewsletter@gmail.com

Links of Interest from Jan VA3JRS

https://www.cruisingworld.com/single-sideband-radios-endure

https://www.wtmj.com/newsy/why-experts-say-we-should-all-pay-more-attention-to-space-weather

https://www.thetimes.co.uk/article/do-ham-radios-really-slow-wifi-r3nrkv5vx

Please note that the financial report is not available this month as the treasurer is out of the country.

LARC OPEN ACCESS REPEATERS

VE3YQT(Mount Baldy)147.060 (-600) Phone Patch

VE3TBR (St. Joseph's) 146.820 pl 107.2

442.075 (+5 MHz)pl 100
144.390 APRS

VE3UPP Upsala 145.470 (-600)

RAC Annual General Meeting Saturday, June 16 at the Annual Red Deer Picnic and Hamfest

The Radio Amateurs of Canada is pleased to hold its Annual General Meeting (AGM) in Red Deer, Alberta as part of the year-long celebration of RAC's 25th Anniversary Celebration.
The AGM event will be hosted by the Central Alberta Amateur Radio Club and will be held in conjunction with the 2018 Annual Red Deer Picnic and Hamfest which is being held at the same location.
All RAC members are encouraged to attend the Annual General Meeting.

Date: Saturday, June 16.
Time: 1 pm (Mountain Daylight Time)
Place: The Annual General Meeting will be held at the Shady Nook Community Hall, Township Road 380, in Red Deer, Alberta.

Agenda items will include:

Report of the President
Review of the 2017 finances
Appointment of auditors for 2018

A Question and Answer period will follow the AGM proceedings.

This is your opportunity to hear what your representatives have been doing over the past year, to raise questions, and to make suggestions about how RAC is managed and where it is going in the future.

All RAC members are encouraged to attend the Annual General Meeting. If you cannot attend the meeting in person there will also be a Webinar which RAC members can attend remotely. Additional information about the Webinar will be included here when it is available.

For more information about the 2018 Annual Red Deer Picnic and Hamfest please see the information below and visit their website at http://www.caarc.ca/.

Minutes for the Lakehead Amateur Radio Club

Date: April 19, 2018

President, Randy Gottfred VA3OJ Presiding.
Guest Speaker:
Wally Petersen, Thunder Bay Diving, spoke and showed photos of underwater photography, and restoring the Alexander Henry.
Treasurer's Report: Bill Unger, VE3XT
Karl Hamilton VE3RRP moved to accept the report as printed in Hi-Q. Seconded by
Brad Harris VE3MXJ. Passed Unanimously.
Minutes of Previous Meeting:
Karl Hamilton VE3RRP moves to accept the previous meeting's minutes as printed in Hi-Q. Seconded by Norm Bell VE3XRC. Passed.

Old Business:

Public Service (Chris Chadwick, VA3TBA, public events coordinator)
Past Events:
Upcoming Events
10 Mile Road Race May 2018, Norm Bell VE3XRC Co-ordinator
Conquer the Dog August
Xterra August
CANWARN (John Sacek, VA3JMS, Karl Hamilton, VE3RRP)
No news
ARES (Brad Harris, VE3MXJ, Thunder Bay EC)
no news
Repeater News
Randy Gottfred VA3OJ,
Terry Stewardson VA3LU
No news
Club Trailer: (Bob Hansen, VE3RVA)
no news
LARC Revitalization: 20/20 (Randy Gottfred, VA3OJ)
No news
Field Day
No news
Hymers Fall Fair
No news

New Business

none
Adjournment moved by: Karl Hamilton VE3RRP

Next Executive Meeting: May 3, 2018, 7:30 PM, RM 213 or 196

Next LARC Meeting: May 10, 2018, 6 PM, RM 214

Historic NSS Call Sign to be Reactivated for Naval Radio Station's 100th Anniversary

05/07/2018 via ARRL

Historic US Navy call sign NSS will be reactivated during the 100th anniversary of the former Naval Radio Station in Annapolis, Maryland. Members of the US Naval Academy Radio Club (W3ADO) and the Potomac Valley Radio Club (W3GRF) will return the historic call sign to the air during the Armed Forces Day Crossband Military/Amateur Radio Communications Test this coming weekend.

NSS operations from the site of the former Naval Radio Station on Greenbury Point will run from 1300 UTC on Saturday, May 12 to 0200 UTC on Sunday, May 13. Transmissions on CW and SSB will take place on 4,038.5; 5,330.5; 7,533.5; 9,447; 14,487, and 17,545 kHz. NSS will listen for callers on announced frequencies in adjacent Amateur Radio bands. Commemorative QSLs will be sent for all contacts.

NSS began operation in 1918 as the Annapolis High Power Radio Station using two Federal Telegraph Company 500 kW Poulson arc transmitters and four 600-foot towers, operating in the very low-frequency (VLF) region of the radio spectrum. At that time, VLF was believed to be the only part of the radio spectrum capable of supporting transoceanic radio communication; it would be a few more years before radio amateurs proved the major long-distance communications benefits of frequencies well above 1 MHz.

NSS began regular operation in the HF bands about 10 years later, and that continued until 1976, when the station's HF mission was transferred to Naval Radio Station (call sign NAM) in Norfolk, Virginia. The 1,200-foot central tower and dozens of other towers and masts were demolished in 1999, although three iconic 600-foot Eiffel towers remain at the southern tip of Greenbury Point.

A brief video history of NSS is available on YouTube. The website of radio history buff Jim Hawkins, WA2WHV, also offers a virtual tour of NSS.

Lunar-Orbiting Microsats with Ham Radio Payloads Will Make Use of WSJT JT4G Sub-Mode

05/03/2018 via ARRL

China's twin-launch Chang'e 4 mission to the far side of the moon will place a pair of microsatellites in lunar orbit "to test low-frequency radio astronomy and space-based interferometry." The two satellites, DSLWP-A1 and DSLWP-A2 (DSLWP = Discovering the Sky at Longest Wavelengths Pathfinder) are expected to launch in June. They will carry Amateur Radio and educational payloads, but not a transponder. Equipped with low-frequency antennas and receivers, the astronomy objectives of the two spacecraft will be to observe the sky at the lower end of the electromagnetic spectrum — 1 MHz to 30 MHz — with the aim of learning about energetic phenomena from celestial sources. They will use the moon to shield them from radio emissions from Earth.

Developed by students at Harbin Institute of Technology (BY2HIT), the Amateur Radio payload onboard DSLWP-A1 will provide a telecommand uplink and telemetry/digital image downlink. The open telecommand protocol is designed to allow amateurs to send commands to take and download images. DSLWP-A1 downlinks are 435.425 MHz and 436.425 MHz; DSLWP-A2 downlinks are 435.400 MHz and 436.400 MHz, and they will use 250/500 bps GMSK using 10K0F1DCN or 10K0F1DEN (10 kHz wide FM single-channel data) with concatenated codes or JT4G. JT4 uses four-tone FSK, with a keying rate of 4.375 baud; the JT4G sub-mode uses 315 Hz tone spacing and 1260 Hz total bandwidth.

The microsatellites represent the first phase of the Chang'e 4 mission. The satellites will piggyback on the Chang'e 4 relay package and will deploy into 200 × 9,000 kilometer lunar orbits. The mission involves placing a relay satellite in a halo orbit to facilitate communication with the Chang'e 4 lander and rover, which will be sent to the far side of the moon in December. Because the moon's far side never faces Earth, the satellite is needed to serve as an Earth-moon relay. The Chang'e 4 mission will be the first-ever attempt at a soft-landing on the far side of the moon.

May 2018

Mon	Tue	Wed	Thu	Fri	Sat	Sun
	1	2	3	4	5	6
7	8	9	10 LARC Meeting at Con College McIntyre Bldg RM 214	11	12	13
14	15	16	17	18	19	20
21 Victoria Day	22	23	24	25	26	27
28	29	30	31			