



Q-Fiver

Official Newsletter of the OH-KY-IN Amateur Radio Society

In The News

*In Person Meetings,
Classes, and
Hamfests remain
cancelled, but don't
despair, you can
always*

GET ON THE AIR!!
GET ON THE AIR!!

*(Have you heard?
European openings
are on the rise!!)*

In The News

*Time to give
back to the
club as an
officer or
director!*

**Click [here](#) to
learn about the
positions!**

In The News

*Show us your pride
of workmanship!*

*Our November Meeting is
our yearly Show-and-Tell,
a chance to demo your
amateur radio creativity!*

[Click Here for Details](#)

Calendar of Events for November 2020

Tue	Nov 03	Club Meeting (see announcement page 2)
Wed	Nov 04	TechTalk Bob W8CRO
Tue	Nov 10	Board of Directors meeting (see announcement page 2)
Wed	Nov 11	TechTalk Mike N8MRS
Sat	Nov 14	Brunch Bunch Cancelled due to State Group Restrictions
Wed	Nov 18	TechTalk Dale KC8HQS
Wed	Nov 25	TechTalk George N3VQW

NOVEMBER MEETING NEWS FROM THE PRESIDENT

Club Members and Friends,

Due to the continuing situation with COVID-19, our club meetings and board meetings will be held online & by phone via Zoom for the foreseeable future. The club meeting is the first Tuesday of each month at 7:30 PM and the board meeting is the second Tuesday of each month at approximately 7:20 or so (due to a schedule challenge). Since there is no readily available means of having an anonymous voting process, we will continue to postpone voting on the bylaws changes until a more appropriate time. You do NOT need to create an account to use Zoom.

Both events (the club meeting and the board meeting) will use the same Zoom meeting code. I hope to have the meetings opened to join at least 5 minutes before the scheduled start time and hopefully earlier. Here are some tips to ensure success for everyone:

- If you are not speaking, please keep your line muted.
- For best results, use a headset or earbuds or something similar. We've seen that iPads and higher end smart phones tend to work fine with just their built-in speakers as have newer computers, but older and/or lower end smart phones have created feedback problems. A headset or earbuds will solve that virtually 100% of the time.
- If possible, join from a computer or smartphone/tablet instead of dialing in by phone. This will allow you to see who has joined as well as view video if people are sharing their video. (For our visually challenged members, phone would be just fine and probably simpler.)
- If you are going to dial in by phone, be sure to use a phone that has free long distance. Otherwise, you will be paying for long distance charges for the duration of the call.
- If you dial in, I may call out the last four digits of your phone number and ask you to identify yourself so that we can change the display from your phone number to your callsign, to help everyone know who's on the call. If you are concerned about your phone number being displayed in the meeting, dial *67 before dialing the phone number. That will block caller ID from showing your phone number.

If you have any questions, please e-mail me and I will try to answer them.

Here is the meeting info:

If you are using a computer, follow the meeting link below and you will be prompted to install and run the Zoom client. If you are using a smartphone or tablet, install the "Zoom Cloud Meetings" app and then use the meeting ID below to join the meeting. If you are dialing in by phone (use a phone with free long distance to avoid incurring charges), dial one of the phone numbers shown and then when prompted, key in the meeting ID followed by the # sign. When asked to enter your participant code, just hit the # again. There are many, many tutorials online if you need help. Remember that you DO NOT need to create an account to use Zoom.

Here is the meeting link:

<https://zoom.us/j/996062859>

Meeting ID: 996 062 859

Meeting Password for both club and board meetings: 146670

One tap mobile:

+16465588656,,996062859# US (New York)

+13126266799,,996062859# US (Chicago)

Dial by your location:

+1 646 558 8656 US (New York)

+1 312 626 6799 US (Chicago)

+1 301 715 8592 US

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US

Meeting ID: 996 062 859

Password: 146670

Thanks,

Ryan AC8UJ, President

OFFICER ROLES: A BRIEF DESCRIPTION

During the August club meeting, someone requested that we provide a description of the club officer positions up for election in December.

Each year, there are five positions up for election and any current club member may nominate himself or herself for one of the positions. Each position is very important to the operation of the club, although the specific responsibilities vary considerably.

The By-Laws of the club define the responsibilities of each role. I've quoted those below for each role except Director. Below the quote, I've provided my own commentary about the position. It's important to note that while I've tried to capture the highlights of each role, all club officers step up and perform additional tasks and take on additional responsibilities when the need arises, so the brief summaries I've provided just capture key responsibilities, not everything that each officer currently does.

President

"The President shall preside at all meetings of the society and shall be a member ex-officio of all committees, and shall perform all other duties usually pertaining to the office. The President or the President's appointee will make reports relative to the activities of the members of the society, as required for affiliation of the society with the American Radio Relay League."

The role of President is probably the most visible officer position in the club since the President leads both the general membership meetings and the Board meetings. In addition to these tasks, the President also serves as a point of contact for people trying to get in touch with the club for various reasons. It's important for the President to be able to motivate club members to help with various efforts and also handle any conflicts that may arise within the club and work toward good resolutions. During Board meetings, the President does not vote on issues unless there is a tie.

Vice President

"The Vice President shall preside in the absence of the President and shall act as aide to the President."

The primary job of the Vice President is to fill in for the President in situations where the President cannot be available. Traditionally within the club, the VP has also taken on the very important tasks of coordinating our meeting programs, ensuring that "split the pot" ticket sales happen at in-person meetings and recording meeting attendance when needed. The importance of program coordination cannot be understated. Good meeting content is vital to the ongoing success of the club and keeping members engaged and attending meetings.

Secretary

"The Secretary shall keep an accurate record of all meetings of the society, and keep a roster of members. The Secretary shall conduct the official correspondence of the society and be responsible for acquiring information, and maintaining records."

The most visible role the Secretary plays is to provide meeting minutes for both the general membership meetings and the Board meetings. The Secretary is also responsible for ensuring that membership record management is being properly handled.

Treasurer

"The Treasurer shall be custodian of all the funds of the society, and shall be responsible for the safe keeping of such funds. The Treasurer shall keep an accurate itemized account of all receipts and expenditures and pay bills as authorized by the Board of Directors. The Treasurer shall render a report at each meeting of the society. The Treasurer shall be responsible for filing all necessary reports to the State of Ohio and the United States Internal Revenue Service. Such reports shall be filed at such time as stipulated by the various agencies of the above so as not to incur any penalties for late filing."

The role of Treasurer is straightforward and extremely critical. The Treasurer is responsible for managing the club's funds and providing reporting regarding the funds. The Treasurer also keeps us compliant with state and federal tax regulations.

(continued on the next page)

Director

In addition to the four officer positions listed, there are three Director positions. Directors are elected to staggered three-year terms with one Director seat up for election each year. The primary responsibility of a Director is to vote on matters brought before the Board and to provide input during Board meetings.

Hopefully this gives a general idea of the roles up for election. If you are interested in running for one of these positions, the best thing to do is to let the Nominating Committee know. The nominating committee for this year is Jerry Shipp, Cindy Shipp, and Michael Sein. You may also contact me, and I will pass your interest along to the Nominating Committee. If you have any questions about these roles, reach out to me or the person currently in the role in which you are interested, and we'll be happy to answer your questions!

Ryan AC8UJ
ac8uj@arrl.net

ARRL HEADLINE NEWS

ARRL LOGBOOK OF THE WORLD HARMONIZES DESIGNATION OF FST4 PROTOCOL 10/19/2020

The Logbook of The World (LoTW) Committee worked with *WSJT-X* developer Joe Taylor, K1JT, to harmonize the designation of FST4 among *WSJT-X*, the ADIF standard, and LoTW. At present, FST4 is only supported in a [recently released beta version](#) of *WSJT-X*. The committee's action was to avoid the sort of confusion that cropped up among LoTW users logging contacts in FT4 when that protocol was first included in *WSJT-X*. In the case of FST4, the committee acted proactively to help users avoid difficulties and obtain the maximum number of contact matches. The ADIF standard has been updated to support FST4 as a sub-mode of MFSK, and configuration file CONFIG.xml for LoTW has been updated to version 11.13, accordingly, to support FST4. Users will be offered the update when they run TQSL.

Again, FST4 is only available in *WSJT-X*. An ADIF file emitted by *WSJT-X* should properly identify FST4, so that contacts will upload smoothly into LoTW, *provided* the CONFIG file has been updated. — *Thanks to Greg Widin, K0GW*

ROBERT BANKSTON, KE4AL, IS NEW AMSAT PRESIDENT 10/19/2020

Robert Bankston, KE4AL, of Dothan, Alabama, is the new president of [AMSAT](#). The AMSAT Board of Directors elected Bankston at its annual meeting on October 18, to succeed Clayton Coleman, W5PFG. Bankston has served as treasurer and Vice President of User Services. He is a life member of both ARRL and AMSAT. He volunteered to develop and launch AMSAT's online member portal and chaired the 2018 AMSAT Space Symposium.

For his part, Coleman said that it had been “both a joy and a privilege” to serve as AMSAT president during 2020, which he called “a rather difficult year” for many in amateur radio. “With the talented and capable individuals sitting on AMSAT’s new Board and its officers, I am confident in a bright future ahead for AMSAT and the amateur radio satellite service.”

Other officers elected included Paul Stoetzer, N8HM, as Executive Vice President; Jerry Buxton, N0JY, as Vice President of Engineering; Drew Glasbrenner, KO4MA, as Vice President of Operations; Jeff Davis, KE9V, as Secretary; Steve Belter, N9IP, as Treasurer; Martha Saragovitz as Manager; Alan Johnston, KU2Y, as Vice President of Educational Relations, and Frank Karnauskas, N1UW, as Vice President of Development. — *Thanks to AMSAT News Service*

FLORIDA ARES GROUP PUBLISHES AFTER-ACTION BOOK 10/16/2020

A new paperback aimed at the Amateur Radio Emergency Service Community, *Power Out! After-Action Report and Improvement Plan* by Susan Halbert, KG4VWI; Leland Gallup, AA3YB, and Gordon Gibby, KX4Z, is [available](#) on Amazon. The \$5.99 paperback chronicles the after-action report of a fun and whimsical deployment exercise conducted by the Alachua County (Florida) ARES® group.

“We have actually published over a dozen different books, some of them educational and some of them after-action reports,” Gibby said.

The narrative describes an interoperability effort with local fire and rescue personnel that led to a better understanding of these professionals. The exercise revealed many weaknesses in the volunteer group’s response, which were subsequently addressed, leading to an even stronger team. The report is presented in [HSEEP](#) format.

“Amazon handles all of the printing and distribution,” Gibby explained. “This is a fantastic way for clubs to produce educational material, and I’ve tried to teach several people how to do it. It’s a labor of love to provide more professional literature for amateur radio emergency communication efforts.”

OH-KY-IN Repeaters

146.670 (-) Clifton 146.625 *(-) Edgewood 146.925 *(-) Delhi

443.7625 *(+5) Clifton [(*) *Indicates Fusion Repeater*]

A CTCSS (PL) tone of 123.0 Hz is required for access to all OH-KY-IN repeaters.

All repeaters also transmit a CTCSS (PL) tone of 123.0 Hz

APRS on 144.390 MHz K8SCH-10 Edgewood WIDEn

Packet 145.010 MHz K8SCH-7 Digipeater (offline)– ***Looking for a new site – ideas?!***

OH-KY-IN Life Members

*John Phelps N8JTP * Kenneth E Wolf N8WYC * John W Hughes AI4DA * Karl R Kaucher KK4KRK
Howard Hunt NG8P * Fred Schneider K9OHE * Roger Higley W8CRK * Dan Curtin KF4AV
Steve Weeks AA8SW * Kelly Hoffman K8KAH * Cindy Shipp, KB8WEI * Jerry Shipp, W1SCR
Bob Craig K8RC*

Tips and Techniques – DMR Operating Tips from N1CLC

DMR TIPS ([click here to view these tips!](#))

- Something that I learned about slots on a repeater
- Using Brandmeister.network Repeater page to debug your comms
- Using Brandmeister.network "Last Heard" page to see who's talking and better understand what's going on.

I wanted to send this notice out - we currently have 163 members in OH-KY-IN Amateur Radio Society !!!

This is a phenomenal number, and it's been a long time since we have been close to this. However, as phenomenal as the "number" is, it's a true testament to how phenomenal our MEMBERS are!

This goes to show that OH-KY-IN ARS is truly a pinnacle organization in the tri-state area.

That being said, it's never too early to RENEW your membership either! Our club has made it very easy to do so. You can use cash, check, OR ANY CREDIT CARD! Even though the electronic payment method uses PayPal, you do NOT need a PayPal account to take advantage of this benefit. Simply follow this link:

<http://ohkyin.org/wp/membership-form/>

As we head into the fall season, I thank everyone for your continued support of such a great organization. -- Best of 73, Nathan KA3MTT

2020 Committee Chairs and Appointments

Technical Operations Group
 ARPSC Representative
 Volunteer Examiners
 QCEN Representative
 Membership
 Fundraising
 Education
 Repeater Control Ops Mgr.
 PIO
 Librarian
 Digital Group
 Q-Fiver Editor
 Field Day
 Historian
 Fox Hunters
 Equipment Mgr.
 WebMaster
 Silent Key
 Tech Talk Net Mgr.
 K8SCH QSL Mgr.
 TV/RFI
 HamFest

Gary Coffey KB8MYC
 Jerry Shipp W1SCR
 Brian DeYoung K4BRI
 Pat Maley KD8PAT
 Nathan Ciufu KA3MTT
 Bruce Vanselow N8BV
 Michael Niehaus KD8ZLB
 Bruce Vanselow N8BV
 (Position Open)
 Justin Moore KE8COY
 Jerry Shipp W1SCR
 Robert Gulley K4PKM
 Eric Neiheisel N8YC
 Dale Vanselow KC8HQS
 Dick Arnett WB4SUV
 (position open)
 George Gardei N3VQW
 Bryan Hoffman KC8EGV
 Bruce Vanselow N8BV
 Bob Frey WA6EZV
 Dick Arnett WB4SUV
 Gary Coffey KB8MYC

TechTalk Operators for November 2020

1st Wednesday	Bob W8CRO
2nd Wednesday	Mike N8MRS
3rd Wednesday	Dale KC8HQS
4th Wednesday	George N3VQW



TECHNICALLY SPEAKING

Gary Coffey, KB8MYC, Technical Committee

Quick Technical Update

We've been talking for some time about the feedline replacement at the 146.670 site. We have finally received clearance from WLWT to have our climbers begin work. We are now waiting for a spot on the climber's schedule. This has been a very expensive project for the club and should be the final step in getting our repeater back into top shape.

When is the last time you were on one of the repeaters? From my office I get to listen quite a bit. There are days that go by with no traffic on them. When the feedline is complete, we will have seen an investment of almost \$10,000 into the repeaters. Now it's time to utilize them. Whether it's going into a net or just having a good conversation, let's use our repeaters.

73!

NOVEMBER SHOW-AND-TELL

Traditionally, the OH-KY-IN November meeting is our show-and-tell meeting, where makers bring in and demo the projects they've been working on over the past year.

Due to the pandemic, we continue to meet via Zoom, but that doesn't mean we cannot have our annual show-and-tell.

This year, we are asking anyone who wants to demo or present on their project to please record it as a video and send it to either myself or Ryan AC8UJ. We will play the videos over Zoom and then have a Q&A for the maker after the video. Please keep the videos to about 10 minutes or less.

As everyone who demos knows, demoing a project live is an invitation for a "huh, why isn't this working" moment. This is an opportunity for a perfect demo!

73! Cesi KD8OOB

BOB WN0PXT: MY NOVICE STORY - 54 YEARS AGO!

I'd passed the code test, and now, a couple of weeks later, I was battling a slippery pencil for the written. When I was done, Don, WØFIT, looked over my papers before slipping them into the envelope to Gettysburg.

"How'd I do?"

"I'm not supposed to tell you" he said, "but let's talk about what you'll need for a transmitter and antenna..."

I had already borrowed a receiver, a BC-454-B, to listen to W1AW code practice. The receive antenna was some wire draped out the 2nd floor window of my bedroom, definitely not suitable for transmitting.

The necessary considerations for a dipole antenna had already been covered in Don's theory classes. He had always thought it important to gain understanding beyond learning how to answer the FCC's questions. Several of his novice students (including me) have gone on to careers in electronics as testimony to his approach.

A trip to Don's well stocked "store" closet produced insulators, feed line, a spool of copper weld wire, a light bulb & socket mounted on a board and a small home-brew transmitter with crystal. I was sent on my way home with these station-building supplies and the caution that, even though it was called a dummy load, the light bulb DID radiate.

"Wait for the mail before you power the transmitter!"

The next day I cut the wire to length, threaded the insulators and carefully soldered the securely wrapped joints. Dad and I stretched the antenna across the back yard and determined where our supports would be and how much rope would be required for the task. Then I coiled it all up and stored it in the garage for another day's work.

The waiting weeks cooled the urgency of the project. My receiver's aerial worked fine for listening and that's all I could do anyway, wait and listen.

Saturday morning the mail came early. "Federal Communications Commission, Gettysburg, PA" was the return address. Inside the envelope, the much anticipated answer to "How'd I do?".

When I was learning the Morse code, the two letters that had given me the most problems were mirror images, "P" and "X". And now fate had decided that I would become intimately familiar with both.

WNØPXT was my newly minted callsign.

Dad was at work this Saturday so final construction would have to await his arrival. Oh, how I was wishing now that we had completed this project sooner. But all I could do was begin the process by carefully unrolling the wire in the back yard and stringing the feed line to my bedroom window. That didn't take all that long and the waiting became excruciating.

Finally, with little time before dark, Dad came home and we began mounting pulleys and rope to hang the antenna from the selected supports. As the light faded, only one end of the wire was airborne. The other would wait until tomorrow. I hid my disappointment as best I could as I climbed the stairs to my room to do a little listening.

As the old ARC-5 warmed up, the thought occurred that, since I was a fully licensed amateur radio operator, I could now use the transmitter even if it was only connected to the light bulb dummy load! I connected the bulb to the output terminals of the transmitter, connected my shiny key, plugged the rig into the AC mains, turned it on and carefully fitted the 3735 kc. crystal to its socket.

After waiting several minutes for the bottles to warm, I tapped the key and heard a "beep" from the receiver. After a bit of tuning, I sent my call for the first time, **W...N...Ø...P...X...T**. I repeated it over and over as the strange letters became more and more familiar.

After several minutes of "**dah, dit, dididit, dah**" and repeating my callsign, I paused to consider what to do next. It was then, in my headphones, that I heard an echo of my new identity, "**WNØPXT...WNØPXT...WNØPXT...DE...**". Someone had actually heard the signal from the dummy load and was calling ME!

I sat in stunned silence as the echo returned,
"WNØPXT...DE...WAØMQJ...WAØMQJ...WAØMQJ K".

Got it this time. I gathered myself and sent him a signal report, 589, and "**OP BOB QTH ALBERT LEA, MN**" and he replied "**UR RST 599 599, OP JIM JIM IN ALBERT LEA ALSO**".

The first line of my log records the start:

"10/8/66 9:20(PM CDT) WAØMQJ 3735 30W A1 589 599 10:20 FIRST QSO JIM A'LEA ROC"

(What a great story, Bob! Thanks for sharing this on the Groups.io list! ed.)

[Click here to see the actual log page!](#)

HARA's First VE Test Session

Tom Mongold announces HARA's first VE test session will be Saturday, November 7 at the Highland County EMA Office. It will start at 1 pm. Registration is required through www.signupgenius.com. or by contacting Tom at 937-272-4207.

Any VEs wanting to assist in this first effort should also contact Tom. Because of the lack of any regional testing for the past several months, seats are expected to fill quickly. Please spread the word.

JUST A REMINDER IN CASE YOU'VE NOT ALREADY SIGNED UP

Link and use your Kroger Card - Earn money for OH-KY-IN!!

Do you have a Kroger rewards card? If so, the OH-KY-IN Amateur Radio Society has enrolled in the Kroger Community Rewards Program. If you link your card to OH-KY-IN, all eligible purchases you make using your Kroger card will generate income from the rewards program to OH-KY-IN.

OH-KY-IN has been assigned a Non-Profit Organization number of QY352.

To Use the Kroger Community Rewards Program:

You need to visit <http://www.krogercommunityrewards.com> Once logged into your Kroger account you can search for OH-KY-IN Amateur Radio Society either by name or QY352 and then click Enroll. On the right side of this page is View by Type.

Be sure to change this to ALL or to CIVIC ORGANIZATION before entering OH-KY-IN Amateur Radio Society or QY352. New users will need to create an account which requires some basic information, a valid email address and a rewards card number.

Customers must have a registered Kroger rewards card account to link it to OH-KY-IN. If you do not yet have a Kroger rewards card, they are available at the customer service desk at any Kroger.

You must swipe your registered Kroger rewards card or use the phone number that is related to your registered Kroger rewards card when shopping for each purchase to count.

REMEMBER, your purchases will not count for your organization until after you register your rewards card.

Tell your friends about this too. Anyone with a Kroger card can link it to OH-KY-IN.

The OH-KY-IN Amateur Radio Society thanks you for taking just a few moments to link your card to your club! 73, Bruce N8BV

From Ted, NC8V

"Weeding 69 year QST collection. Offering 1951-1989, in 1-year lots, no singles. Very few skips; 3 of earliest years are bound. Asking \$3/yr (25c/issue!) + shipping your choice USPS/UPS/cheapest; pickup Cincinnati Eastside ok. Will combine years for better shipping. **\$3 Cost Waived** for legit non-profit recipient!

Ted Morris,nc8v@arrl.net, (fife-won-tree) fife-won-niner, fore-ate-seben-seben."

Congrats to Horacio on Multiple WAS!!

Hi Robert,

I am happy to inform you that the ARRL granted me two certificates, a Mixed WAS and a Digital FT8 WAS. It was fun thanks to the genial work of Joe Taylor (K1JT), QRP and a Cushcraft R7 vertical antenna.

The Covid 19 pandemic kept me in the basement and I achieved the Digital award in only 4 months.

My special thanks to WA6EZV, Robert Frey our teacher and mentor, who helped me in checking QSLs and with the application.

73! Horacio S Falciglia

THE RADIOPHONIC LABORATORY: The Bell Sound: Grooving with Laurie Spiegel

By Justin Patrick Moore, KE8COY

One of the key researchers and musicians exploring the new frontiers of science and music at Bell Labs was Laurie Spiegel. She was already an accomplished musician when she started working with interactive compositional software on the computers at Bell at the age of twenty-eight. The year was 1973.

Laurie brought her restless curiosity and ceaseless inquiry with her to Bell Labs. She was the kind of person who could see the creative potential in the new tools the facility was creating and make something timeless. Her skill and ability in doing so was something she had prepared herself for through a scholar's devotion to musical practice and study.



She was interested in the stringed instruments, the ones you strum and pluck. She picked up guitar, banjo, and mandolin for starters and learned to play these all by ear in her teens. She excelled in High School and was able to graduate early and get a jump start on a more refined education. Shimer College had an early entrance program, and she made the cut.

With Shimer as a launching board she got into their study abroad program and left her native Chicago to join the scholars at Oxford University. While pursuing her degree in Social Sciences she decided she better teach herself Western music notation. It was essential if she was to start writing down her own compositions.

She managed to stay on at Oxford for an additional year after her undergraduate work was completed. In between classes she would commute to London for lessons with composer and guitarist John W. Durante who fleshed out her musical theory and composition.

She was no slacker.

Her devotion to music continued to flourish when she came back to the states. In New York she worked briefly on documentary films in the field of social science, but the drive to compose music pushed her back onto the path of continuing education. So, she headed back to school again, at Juilliard, going for a Masters in Composition. Hall Overton, Emmanuel Ghent,

and Vincent Perischetti were some of her teachers between 1969 and 1972. Jacob Druckman was another, and she ended up becoming his assistant and ended following him to Brooklyn College. While there she also managed to find some time to research early American music under H. Wiley Hitchcock before completing her MA in 1975.

Laurie was no stranger to work, and to making the necessary sacrifices so she could achieve her aims and full artistic potential. Laurie's thinking is multidimensional, and her art multidisciplinary. Working with moving images was a natural extension of her musicality. She supported herself in the 70s in part through soundtrack composition at Spectra Films, Valkhn Films, and the Experimental TV Lab at WNET (PBS). TV Lab provided artists with equipment to produce video pieces through an artist-in-residence program. Laurie held that position in 1976 and composed series music for the TV Lab's weekly "VTR—Video and Television Review". She also did the audio sound effects for director David Loxton's SF film *The Lathe of Heaven*, based on the novel by Ursula K. Leguin, and produced for PBS by WNET.

Speaking of the Experimental TV Lab she said, "They had video artists doing really amazing stuff with abstract video and image processing. It was totally different from conventional animation of the hand-drawn or stop-motion action kind. Video was much more fluid and musical as a form."

Going to school and scoring for film and television wasn't enough to satisfy Laurie's endless inquisitive curiosity. Besides playing guitar, she'd been working with analog modular instruments by Buchla, Electrocomp, Moog and Ionic/Putney. After a few years of experimentation, she outgrew these synths and started seeking something that had the control of logic and a larger capacity for memory. This led Laurie to the work being done with computers and music at Bell Labs in Murray Hill. At first she was a resident visitor at Bell Labs, someone who got the privilege of working and researching there, but not the privilege of being on Ma Bell's payroll.



Laurie had already been playing the ALICE machine when the Bell Telephone Company needed to film someone playing it for the 50th anniversary of the Jazz Singer. She had already become something of a fixture at Murray Hill so the company hired her as a musician. Not that the engineers at Bell who created the musical instruments were unmusical, but they were engineers. Laurie had the necessary background as a composer and the interest in how technology could open up to musical expression, she was the perfect fit.

By the time she actually got hired she had already amassed a body of work. In 1973 while still working on her master's degree, she started getting her GROOVE on at Bell Labs, using the system developed by Max Mathews and Richard Moore.

GROOVE was to prove the perfect foil for expressing Spiegel's creative ideas. While Max Mathews was bouncing around between a dozen different departments, Laurie was getting her GROOVE on at Murray Hill.

In the liner notes to the reissue of her Expanding Universe album created with GROOVE she wrote:

Realtime interaction with sound and interactive sonic processes were major factors that I had fallen in love with in electronic music (as well as the sounds themselves of course), so non-realtime computer music didn't attract me. The digital audio medium had both of the characteristics I so much wanted, But it was not yet possible to do much at all in real time with digital sound. People using Max's Music V were inputting their data, leaving the computer running over the weekend, and coming back Monday to get their 30 seconds of audio out of the buffer. I just didn't want to work that way.

But GROOVE was different. It was exactly what I was looking for. Instead of calculating actual audio signal, GROOVE calculated only control voltage data, a much lighter computational load. That the computer was not responsible for creating the audio signal made it possible for a person to interact with arbitrarily complex computer-software-based logic in real time while listening to the actual musical output. And it was possible to save both the software and the computed time functions to disk and resume work where we left off, instead of having to start all over from scratch every time or being limited to analog tape editing techniques ex post facto of creating the sounds in a locked state on tape.

RECORD IN A BOTTLE

Laurie's most famous work is also the one most likely to be heard by space aliens. It was a realization of Johannes Kepler's *Harmonices Mundi*



using the GROOVE system, and was the first track featured on the golden phonograph records placed aboard the Voyager spacecrafts launched in 1977. The records contain sounds and images intended to portray the vast diversity of life and culture on planet Earth. The records form a kind of time capsule, a message in a bottle sent off into interstellar space.

Carl Sagan chaired the committee that determined what contents should be put on the record. He said "The spacecraft will be encountered and the record played only if there are advanced space-faring civilizations in interstellar space, but the launching of this 'bottle' into the cosmic 'ocean' says something very hopeful about life on this planet."

A message in a bottle isn't the most efficient way of communicating if your purpose is to reach a specific person in short amount of time. If however, you trust in fate or providence and the natural waves of the ocean, to guide the message to whomever it is meant to be received by, it can be oracular.

Like many musicians before her Laurie had been fascinated by the Pythagorean dream of a music of the spheres. When she set about to realize Kepler's 17th century speculative composition, she had no idea her music would actually be traveling through the spheres. Kepler's *Harmonices Mundi* was based on the varying speeds of orbit of the planets around the sun. He wanted to be able to hear "the celestial music that only God could hear" as Spiegel said.

"Kepler had written down his instructions but it had not been possible to actually turn it into sound at that time. But now we had the technology. So I programmed the astronomical data into the computer, told it how to play it, and it just ran."

The resulting sounds aren't the kind of thing you'd typically put on your turntable after getting home from a hectic day to relax. The sounds are actually kind of agitating. Yet if you listen to the piece as the product of a mathematical and philosophical exercise it can still be enjoyable.

Other sounds that can be heard on the Voyager Golden Records include spoken greetings from Earth-people in fifty-five languages, Johnny B Goode by Chuck Berry, Melancholy Blues by Louis Armstrong, and music from all around the world, from folk to classical. Each record is encased in a protective aluminum jacket, and includes a cartridge and a needle for the aliens. Symbolic instructions, kind of like those for building a piece of furniture from Ikea, show the origin of the spacecraft and indicate how the record is to be played. In addition to the music and sounds there are 115 images are encoded in analog form.

Laurie was in Woodstock, New York when she received a phone call requesting the use of her music for the record. "I was sitting with some friends in Woodstock when a telephone call was forwarded to me from someone who claimed to be from NASA, and who wanted to use a piece of my music to contact extraterrestrial life. I said, 'C'mon, if you're for real you better send the request to me through the mail on official NASA letterhead!'"

It turned out to be the real deal and not just a prank on a musician.

In 2012 Voyager I entered Interstellar Space. And it's still out there running, sending back information. Laurie says, "It's extremely heartening to think that our species, with all its faults, is capable of that level of technical operation. We're talking Apple II level technology, but nobody's had to go out there and reboot them once!"

(stay tuned for part 2 next month! ed.)

Sources:

http://retiary.org/ls/expanding_universe/index.html

<https://www.newyorker.com/culture/culture-desk/an-electronic-music-classic-reborn>

<https://pitchfork.com/features/article/9002-laurie-spiegel/>

<https://voyager.jpl.nasa.gov/golden-record/>



**The Livonia Amateur
Radio Repeater Group
W8WW/r 443.650+
Presents**

**W8WW/r
Repeater
443.650+**



Outdoor Swap N Shop

Buy Sell Trade

Electronics, Radio, Computers and more!

Sunday November 8th 2020

8 Am - 12 PM

(Rain Date November 15th)

Admission \$3

Trunk Sales \$10

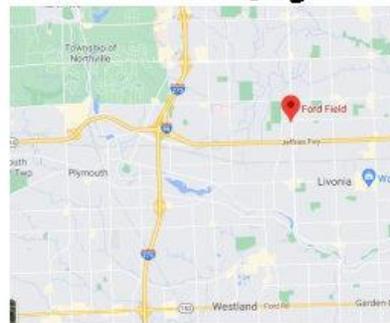
(include 1 admission)

WE NEED VENDORS - PRE-Register for \$3 Discount

Ford Field Parking Lot

Farmington and Stark Roads, Livonia Michigan

(Farmington Road Exit on I-96)



Questions: James Keller (734) 674-2866

Masks and Social Distancing

Requested

TalkIn on 146.52 Simplex

(Thanks to Ryan AC8UJ for posting this on the reflector)

DX Spots & Special Events November 2020

DE KA3MTT

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 V31TA - Belize Thru 11-13 	2 TX0T - French Polynesia thru 11-5 	3 JD1 - Minami Torishima thru 12-31 	4 V31CO - Belize Thru 11-13 	5 8Q7RM - Maldives Thru 11-29 	6 7Q7RU - Malawi Thru 11-18 	7 Honoring Veterans for Veterans Day Nov 7, 1500Z-2200Z, W0FEB, Waterloo, IA, Five Sullivan Brothers Amateur Radio Club. 18.124 14.240 7.240
8	9	10 157th Anniversary of Lincoln's Gettysburg Address Nov 10-Nov 20, 1100Z-0500Z, W04L, W1G, East Berlin, PA, W04L. 18.155 14.275 7.180	11 Thank You Veterans Nov 11, 1500Z- 2100Z, W4D, Sevier- ville, TN. Sevier County Emergency Radio Service. 7.180 LSB; 7.080	12 Adoption of The Articles of Confedera- tion And Perpetual Union Nov 12-Nov 19, 0400Z-2359Z, W3A, Harleysville, PA. WV2M. 14.074 14.030 7.074 7.030	13	14 USS Midway Museum Ship Special Event: Celebrating Veterans Day and USMC Birthday Nov 14, 1700Z-2359Z, N16NW, San Diego, CA. USS Midway (CV-41) Museum Ship. 14.320 7.250 14.070 (PSK31) D- STAR on various reflector
15	16	17 NRA's 149th Birthday Party Nov 17, 1500Z- 2359Z, K7GST, Pauld- en, AZ. Yavapai Amateur Radio Club. 21.335 14.250 14.040 7.250	18	19 Hammarlund Hullabaloo Nov 19-Nov 21, 1800Z-1900Z, K44P- MQ/W4H, Mars Hill, NC. High Appalachian Mountain Amateur Radio Society. 14.250 7.250	20	21 175th Anniversary of Concordia United Church of Christ Nov 21, 0800Z- 2000Z, K9S, Belle- ville, IL. St. Clair Amateur Radio Club. 14.380 14.350 14. 340 14.250
22	23 J88PI - St Vincent Thru 12-1 	24	25	26 	27	28
29	30					

Thanks once again to Nathan for all his hard work!

SPACE WEATHER AND PROPAGATION NEWS

RADIO SIGNALS FROM MARS: How close is Mars? Close enough for radio reception. On Oct. 4th, amateur radio operator [Scott Tilley](#) picked up a carrier wave from NASA's Mars Reconnaissance Orbiter (MRO) circling the Red Planet. Turn up the volume and listen to the Martian Doppler shift:

Tilley is a leader in the field of satellite radio. Dead satellites, zombie satellites, spy satellites: He routinely [finds and tracks them](#). "But this was a first for me," he says. "A satellite around Mars!"

It's not easy picking up radio signals from distant planets. NASA does it using the giant antennas of the Deep Space Network. Tilley uses a modest 60 cm dish in his backyard in Roberts Creek, BC. This week's close encounter with Mars set the stage for his detection.

"MRO's signal is weak, but it is one of the louder signals in Mars orbit," says Tilley. "The spacecraft has a large dish antenna it uses as a relay for other Mars missions. With the proximity of Mars these days, it was the perfect time to try."



Above: Scott Tilley's backyard dish antenna in Roberts Creek, BC

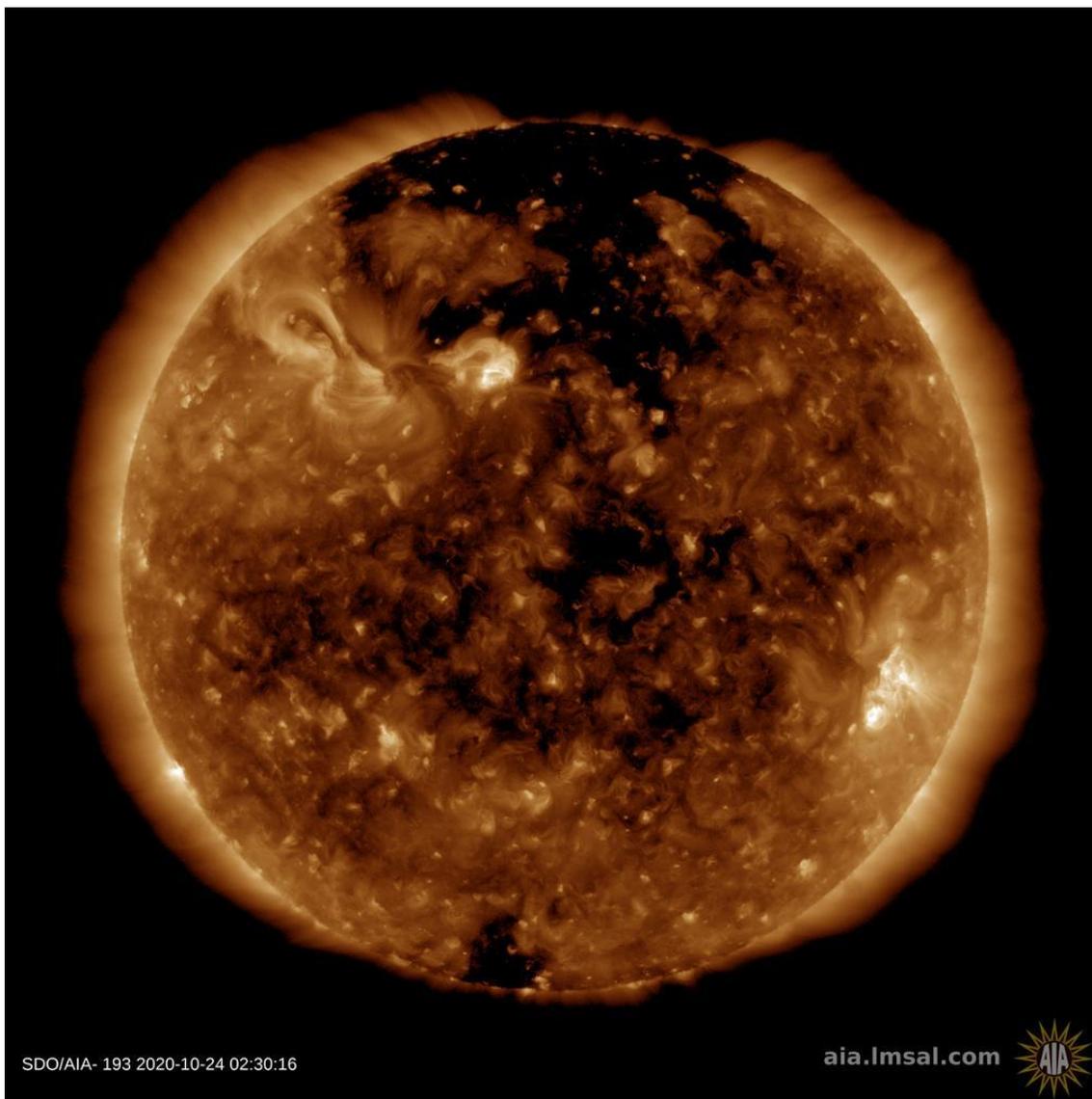
The signal Tilley picked up is a simple [X-band](#) carrier wave containing no data or telemetry. "Its purpose is to allow for Doppler tracking," he explains. "The rapid change in pitch of the signal is caused by the relative motion of the satellite and the observer. Using the Doppler shift, I was

able to calculate the period and semi-major axis of MRO's orbit. MRO was about 274 km over Mars at the time of my observation, a result confirmed by JPL Horizons."

Now that Tilley has detected one Martian spacecraft, he's eager for more. "I'm improving my station to monitor objects in deep space," he says. "Mars is a busy place and I'm sure it will produce many more interesting observations during this close encounter."

(Source: October 6th, Spaceweather.com)

Earth Affected by Solar Debris Just in Time for Annual CQ DX Contest



Earth is inside a stream of solar wind flowing from this northern coronal hole - Oct 24th

PROPOSED BYLAWS CHANGES/AMENDMENTS

At a future meeting of the OH-KY-IN membership, we will be holding a vote to approve replacing both our existing Constitution and our existing Bylaws with the following proposed single document (henceforth to be known as our Bylaws).

We have learned that Ohio corporations should only have Articles of Incorporation and Bylaws, thus we are retiring our constitution to bring us in line with common practice and merging the two documents into a single document while incorporating some updates at the same time.

There are no changes being proposed to our Articles of Incorporation at this time. They remain as filed and previously amended with the state of Ohio. The current Constitution and Bylaws are available on the club website under "About OH-KY-IN" and then "Constitution and By-laws" if you wish to compare the old with the proposed.

OH-KY-IN AMATEUR RADIO SOCIETY, INC. (the "Society") CODE OF REGULATIONS (also referred to as BYLAWS)

As amended at the _____, 2020 meeting of members.

ARTICLE I. MEMBERSHIP

- A. Any person interested in Amateur Radio and who is in sympathy with the purposes of this Society may become a member upon completing an application for membership and payment of any applicable dues; however, an application for membership may be rejected, or the membership of any individual may be terminated, by the Board of Directors if in the opinion of the Board the prospective or continued membership of that individual is not in the best interests of the Society due to prior or continuing violation of F.C.C. rules, disruptive behavior, or other reasonable cause as determined by the Board, whose decisions shall be final.

B. The dues (which may vary depending on categories set by the Board) shall be determined by the Board of Directors from time to time, and shall be payable to the Treasurer during the month of January or at such other time as the Board of Directors may approve. Dues unpaid three months after the due date shall result in automatic termination of membership.

C. Any members qualifying for free membership under categories that may be established by the Board, shall have no voting rights.

ARTICLE II. BOARD OF DIRECTORS

A. Except where authority is otherwise designated under the law, the Articles of Incorporation or these Bylaws, authority over the affairs of this Society shall be exercised by or under the direction of the Board of Directors, which shall consist of three elected Directors serving

staggered three-year terms, with one Director being elected each year; together with the four elected officers specified below and the immediate Past President of the Society who serve ex officio with vote. However, all members of the Board of Directors must be current members of the Society. The annual election of one Director shall be conducted along with the election of officers as provided below.

B. If any Board member dies, resigns, is removed, or becomes unable to serve, the vacancy for the unexpired term shall be filled by appointment of the remaining Board of Directors, even if the number remaining is less than otherwise required for a quorum.

C. Any Board member may be removed from office by majority vote of those members present at a regular or special meeting of the members, provided that notice of the proposed action has been given to the members as provided in Article V.D.

D. The Board shall schedule regular meetings to occur at least bi-monthly. The President, or in the absence of the President the Vice-President, may cancel a meeting if there is no business to conduct. Special meetings may be called by the President or by any three Board members with notice to the Board as provided in Article II.E. Four Board members shall form a quorum for any regular or special meeting of the Board of Directors, and the majority vote of Board members present shall be the action of the Board unless otherwise required by law or these Bylaws. Board members may not vote by proxy but may attend a meeting by telephone conference call, video call or other electronic means which allow all participating Board members to hear each other. The Board may also act by unanimous written consent, and email or other electronic communications may be accepted for that purpose.

E. Notice of regular or special Board meetings (other than regularly-scheduled meetings as established at the beginning of each year) shall be sent to each Board member not less than five days prior to such meeting either (1) by first class mail to his or her residence or place of business as listed in the Society's records or (2) by electronic mail to his or her e-mail address, if one has been furnished for that purpose to the Society. Such notice shall set forth the time and place of such meeting and shall be valid if sent as stated in the preceding sentence, whether or not actually received. Business to be transacted at any regular meeting of the Board shall not be limited to those matters set forth in the notice of meeting. Notice of any meeting of the Board may be waived by the execution of a written waiver of such notice, either before or after the holding of such meeting by any Board member. The attendance of any Board member at any meeting without protest at the commencement of the meeting shall be deemed to be a waiver of notice of the meeting.

F. Board meetings are open to members, so the date and location of Board meetings (other than confidential meetings as provided below) must be distributed to the membership in advance of each meeting. However, the Board may conduct a confidential special meeting or executive session at a regular meeting to discuss sensitive topics such as actual or potential litigation, contract negotiations, and other legal or personnel matters.

G. Board members (including current and former officers serving ex-officio) shall not receive any compensation for their service but shall be entitled to reimbursement of authorized expenditures made on behalf of the Society. The Society may purchase directors liability insurance or other reasonable and customary coverages for the benefit of the Directors.

ARTICLE III. OFFICERS AND COMMITTEES

A. The elective officers of this Society shall be a President, Vice President, Treasurer, and Secretary. These officers shall be elected annually at the December meeting by majority vote of the members present and voting. All of the elected officers must be Amateur Radio operators licensed by the Federal Communications Commission.

B. Elected officers of the Society shall serve one year terms (calendar year) and until their successors are elected and take office.

C. The President shall appoint a three-member Nominating Committee and the Nominating Committee shall submit, at the November meeting, names of proposed candidates for each of the four officers and one elected Director. Additional nominations may be made by members from the floor at this meeting.

D. Election of officers from the candidates identified at the November meeting (as the list of candidates may be supplemented by write-in vote at the December meeting) shall take place at the December meeting and shall be by majority vote of the members present.

E. The Board may appoint one or more Assistant Vice-Presidents, Assistant Secretaries or Assistant Treasurers or such other officers, having such duties and responsibilities as the Board shall deem advisable. Such non-elected officers need not be Board members and shall serve at the pleasure of the Board.

F. The President may establish or discontinue committees from time to time in his or her discretion, except as specified in this subsection. A financial review committee of three members shall be appointed by the President at the January meeting each year. The records of deposits and expenditures from the Society's bank accounts shall be reviewed, and a report submitted at the March general membership meeting. A three-person property review committee shall be appointed by the President in January of even-numbered years to review the physical property owned by the Society and present a report no later than the November general membership meeting of the same year. It is recognized that the members of these committees are not professional auditors and they shall not be personally liable for any failure to detect any irregularity that may have occurred.

G. The President shall appoint chairpersons for all committees. Terms for the chairpersons of all committees shall be one year and shall run concurrently with the elected officers, but the President may remove and replace any such chairperson at any time.

ARTICLE IV. DUTIES OF OFFICERS

A. The President shall preside at all meetings of the Society, shall be a member ex-officio of all committees, and shall have all other powers and perform all other duties usually pertaining to the office. The President shall make or cause to be made reports concerning the activities of the Society to the members and to any other relevant recipients such as the American Radio Relay League.

B. The Vice President shall preside in the absence of the President and shall act as aide to the President.

C. The Secretary shall keep an accurate record of all meetings of the Society, and keep a roster of members. The Secretary shall conduct the official correspondence of the Society and be responsible for acquiring information, and maintaining records.

D. The Treasurer shall be custodian of all the funds of the Society, and shall be responsible for the proper deposit of such funds in an FDIC-insured bank or other investment authorized by the Board. The Treasurer shall keep an accurate itemized account of all receipts and expenditures and pay bills as authorized by the Board of Directors. The Treasurer shall render a report at each meeting of the Society. The Treasurer shall be responsible for filing all necessary reports to the State of Ohio and the United States Internal Revenue Service. Such reports shall be filed at such time as stipulated by the various agencies of the above so as not to incur any penalties for late filing.

E. Officers shall not receive any compensation for their service but shall be entitled to reimbursement of authorized expenditures made on behalf of the Society. The Society may purchase officers liability insurance or other reasonable and customary coverages for the benefit of the officers.

F. Expenditures of more than \$1,000 must be approved by a majority of the membership present and voting at a regular or special membership meeting prior to committing to the expenditure.

ARTICLE V. MEMBERSHIP MEETINGS

A. Regular monthly or bi-monthly meetings of the membership shall be held from January through December. The date of regular meetings for the following calendar year shall be selected by the Board of Directors at its November meeting and published in the Society's official publication, but such scheduled meeting dates may be changed subsequently by the Board upon giving further notice to the members as provided in Article V.D. The meetings of this Society shall be open to interested persons, but the privilege of making motions, debating or voting shall be limited to dues-paid members of the Society, and the presiding officer may exclude any person who is disruptive or whose presence is otherwise determined to be not in the best interests of the Society. Business to be transacted at any regular meeting of the membership shall not be limited to those matters set forth in the notice of meeting, but shall not include amendment of these Bylaws or removal of any Board member unless the proposed actions were set forth in the notice. Members may vote by proxy if a proper written proxy is provided to the Secretary at the meeting.

B. A special membership meeting may be called by the President, or by the Vice President in the President's absence, at a reasonable time and place, with notice as provided in Article V.D. The notice must state the business to be conducted at the special meeting, and only that business may be conducted at that special meeting.

C. 20% of the Society's membership may call a special meeting of the membership at a reasonable time and place. The petition calling such a meeting shall be presented to the President, or to the Vice-President in the President's absence. The petition must state the business to be conducted at the special meeting, and only that business may be conducted at that special meeting. Upon receipt of any such proper petition, notice of the special meeting must be given by the Society to the membership as provided in Article V.D.

D. Notice of regular meetings of members is deemed given when published in the Society's official publication at least ten days prior to such meeting (and may be published up to a year in advance). Notice of a special meeting of members shall be deemed given if it is announced at a regular meeting of the members at least ten days prior to such special meeting, is published in the Society's official publication, or is sent by electronic mail to all members who have furnished such an address to the Society (through subscription to the Society's public email reflector or otherwise), in each case at least ten days prior to such special meeting. Such notice of a special meeting shall set forth the time and place of such meeting and shall be valid if given as stated in the preceding sentence, whether or not actually received. The attendance of any member at any meeting without protest at the commencement of the meeting shall be deemed to be a waiver of notice of the meeting.

E. The rules in ROBERT'S RULES OF ORDER, REVISED, shall govern the Society's meetings in all cases to which they are applicable unless inconsistent with other provisions of these Bylaws.

ARTICLE VI. OFFICIAL PUBLICATION

A. The official publication of the Society will be called the Q-FIVER, unless a different name is approved by the Board of Directors. It shall be published monthly (with any exceptions approved by the Board of Directors) and distributed to all members in good standing who have furnished an electronic mail address for that purpose.

The Editor shall be appointed by the President. It is the responsibility of the Editor to maintain the editorial policy of the publication consistent with the policies and practices of the Society.

ARTICLE VII. AMENDMENTS

A. These Bylaws may be amended at any regular or special meeting by a two-thirds (2/3) vote of the members present and voting.

B. No Bylaw amendment shall be put to a vote at a membership meeting unless notice of the meeting has been given as provided in Article V.D together with the text of the proposed changes in these Bylaws.

CONSIDER A DONATION TO OH-KY-IN

Did you know that OH-KY-IN ARS has been recognized by the Internal Revenue Service as a 501(c)(3) charitable organization?

That means anyone who itemizes on their Federal return can take a charitable deduction for a contribution to OH-KY-IN, as long as it qualifies under the general rules applicable to all other charitable contributions (for example, the contribution must be in cash, or other property which the organization has agreed to accept; the value of volunteered services is not deductible).

Membership dues, such as the cost of a life membership, may even be deductible; consult your own tax advisor for details if considering that. Posthumous donations by Will or by naming the organization as beneficiary of a financial account are also welcome.

SPECIAL OPPORTUNITY FOR 2020 ONLY -- under COVID legislation, taxpayers can deduct up to \$300 of charitable contributions even if they do not itemize! Please consider taking advantage of this one-time opportunity if you don't itemize.

A Fun Fact:

The Top 12 States To Live In Indicated By Yellow



OCTOBER 2020 ONLINE OFFICIAL MEETING

OH-KY-IN General Meeting Minutes

OH-KY-IN Amateur Radio Society
Minutes of October 6th, 2020 Member Meeting

The meeting was called to order at 7:32 PM by Ryan AC8UJ with the Pledge of Allegiance.

Guests:

Alejandro "Alex" W9AMV
Mark KE4WA
Darryl
Chet KE8DTW
Tom W8WTD
Douglas from WWV

New Licenses or Upgrades: none

Attendance: 32

Health and Welfare: Nothing

Brag Sessions: Cesi KD8OOB snagged seven of the twelve SSTV images from the ISS for Series 16. While working the ISS one night, he brought out his telescope and was able to successfully see the Andromeda galaxy!

Prior Meeting Minutes: Ed K8EAF motioned and Brian K4BRI seconded accepting the September meeting minutes as published in the Q-Fiver, the vote passed.

Membership: Bruce N8BV reported that the last membership count was 161 members!

Treasurer: Brian K4BRI reported on a single income item and the standing balance.

Silent Keys: Not present, but it was noted that celebrated rock star Eddie Van Halen had passed.

Tech Operations: Gary KB8MYC reported

- Received clearance today to climb the WLWT tower to replace the 67's feed line.
- The climbing company has been contacted to get on their calendar.
- Everything is working as it should except 67 does not have a controller.
- Gary is currently working on the replacement controller.
- Everyone will be kept apprised of the feedline install date via the email reflector.

Classes/Exams: Mike KD8ZLB reported

- Classes are still on hold.
- Cuyahoga Falls Amateur Radio Club is offering a six-session technician class license course online.
- W4EEY has some great classes on YouTube.

Fox Hunts and ARDF:

- Bob WA6EZV has nothing new to report, but he is looking to get a 2m practice hunt sometime over the next several weekends.
- Dick WB4SUV is attempting to schedule some fox hunts.

Library: Not present

Nets: Bruce reported Tech Talk is doing well; was up to 30+ check-ins, but that number has recently dropped into the 20s.

WinLink: Ed K8EAF reported

- Approximately 35 check-ins per week across the country.
- Join in anytime between Tuesdays and Thursdays.
- Reach out to Ed at k8eaf.ed @ gmail.com.

Digital Group: Jerry W1SCR reported still on hold.

Website: Rocky KE8DZS reported the website was down for a few days, but it was fixed by Ryan who disabled the plugin causing the problems.

QCEN: Pat KD8PAT reported the next meeting will be on Friday, October 16th at 7:00 PM ET via Zoom. Contact Michael Sien KD8SOH at michael.sien @ twc.com for an invite.

ARES: Not present

Brunch Bunch: Bruce reported still on hold.

Events:

- Mike KG4DSG attended two virtual conferences, the TAPR Conference and GNU Radio Conference. Both have conference content online for review.
- Cesi and Julia KE8IUU participated in Ohio State Parks on the Air on Saturday, September 12th from Stonelick State Park. They made 27 contacts with several POTA park-to-park contacts. They had fun at this annual event and will do some more POTA activations at Stonelick, East Fork and Hueston Woods hopefully in the near future. Note that the Kentucky State Parks on the Air has been rescheduled to Saturday, October 24th, so go to a Kentucky state park and give it a go!

Old Business

- Ryan reported that the by-laws updates are still on hold, waiting until we can all be together to vote.
- Ryan also reported that the club officer elections will still be held at the December club meeting via Zoom. If there are no contested races, the vote will be on the slate, otherwise there will be a Zoom poll for the contested positions. This will not be anonymous, but the by-laws do not require an anonymous election. The board will discuss the annual Christmas party at the October board meeting.
- The Nominating Committee, consisting of Jerry Shipp W1SCR, Cindy Shipp KB8WEI and Michael Sien KD8SOH, should have contacted you about running for a club office. Please consider running and helping keep our club one of the best in the area! Either contact one of them or Ryan if you are interested.
- November's annual Show-And-Tell program is still a go, but in a different format. Please send videos demoing your project. If you don't want to do a video or your project does not lend itself to a video or demo, you can also submit pictures or a slide deck of your project instead. We currently have only one video so far; please submit something, otherwise it will be a short program!

New Business

- Cesi had a PSA that ARRL members should be receiving their ballot for the Great Lakes Division Director and Vice Director elections via US mail. There are two candidates running for Director and three candidates for Vice Director. Please remember to cast your ballot along with the general US election!

Program: Douglas Sutton from radio station WWV presented a virtual tour of the WWV station. If you have any questions, please submit them to nist.radio@nist.gov or visit the website <http://tf.nist.gov>. Note that the publication Douglas discussed is available by emailing a request for Publication 432 to the above email address.

Ryan entertained a motion to adjourn from Drew KE8JTL with a second from Jerry W1SCR. The motion was accepted and the meeting was adjourned at 8:58 PM ET.

Respectfully submitted, Cesi DiBenedetto KD8OOB, Vice President

A new net has been formed entitled the "Preparedness Net"

This Net is intended for discussions and sharing of ideas / techniques / experiences regarding basic preparedness related to natural or man-made disasters. Please share with your group an invitation to join us.

The next Preparedness Net will be *today*, Sunday October 18 at 2 p.m. on the BCARA repeater on 146.70 pl123+. Echolink is available, if you can't reach the repeater, just search for W8MRL-R which will connect to the Butler County Amateur Radio Association repeater.

We have also created an email reflector and licensed amateur radio operators can subscribe at: preparedness+subscribe@groups.io

Thank you and 73,

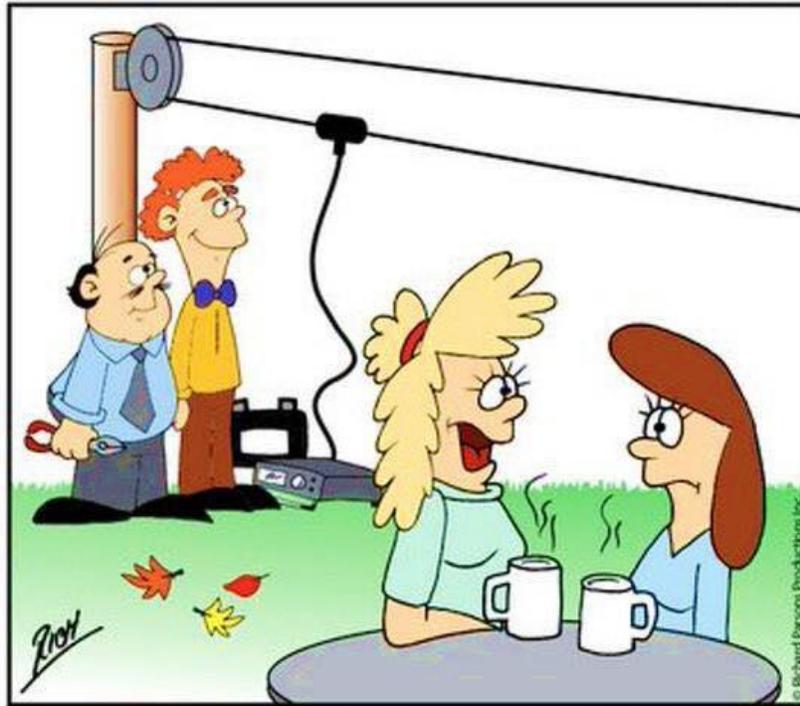
Rob Lindsay, W8MRL

BCARA Board Member

A Touch of Ham Humor!

SUCH A HAM

SH-005



Stan & Cliff have been working all day
on installing my clothesline, Mary.

Q-FIVER EDITOR: **ROBERT GULLEY (K4PKM)** E-MAIL: AK3Q@AK3Q.COM

For questions/comments/suggestions, or article submissions, send me an E-mail!



OH-KY-IN Amateur Radio Society is one of the leading amateur radio organizations in the Cincinnati, Ohio area and has been for most of its 50-plus year history. We are a 501(c)(3) nonprofit organization dedicated to the advancement of all things radio. No matter the amateur radio interest, OH-KY-IN members are *involved*.