Message from the London Amateur Radio Club

Promoting Amateur Radio in London
And surrounding area since 1920

November 9, 2014

L.A.R.C. Executive

President
Mike Watts, VE3ACW

Vice-President, Membership
John Visser, VA3MSV

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Director
Norm Campbell, VA3XCN

Director
Jim Morris, VA3AHQ

Director
Tom Pillon, VE3HOR

Non-Voting

ARES Representative
Currently Vacant

Appointments

Repeater Committee Chair
Mike Watts, VE3ACW

Repeater Coordinator
Brad Seward, VE3NRJ

Repeater Tech Support
John Visser, VE3FDV
Rob Leroy, VE3MGQ

Field Day Coordinator
Simon Wilton, VA3SII/G7HCD
Corbin Lippert, VE3NIS

Webmasters
Jim Morris, VA3AHQ
Tom Pillon, VE3HOR
Simon Wilton, VA3SII/G7HCD

Newsletter Editor
John Visser, VA3MSV

Auditor
Rob Hockin, VA3HO

November L.A.R.C. Meeting

The next L.A.R.C. meeting will be held on **November 13th** at **7:30pm**. The guest speaker will be Mike Cook, VE3ZMC speaking about "**Aircraft RF systems: an update**." He will revisit a talk he gave ten years ago with a few updates to this fast-moving subject.

Please note that the meeting will be will be held in the **Lloyd Cracknell** room located on the main floor.

The usual, coffee, donuts, conversation and 50/50 draw will also be at the meeting.

The meeting will be located at St. Judes Anglican Church, 1537 Adelaide Street North at Fanshawe Park Road East in London, Ontario.

FCC Announces Agreement With Industry Canada For Cross-Border Public Safety Communications Available Online

October 24, 2014

A new pack will permit cross border hand-held radio communications between the United States and Canada between those involved in public safety issues in both nations.

FCC Chairman Tom Wheeler and Industry Canada Senior Assistant Deputy Minister Kelly Gillis have signed an agreement allowing public safety officials who cross the U.S.-Canada border to use their hand-held radios in either country. The agreement called a Statement of Intent between the FCC and Industry Canada expands roaming privileges originally granted to public safety officials in a 1952 Treaty.

The big difference is that the new Statement of Intent allows public safety officials to operate hand-held radios in the other country whereas the 1952 agreement only contemplated the cross-border operation of radios installed in public safety vehicles. The Statement of Intent also eliminates the need for the host country to issue permits to public safety officials crossing the border provided the radios used by such officials are licensed in their country of origin. *(FCC)*

Next Meeting is Where and When?

The next monthly L.A.R.C. meeting on **December 11, 2014** at **7:00** pm

All meetings are normally located at St. Judes Anglican Church, 1537 Adelaide Street North at Fanshawe Park Road East in London, Ontario.

The meetings are **normally** held on the second Thursday of the month at 7:30 pm EST during the months of September to June.

Area Repeaters

LARC Repeaters

London

VA3LON 147.060 + 114.8Hz

VA3MGI 145.390 - 114.8Hz

SORT Repeaters

London

VE3GYQ 145.350 - 114.8Hz

VE3TTT 147.180 + 114.8Hz
IRLP Node 2400
Echolink Node 10741

VE3SUE 444.400 + 114.8 Hz
ALLSTAR Node 2416

VE3TTT 442.300 + D-Star

Ipperwash

VE3TCB 146.940 - 114.8 Hz
Linked to VE3SUE

Grand Bend

VE3SRT 442.050 + 114.8 Hz
Linked to VE3SUE

Other Area Repeaters

London

VE3OME 145.450 - 114.8 Hz
CANWARN

VA3FEZ 444.100 + 114.8 Hz

Grand Bend

VE3RGB 146.760 + 173.8 Hz

Stratfordville

VE3DPL 146.655 - 131.8 Hz

St. Thomas

VE3STR 147.330 + 114.8 Hz
Echolink Node: 72886

VE3STR 443.825 + 114.8 Hz
IRLP Node: 2482

If you have a repeater that should be listed here, please forward the information to John Visser, VA3MSV at va3msv@hotmail.com and I'll add it to the list.

Membership Certificates

The Club has created membership certificates for its current members. This feature is still a work in progress with the new website.

Flaunt Your Face – Show Your Shack

In our hobby it's not always easy to put a face to all the fellow hams you talk to on the air. To help us all figure who's who, LARC invites its members to submit digital photos of yourself and/or your shack to be published on the membership page of our website. Purely voluntary of course, and if you prefer you can submit just one (depending on whether you think your face or your shack is more presentable).

I am not sure we will continue this feature with the member list. Few members submitted a pic of their shack for others to see on the web site.

Mutual Aid

Would you be willing to answer some questions if a fellow ham needed some advice? Got a problem you can't figure out? Want to try something new but need someone to show you the ropes?

I think we have plans to continue this service. Still a work in progress I think.

Membership Report

Currently the L.A.R.C. membership stands at 93 members with 9 of them being new members.

The following is a list of new member for the 2014/2015 Membership Year with the date that they joined L.A.R.C.

Terry Bendell, VE3TKB	October 9, 2014
Don Chamberlain, VE3EM	October 31, 2014
Joanne Deactis, VA3WMD	October 9, 2014
Bob Eveland, SWL	September 11, 2014
Melba Eveland, SWL	September 11, 2014
Ivan Garnett, VE3IKG	September 21, 2014
Mary Ann Mosley, VA3FMV	October 16, 2014
Todd Mosley, VA3FMV	October 16, 2014
Alex Porzecanski, VA3YXU	September 21, 2014

Nets

Daily

ONTARS Net
3.755 MHz 7:00 am – 6:00 pm

Trans Provincial Net
7.055 MHz 7:00 am – 5:00 pm

London Senior's Net (JO Net)
146.400 MHz 7:00 pm – 7:30 pm

Sunday

ARES Ontario Net

7.153 MHz	1:00 pm
7.055 MHz	3:00 pm
3.742 MHz	7:15 pm
IRLP Reflector 9005	8:00 pm

Monday

LARC 2m Net
147.060 + VA3LON 8:00 pm

SATERN Net

147.180 + VE3TTT	9:00 pm
444.400 + VE3SUE	9:00 pm

Tuesday

ELMER Net
147.060 + VA3LON 9:00 pm

Wednesday

ARES Net
145.450 + VE3OME 7:30 pm

ARES Ontario Net
IRLP Reflector 9005 8:00 pm

Thursday

PROCOMM Net

147.180 + VE3TTT	8:00 pm
444.400 + VE3SUE	8:00 pm

Friday

Tech Net

147.180 + VE3TTT	8:00 pm
444.400 + VE3SUE	8:00 pm

Saturday

VE3TTT 2m Net

147.180 + VE3TTT	7:30 pm
444.400 + VE3SUE	7:30 pm
146.940 - VE3TCB	7:30 pm
442.050 + VE3SRT	7:30 pm

W9L Celebrating Veterans Day November 11

October 31, 2014

Members of The American Legion Amateur Radio Club will operate station W9L on November 11th which is Veterans Day 2014. W9L will be on the air from 1400 to 2100 U-T-C from the clubs national headquarters in Indianapolis, Indiana.

The High Frequency operation will take place on 14.275 MHz. There will also be local participation on 146.46 MHz simplex, the Hamilton County 145.17 MHz repeater and an interconnection via IRLP node 4816.

Hams who make contact with W9L or shortwave listeners who hear the station are eligible to receive a full color commemorative certificate. More about this operation including QSL routing is at www.legion.org/hamradio *(KJ9M)*

KC9HYY/WSL3 Commemorates Sinking Of HMHS Britannic

October 31, 2014

Special event station KC9HYY/WSL3 which will operational in remembrance of the 98th anniversary of the sinking of the HMHS Britannic.

The Britannic was the third and largest Olympic-class ocean liners of the White Star Line. She was launched just before the start of the World War One and soon converted to use as a hospital ship. On the morning of November 21st 1916, the Britannic was shaken by an explosion from an underwater mine in the Kea Channel and sank 55 minutes later. There were 1,066 people on board of which 1,036 survived.

Now, in remembrance of this event, callsign KC9HYY/WSL3 will be taking to the ham radio bands from November 21st to the 24th operating 40 through 10 meters using SSB and some of the digital modes. More information including QSL routing is on QRZ.com under the callsign listing for KC9HYY. *(KC9HYY)*

Celebration Marconi Experiments From Yacht Elettra

October 31, 2014

Also keep an ear open for special event station IY1IEY to be on the air between November 1st and December 31st to commemorate the experiments conducted by Gugliemo Marconi from his yacht Elettra between 1919 and 1936. Operations will be on all of the High Frequency bands including 30, 17 and 12 meters. QSL IK1QBT direct. *(OPDX)*

ZD9 Tristan Da Cunha Operation Cancelled

October 24, 2014

In DX up front, the Italian DXpedition Team has announced that its ZD9TT DXpedition to Tristan Da Cuna originally planned for September 2014, but later postponed until September 2015 due to transportation issues, has now been canceled. The group also says that it will no longer advertise its plans in advance and that it regrets that this decision might affect the plans of other teams. However, it feels compelled to adopt this policy due to the course of events. *(OPDX)*

Upcoming Events

Sat., Feb. 7, 2015
Big Event 37 - Flea Market and Hamfest - Niagara Peninsula Amateur Radio Club
Merriton Community Centre, 7 Park Ave., St. Catharines, Ontario

Every Saturday Morning
Starting at 8:30 am.
Breakfast at the Cottage Restaurant. Located across the street from the London Police Station on Dundas St.

If you have an upcoming event that you would like to have listed here, please forward the information to John Visser, VA3MSV at va3msv@hotmail.com and I'll add it to the list.

Ham Radio Falkland Islands WWI Commemoration

October 31, 2014

The United Kingdom's Royal Air Force Amateur Radio Society is sending an expedition to the Falkland Islands to coincide with the 100th anniversary of the WW1 'Battle of Falklands' on December 8th. VP8RAF/100 and VP8FIR/100 will operate from the Joint Services Welfare Facility Amateur Radio Station from December 5th through the 9th. Also, all VP8 prefix stations will be able to use "/100" between 1st November and 15th December 2014 *(GB2RS)*

Digital Only Operation To Celebrate The Achievements Of Noted Indian Scientist

October 31, 2014

And listen out for the special callsign AT1JCB from India between November 21st through December 9th. This in celebration of the birth of Scientist Aacharya Jagdish Chandra Bose and of his many scientific achievements. This will be a digital-only operation by VU2EXP using PSK31, PSK63, PSK125, JT65 and other digital modes on 40 through 10 meters. QSL via VU2EXP direct or electronically using Logbook of the World or eQSL. *(VU2EXP)*

Registration For ILLW 2015 Growing

October 31, 2014

It's not even 2015 yet, but registrations for next August's International Lighthouse and Lightship Weekend already stand at 75 with nearly half being from Australia. Others already on the list represent Argentina, Canada, England, Finland, Germany, Malaysia, Netherlands, Northern Ireland, Puerto Rico, Scotland, South Africa, and the United States.

It's never too early to register a lighthouse or lightship to take part in this very popular yearly event. Simply take your web browser to illw.net and follow the simple instructions on the page.

And less we forget, the dates of the next International Lighthouse and Lightship Weekend is August 15th and 16th of 2015. *(VK3PC)*

DXCC Approved For E30FB Eritrea

October 24, 2014

The ARRL has announced that last the September 17th to the 22nd E30FB from Eritrea sponsored by the Foundation for Global Children has been approved for DXCC credit. (OPDX)

DX Corner

By John Visser, VA3MSV

Sep 25 to Nov 22	Colombia	HK3JCL	40m, 20m, 15m SSB
Sep 29 to Nov 12	St Kitts & Nevis	V47JA	160-6m SSB
Oct 15 to Dec 15	Minami Torishima	JG8NQJ/JD1	17m – 10m CW
Oct 29 to Nov 11	Maldives	8Q7OO	HF
Oct 29 to Nov 11	Namibia	V5/OE3SZA	HF SSB
Oct 29 to Nov 20	Reunion	FR/F5UO	HF CW/SSB/RTTY
Oct 27 to Nov 11	Mayotte	FH/F4FET	40-10m SSB Holiday Style
Oct 29 to Nov 11	Maldives	8Q7OO	HF
Oct 29 to Nov 11	Namibia	V5/OE3SZA	HF SSB
Oct 29 to Nov 20	Reunion	FR/F5UOW FR/F8FUA	HF CW/SSB/RTTY
Oct 30 to Nov 10	Tromelin	FT4TA	160m – 10m SSB/CW/RTTY
Oct 31 to Nov 20	Nepal	9N7BM	Holiday Style
Nov 01 to Nov 13	Senegal	DL7DF/6W	160m – 10m CW/SSB/RTTY/PSK31/SSTV
Nov 01 to Nov 16	Aruba	P4/KG9N	HF
Nov 01 to Nov 30	Central Kiribati	T31R	160m – 10m
Nov 02 to Nov 09	Niue Island	E6RQ & E6SG	40m – 6m SSB/CW
Nov 02 to Nov 16	Guadeloupe	TO4R	160m – 6m CW/SSB/RTTY/PSK31-63/JT9/JT65
Nov 03 to Nov 10	Bermuda	VP9/K2HVN	30m, 20m, & 17m CW/SSB
Nov 03 to Nov 12	Madagascar	5R8IC	HF Bands CW/SSB/RTTY/PSK63 Holiday Style
Nov 03 to Nov 13	Andaman & Nicobar Is.	VU4CB	40m – 10m CW/SSB
Nov 03 to Nov 30	Seychelles	S79VR	HF SSB/CW
Nov 05 to Nov 10	Brunei	V84YL	YL Group SSB/CW
Nov 05 to Nov 18	American Samoa	W1AW/KH8	80m – 10m
Nov 06 to Nov 30	Dominica	J79XBI	All Bands SSB
Nov 07 to Nov 09	Pangkor Island	9M2SE	40m – 10m SSB/CW
Nov 07 to Nov 10	Dodecanese	SV5/DL2JRM	80m – 10m
Nov 07 to Nov 10	Micronesia	V63PJ	40m – 6m
Nov 07 to Nov 16	Palau	T88XC	HF CW/SSB/Digital
Nov 08 to Dec 05	St Lucia	J6/DL7VOG	160m – 6m CW/RTTY
Nov 15 to Nov 29	Surinam	PZ5JW	HF
Nov 15 to Nov 30	Andaman Island	VU4KV	160m – 6m CW/SSB/RTTY
Nov 16 to Nov 24	Rodrigues Island	3B9HA	CW Holiday Style
Nov 17 to Dec 02	Burkina Faso	XT2AW	CW/SSB Holiday Style
Nov 19 to Nov 27	Juan Fernandez Island	CE0Z/CE5WQO	160m – 10m CW/SSB/Digital Holiday Style
Nov 20 to Dec 02	Malawi	7QAA	160m – 6m CW/SSB/RTTY
Nov 20 to Dec 02	St Martin	FS/K9EL	160m – 6m
Nov 21 to Nov 24	New Caledonia	FK/JA0JHQ	HF CW/SSB
Nov 23 to Nov 28	Easter Island	CE0Y/PG5M	HF CW
Nov 23 to Nov 30	Anguilla	VP2EIM	
Nov 25 to Dec 24	Vietnam	3W3O	160m – 80m

DX Corner con't.

Nov 26 to Dec 17	Jamaica	6Y6N	Holiday Style HF Band
Nov 28 to Dec 04	Micronesia	V63DX & V63ZP	160m
Dec 01 to Dec 06	Niue	E6XG	HF CW/SSB/Digital
Dec 01 to Dec 09	Maldives	8Q7UX	HF Holiday Style
Dec 04 to Dec 12	Ogasawara	JD1BOX	80m – 6m SSB
Dec 09 to Jan 08	Canary Island	EA8/IK1PMR EA8/PA3LEO	160m – 6m CW/RTTY/SSB
Dec 11 to Dec 14	Lesotho	7P8NH	HF CW
Dec 12 to Jan 08	Cape Verde Island	D44TWO	HF CW/SSB
Dec 26 to Jan 01	Norfolk Island	VK9N/G7VJR	High Bands CW

KP1-5 Project Gets Permission To Activate Navassa Island (KP1) In January 2015

October 30, 2014

The KP1-5 Project has received word from the US Fish & Wildlife Service (USFWS) that it may activate Navassa Island (KP1) in January 2015. The DXpedition, using the call sign K1N, will be a maximum of 14 days, and exact dates will be determined by USFWS mission requirements and weather windows.

"Our experienced team of 15 is complete and is ready for the challenge," said an October 22 KP1-5 Project news release from President Bob Allphin, K4UEE, and Vice President Glenn Johnson, W0GJ. "The weeks ahead will be extremely busy as the team has less than 90 days before the DXpedition comes on the air."

As the announcement explained, January is the month of minimum bird nesting activity, and the USFWS had asked that the operation be completed during that month. Weather is unpredictable in January, however, and because Navassa is surrounded by cliffs, a safe landing by boat would be difficult or impossible.

"For safety reasons and in order to maximize our time on the island and on the air, a helicopter operation is planned," the team's news release said. "Navassa is over 100 miles (160 km) from the nearest helicopter staging point, and as many as 10 round trips will be required at the beginning and end of the operation. Obviously, this means that there will be a significant cost for activating this No 1 ranked DXCC entity."

An aerial view of the east coast of Navassa Island. [USGS photo]

The KP1-5 Project said it will be working with USFWS over the next few weeks to firm up details. The KP1-5 Project team has committed to fund 50 percent of the DXpedition's tab. "We are hopeful the DX community at large will fund the remainder," The announcement concluded.

INDEXA has announced that it will provide substantial financial support for the Navassa Island KP1-5 Project DXpedition. More than half of the DXpedition team members are INDEXA officers, directors, and members.

In other pending-DXpedition news, landing permission has been granted by the Norwegian Polar Institute for a DXpedition on Bouvet (3Y/B). Landing permission covers the period from mid-January to mid-April 2016. *The ARRL Letter*

Special Event Call Sign VI6ANZAC Will Mark 100th Anniversary Of ANZAC

October 30, 2014

The ANZAC National Centre in Albany, Western Australia.

Special event station VI6ANZAC will be on the air for 24 hours, starting at 1600 UTC on October 31, from Albany, Western Australia. The operation will commemorate the centennial of the departure from Albany of the first ship convoy transporting Australian and New Zealand troops, later known as ANZAC -- Australian and New Zealand Army Corps -- to the World War I battlefront in Europe.

The operation, being carried out by the Southern Electronics Group VK6SR, will be on 160-10 meters, with operation primarily on SSB. CW and digital mode operation is possible.

QSL via VK3CAM. -- *Thanks to The Daily DX*

Ham Radio Payload On Its Way To Circle The Moon

October 24, 2014

China has launched its robotic moon circling mission that carries a ham radio payload. The main purpose of this flight is to test of re-entry technology for the country's future lunar sample-return mission. Complete details on the role of amateur radio can be found beginning on page 14 of the mission outline at tinyurl.com/lux-space-moon. The file is in PDF format. A wed-based report on the actual launch provided by NASA is at www.nasaspaceflight.com/2014/10/china-lunar-sample-return-test-mission *(LUX Space, NASA)*

Local Hams Attend Peel Amateur Radio Club Builders' Group Meeting

October 28, 2014

Last year, Bob Rice, VE3HKY, made contact with the Builders' Group in the Peel Amateur Radio Club and he was invited to one of their meetings. He asked me if I wanted to go with him and I accepted the invitation. We met some very bright guys who were having a great time building various projects.

A couple of weeks ago Bob was invited back to the group's monthly meeting for October and he was asked to do a short presentation on his microphone equalizer that he has built and is now using. He asked me if I would like to accompany him and I jumped at the invitation which was also extended to Jim Morris, VA3AHQ.

The three of us left Dorchester at about 2:00 p.m. in Bob's van and our first stop was at Sayal, the electronics parts wonderland in Cambridge where we picked up some parts for future projects.

Then it was on to Brampton where we met up with six members of the club at Fionn McCools for supper at 6:00 p.m. We had a great supper and some really interesting conversation as we got to know more about the members present and their varied interests in the ham radio hobby. We then moved on to their meeting place for the start of their 7:30 p.m. meeting.

Bob was the first to make a presentation and he told us all about designing and building his equalizer, and he kindly gave the PARC members the artwork and diagrams needed to build his equalizer.

There were three other presentations, one on a very accurate (to within 4 Hz) little gadget to check the accuracy of your transceiver's frequency readout, another a home-brew VFO that one member was

working on, and the last presentation was on what can be done with a MESH system.

A demonstration of how a BeagleBone Black could be used in a MESH environment to present images, record video, or stream video, was shown. BeagleBone Black is a low-cost, community-supported development platform for hobbyists and developers with a Linux operating system. The demonstration used a standard USB video camera to record the images and the quality was surprisingly good for a low power system. The video was presented through a media player called VLC. This is definitely something the MESH team should be looking into.

Now lest you all think I have suddenly become very computer-literate, I must hasten to add that some of this (a LOT of it!) was over my head, but Jim has kindly worked with me to help me understand it all better.

There were fifteen of us at the meeting and the PARC Builders' Group has members of varying ages, from young members with no grey hair to some members starting to get some grey going to white-haired members and even some with diminishing hair lines. It was interesting to notice the mix from young to old. They all welcomed us both at supper and at their meeting and extended an open invitation for us to visit at any time and share our experiences with them and they would do the same with us. All in all, a very welcoming group, and we had a very enjoyable and interesting evening.

I know I can speak for Bob and Jim in saying we had a great time and learned some new things. The drive back was a little rainy but we were safely back in Dorchester at 11:00 p.m.

Submitted with help from Bob Rice, VE3HKY, and Jim Morris, VA3AHQ, by David Lambert, VE3KGK.

Radio Amateur is Among Nobel Prize in Chemistry Winners

October 9, 2014

A California radio amateur and ARRL member was among the three winners of the Nobel Prize in chemistry. William Moerner, WN6I, of Los Altos, a chemistry professor at Stanford University, will share the prestigious award equally with two other researchers -- Eric Betzig and Stefan Hell --for their work in high-resolution microscopy, or nanoscopy. For many years scientists had believed that an optical microscope could never yield greater than 0.2 micrometer resolution. The three scientists overcame that limitation through what the Nobel panel called "the development of super-resolved fluorescence microscopy."

"I was just incredibly excited and thrilled, and, of course, your heart races, and you say, 'Oh, can this be? Can this be?'" was how Moerner reacted when formally notified that he was a prize winner. "I'm incredibly happy about the recognition of the field, especially of all the workers and all the scientists at many places around the world who have contributed to the effort." In Brazil for a conference, Moerner had already heard the news from his wife, who learned of it from an Associated Press reporter who had called their home for a comment.

As a Stanford University news release explained, "Optical microscopy was long limited by the presumption that it could never obtain a better resolution than half the wavelength of light. Moerner, Betzig, and Hell circumvented this limitation through the clever implementation of fluorescent molecules, which made it possible for optical microscopes to operate at the nanoscale and visualize individual molecules moving within cells." Read more. *The ARRL Letter*

William Moerner, WN6I. [Stanford University photo by L.A. Cicero]

Three Researcher Awarded Nobel Prize In Physics For Developing Blue LED

October 10, 2014

Three researchers, one from the United States and two from Japan, have been awarded the 2014 Nobel Prize in Physics. This for their roles in developing light emitting diodes that produce a blue glow.

Isamu Akasaki, with Meijo University and Nagoya University, Hiroshi Amano, of Nagoya University, and Shuji Nakamura, with the University of California at Santa Barbara California are the 20 14 recipients. They will be sharing the $1.1 million prize for choosing materials and developing the techniques that have made possible the blue toned Light Emitting Diode.

The trio's collective breakthrough have led to lamps that last for decades and consume far less power than either incandescent or fluorescent bulbs to provide the same amount of light. The blue LEDs have made possible today's flat-panel, full-color computer monitors and TV screens, and are used in lasers for Blu-ray DVD players and higher density data storage using Blu-Ray DVD units.

It was also noted that Blue-emitting LED's combined with storage batteries and solar charging panels could eventually allow more than 1 billion people worldwide to move from no lighting at all to electric lighting without using local gas or diesel generators or regional power plants to provide it.

The three researchers will receive their award at a ceremony in Stockholm, Sweden, on December 10th. *(Nobelprize.org, other published news reports)*

W4KKP Charlie Kayhart 103 years young and still hamming it up!

October 18, 2014

Today the Greeneville TN Hamfest was honored to have Charlie Kayhart, W4KKP as our special guest. Charlie just celebrated his 103rd birthday earlier this week. I have been privileged to have known him for about 37 years. Charlie is active on the radio and I have provided a link to a story done by WBIR TV in Knoxville TN earlier in the week. http://www.wbir.com/story/news/local/military/2014/10/16/flag-raising-radio-iwo-jima/17392177/

Charlie said he was becoming interested in digital modes and I am making arrangements for one of the local guys that operates digital modes to get with him. Perhaps you will see him soon on PSK31.

Bob Gass, N4FV
Chairman Greeneville Hamfest

Service & Sacrifice: WWII radio man still connecting

October 16, 2014

Charles Kayhart saw a special flag stolen and then replaced with another flown over the capitol in his honor, all within a few days. *10-16-14 WBIR*

John Becker, WBIR,

(Photo: WBIR)

Bumper stickers call for us to "live our passion" and that is what Charles Kayhart continues to do at age 103.

"Well, I like to talk to people from all over the world," said the WWII veteran sitting in front of his home-built bank of ham radios.

"Japan, China, any place you can think of-- some of them are veterans. We talk about where they were during the war," said Mr. Kayhart.

He was already an expert in radio when he joined the United States Army Signal Corps in World War II. Mr. Kayhart had attended training in electronics at Harvard and M.I.T. before he learned military brass wanted to send him to the Island of Iwo Jima to build a communication network in preparation for an invasion of Japan.

"That flag waving on Iwo Jima, I will never forget that," said Mr. Kayhart recalling the famous flag raised by U.S. Marines on Mount Suribachi. During his service on that small island he witnessed more history in the sky, catching a glimpse of the Enola Gay B-29 as it flew over hours before it dropped the first nuclear blast on Japanese soil.

After his military service he clocked almost 30 years at radio and television manufacturer Magnovox. Before his wife passed away, their marriage lasted more than 70 years. At age 103, Mr. Kayhart still mows his own lawn, takes care of his own garden and often takes a few minutes to have a conversation on his radio set-up with a stranger half a world away.

"Just sort of have a conversation about what they're doing and what I'm doing," said Mr. Kayhart.

**Editor's Note: We first met Mr. Kayhart after someone stole his American Flag of his front porch back in July. Here is a link to that story by WBIR reporter Jim Matheny.*

Why Radio Hams Should Consider 3D Printing

October 15, 2014

Mike Grauer, Jr, KE7DBX, asks radio amateurs to think about how 3D printers can be used in home construction

He says: As a member of the ham radio community, I have always been fascinated by the maker mindset which has existed since the early days of radio. From making radio equipment from scratch, to kits and even modifying commercially available equipment, the maker movement and radio go hand in hand.

The 3D printing community shares many traits with the ham radio movement. At the heart of it all is making, creating and inventing.

And just like ham radio operators, those involved with 3D printing are constantly learning new technical skills that can be used in other areas of our lives.

Read the full story below.

Southgate Amateur Radio News

Why Ham Operators Should Consider 3D Printing

By Mike Grauer Jr. on Oct 15 2014

As a member of the ham radio community, I have always been fascinated by the maker mindset which has existed since the early days of radio. From making radio equipment from scratch, to kits and even modifying commercially available equipment, the maker movement and radio go hand in hand.

The 3D printing community shares many traits with the ham radio movement. At the heart of it all is making, creating and inventing. And just like ham radio operators, those involved with 3D printing are constantly learning new technical skills that can be used in other areas of our lives.

Here are just a few ways ham radio operators can use 3D printing:

1. Creating custom project boxes: In the past, if you needed a box for a ham radio project, it had to be a prefabricated, one size fits all box. Now you can create a box that fits your project's needs with custom holes for all the connectors.

2. Print custom extruders: With the advent of paste extruders, you can print your own custom insulators. There are also 3D printing services that print in metal, making it easier to 3D print bespoke metal parts. A lot of research is being done on printing electronics. This could make it easy to not only design your own radios and radio accessories, but also print them.

3. Print replacement parts: You could use 3D printing to print replacement parts. If you want a new dial for your radio, you can simply print it to suit your own specifications. Or perhaps, you need a new bracket for your microphone? Again, why not print it and save both money and the hassle of finding the right part. You could also recreate plastic parts for radios that are no longer being made. With 3D printing, the possibilities really are endless.

4. Cultivate a love for making things: With both the open source 3D printing movement and ham radio, we learn how to make things. Cultivating an appreciation for 3D printing will provide you with a good basis for ham radio. You'll learn everything you need to know about making, and that's all you need to get started with ham radio.

5. Reach out to the 3D printing community: Like ham radio, the Reprap community is extremely active and is always encouraging new hobbyists to join. From the guys who have basic skills to the most advanced people who could design new electronics in their sleep, the 3D printing community is thriving. Many of them might also be interested in 3D printing. Why not reach out to the 3D printing community? Who knows, if you combine 3D printing and ham radio you might be able to attract young blood.

3D printing can be a major resource for ham radio. Both to help build a new skillset and as a resource for teaching technical skills. In addition to getting more people interested in ham radio, this could inspire makers to invent new ham radio gadgets. It's up to ham operators to embrace this ever-evolving technology and use it to their advantage.

Mike Grauer Jr. is a Puget Sound area 3D printing consultant and evangelist for home 3D printing. He has a BFA in Animation and a MBA in marketing. He is active in all areas of 3D printing. *(www.inside3dp.com)*

Young Ham Recognized for Navigation Aid for Visually Impaired

October 16, 2014

A young radio amateur from California is one of nine *Popular Mechanics* "Future Breakthrough Award" winners. Shiloh Curtis, KK6ISM, developed a "hat-based, hands-free, haptic navigational aid for visually impaired individuals." As the publication explained, after a friend from her school's robotics club described going blind as losing "two eyes and one hand," Curtis determined to come up with a way to free up the hand that would be wielding the classic white cane. Robotics was the key.

"A robot is blind until you put sensors on it," she told *Popular Mechanics*. "Why don't we put sensors on the blind, so they can navigate like robots?"

She combined a wide-brimmed hat, vibrating motors, and a robot vacuum cleaner's laser distance sensor to come up with the wearable device that warns the wearer of obstacles through vibrations.

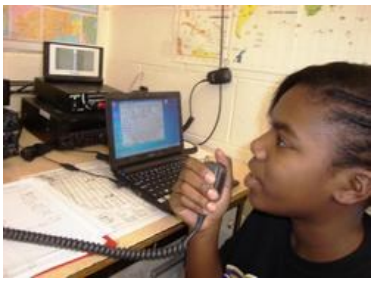
Shiloh Curtis is a junior at Laughing Thunder Academy in Sunnyvale, California. She has been recognized as the winner of California State Fair "Project of the Year" and was an Americas Regional finalist in the Google Science Fair. She is the daughter of Dave Curtis, N6NZ. -- *Thanks to Ward Silver, N0AX, and Bob Wilson, N6TV - The ARRL Letter*

Shiloh Curtis, KK6ISM, wears her "breakthrough" device. [Gordon Kelly Photography photo]

School Club Roundup is Coming to Town!

October 16, 2014

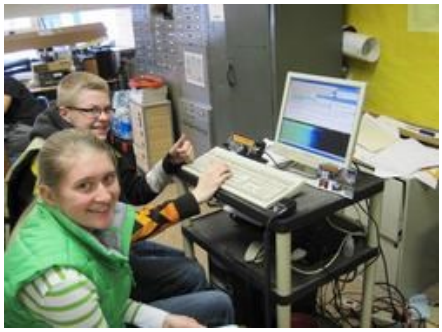
Is it the ARRL November Sweepstakes that kicks off the ARRL's fall HF contest season? No! School Club Roundup (SCR) leads the parade, warming up students across the land. By this time, fall quarter or semester is well underway, and clubs are at full throttle. October typically exhibits good fall propagation, and clubs should find it easy to make contacts across the continent and around the world, even with a modest station. Unlike most contests, this one takes place through the week, beginning at 1300 UTC on October 20 and running through October 24 at 2359 UTC. Stations may operate for a maximum of 24 hours through the entire contest and are limited to 6 hours of operation during any single 24-hour period.



Deavana looks for contacts during the 2012 SCR from the Eisenhower Middle School KF5CRF Viking Radio Club station.

Participation is simple, and there's a home for everybody. There are five categories of club entries: Elementary/ Primary, Middle/ Intermediate/ Junior High School, Senior High School, College/ University Club, and Non-School Club. There is also an Individual category.

If you just want to get on the air and hand out contacts, enter in the Individual category. Any mode -- SSB, CW, or digital -- is okay. Tune around and listen for SCR stations calling CQ, or do it yourself and see who answers (call "CQ School Clubs," if you aren't a club station). Once you make a contact, exchange a signal report, category (School, Club, or Individual), and your state, province, or DXCC entity. After the contest is over, submit your log online (preferred) or by paper.



These students at the Glenn Raymond School Science Club's W9GRS seem to be having a great time during the 2012 SCR.

The most popular time for younger students is during the after-school hours, but the older students may be on the air at any time. All groups are limited to one transmitter on the air. By no means do the older students automatically win. The February SCR results were a shootout with the K1BBS Burr and Burton ARC high school team prevailing over all challengers, edging out the K5LMS Lampasas Middle School Youth ARC.

The School Club Roundup is co-sponsored by the ARRL and the Long Island Mobile Amateur Radio Club (LIMARC), and results appear in *QST* as well as online. Bruce Horn, WA7BNM, has created a web entry service that accepts scores and logs. Paper logs and summary sheets are still available, but participants might want to try the logging program SCR-LOG, which is written especially for the School Club Roundup. Other logging program choices are listed on the SCR website.

Once the contest is over, browse to the WA7BNM web service and upload your log. As soon as the log deadline passes on November 8, the web service automatically sorts and displays all claimed scores. Logs are reviewed by the LIMARC team, and final results are posted afterward. Certificates will be generated at the same time for downloading and printing.

While you're at it, upload some photos of your school team in action to the ARRL Soapbox to show off your team members. *-- Thanks to Ward Silver, N0AX - The ARRL Letter*

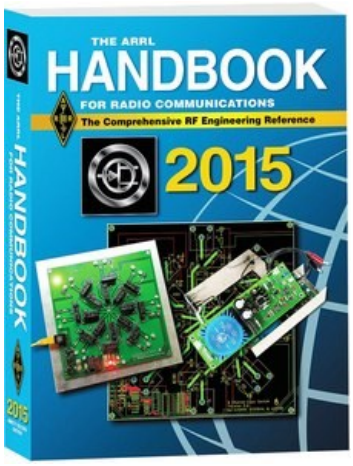
The 2015 Edition of *The ARRL Handbook for Radio Communications* is Now Available!

October 23, 2014

The 2015 *ARRL Handbook for Radio Communications* is now shipping, and, while supplies last, you can get the hardcover edition for the softcover price. *The ARRL Handbook* provides the theory, practical information, and construction details to expand your knowledge and skill as an Amateur Radio operator and experimenter. This 92nd edition of *The ARRL Handbook* is at the forefront of the growing field of wireless telecommunications. The book covers not only the fundamentals of radio electronics -- analog and digital -- but also offers practical circuit and antenna designs as well as information on computer-aided design, digital operating modes, equipment troubleshooting, and reducing RF interference.

Many projects and construction articles are included to help enhance your station and expand your participation as an active radio experimenter.

Practical applications and solutions make *The ARRL Handbook* a must-have for hobbyists and technical professionals. For years now, the Handbook has been a staple on the work bench and operating desk as well as in university libraries and classrooms.



The ARRL Handbook is available in hardcover and softcover from the ARRL Store or your ARRL Dealer. Hardcover, ARRL Order No. 0218, ISBN: 978-1-62595-020-8, $59.95 retail, special offer $49.95. Softcover, ARRL Order No. 1920, ISBN: 978-1-62595-019-2, $49.95 retail. Call (860) 594-0355 or, toll-free in the US, (888) 277-5289. *The ARRL Letter*

Indonesia's New Leaders Are Radio Amateurs

October 30, 2014


Indonesia's new president Joko "Jokowi" Widodo, YD2JKW.

Indonesia's new national leaders are both Amateur Radio licensees.

President Joko "Jokowi" Widodo, YD2JKW, holds a General class license. Vice President Jusuf Kalla, YC8HYK, is an Advanced class licensee.

Elected in July, Jokowi, 53, and Kalla, 72, were inaugurated on October 20 in Jakarta. Indonesia is the world's third-largest democracy, with a population of approximately 250 million. Secretary of State John Kerry represented the US at the inauguration and met with the new president afterward.

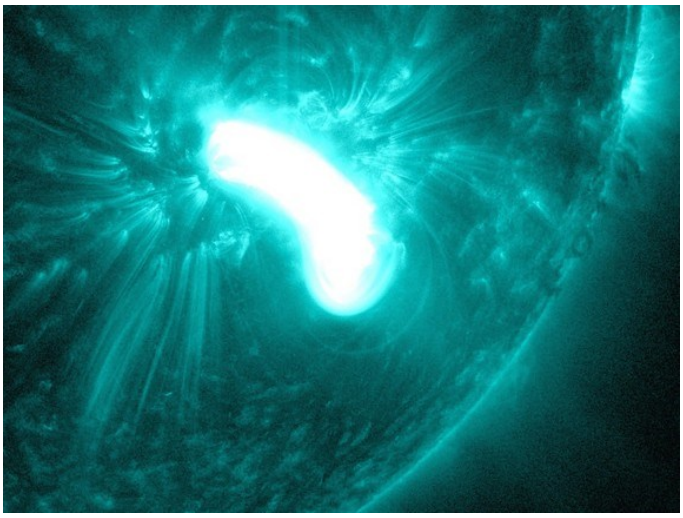

Indonesia's Vice President Jusaf Kalla, YC8HYK.

Jokowi previously served as Governor of Jakarta and as Mayor of Surakarta.

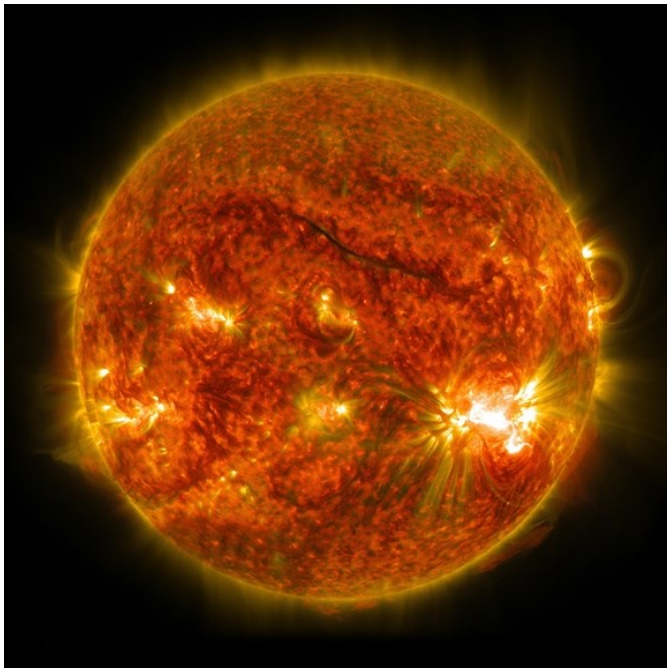
Largest Sunspot In a Quarter Century Spews Flares

October 29, 2014

schwit1 writes: The largest sunspot seen in about a quarter century has produced another powerful X-class flare today, the sixth in less than a week. "This was the sixth X-class solar flare from NOAA 2192, a record for the number of X-class flares generated by a single group so far this solar cycle. It was also the fourth X-class flare since last Friday, continuing a period of intense flaring activity. This sunspot group has grown again a bit, and maintains its magnetic complexity. A degradation of the HF radio-communication was observed over South-America, the Caribbean, and West-Africa." The last sentence is referring to some radio communications blackouts that have occurred in these areas because of the flares.



NASA's Solar Dynamics Observatory caught this image of an X1-class solar flare erupting from the sun on Oct. 25, 2014. Credit: NASA/SDO



The sun unleashed an X2-class solar flare on Oct. 26, 2014. NASA's Solar Dynamics Observatory captured this photo of the flare (lower right). Credit: NASA/SDO

New Sunspot AR2205 Rotating Toward Earth

November 7, 2014

Meantime, a new sunspot region, designated AR 2205, has already produced four medium M-class flares and is rotating in Earth's direction. AR 2205 unleashed the flares including one rated M6. That flare was recorded by NASA's Solar Dynamics Observatory on November 3rd at 22:40 UTC. Sunspot AR 2205 has also produced several Coronal Mass Ejections though these did not head toward our planet. Observers at the Space Weather Prediction Center are monitoring it carefully. For the latest updates take your web browser to spaceweather.com. *(space.com, spaceweather.com)*

Latest CQ-DATV Magazine Is Now Available For Free Download

November 7, 2014

The November issue of the CQ-DATV e-magazine is now available for free download. The new issue contains the latest amateur television news from around the world, an editorial, Ian Abel, G3ZHI, that asks why ATV repeaters do not have internet inputs, a simple microwave detector for 10 GHz by John Hudson G3RFL and much more. Those interested can find this issue and those of previous months at tinyurl.com/datv-november-2014. *(CQ-DATV)*

ARRL Introduces Kindle Edition of *Ham Radio License Manual*

November 6, 2014

The ARRL has introduced a digital edition of *The ARRL Ham Radio License Manual* (3rd edition), its most popular introduction to Amateur Radio. The e-book includes everything a newcomer needs in order to prepare for the Amateur Radio license exam. The digital edition is available in the Kindle format from Amazon, which has long identified the print edition as a best seller.

"As the leading publisher of Amateur Radio licensing and training materials, ARRL is expanding beyond traditionally printed books to meet the increasing demand from readers who prefer digital publications and online content," ARRL Marketing Manager Bob Inderbitzen, NQ1R, said. "Finding the next generation of radio amateurs requires meeting prospective hams where they are reading and consuming content."

ARRL offers Kindle editions of its question-and-answer study guides, ARRL's Tech Q&A, ARRL's General Q&A, and ARRL's Extra Q&A. ARRL license manuals are also available directly from ARRL and many other ARRL publication dealers.

The ARRL Letter

Rick Lindquist, WW1ME, Editor

A Century of Amateur Radio and the ARRL

October 9, 2014

Part of the 220 MHz band, perpetually under attack by other radio services, was snatched from the Amateur Service on August 4, 1988, by the FCC, which reallocated 220-222 MHz to the Land Mobile Service. ARRL had been fighting this battle for some time and would continue efforts have that band segment return to the Amateur Service.

January 1989 *QST* published "The Listener," a quick, but interesting, look at the efforts of pioneer radio astronomer Grote Reber, W9GFZ.

On January 30, 1989, the FCC released the news that the much-awaited 17 meter ham band was open for business in the US!

The editorial in the May 1989 *QST*, "Spectrum Management, or Abdication?" decried a recent FCC action to allow manufacturers of electronic equipment to radiate unlicensed signals on hams bands from 902 MHz upward. The ARRL continued its defense of amateur frequencies by preparing to go to Congress for relief, using this as the latest example of FCC out-of-control decision making.

A two-part article by KO5I and N4HY in the May and June 1989 issues of *QST* introduced the latest generation of OSCAR satellites -- microsats.

In July 1988, a team of hams from Finland and the Soviet Union mounted a DXpedition to a new DXCC country, Malyj-Vysotkskij ("M-V Island"). This ended an 18-year effort to put the island on the *DXCC List*. Participant Martti Laine, OH2BH, recounted the experience in a June 1989 *QST* article. [The lease of Malyj-Vysotkskij to Finland expired in 2012, the island reverted to Russia, and MVI was deleted from the DXCC list. -- *Ed.*]

On May 11, 1989, a congressional oversight committee summoned the FCC's chief engineer to defend the Commission's decision to take 220 to 222 MHz away from amateurs and allocate it to another service. Following the hearing, the committee chairman wrote the FCC, asking it to reconsider alternatives. The FCC stonewalled and did nothing. The ARRL subsequently filed a federal court appeal.

On July 20, 1989, the newly renovated W1AW building was rededicated. Nearly 10,000 individual donors had put up almost a half million dollars to fund the renovation.

In the "How's DX?" column in the September 1989 issue of *QST*, Ellen White, W1YL, noted "Pitcairn Island's Bicentenary," a fascinating read. White noted that Pitcairn was the country with the highest per capita number of hams in the world -- 6 hams out of a population of 60! The island's 200th anniversary was celebrated in part by special event station VR200PI.

In 1990, a husband-and-wife team achieved DXCC on 6 meters. The wife, K5FF, was first, and her husband, W5FF, was right behind.

An interesting photo in "Up Front in *QST*" in September 1990 showed Samuel F. B. Morse III, W6FZZ, operating at a special event station to celebrate his great-grandfather's 199th birthday.

The 4J1FS DXpedition team on Malyj-Vysotskij, "MV Island" in 1988. [From the K8CX QSL collection, www.hamgallery.com]

An article by NU1N appeared in the September and October issues of *QST* telling how we could get on the air using lasers.

-- Al Brogdon, W1AB - The ARRL Letter

A Century of Amateur Radio and the ARRL

October 16, 2014

The October 1990 *QST* reported on the 3Y5X Bouvet Island DXpedition of 1989-1990. This $330,000 venture -- funded by the participants and by donations from hams around the world -- produced nearly 50,000 contacts on all HF bands on SSB, CW, and RTTY.

The first World Radiosport Team Championship was held in Seattle in 1990, as part of the International Goodwill Exchange Event.

Marking the 75th anniversary of *QST*, the magazine's December 1990 issue published an overview of those 75 years, written by WJ1Z. The article noted that at the time the first issue of *QST* was published, the League's membership was 635.

On October 28, 1990, W5UN worked his 100th country via EME (moonbounce). Not content to rest on his laurels, by November 4 he was up to 104 countries. Dave might have made EME DXCC earlier, had it not been for a tornado that wrecked his first 32 dBi-gain moonbounce array.

The FCC instituted the new "codeless" Technician license on Valentine's Day 1991. Within the first two weeks, 313 people had applied, and the first such license was issued to N3IFY.

An interesting airplane accident story was published in March 1991 *QST*. Gary, V31KX, was aboard a flight in Belize that went down on November 14, 1990. After the forced landing, Gary retrieved his 2 meter handheld from his luggage, connected it to the aircraft's 121 MHz antenna and made a successful call for help.

Operation Desert Storm began in 1990, and MARS stations were activated to handle personal messages, including phone patches, between members of the military and their families back home -- a major morale-booster. Those efforts of American amateurs operating under their counterpart MARS call signs generated a great amount of positive publicity for Amateur Radio.

The May 1991 *QST* article, "Last Voice from Kuwait," told how Abdul, 9K2DZ, hid his amateur gear from Iraqi soldiers when they came to confiscate it. When they demanded his radio equipment, he gave them a broken radio! After that, he used AMTOR and APLINK to handle health-and-welfare messages in and out of Kuwait. Many of Abdul's messages were forwarded to the media, Department of Defense, Department of State, and the White House. Again, good reviews for Amateur Radio.

The 3Y5X Bouvet Island QSL card.

During 1991, many hams made contact with the Soviet *Mir* space station, thanks to the efforts of operator Musa, UV3AM. Another Amateur Radio first occurred in 1991: The entire crew of the space shuttle *Atlantis* on its STS-37 mission (April 5-11, 1991) was comprised of hams, and Space Amateur Radio EXperiment (SAREX) ham gear was aboard. -- *Al Brogdon, W1AB - The ARRL Letter*

A Century of Amateur Radio and the ARRL

October 23, 2014

A first took place on Space Shuttle mission STS-37. SAREX (Shuttle Amateur Radio EXperiment) provided live communication from the shuttle into many school classrooms to teach the students about space exploration and Amateur Radio.

In July 1991, N6CA and KH6HME set a new record on 3456 MHz between California and Hawaii. Each was running 5 W to a 4-foot dish.

In 1992, after 8 years as ARRL President, Larry Price, W4RA, declined to run for re-election. The League's Board of Directors subsequently chose him as the next International Affairs Vice President, which provides liaison with the IARU, which Price served as Secretary. George Wilson, W4OYI, succeeded Price as ARRL President.

N7FKI and W7ZOI reported in the March 1992 *QST* that they had built a one-transistor 10 meter CW transmitter and made contacts with it using lemon power -- essentially a cell made by inserting appropriate electrodes into a lemon. If life gives you lemons, make contacts!

During the early 1990s, interest in digital communication grew, and *QST* published many articles on the subject that helped fan the flames.

The Atanasoff-Berry computer used racks of vacuum tubes.

Also, hams became interested in the old concept of direct-conversion receivers. KK7B presented one of the best in the August 1992 issue of *QST*. Another old receiver circuit was also revived -- the regenerative receiver. WJ1Z described one for 40 meters in the September 1992 issue of *QST*.

By the early 1990s, digital signal processing (DSP) had made its appearance, and had begun to be used by both home brewing hams and equipment manufacturers.

A September 1992 *QST* article, "ABC: The First Electronic Digital Computer," recounted the fascinating tale of the first real computer, the Atanasoff-Berry computer -- a vacuum tube device -- designed in 1939 and 1940 by university professor John Atanasoff and built by electrical engineering student Clifford Berry, W9TIJ. -- *Al Brogdon, W1AB - The ARRL Letter*

A Century of Amateur Radio and the ARRL

October 30, 2014

A photo story in "Up Front in *QST*" in January 1993 noted that President George H.W. Bush had made an official visit to Springfield, New Jersey, to meet with local and state officials. One of those officials was Jeff, WB2DCJ, who coaxed the President into greeting some locals on 2 meters. "Hey, how are you guys doing?" Bush said on the radio. "Nice to talk with you."

That same issue of *QST* noted that DXCC credit was now being given for contacts with three new entities -- Croatia, Slovenia, and Bosnia-Hercegovina -- that emerged from the breakup of the former Yugoslavia.

By 1993, as the number of licensed amateurs increased, so did the number of intentional violations of FCC rules. The Commission responded by getting tough and levying severe fines on intentional wrongdoers, and in some cases taking offenders to court.

The July 1993 issue of *QST* published the tale of K3KMO's 10,500 mile motorcycle trip from Maryland to Alaska and back, all the while operating HF CW in motion. CW contacts with hams all over the world helped while away the long hours driving along the road.

In the 1970s, the FCC banned amateur communications for business purposes. The vague wording of those rules became interpreted in a progressively stringent manner over the years, however, curtailing the use of Amateur Radio to support even meritorious public service activities. In July 1993, the FCC changed its rules to allow hams to provide communication for worthwhile public service activities. The final rules were adopted almost verbatim from the suggestion made by ARRL.

The 10th anniversary of Amateur Radio as part of NASA space shuttle missions was observed in 1993, with five shuttle crews requesting that ham radio be part of the payload that year. *-- Al Brogdon, W1AB – The ARRL Letter*

A Century of Amateur Radio and the ARRL

November 6, 2014

VHF/UHF scanners had become very common by the 1990s, and many local and state governments enacted laws making their use illegal. At the same time, several manufacturers of amateur VHF/UHF equipment started including scanners in their amateur transceivers, which provided reception outside the ham bands. This put some hams between a rock and a hard place.

In the late 1980s, the ARRL launched an effort to have the FCC clarify its rules regarding scanners. Finally, on August 20, 1993, FCC published a *Memorandum and Order* to settle the issue. The *Order* stated that hams have a federal right to own and operate their equipment, which pre-empts state and local radio laws. Furthermore, the FCC's decision supported, at length, the very essence of the purpose of the Amateur Service. Once again, the League represented our interests and preserved our place in radio.

One of the Nobel Prizes awarded in 1993 went to Joe Taylor, K1JT, and Russell Hulse, ex-WB2LAV, for their discovery of binary pulsars and their investigation of the gravitational fields exerted by those ultra-dense stars. Joe credited his interest in Amateur Radio while still a teenager as leading to his chosen field of physics and to his Nobel Prize.

By 1995, the FCC had implemented electronic filing of license applications, greatly reducing the time lapse between passing a license exam and getting the license. The new system often reduced the waiting period to as little as 2 weeks.

By the 1990s, digital signal processing (DSP) was coming into use in the form of both homebrewed and factory-made devices. "DSP — An Intuitive Approach," by W9GR, in the February 1996 issue of *QST* explained how DSP works and urged hams to give it a try. *— Al Brogdon, W1AB*

The ARRL Letter

Rick Lindquist, WW1ME, Editor

MEMBERSHIP INVITATION

Our term of membership runs from November 1 to October 31 of the following year. Each and every year it is increasingly more difficult to get Amateurs to commit to membership in their local club due to the alternate functions we are asked to fund.

The **London Amateur Radio Club** has a long history of providing technical support, social support and repeater facilities. Public service efforts are currently provided by a club affiliation with Amateur Radio Emergency Services (**ARES)** and **Radio Amateurs of Canada (RAC)**.

Your Directors work tirelessly to provide meeting topics that are informative and entertaining, events that are timely (Christmas meeting, field day, bus trip) and participate in events that display and promote Amateur Radio in the community.

To be effective in its pursuits, the Club needs the support of the local Amateur fraternity through membership.

While we obtain financial support from our Annual Flea Market, we require membership support to fund such things as meeting hall rent, repeater sites rent and maintenance, web site fees, membership cards and liability insurance. For what it's worth, none of these things are getting any cheaper.

The cost of membership has not changed for a number of years and even in the face of increased cost, we would like to keep it that way.

With more than 1000 'hams' in the London area, it's inconceivable that less than 10% support a pastime about which most of us are passionate.

PLEASE, make a choice and do your part to keep the **London Amateur Radio Club** alive and well by purchasing your membership at our next meeting (or by mail – details on our web site). The cost is only $30.00 (single) or $35.00 (family residing at the same address).

LONDON AMATEUR RADIO CLUB Inc.
MEMBERSHIP APPLICATION FORM

☐ Single Membership: $30.00 ☐ Renewal
☐ Family Membership: $35.00 ☐ New Member

Name: _____ **Call Sign**: _____

RAC Member? ☐ Yes ☐ No **RAC Member #** _____ **ARES Volunteer**? Yes ☐ No ☐

Address: _____

City: _____ **Prov**: _____ **Postal Code**: _____

Privacy policy: We do not publish private member contact information in the newsletter, or on the Web site. Occasionally other members will ask how to contact other members via email or phone.

☐ I wish to receive LARC News by email

☐ I give permission to have my email address given to other LARC Executive members when requested

☐ I give permission to have my email address given to other LARC Members when requested

☐ I give permission to have my phone number given to other LARC Executive members when requested

☐ I give permission to have my phone number given to other LARC Members when requested

Email Address: _____ Phone Number: _____

My interests are:

☐ HF-SSB	☐ Contesting	☐ ARES	☐ Mentor/Elmer
☐ HF-CW	☐ VHF/UHF	☐ SATERN	☐ Require Mentoring
☐ HF-RTTY	☐ Repeaters	☐ CANWARN	☐ Event Communications
☐ HF-Digital Modes	☐ APRS	☐ Field Day	☐ Special Events
☐ Slow Scan TV	☐ Satellite	☐ Kit Building	☐ Mesh

Family Membership *(Must be living in the same household)*

Name: _____ Call Sign: _____

Name: _____ Call Sign: _____

Name: _____ Call Sign: _____

Date: _____

All information requested should be completed - this will be used for the club's membership database only.

Please make cheque payable to: ***London Amateur Radio Club Inc.***

Mailing Address: London Amateur Radio Club
c/o Membership Director, VA3MSV
P.O. Box 82, Station B
London, Ontario, N6A 4V3

Paid: _____
Cash: ☐ Cheque: ☐
Membership Card Needed: ☐
Sticker Needed: ☐

Rob Hockin VA3HO
PO Box 13
Komoka, ON
N0L 1R0

2014-07-26

The Board of Directors
London Amateur Radio Club
London, ON

I have examined the books of receipts and disbursements of London Amateur Radio Club Inc, prepared by your treasurer for the year ended June 30, 2014.

In my opinion, the statements of cash receipts and expenditures present fairly the results of the club's operations.

All three of the clubs GICs matured in July 2013 and were renewed including interest with a new maturity date of October 2014.

London Amateur Radio Club Inc
Summary of Revenues and Expenses
Year ending June 30, 2014 (with comparative figures from previous year)

		Jul 1, 2013 - Jun 30, 2014		Jul 1, 2012 - Jun 30, 2013	
	Opening Balance July 1		$14,089.17		$16,321.86
plus	**Revenue**		$20,804.79		$6,968.56
	Fleamarket	$3,452.75		$3,389.25	
	Membership Dues	$1,680.00		$1,915.00	
	Hammond Museum Tour	$561.00		--	
	Meeting Refreshments	$366.11		$181.91	
	50/50 Draw	$310.95		$317.00	
	Bank S/C rebates	$59.40		$59.40	
	T-shirts	$20.00		$12.00	
	Donations	$5.00		--	
	Ham Courses	--		$1,094.00	
	GICs redeemed	$13,584.90		--	
	Investment Interest	$764.68		--	
	TOTAL of opening balance & revenues		$34,893.96		$23,290.42
less	**Expenses**		$23,763.25		$9,201.25
	Fleamarket	$2,996.98		$879.79	
	Rent - Storage Unit	$1,166.16		$1,024.03	
	Rent - Meeting Space	$720.00		$720.00	
	Rent - Post Office Box	$194.36		$194.36	
	Equipment Purchases (see NOTE 1)	$1,032.87		$2,115.11	
	Insurance	$969.84		$942.84	
	Hammond Museum Tour	$576.30		--	
	Meeting Refreshments	$532.84		$353.48	
	Field Day	$363.73		$680.58	
	Books for LARC Library	$120.91		--	
	Other Meeting Expenses	$100.37		--	
	Awards	$72.15		$234.14	
	Christmas Meeting	$60.11		$39.99	
	Web Hosting	$59.88		--	
	Affiliations: RAC	$31.58		$31.58	
	Affiliations: WNYSORC	$10.00		$10.00	
	Repeater Maintenance	$21.19		--	
	Printing Costs	--		$288.98	
	Guest Speaker Expense	--		$32.42	
	50/50 Tickets	--		$11.29	
	Ham Courses	--		$1,583.26	
	GIC Purchases	$14,349.58		--	
	Bank Charges	$59.40		$59.40	
	Donation: Hammond Museum	$175.00		--	
	Donation: Defence of Amateur Radio	$100.00		--	
	Donation: Komoka Railway Museum	$50.00		--	
	Closing Balance June 30		$11,130.71		$14,089.17
	Total of closing balances and expenses		$34,893.96		$23,290.42

NOTE 1: Equipment Purchases totalling $1,032.87 are listed below.

Outdoor Lights	$45.15
Banners/Signs	$361.60
Wind Curtains for Gazebo Tents	$76.84
Megaphone	$29.08
Repeater Controller, UHF Radios, Power Supplies	$475.00
Table, rollup	$45.20