



Field Day and Swap Meet

22nd & 23rd June

2174 Rosslyn Road at VA3OJ qth

Supper is 1800 on Saturday

Everyone Welcome

Setup evening Friday 21st

VE3KV SK



Mr. Leonard Frank Catillo, 80 years old, a resident of O'Connor Township, passed away peacefully at St. Joseph's Hospice on Wednesday, May 15th, 2019. Born on June 23rd, 1938 in Welland, ON, he retired in 2004 after 28 years of service with Praxair Canada. He enjoyed working on and driving his 1939 Buick Streetrod. He could be seen at various car shows and cruise nights with his classic car. Len is survived by his sons Larry and Ron, brother Gilbert (Anette) and David (Patti), also numerous nephews and nieces. Cremation has taken place. As per Len's wishes, no service will be held.

Winnipeg Amateur Radio Club Celebrates its Centennial with a Hamfest and Conference

RAC President Glenn MacDonell, VE3XRA, on behalf of Radio Amateurs of Canada, extends sincere congratulations to the Winnipeg Amateur Radio Club as it celebrates its 100th Anniversary with a Hamfest and Conference tomorrow, Sunday, June 2, 2019.

The event will feature "notable speakers, plenty of junk, commercial sponsors and of course lots of Amateurs to meet and ragchew."

To commemorate the special occasion, today's issue of The Winnipeg Free Press (Saturday, June 1, 2019) includes a feature article by David Sanderson about the club:

"Ham it up: As its 100th anniversary approaches, the Winnipeg Amateur Radio Club is showing why in an age of instant communication, there is still room to kick it old school. Ham radio has been around for over 100 years, and the Winnipeg Amateur Radio Club almost as long."

The article provides an overview of Amateur Radio through the experiences of club members Cary Rubenfeld, VE4EA, Barry Malowanchuk, VE4MA, and Bill Fleury, VE4BEF, and touches on the Amateur Radio Emergency Services, Radiosport and their support of community events including the upcoming Manitoba Marathon on June 16.

Meeting Thursday June 13th

Confederation College

McIntyre Building

1930 hours

will feature a

Drone Demonstration



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
Secretary: Karl Hamilton VE3RRP
Treasurer: Bill Unger VE3XT
Board Member: Mike Skillen VE3EDX
Board Member: Mark Vaillant VA3MVR
Board Member: Brad Harris VE3MXJ
Board Member: Lori Bedford VE3VAI

LARC Emergency Coordinator

Brad Harris VE3MXJ

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 (807) 630-

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 212 McIntyre Building, Confederation College, 7:00 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

Amethyst District ARES

Providing emergency communications for Northwestern Ontario

Emergency Coordinators

Atikokan: Warren Paulson, VE3FYN (ARES DEC, Amethyst District)
 Sioux Narrows: Woody Linton, VE3JJA
 Fort Frances: Rod Davis, VE3RYD (ARES EC, Fort Frances & area)
 Kenora: Chris Bigelow, VA3ECO (ARES EC, Kenora & area)
 Dryden: Bob Ernewein,, VE3YDN
 Thunder Bay: Brad Harris, VE3MXJ (ARES EC, Thunder Bay & area)

Nets and Exercises

We conduct an open weekly HF net on 80 and 40 metres. The purpose of this net is to monitor regional propagation conditions, share information, and practice net procedures.

Time: Wednesdays at 21:30 UTC (4:30 pm EST, 3:30 pm CST)

Frequency: Primary 3.675 MHz LSB, Secondary 7.135 MHz LSB

<http://www.ve3rib.ca/nwoares>

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)

Prez SezCome to Field Day!

Here we are in June and so many things are happening. After a long cold winter, many are putting summer fun at the top of the list. I am glad that the warm dry weather is holding as I am very busy getting the field day site cleaned up and ready for some RF. Many of my honey do list things are directly related to getting the backyard cleaned up and with my extra time off this summer, I am thrilled it is getting done.

Speaking of field day, that is happening on **June 22/23**. The location of the event is at **2174 Rosslyn Road** at VA3OJ place. Set up on Friday night will consist of set up. Saturday will have the start of field day will be 2 pm. Dinner will be at 6 pm and will be the standard menu with all that will be attending supper requested to bring a little something to add to the table. LARC will be supplying a main course meat yet to be determined. If you have a special dish that you would like to make, please feel free to do so. Overnight real estate is available but please let me know in advance as space is limited to small trailers, campers or tents.

One other thing to look forward to at field day is the swapfest that be held on the Saturday. I will be setting up the items for sale on Saturday morning (weather permitting) for viewing. So, if you want to get the edge on the stuff, you can help with the set up at the same time. I will be supplying a list to Ed to be sent out to the group with a summary of items that I have to sell of my own equipment but also a number of items that I have been given and I have no room to store. Items that are club related will be sold with the money collected going to the club account as a fund raiser for the group. Anyone else that wants to sell items, bring them along, but note that you will be responsible for dealing with the sales and the removal of unsold items by Sunday afternoon. If you have a lot of stuff, it would be wise to bring a table.

It sounds like we will be doing the Xterra triathlon at Sleeping Giant PP <https://elementracing.ca/xterra-sleeping-giant/> in Aug so keep the date open.

Special shout out to the club members that are dealing with health issues at this time and to let you know that you are in our thoughts and prayers.

Well that is it for now. I hope everyone has a safe and enjoyable summer and please tickle the ionosphere when you can.

175 Years of Morse Code

The first message sent by Morse code's dots and dashes across a long distance traveled from Washington, D.C., to Baltimore on Friday, May 24, 1844 - 175 years ago. It signaled the first time in human history that complex thoughts could be communicated at long distances almost instantaneously. Until then, people had to have face-to-face conversations; send coded messages through drums, smoke signals and semaphore systems; or read printed words.

Thanks to Samuel F.B. Morse, communication changed rapidly, and has been changing ever faster since. He invented the electric telegraph in 1832. It took six more years for him to standardize a code for communicating over telegraph wires. In 1843, U.S. Congress gave him \$30,000 to string wires between the nation's capital and nearby Baltimore. When the line was completed, he conducted a public demonstration of long-distance communication.

<https://www.newsweek.com/morse-code-175-years-old-useful-1432418>

World Scout Jamboree Gearing Up for Significant Amateur Radio Presence

Amateur Radio will play a role in this summer's 24th World Scout Jamboree in West Virginia, the first World Jamboree held in North America since 1983. The Jamboree has chosen the theme "Unlock a New World." Thousands of Scouts and Scout leaders from some 200 countries are expected to attend. The Jamboree's Amateur Radio Exhibit will use the call sign NA1WJ — North America's 1st World Jamboree. It will be on the air during the event, July 22 until August 2, at the Summit Bechtel Reserve, hosted by Canada, Mexico, and the US. On air testing is expected to begin as early as July 14. Operating frequencies will be posted in real time via Facebook and Twitter or via an NA1WJ email group.

Organizers are encouraging radio amateurs around the globe to get on the air during the World Jamboree to help NA1WJ demonstrate Amateur Radio for Jamboree visitors.

The 2019 World Scout Jamboree operation at the Summit Bechtel Scout Reserve will take advantage of lessons learned by the K2BSA Amateur Radio operation during the 2013 and 2017 USA National Jamborees.

It will also take advantage of the existing infrastructure, which includes three VHF/UHF repeaters installed by Icom America, as well as the utility poles for installing antennas.

K2BSA ham gear stored in West Virginia includes antennas, rotators, and cables.

The K2BSA Amateur Radio Association will host a "Radio Scouting" booth at Hamvention® (Booth 2205 in Building 2).

Submitted by Karl VE3RRP

JUNE

Minutes for the Lakehead Amateur Radio Club

Date: May 9, 2019

President, Randy Gottfred VA3OJ Presiding.

Treasurer's Report: by Karl Hamilton VE3RRP

Karl Hamilton VE3RRP moves to accept the report as printed in Hi-Q. Seconded by Brad Harris VE3MXJ. Passed Unanimously. Karl reported that LARC may owe federal taxes this year, due to increased income. Animated discussion ensued.

Minutes of Previous Meeting:

Karl Hamilton VE3RRP moves to accept the previous meeting's minutes as printed in Hi-Q. Seconded by Chris Chadwick VA3TBA. Passed.

Old Business:

Public Service Chris Chadwick VA3TBA public events coordinator

Past Events:

none

Upcoming Events

10 Mile Road Race, Monday May 20th Norm Bell VE3XRC: all ready

CANWARN John Sacek VA3JMS

No Canwarn training in June

ARES Brad Harris VE3MXJ, Thunder Bay EC

Weekly HF Net on Wednesdays 5 PM local time on 3.675, and at 5:15 PM on 7.135

Brad is activating the Firehall emergency station every month.

In mid to late September there will be IMS training by Sharon Bak.

Shuniah Fire Chief Blair Arthur will be setting up an amateur radio station at the MacKenzie Fire Hall.

Repeater News

Randy Gottfred VA3OJ,

Terry Stewardson VA3LU

VE3BGA is now active on Loch Lomond at 147.390, PL Tone 107. Randy VA3OJ is looking for signal reports. Coming soon at Loch Lomond: repeater at 442.825 Tone 100.

A new Thunder Bay simplex repeater that links into the Northwestern Ontario/ Southern Manitoba repeater network via internet is now active on 147.525 use PL123.

Club Trailer:

Bob Hansen VE3RVA

No news

2019

LARC Revitalization: 20/20 (Randy Gottfred, VA3OJ) Swap Meet Early June at Randy's VA3OJ

Everyone is welcome to bring their stuff and they will be responsible for looking after display and removal at end of meet.

If you plan on bringing stuff, Ed will forward any lists that he receives.

Alexander Henry

Spectrum will donate up to \$500 worth of equipment (connectors, coax etc) for the project.

LARC Field Day 2019 - June 22-23

Randy's place this year. Pot Luck, bring your own gear, chairs etc. Tent setup Friday evening. Pot Luck dinner at 6pm with meat dish supplied. All welcome.

New Venue for Meetings

Possibilities at the Public Library, also Mark Vaillant VA3MVR is checking with Chartwell for possibilities.

Hams From the Past

No news

New Business

50/50 Draw: none held

Adjournment moved by: Ed Baumann VE3SNW

Next Executive Meeting: June 6, 2019, 7 PM, RM 213

Reminder that on Wednesday June 12, 2019 at 2100 UTC (5:00pm EDT LOCAL) on 3.675 MHz 80m is the **NORTHWESTERN ONTARIO A.R.E.S. NET**.

This net is once a week on Wednesdays.

The primary frequency is on 80M 3.675 MHz, after we take check in's on 80 we will QSY to 40m - 7.135 MHz to take check in's from those stations that could not hear us on 80m

It does not matter whether your an ARES member or not, we encourage one and all to check in.

Check out our website at <http://www.ve3rib.ca/nwoares.html>

Thanks, hope to hear you on the air.

73's de Brad VE3MXJ CEC

E.C. for the City of Thunder Bay ARES GROUP

Lakehead Amateur Radio Club

May 2019 Treasurers Report

Opening Balance May 1, 2019 \$2,488.41

Income

May 10 Donation \$20.00

Total Income **\$20.00**

Expenses

April 30 Credit Union Charges \$0.90

Total Expenses **\$0.90**

Closing Balance May 31, 2019 **\$2,507.51**

<u>Trailer Account</u>		
	Previous Balance	\$927.98
<u>Income</u>		
Interest		\$0.04
Total		<u>\$928.02</u>
<u>Expenses</u>		
Total Expenses:		\$0.00
	Balance in Trailer Account	<u>\$928.02</u>

Term Account

Opening Balance May 01, 2019 \$2,065.69

Interest \$0.42

Closing Balance May 31, 2019 \$2,066.11

Karl Hamilton VE3RRP
Treasurer

Links of Interest from Al and Jan

<https://www.sciencealert.com/the-sun-s-11-year-cycle-have-may-have-something-to-do-with-the-gravity-of-the-planets>

<http://www.milwaukeeindependent.com/syndicated/social-media-morse-code-altered-way-people-communicate-175-years/>

<https://www.qsl.net/pa3hbb/ll.htm>

<https://www.kenoradailyminerandnews.com/news/local-news/high-frequency-radio-essential-in-emergency-amateur-operators>

<https://www.dailycal.org/2019/05/06/clog-report-professor-tries-to-catch-students-for-conversing-in-morse-code-during-midterm/>

<https://jalopnik.com/mans-homemade-electronics-disrupt-entire-neighborhoods-1834550748>

Hi-Q 25 Years Ago This Month...

<http://ve3efc.ca/larc/larc19940601.pdf>

Hi-Q 50 years Ago This Month...

<http://ve3efc.ca/larc/larc19690601.pdf>

<http://ve3efc.ca/larc/larc19690602.pdf>

Courtesy of Doug VE3EFC

More from Karl VE3RRP

First on-air test of FreeDV 2020

David Rowe VK5DGR reports on the first on-air tests of the new digital voice mode FreeDV2020 Brad (AC0ZJ), Richard (KF5OIM) and I have been putting the pieces required for the new FreeDV2020 mode, which uses LPCNet Neural Net speech synthesis technology developed by Jean-Marc Valin. The goal of this mode is 8kHz audio bandwidth in just 1600 Hz of RF bandwidth.

Mark, VK5QI has made a 3200km FreeDV transmission from Adelaide, South Australia to a KiwiSDR in the Bay of Islands, New Zealand. It was decoded with the partially working OSX version - we do most of our development on Ubuntu Linux.

Read the full post and watch the video at

<http://www.rowetel.com/?p=6747>

more info:

<https://sourceforge.net/p/freetel/mailman/freetel-codec2/>

Wireless Power Transmission Provokes Discussion in ITU-R Study Group

06/10/2019 via ARRL

The emerging wireless power transmission (WPT) technology and associated applications came in for closer scrutiny during the May/June meeting of International Telecommunication Union Radiocommunication Sector (ITU-R) Study Group 1 and its Working Parties. Participants wrapped up 7 days of sessions in Geneva on June 7, with International Amateur Radio Union Region 1 (IARU-R1) Region 1 President Don Beattie, G3BJ, representing the IARU. The primary concern over WPT centers on its interference potential. “Work was advanced on reports on WPT at 100 – 148.5 kHz for low-power charging of portable devices, for WPT for electric vehicles (WPT-EV) at around 20, 60, and 85 kHz, and for ‘beam’ WPT for remote charging,” IARU Region 1 reported. “All of these technologies have the potential for harmful interference to radiocommunication services if not carefully managed, particularly the harmonics of the WPT systems.”

The IARU has submitted formal studies on the impact of WPT on the Amateur Service, and these have been incorporated into a single completed report and will inform a new recommendation being developed on WPT emissions.

IARU says it’s advocating “proper emission limits” to protect radio services and is working with other spectrum users and administrations that share its concerns. The ITU meetings discussed emerging proposals for WPT-EV emission limits from the International Special Committee on Radio Interference (CISPR), where there is a level of concern that these limits fall short of providing the necessary protection to radiocommunication services. Founded in 1934, CISPR sets standards for controlling electromagnetic interference in electrical and electronic devices and equipment.

The issue of WPT-EV is World Radiocommunication Conference 2019 (WRC-19) Agenda Item 9.1.6.

Last October, ARRL filed comments with the FCC opposing a Petition for Rulemaking (RM-11815) filed by several vehicle manufacturers that calls on the Commission to “adopt field strength limits that will allow higher power wireless charging technologies operating in the 79 – 90 kHz range” to accommodate what the petitioners called “next-generation” wireless power transfer for electric vehicles.

June 2019

Mon	Tue	Wed	Thu	Fri	Sat	Sun
					1	2
3	4	5	6	7	8	9
10	11	12 ARES NET 5:00pm 3.675 Mhz 7.135 Mhz	13 LARC MEETING 7:30pm DRONE DEMO	14	15	16
17	18	19	20	21 Field Day set up	22 FIELD DAY & SWAP MEET AT 2174 ROSS-LYN RD. SUPPER AT six pm	23
24	25	26	27	28	29	30

