



KEYCLICKS

APRIL
2022

PARKS ON THE AIR - POTA



President's Report

Announcements &
Radio License Testing

Special Announcements

Car Radio History

The M17 Project Protocol



Published by Lancaster Radio Club

Editor KD4HLV

President's Report



FD2009



FD2021

Greeting All,

I hope everyone is doing well, despite Old Man Winter not fully letting go yet ! Spring has sprung with a bunch of different events, either scheduled or in the stages of being scheduled for this year. If you have something you would like to do, let us know !

Recently, (over the last week) you have seen a few emails come out about different events!

First Off, LARC/W2SO is getting into POTA!

At our April General Membership Meeting, we had Matt Brown (K2EAG) and Orlando Monoco (W1OMR) give us a presentation on POTA from their view points! What does POTA stand for ? POTA is Parks On The Air. After their presentations, they both answered a swarm of questions from the membership.

Both Orlando and Matt provided us with several links (see below), Orlando from the POTA site, and Matt from the Erie Canalway National Heritage Corridor as well.! Job well done guys ! Thank You.

We will have Greg Ramsdall (KD2MIC) doing a future follow up on a Thursday night presentation, at the clubhouse.

LARC/W2SO GOING LIVE...this Thursday...!

With everything said and done, anyone that wants to join in the POTA fun, can meet us Thursday April 14 th at Tilman Rd. Wildlife Management Area. It's under 4 miles and 7 minutes from the clubhouse.

Matt K2EAG, Angela N3ARB, Dave KD2PMU and I (W2SAL) will come out and set up radios. Matt will show us how to activate the POTA site. We will have a few radios and antennas set up to have operators get on the POTA air "LIVE" ! We look forward to seeing you there.

Con't on page 3

Prez Report cont.....

Here are the directions to the Tillman Rd. parking area. This lot will hold 10-12 cars if we stack them. I picked up some banners from the club! I'll also have a easy up, 2 folding chair(s) and a table or two....just in case ! Address: 10101-10369 Tillman Rd, Clarence, NY 14031 Or use your GPS, and head to 42.9603822 - 78.6024968,16z or copy and paste this link to google maps <https://www.google.com/maps/@42.9603822,-78.6024968,16z>

From Ransom Rd. (between Genesee and Wherle), head west down Tillman Rd. just about a mile. parking area is on the left. Park on Tillman Rd (use the south side) parking lot side, by Shishler Rd.

From Wehrle Dr. heading east look for Shisler Rd on the right. Take Shisler to the end (bend in the rd.). It turns into Tillman as you come out of the bend. Go about 200ft and you will find the parking lot on the right.

Talk In is on the Lancaster repeater.

Remember to go make you POTA account. I did mine and already have 10 hunter credits, without even trying.

Extra DEC link to enjoy, https://www.dec.ny.gov/docs/wildlife_pdf/tillman.pdf
(=====)

Night at the Ball Park

Second, LARC / W2SO is planning a “Night at the Ball Park” at Sahlen Field on Thursday July 7 th Bisons vs. Syracuse, 7:05p game start !

We are in the final stages of locking this down. This event is open to any/all members, their family and friends, as well. Right now we need to know if you are interested and how many seat/tickets you will need. Please let Luke (N2GDU luke48@gmail.com) or myself Sal (W2SAL sal_zarbo@yahoo.com) know A.S.A.P. how many tickets you would like.

Sahlen Field (map - <https://www.google.com/maps/place/Sahlen+Field/@42.8804408,-78.8759458,17z/>)

(=====)

LARC Club Auction

When: Thursday April 21st , Doors open at 6:00p for set up.

Time: Auction starts promptly at 7:00pm.

Where: OEM Bldg., 525 Pavement Rd. Lancaster, NY 14086

NOTE: If you plan on bringing ham gear to sell, please pre-price it hi/low at home.

Remember your power cords, manuals and microphones.

John KW2JR our auctioneer, will be running the auction and gives the seller the option to reduce the asking price so the item gets a new home. For more info contact John jprusso@buffalo.edu This is a CASH ONLY auction !

Talk In: Lancaster Repeater:147.255+ PL 107.2

Admission: FREE FREE FREE !

(=====)

Next Board Meeting : Thursaday April 28 th @7:00pm

Next General Membership Meeting : Tuesday May 3 rd.

(=====)

And here is the rest of the line-up in the near future !

Field Day 2022 Fast approaching, it will be here before you know it.

Field Day Set Up - June 24th set up day at Steve's AG2AA's qth, bring your computer, camp out..

Field Day starts Jun 25-1800Z, - Jun 26, 2059Z, Let's get our gear tested and ready to go now. Don't wait till FD to try something!

(=====)

Con't on page 5

Prez Report cont.....

John Maxwell - giving a preparation course for those wishing to upgrade their license to Amateur Extra.

This course is open to the general public, Email John at w2jm _at_ arrl.net or (716) 404-W2JM [(716) 404-9256], DO TEXT ! You will meet for two (2) hours per session (7-9pm), two (2) days per week (Mondays and Wednesdays).

Session 1: Monday, 18 April, 2022 thru Session 10: Wednesday, 18 May, 2022!

The exam is scheduled for Monday, 23 May, 2022, at 7pm at the LARC clubhouse.

(=====)

Other POTA related links

POTA - <<https://parksontheair.com/>>

POTA Maps: <https://pota.app/#/map>

DX Entity select United States of America.

Location select New York.

On Callsign and Park select Reference # (if you know it) , or select Name.

The *POTA YouTube Channel* includes great getting started videos:

Parks On The Air - YouTube

<https://www.youtube.com/channel/UCqKZFcjrCw9zY51CfkQc_FA>

(=====)

POTA Equipment

Where Matt purchased his winter "*POTA Hut*", Eskimo 69445 Quickfish 3i Portable Insulated Pop-Up Ice Fishing Shelter, 3 Person – Walmart.com <<https://www.walmart.com/ip/Eskimo-69445-Quickfish-3i-Portable-Insulated-Pop-Up-Ice-Fishing-Shelter-3-Person/45806336>>

(=====)

Stay Safe / Keep pushing that PTT.

Sal / W2SAL



FD2020

I am a ham here in Alden and have a power supply for sale, an Astron RS 35M. I purchased it from Ham Radio Outlet four years ago. It looks brand new and works 100%. I have the original box for it also. I am asking \$140. The reason I am selling it is because I just purchased a new power supply.

Please announce it at the next club meeting. Anyone interested can contact me on my cell at 716-308-5291 or my email address at CQqrz73 at roadrunner.com.

Thank you and 73,Fritz WB2QWH

Keep your dial locked on W2SO for updates!!

Send in those items to post!



HISTORY OF THE CAR RADIO

Seems like cars have always had radios, but they didn't. Here's the story:

One evening, in 1929, two young men named William Lear and Elmer Wavering drove their girlfriends to a lookout point high above the Mississippi River town of Quincy, Illinois, to watch the sunset. It was a romantic night to be sure, but one of the women observed that it would be even nicer if they could listen to music in the car.

Lear and Wavering liked the idea. Both men had tinkered with radios (Lear served as a radio operator in the U.S. Navy during World War I) and it wasn't long before they were taking apart a home radio and trying to get it to work in a car.

But it wasn't easy: automobiles have ignition switches, generators, spark plugs, and other electrical equipment that generate noisy static interference, making it nearly impossible to listen to the radio when the engine was running. One by one, Lear and Wavering identified and eliminated each source of electrical interference.

When they finally got their radio to work, they took it to a radio convention in Chicago.

There they met Paul Galvin, owner of Galvin Manufacturing Corporation. He made a product called a "battery eliminator", a device that allowed battery-powered radios to run on household AC current. But as more homes were wired for electricity, more radio manufacturers made AC-powered radios. Galvin needed a new product to manufacture.

When he met Lear and Wavering at the radio convention, he found it. He believed that mass-produced, affordable car radios had the potential to become a huge business.

Lear and Wavering set up shop in Galvin's factory, and when they perfected their first radio, they installed it in his Studebaker. Then Galvin went to a local banker to apply for a loan. Thinking it might sweeten the deal, he had his men install a radio in the banker's Packard. Good idea, but it didn't work. Half an hour after the installation, the banker's Packard caught on fire. (They didn't get the loan.)

Galvin didn't give up. He drove his Studebaker nearly 800 miles to Atlantic City to show off the radio at the 1930 Radio Manufacturers Association convention. Too broke to afford a booth, he parked the car outside the convention hall and cranked up the radio so that passing conventioners could hear it. That idea worked. He got enough orders to put the radio into production.

WHAT'S IN A NAME: That first production model was called the 5T71. Galvin decided he needed to come up with something a little catchier. In those days many companies in the phonograph and radio businesses used the suffix "ola" for their names. Radiola, Columbiola, and Victrola were three of the biggest. Galvin decided to do the same thing, and since his radio was intended for use in a motor vehicle, he decided to call it the "Motorola."

But even with the name change, the radio still had problems:

- When Motorola went on sale in 1930, it cost about \$110 uninstalled, at a time when you could buy a brand-new car for \$650, and the country was sliding into the Great Depression. (By that measure, a radio for a new car would cost about \$3,000 today.) In 1930, it took two men several days to put in a car radio. The dashboard had to be taken apart so that the receiver and a single speaker could be installed, and the ceiling had to be cut open to install the antenna.

- These early radios ran on their own batteries, not on the car battery, so holes had to be cut into the floorboard to accommodate them.

- The installation manual had eight complete diagrams and 28 pages of instructions.

- Selling complicated car radios that cost 20 percent of the price of a brand-new car wouldn't have been easy in the best of times, let alone during the Great Depression.

cont on page 7

HISTORY OF THE CAR RADIO cont

Galvin lost money in 1930 and struggled for a couple of years after that. But things picked up in 1933 when Ford began offering Motorola's pre-installed at the factory. In 1934 they got another boost when Galvin struck a deal with B.F. Goodrich tire company to sell and install them in its chain of tire stores. By then the price of the radio, with installation included, had dropped to \$55. The Motorola car radio was off and running. (The name of the company would be officially changed from Galvin Manufacturing to "Motorola" in 1947.)

In the meantime, Galvin continued to develop new uses for car radios. In 1936, the same year that it introduced push-button tuning, it also introduced the Motorola Police Cruiser, a standard car radio that was factory preset to a single frequency to pick up police broadcasts. In 1940 he developed the first handheld two-way radio, The Handy-Talkie for the U. S. Army.

A lot of the communications technologies that we take for granted today were born in Motorola labs in the years that followed World War II. In 1947 they came out with the first television for under \$200. In 1956 the company introduced the world's first pager; in 1969 came the radio and television equipment that was used to televise Neil Armstrong's first steps on the Moon. In 1973 it invented the world's first handheld cellular phone. Today Motorola is one of the largest cell phone manufacturers in the world. And it all started with the car radio.

WHATEVER HAPPENED TO the two men who installed the first radio in Paul Galvin's car? Elmer Wavering and William Lear ended up taking very different paths in life.

Wavering stayed with Motorola. In the 1950's he helped change the automobile experience again when he developed the first automotive alternator, replacing inefficient and unreliable generators. The invention led to such luxuries as power windows, power seats, and, eventually, air-conditioning.

Lear also continued inventing. He holds more than 150 patents. Remember eight-track tape players? Lear invented that. But what he's really famous for are his contributions to the field of aviation. He invented radio direction finders for planes, aided in the invention of the autopilot, designed the first fully automatic aircraft landing system, and in 1963 introduced his most famous invention of all, the Lear Jet, the world's first mass-produced, affordable business jet.

(Not bad for a guy who dropped out of school after the eighth grade.)



The M17 Project (off their website)

M17 is developing a new digital radio protocol for data and voice, made by and for amateur radio operators.

M17 protocol's voice mode uses the free and open Codec 2 voice encoder. This means there are no patents, no royalties, and no licensing or legal barriers to scratch-building your own radio or modifying one you already own.

This freedom to build, understand, and innovate is core to amateur radio, but has been missing from the commercially available digital voice modes. This is part of why amateur radio digital voice modes have largely stagnated since the 1990s and we're almost wholly dependent on commercial products that aren't well designed for amateur radio users.

M17 is about unlocking the capabilities that amateur radio hardware should already have.

Here you will find people working on radio hardware designs that can be copied and built by anyone, software that anyone has the freedom to modify and share to suit their own needs, and other open systems that respect your freedom to tinker.

+++++

In a nutshell you can take a TyT MD380 mod a few components and reflash the radio to use M17 Protocol. Didn't see if you loose the original DMR. The same and be done with a PiStar Hotspot but add M17 from what I seen, I'll have to read more.

Have Fun!! Happy Hamming -Marty KD4HLV

To read more goto, <https://m17project.org/>



Interesting Links: Click Links Below

Ham Study Website
Popular Electronic Back Issues
AmericanRadioHistory.Com
Old Fulton New York Post Card searches
Turn on Win-10 God Mode
RF Cafe Science Crossword Puzzle
All About Curcuits
Space WX
Oldschematic.com
National Silent Key Archive
Signal Identification Guide
worldradiohistory.com
foxdelt.com Kits for All kinds of stuff!

FROM THE EDITOR

If you have something of interest you would like to see in the Key Clicks. An article, your home-brew project, For Sale or would like to share your experience as an Dxer, FT8 only to mention a few. If you'd like a disk of the past Newsletters get hold of me!
Thank you for your articles.
And Remember: this is your (you the Members) Newsletter!!
Thank you for allowing me to assemble it for you! -Marty
Send to: kd4hl(at)arrl(dot)net

Announcements

Special Announcement

If your not receiving the Reflector, pay your 2022 MEMBERSHIP DUES, Starting March 1 you will no longer receive any club emails until you are paid up. You can pay your membership on the W2SO dot Org web site using paypal or credit cards, or pay in person (cash/check only) at the clubhouse. Dues is still being collected – So for now please use our PayPal link on the W2SO.ORG home webpage and at the bottom click on “Pay my Membership Dues” and submit your (\$25.00) membership fee.

Testing Session

Next testing in Monday, 23 May, 2022, at 7pm at the LARC clubhouse.

Repeater Update:

We are starting to evaluate the noise and our antenna system.

CLUB DIRECTORY

LARC CLUBHOUSE ADDRESS

LANCASTER AMATEUR RADIO CLUB
LANCASTER TOWN CENTER
525 PAVEMENT ROAD
LANCASTER NY 14086

EXECUTIVE OFFICERS

PRESIDENT

Sal Zarbo W2SAL

VICE PRESIDENT

Dave Sepulveda KD2PMU

SECRETARY

Jen Griesbaum KD2OHD

TREASURER

Steve Piotrowski AG2AA

INTERNET ADDRESS

<http://w2so.org/>
Email Reflector:
larc@lists.w2so.org

DUES INFORMATION - YEARLY

\$25 regular Membership includes all family members
Dues run from Jan. to Dec.

BOARD of DIRECTORS

Chuck Lawson KC2BLH

Dennis Schultz N2DJS

George Kaczmarek KD2LLM

John Russo KW2JR

Joseph Gearhart WV2NY

CHAIRS

NEWLETTER EDITOR

Marty Ernst KD4HLV

MONDAY NITE INFO NET

Sal Zarbo W2SAL

MEMBERSHIP

Chris Griesbaum W1OCK

L.A.R.C. COMMITTEES

BUDGET

Joseph Gearhart WV2NY
Steve Piotrowski AG2AA

REPEATER

Marty Ernst KD4HLV
Adam Pawlowski KC2YQF
Steve Piotrowski AG2AA
Scott Thrun KB2TRO
Ron Gilson WA2WWK

INTERNET

Luke Calianno N2GDU
Adam Pawlowski KC2YQF

TURN KEY

Chris Griesbaum W1OCK

CLUB TRUSTEE

Joseph Gearhart WV2NY

REPEATERS

Lancaster, NY



Batavia, NY



AllStar Link Node 459200 -- Echolink 754795 / W2SO-R

DMR 441.025 color code 1 on Brandmaister Network

NEWSLETTER OF THE LANCASTER AMATEUR RADIO CLUB 1987-2022