



# 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  
forget, you can  
always*

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

(AND you can ZOOM  
into online meetings!)

### In The News

**W4DXCC 16 DX  
and Contest  
Convention**

**September 25th and  
26th, 2020, Pigeon  
Forge, TN**

[Click Here for more  
information!](#)

### In The News

**Field Day 2020 - A  
Work in Progress -  
Definitely Not the  
Usual!**

While we wait to learn our  
club's event logistics,  
Small Groups will make  
for some great options too

[See page 5](#)

## Calendar of Events for June 2020

Tue	June 02	Club Meeting (see announcement <a href="#">page 2</a> )
Wed	June 03	TechTalk Bob W8CRO
Tue	June 09	Board of Directors meeting (see announcement <a href="#">page 2</a> )
Wed	June 10	TechTalk Mike N8MRS
Sat	June 13	Brunch Bunch Cancelled due to State Group Restrictions
Wed	June 17	TechTalk Dale KC8HQS
Wed	June 24	TechTalk George N3VQW
Sat	June 27	Field Day at Mitchell Memorial Forest 24hrs, starting 2 pm - (tentative due to staged opening of the state – watch for announcements)

**IMPORTANT JUNE MEETING NEWS FROM THE PRESIDENT**

Club Members and Friends,

Due to the present (and continuing!) situation, our June club meeting will be held on the usual date and time **online & by phone** via Zoom and it will also be a somewhat simplified format. 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.

Once again, we **will** be conducting an official business meeting, as the board has determined it is acceptable and appropriate so to do.

Zoom is what many schools are currently using now for remote classes and in my house, my wife has been using it to run her voice and piano studio for the last two weeks and we've used it to hold church services as well. I'll include some tips for success below. You do NOT need to create an account to use Zoom.

The board meeting will also occur on Zoom on its normal day and time (Tuesday, June 9th at 7:15 PM or close as possible to that time).

Both events (the club meeting and the board meeting) will use the same Zoom meeting code as last time. I hope to have the meetings opened to join by 7:20 PM each night if not earlier.

Here are some tips to ensure success for everyone:

- If you are not speaking, please keep your line muted. (For the actual club meeting, due to the potential number of participants, we may take an approach of muting all lines and requiring you to virtually raise your hand to speak. If we do so, instructions will be provided.)
- 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'll 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

**ARRL HEADLINE NEWS****VENERABLE AO-7 SATELLITE CONTINUES TO DELIVER (05/22/2020)**

The nearly 46-year-old AO-7 amateur satellite made a remarkable contact possible on May 4 between Diego Feil, LW2DAF, in Buenos Aires, Argentina (GF05rk), and Tom Ambrose, ZS1TA, in Cape Town, South Africa (JF95fx). The contact spanned 4,329 miles across the South Atlantic, with both stations aiming at only 2 or 3 degrees above the horizon.

Both stations had been watching orbital predictions for several weeks, and times when both stations could “see” AO-7 at the same time occurred only occasionally. Electrical noise, particularly in Cape Town, had hampered earlier efforts, but on the morning of May 4, noise levels were low, and a perfect contact was possible with full call signs and reports exchanged.

In 2016, Dave Swanson, KG5CCI, in Arkansas, and Eduardo Erlemann, PY2RN, in Brazil, achieved a distance milestone on AO-7, completing a scheduled contact that covered a calculated distance of approximately 4,979.2 miles, which Swanson said was “way beyond the theoretical range of AO-7” and a feat that “the math said shouldn’t be possible.” — *Thanks to AMSAT News Service*

**FEDERAL JUDGE OKAYS RETRIEVAL OF TITANIC MARCONI WIRELESS EQUIPMENT****05/22/2020**

A US federal judge in Virginia has given permission to retrieve the ill-fated RMS *Titanic*’s Marconi wireless gear, which transmitted distress calls from the sinking ocean liner during its maiden voyage. Judge Rebecca Beach Smith of the US District Court in Norfolk ruled that the radio gear is historically and culturally important and could soon be lost within the rapidly decaying wreck. The *Titanic* sank after striking an iceberg some 370 miles off the coast of Newfoundland in 1912.

“The Marconi device has significant historical, educational, scientific, and cultural value as the device used to make distress calls while the *Titanic* was sinking,” Judge Smith wrote in her ruling. She said the company would be permitted “minimally to cut into the wreck” to access the radio room.

David Concannon, a lawyer for R.M.S Titanic Inc., which the court has recognized as the steward of the vessel’s artifacts, said the company would try to avoid cutting into the ship, noting that the radio room may be reachable via a skylight that was already open. More legal wrangling may lie ahead. The National Oceanic and Atmospheric Administration (NOAA) contends that the retrieval expedition is still prohibited under US law and under an international agreement between the US and the UK.

R.M.S Titanic has said the radio transmitter could unlock some of the secrets about a missed warning message and distress calls sent from the ship.

“It tells an important story,” Concannon said. “It tells of the heroism of the operators that saved the lives of 705 people. They worked until water was lapping at their feet.”

In an April court filing, NOAA argued against the salvage effort, saying that any benefit to be realized from cutting into the vessel to recover the Marconi equipment would not be “worth the cost to the resource and not in the public interest.”

RMS *Titanic* sought permission to carry out what it called a “surgical removal and retrieval” of the Marconi radio equipment. As might be expected, the deteriorating Marconi equipment is in poor shape after more than a century under water. The undersea retrieval would mark the first time an artifact was collected from within the *Titanic*, which many believe should remain undisturbed as the final resting place of some 1,500 victims of the maritime disaster. The wreck sits on the ocean floor some 2 1/2 miles beneath the surface, and remained undiscovered until 1985. R.M.S. *Titanic* said it plans to use a manned submarine to reach the wreck and then deploy a remotely controlled sub to retrieve the radio equipment.

### 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?!***

### ***FIELD DAY UPDATE!***

Planning for this year's Oh-Ky-In ARS participation in the 2020 ARRL Field Day is pretty much set. However, everything is still fluid as to WHERE in the zombie apocalypse we will find ourselves in. I thank all who have stood up and have helped plan this year's event. Your sense of urgency and willingness to make this work has been humbling.

At the time of me writing this, we still are not sure if we can hold the event at our usual location, however, we are looking at alternatives just in case. From this time out, please expect updates via email, and I will keep you up to date as much as I can. Please remember, as in previous emails and articles, this year is a special year and will result in an extremely limited event. We are ready and willing to operate at the same category, 3A. But, unfortunately, in the current situation, we

must ensure the safety of all involved and limit the amount of people to the site. I assume, in the current state of things, all should understand, or at least I hope so. Where we are not going to operate a 'locked down' site, we are not saying stay away. If you wish to visit, you will be welcome. But please understand that this year has to be different and please keep visits to the minimum.

To be continued... Eric, N8YC

*Where is TechTalk???*

Well, starting **June 3<sup>rd</sup>**, **TechTalk is back on the OHKYIN 146.670 repeater (PL 123, of course)** at its regular 9 PM starting time!!

The net will be held on the 147.240 repeater for the last time on this coming Wednesday, May 27th

**A big "Thank you"** goes out to the Queen City Emergency Net for allowing us to hold TechTalk on their repeaters! 73, Bruce N8BV, TechTalk Net Manager

### ***Tips and Techniques - from KL7JR***

**Tips that have worked for me over the years. Some learned the hard way and some are just common sense that we tend to forget.**

- 1. To keep RFI out of your shack (does nothing for your neighbors) at termination point of antenna use 6-8 wraps of 6" coil dia coax. Don't let 1st wrap touch last wrap is all you need to look out for.**
  - 2. Do not set external tuner directly on top of rig. The older manual tuners would distort the audio on some bands. I keep my Z-100 auto tuners about 1 inch above my rig (use anything non-conductive for the spacer). This may not be a problem with the newer tuners but I keep the separation anyway.**
  - 3. I like to keep a small fan blowing on the back of the rig or power supply to help things out. If you rig or ps fans keep coming on this will do the trick.**
  - 4. I keep my laptop at least 2-3 feet away from my rig and have never had RFI problems. It helps to ground the rig too.**
  - 5. I always keep my signal and audio cables as far away from the power cords as possible. If you have them all bunched together, you will have problems one day.**
- Have A Nice Day! John F. Reisenauer, Jr. KL7JR**

## 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 June 2020*

<b>1<sup>st</sup> Wednesday</b>	<b>Bob W8CRO</b>
<b>2<sup>nd</sup> Wednesday</b>	<b>Mike N8MRS</b>
<b>3<sup>rd</sup> Wednesday</b>	<b>Dale KC8HQS</b>
<b>4<sup>th</sup> Wednesday</b>	<b>George N3VQW</b>



**NEWSFLASH: NEW E-MAIL LIST THROUGH GROUPS.IO**

Greetings to everyone who is subscribed to the OH-KY-IN Amateur Radio Society e-mail list server! I hope this email finds you all healthy!

I'm sending this email to let everyone know that over the next several weeks, OH-KY-IN ARS will be converting our e-mail list server over to a platform called Groups.io

This will end up being a very easy process for everyone, and there will be a LOT of nice enhancements over our old list server. As an example, if you are a current paid member of OH-KY-IN, you will finally have access to an up to date club roster, photos section that you can look through and upload your own photos, a club activity calendar, and I even have reminders set up to automatically send via e-mail about our meetings, nets, and other activities.

I will have the Groups.io website send an invitation to everyone's email address who is a paid member of the club. Once you receive the email, there is an "Accept Invitation" button you can click on. Once you click that button in the e-mail, all you have to do is create an account, and you're set to go! Once you are logged in, feel free to roam around the files and use them as necessary. This will be a PRIVATE group only open to paid members and I will be able to update your membership at any moment. As a paid member, please remember anything in the Files section is only meant for your personal use. If you want to send an e-mail to the group, it's very simple! You simply send an e-mail to: [OHKYIN@groups.io](mailto:OHKYIN@groups.io)

**There will be a second Groups.io set up for OH-KY-IN ARS for those of you who are NOT members**, but like to get information regarding our activities and other communications. Unlike the private group, this will be a PUBLIC group which you do not have to be a club member to join. Many of the same e-mails will be sent to the public group, but you will not have access to a Files section. If you want to send an email to the public section, you simply send an email to: [OHKYINPublic@groups.io](mailto:OHKYINPublic@groups.io)

During the transition, if anyone has any questions or needs help with anything, please don't hesitate to reach out to me and I'll be sure to get you set up!

Best 73,

Nathan Ciufu, KA3MTT

OH-KY-IN ARS Membership Chairman

## The Radiophonic Laboratory: The Sound-Houses of Daphne Oram (Part 2)

By Justin Patrick Moore, KE8COY

### Oramics

Immediately after leaving the BBC in 1959, Oram began setting up her Oramics Studios for Electronic Composition in Tower Folly, in a former oasthouse (a building designed for drying hops prior to brewing) near Wrotham, Kent. The technique she created there involved the innovative use of 35mm film stock. Shapes drawn or etched onto the film strips could be read by photo-electric cells and transformed into sounds.

According to Oram, "Every nuance, every subtlety of phrasing, every tone gradation or pitch inflection must be possible just by a change in the written form."

While innovative, the Oramics technique was also expensive and Daphne met the financial pressure of having her own studio by opening it up and working as a commercial composer. Being director of the studio gave her complete control and freedom to experiment, but it also meant dealing with the stress of making it economically viable. For the first few years she made music for commercial films, sound installations and exhibits, as well as material for television and radio. She made the electronic sounds featured in Jack Clayton's 1961 psychological horror film *The Innocents*. She also collaborated with opera singers creating material for concert works.

These pressures eased in 1962 when she was given a grant of £3,550 (equivalent to £76,000 in today's money). She was able to put more effort into building her drawn sound instrument.

In 1965 she reconnected with Graham Wrench, a few years after she had bumped into him at the IBC recording studio where she had brought in some tape loops for a commercial. She was in need of an engineer and technician and asked Wrench if he wanted the job, so he drove down with his wife to check things out.

Graham said of the visit, "on a board covering a billiard table in an adjoining reception room was displayed the electronics for Oramics. There wasn't very much of it! She had an oscilloscope and an oscillator that were both unusable, and a few other bits and pieces — some old GPO relays, I remember. Daphne didn't seem to be very technical, but she explained that she wanted to build a new system for making electronic music: one that allowed the musician to become much more involved in the production of the sound. She knew about optical recording, as used for film projectors, and she wanted to be able to control her system by drawing directly onto strips of film. Daphne admitted the project had been started some years before, but no progress had been made in the last 12 months. I said I knew how to make it work, so she took me on. I left my job with the Medical Research Council and started as soon as I could."

Graham was able to help her build the system up, drawing on his experience as a radar specialist in the RAF. He started by designing a time-base for the waveform generator. To do this he needed to make his own photo-transistors which were too expensive to buy commercially, by scraping off the paint of regular transistors, still pricey at the time as they had only been on the market a few years.

The waveform-generator itself worked in the same fashion as an oscilloscope, but in reverse. It used a six-inch CRT [Cathode Ray Tube] mounted inside a lightproof box, with a 5x4-inch photographic slide carrier fixed to the front of its screen. Mounted some distance in front of the CRT was a photomultiplier tube, arranged so as to detect light from anywhere on the screen. In the slide carrier was placed a transparency with an image of the required waveform; but this was not, as generally believed, simply a line drawing. The shape was filled in with solid black below the line and was left transparent above it, looking rather like the silhouette of a mountain range.



Across the bottom of the CRT screen a dot of light was made to trace a horizontal line by scanning repeatedly from left to right along the 'X' axis. If the beam happened to be obscured by the lower, opaque part of the drawn waveform, no light would be detected by the photomultiplier tube. If so, the beam was told to move higher up the screen until the photomultiplier could see it. In this way the moving dot of light was forced to follow exactly whatever profile was drawn on the

transparency. Altering the voltage of the CRT's Y-axis deflection plates controlled the up and down movement of the dot. The charge on these plates is very high — usually several hundred Volts. But if fluctuations in the Y-axis voltage were scaled down to within just a Volt or so, it could be connected to an audio amplifier... And that is exactly how the Oramics machine generated its sound: the audio output was tapped off the Y-axis voltage of the CRT.

Whatever shape was placed in front of the screen became just one cycle of a repeating waveform. The speed at which the dot of light travelled across the screen on the 'X' axis was controlled by the time-base unit, and was adjustable over a very large range so that the speed of the scan dictated the frequency of the sound it produced. If the beam travelled across the screen 440 times every second, it would scan the drawn waveform 440 times, producing a pitch of 440 Hertz, or the 'Concert A' above middle C.”

He had also created an analog digital system by dividing the film into four usable tracks, “each of which can be set to on or off by putting a spot of paint in the appropriate place on the film, to be read by a photo-cell. Remember how the binary system works? Well, if each strip of film has four tracks, we can use them as four places of binary digits. The track on the lower edge of the film does nought or one; the next one up does nought and two; the next does nought and four; the top-most track does nought and two again: hence, weighted binary. So it's very simple to 'program' each strip of film with a number — it only has to be between nought and nine — just by painting up to four spots on the film.

"Imagine that you've put a waveform picture in the scanner. If you'd like that sound to play at a frequency of 440 Hertz, then you go first to the strip of film that programs the hundreds of cycles

per second. There are four available film-strips of four tracks each, so just put a spot on the third track of the third film from the bottom (the hundreds). Then go to the film strip that programs the tens of cycles per second, and do the same. That's it — you've programmed 440 Hertz! When the film is run, those two spots of paint will be read by the photo-cells, which in turn, control latching relays that switch in banks of resistors and make the time-base run at whatever frequency. So you see, it is digitally controlled — but not how you'd imagine it! I know it seems a strange way to play a tune, but with a bit of practice it becomes quite intuitive.”

He also developed the means to control volume with the system by means of an optical system where a light is faded up and down to change the audio level by means of a photo-resistor. He also figured out how to create tremolo and vibrato. The system had become vary flexible in the sonics it was able to produce. Being able to draw a sound gave amazing freedom in creating rich envelopes of music.

Sadly Graham, who had done so much to develop the system, was let go by Daphne following an illness that some believed had been a brain hemorrhage, but which was never fully diagnosed. Graham believed it was a nervous breakdown caused by her long working hours and perhaps the 5hz subharmonic frequencies caused by the Oramics machine, which he later fixed by adding a high pass filter to remove the subsonics. The reason for his release was never made clear. It was a real shame because Graham had done a lot of work to get the system as she had envisioned it in place.

Other engineers and technicians came in and copied what he had done to expand the Oramics system while Daphne continued to compose, research, and think about the implications of electronic music from a philosophical perspective. She turned her attention to the subtle nuances of sound that composers using traditional instruments had never been able to control before. She applied this research to the study of perception itself, and how the human ear influences the way the brain apprehends the world. Oramics came to encompass a study of vibrational phenomena, and she divided her system into two distinct parts - the commercial and the mystical.



In her detailed notebooks Daphne defined Oramics as "the study of sound and its relationship to life."

Over the decades Daphne had lectured on electronic music and studio techniques.

Throughout her career, Oram lectured on electronic music and studio techniques. In the early seventies she was commissioned to write a book on electronic music. She didn't want it to become a how-to book, so instead took a philosophical and meditative approach to the subject. *An Individual Note of Music, Sound and Electronics* was published in 1972 and reissued in 2016.

Later in the 1970s Oram began a second book, which never saw print but survives as a manuscript. Titled, *The Sound of the Past - A Resonating Speculation*, in this work the influence of her father's interest in archaeology can be seen. In it she speculates and muses on the subject of archaeological acoustics and proposes a theory, backed by research, suggesting that Neolithic chambered mounds and ancient sites like Stonehenge and the Great Pyramid in Egypt were used as resonators, and could be used to amplify sound. Her research suggested that ancient peoples, through their knowledge of sound and acoustics, may have been able to use these places for long distance communication.

By the time the 1980s rolled around she was engaged by the Acorn Archimedes computer company to work on the development of a software version of Oramics for their machine, receiving a grant from the Ralph Vaughan Williams Trust. She had wished to continue the mystical side of her sound research, but the continuing financial struggles for such a project left that dream mostly unfulfilled.

In the 1990's Oram suffered from two strokes that eventually led her away from her work and into a nursing home. She died in 2003.

In her book Daphne wrote, "We will be entering a strange world where composers will be mingling with capacitors, computers will be controlling crotchets and, maybe, memory, music and magnetism will lead us towards metaphysics."

It is true we are living in that strange world where computers control and Internet of Things, and smart fabrics are weaved by machines. It remains to be seen if the philosophers and spiritually minded musicians of today will marry their love of all things electrical and electromagnetic with the long memory necessary for us to understand the fundamental nature of reality.

An archive of her recordings can be listened to free here: <http://www.ubu.com/sound/oram.html>

A contemporary reinterpretation of her music from the BBC archives can be found here: <https://ecstaticrecordings.bandcamp.com/album/sound-houses>

#### **Sources:**

<http://www.ubu.com/historical/oram/index.html>

<https://publicdomainreview.org/essay/cat-pianos-sound-houses-and-other-imaginary-musical-instruments>

<https://www.theguardian.com/music/2008/aug/01/daphne.oram.remembered>

<https://www.soundonsound.com/people/graham-wrench-story-daphne-orams-optical-synthesizer>

<https://frieze.com/article/music-15>

[https://en.wikipedia.org/wiki/Daphne\\_Oram](https://en.wikipedia.org/wiki/Daphne_Oram)

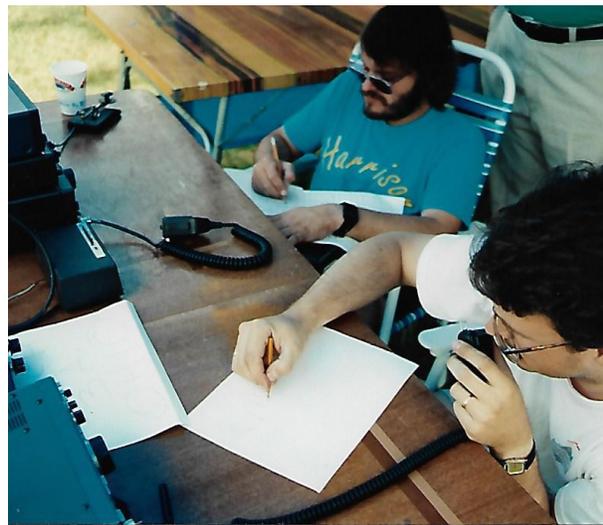
**FIELD DAY: ANOTHER BLAST FROM THE PAST!**

Bill Simpson KI4QJ sent these pictures to me a couple of weeks or so ago. I thought I'd bring them to a meeting and pass them around. Then I thought, when will that be?

These pictures are from an OH-KY-IN Field Day at Mitchell Memorial Forest of many years ago. Check these out and see how many people you can identify.

73, ..... Bruce N8BV





## WINTER FIELD DAY RESULTS

The results from Winter Field Day 2020 were published recently and here is how K8SCH stacked up.

K8SCH operated as 3O (three simultaneous transmitters and outside) and claimed a score of 10,640 points with 182 phone contacts, 56 digital contacts and 7 CW contacts with multiplier of 10 and 4,500 bonus points. Our final score was 10,056.

Out of 1,032 entries, K8SCH ranked 76th overall, 38th overall for O - outdoors, 10th overall category 3O, 5th overall in the OH section and...

drumroll....

1st place for O - outdoors OH!

Congratulations on a job well done, everyone!

To view the results, visit <https://www.winterfieldday.com/wfd-2020> . If you want them in an Excel spreadsheet, let me know as I have a copy.

73!

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Cesi KD8OOB



## OH-KY-IN ARS Member Spotlight

**Mr. Jerry Shipp Sr. - W1SCR LIFETIME MEMBER**

### Jerry's start in Amateur Radio

Jerry has been licensed for 41 years !!! That's incredible !!! He enjoyed tinkering with electronics as a kid - which followed him until after college, Jerry joined the Army Signal Corp. More

Information on the Signal Corps can be found at:

<https://www.goarmy.com/soldier-life/becoming-a-soldier/advanced-individual-training/signal-corps.html>



Jerry is not much of a contester, but always enjoys lending a hand at club contest functions.

Jerry enjoys SSB and is promising to learn Morse Code!

Jerry is VERY versed in digital modes, with one of his favorites being Win-Link. WinLink is a worldwide radio messaging system that uses amateur radio frequencies and government frequencies to provide radio interconnection services that include email with attachments, position reporting, weather bulletins, emergency and relief communications, and message relay. The system is built and administered by volunteers and is financially supported by the Amateur Radio Safety Foundation. More info can be found at [www.winlink.org](http://www.winlink.org)

**Jerry and his XYL Cindy use an IC-7300, FT-897, FT-857, FT-817, and many assorted 2M, 220, and 440 Transceivers. You can find images of most on this Spotlight page.**



Jerry went to Dayton Hamvention for 35 years in a row - never missing one!

He has been able to make EVERY one of the OH-KY-IN ARS Hamfests, as well.



Jerry also enjoys portable operating. The picture to the left is from a trip to East Fork Lake Park in Ohio.

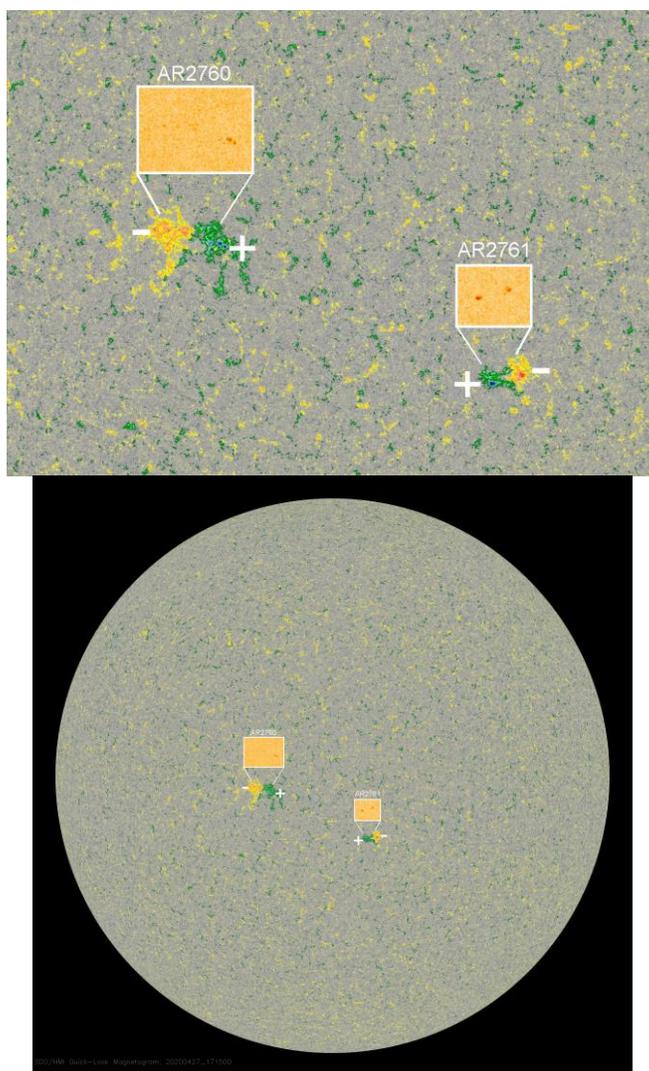
You can see the MP-1 portable antenna on the right. He also uses a Chameleon EmComm II wire antenna.



**SOLAR WEATHER AND PROPAGATION NEWS****Two Solar Cycles Active at Once**

*[April 28, 2020](#) / [Dr. Tony Phillips](#)*

Today, there are two sunspots in the sun's southern hemisphere. Their magnetic polarity reveals something interesting: They come from different solar cycles. Take a look at this magnetic map of the sun's surface (with sunspots inset) from NASA's Solar Dynamics Observatory:



One sunspot (AR2760) belongs to old Solar Cycle 24, while the other (AR2761) belongs to new Solar Cycle 25.

We know this because of Hale's polarity law. AR2760 is +/- while AR2761 is -/+, reversed signs that mark them as belonging to different cycles.

This is actually normal. Solar cycles always overlap at their boundaries, sprinkling Solar Minimum with a mixture of old- and new-cycle sunspots. Sometimes, like today, they pop up simultaneously. We might see more such combinations in the months ahead as we slowly grind our way through one of the deepest Solar Minima in a century.

The simultaneous appearance of two solar cycles suggests a type of temporary balance. In fact, the tipping point may have already been reached. So far this year, there have been 7 numbered sunspots. Five of them (71%) have come from Solar Cycle 25. This compares to only 17% in 2019 and 0% in 2018. Slowly but surely, Solar Cycle 25 is coming to life.

*(published in Spaceweather.com)*

### ***Sunspot Cycle 25 is Brewing: Early Signs Herald its Onset***

The solar cycle is known to originate from a magnetohydrodynamic dynamo mechanism which relies on complex interactions between plasma flows and magnetic fields in the Sun's convection zone . . . a recent prediction of sunspot cycle 25 based on magnetic field evolution models on the Sun's surface and its interior forecasts a weak, but not insignificant solar cycle 25 with no indication of an imminent Maunder-like grand minimum in activity.

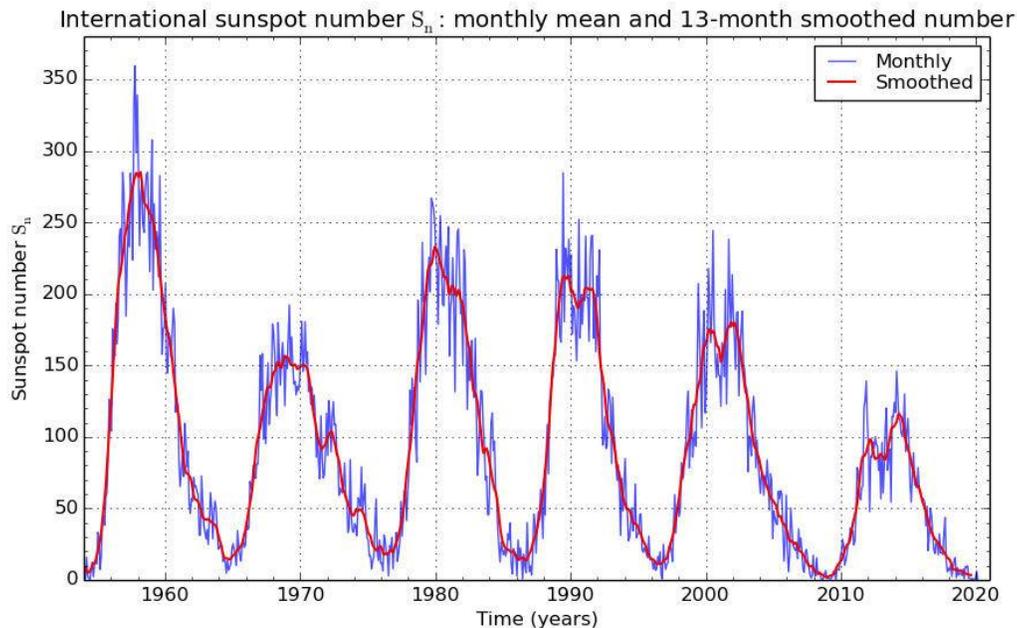
Evidence indicates sunspot cycle 25 is brewing in the solar interior and that its early manifestations are already apparent in the form of magnetic regions on the solar surface. Scientists have identified 33 regions with orientation conforming to the underlying toroidal field direction expected for cycle 25. A majority of the magnetic regions conforming to cycle 25 polarity orientation also appear at relatively higher latitudes where new spots from solar cycle 25 are expected to appear.

You can read the full report here:

<https://iopscience.iop.org/article/10.3847/2515-5172/ab79a1>

*(Thanks to Jim WB4CTX for this information)*

## 40-Year Sunspot Cycle



SILSO graphics (<http://sidc.be/silso>) Royal Observatory of Belgium 2020 March 2

*The past six solar magnetic cycles have varied in duration and strength; judging by the number of sunspot seen the last one (Cycle 24) was not as active as previous ones. But a new one is just now starting. Credit: [SILSO image, Royal Observatory of Belgium, Brussels](#)*

### **REFLECTED TSUNAMIS AND SPACE WEATHER**

When the Earth trembles, even the edge of space moves. Researchers have known for decades that earthquakes and tsunamis send waves of air pressure to the very top of Earth's atmosphere. Up there, in [the ionosphere](#), the waves scramble GPS signals and interfere with radio communications much like solar flares do. Earthquakes, it turns out, can mimic space weather.

A [new paper](#) published in the research journal Space Weather shows that earthquakes and tsunamis may, in fact, affect the ionosphere much more than previously thought.

"On 11 March 2011, a magnitude 9.0 earthquake occurred near the east coast of Honshu, Japan, unleashing a savage tsunami as well as unprecedented ripples at the space-atmosphere interaction region," report the authors, led by Min-Yang Chou of the University Corporation for Atmospheric Research (UCAR). Using satellites and ground-based GPS receivers, Chou and colleagues took a close look at what happened to the ionosphere over Japan in the aftermath of the earthquake. As expected, it was disturbed.

Surprisingly, though, the ionospheric disturbances didn't peter out after the initial quake and tsunami; they kept going for many more hours. The reason: *Reflected tsunamis*.

Researchers once thought that only the sun could disturb the ionosphere so much. Solar flares bathe the top of our atmosphere with ultraviolet and X-radiation, sending waves of ionization rippling through the ionosphere. Sound familiar? Earthquakes and tsunamis have the same effect. In fact, Chou says, the disturbances over Japan were akin to a series of strong X-class solar flares.

Read the full article with images here:

<https://spaceweather.com/archive.php?view=1&day=01&month=05&year=2020>

### *RED, WHITE & AND BLUE ASH*

*The 2020 Red White & Blue Ash event has officially been cancelled.  
We'll be looking forward to working the event next year.  
73, ..... Bruce N8BV*

### **Social Distancing? Try Field Day from Home this year!**

***If you haven't already done so**, now is the time to renew your membership to OH-KY-IN ARS **or JOIN the club!** We have made it very simple to do so. You can simply click on the following link –*

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

*The above link will allow you to join or renew using ANY credit card with a secure website. You can also use a PayPal account if you would prefer using the same website.*

*If you would prefer to print an application and mail a check, you can contact me at [Nathan Ciufo, KA3MTT](#)*

*If anyone has any questions concerning joining the club or renewing your membership, please let me know! Best 73, Nathan Ciufo, KA3MTT  
OH-KY-IN ARS Membership Chairman*

*FOR DX'ERS AND CONTESTERS*

# Countdown to W4DXCC

September 25th and 26th, 2020, Pigeon Forge, TN

Hello from W4DXCC 16 DX and Contest Convention. This is our 16th year! The Mainstay Suites and Convention Center is open for business as of today May 8th and will be ready to host this year's W4DXCC DX and Contest Convention for 2020 September 25-26th.

Plan on attending today! The Website has been updated with the latest News. Be sure to SEE all those who attend last year in the picture gallery Here [2019 Photos](#)

Go Here for the W4DXCC website [W4DXCC](#)

Friday 25th is the Ham Radio Bootcamp where we do our best to provide the knowledge to New and Experienced Hams alike. If your new to some of the new digital modes like FT8-FT4 you won't want to miss Bootcamp.

Saturday 26th is the Main Convention where we have 6 presenters giving you the inside scoop on what is going on. Following each presentation, we have time for questions if you would like to know more.

We have all of the leading radio and equipment manufacturers setup in the lobby with the latest gear for you to twist the knobs or click the mice. More importantly you can have a one on one to ask questions about the gear with the company representative in a relaxed environment.

We have a fully operational Ham Shack setup where you can come learn hands on with an Elmer to show you the ropes and make QSO's in CW, Phone and different digital modes.

The Convention is a great place to meet with your friends. Coordinate with your friends to attend the convention and spend time with them reminiscing of the good old days.

We will have VE Testing on Saturday so get to studying for that test and also study for that Upgrade!

It is time to make your Hotel reservations for this year's convention. Online ticket ordering will open May 15th. Go here to the Website Hotel reservation page [Hotel Reservations](#)

The Convention admission includes Snacks and Drinks during Saturday's session and Lunch. Convention Registration is Open May 15th including Online Ticket Purchasing. There is an evening Banquet that you can attend. When you purchase your Convention tickets also buy the Banquet tickets, seating is limited for the Banquet.

You can make your ticket purchase any time after May 15th by going here [Online Ticket Purchase](#)

Check out the Website and learn about the W4DXCC DX and Contest Convention. Go Here [W4DXCC Convention](#)

Best 73 Dave Anderson, K4SV Convention leader Dave@w4dxcc.com

*Greetings fellow operators!*

*While waylaid a bit by the COVID-19 global pandemic - the time has come for the 2020 State of the Hobby Survey!*

*The [State of the Hobby](#) was born out of a simple curiosity - while browsing Reddit I noticed survey after survey relating to amateur radio but never the results. Many of these were also highly specific to singular topics in what I consider one of the most multi-faceted hobbies today. I decided to create my own survey, attempting to cover as many elements in the hobby as I could and to publish the results with as much gusto as I solicited responses. After what could only be described as a massive learning experience in 2017, I decided to make this an annual survey with the hopes of comparing results year to year to identify trends. This survey is important for hams around the world for a few reasons. First, we need data independent from regulatory and commercial bodies about the topics that impact us. Second, this benchmark can help us determine what is working and what is not in the ham radio community. This can involve participation, recruitment, mentoring and licensing. It can also help identify new and emerging trends in amateur radio. It's our chance to learn what we can about our community and make it the best it can be for now and in the future.*

*You can take the survey, learn more about some changes for 2020, and see previous year's results here: <https://www.radiosoth.org/2020/05/2020-state-of-hobby-survey.html>*

*The survey will run for 4 weeks, ending on 12-JUN (unless it's decided to extend).*

*In years past I've received very poor turnout from Reddit, which is a shame because I feel this community has a ton to contribute. Please considering taking this survey to support the initiative.*

*Thank you all!*

*Andrew K8AKC*

## VACUUM TUBES (EXCERPT)

By [H. Ward Silver](#)

Audiophiles and musicians — particularly guitarists — are well-acquainted with the technology; “tube amps” are still sought-after equipment. The sound of a vintage electric guitar blasting through an equally vintage tube “head” (turned up to 11, of course!) might well be the clarion of the 20th century’s latter half. Tubes still hold sway on stage and in an audiophile’s rack; not because of their fidelity, but because of the way they lack it!

A tube’s non-linearities color the amplified signal in ways that are pleasing to the human ear. Similarly, instruments themselves developed over the centuries to produce a sonic palette that humans like. The tube is well-suited to reproduce it, and so instruments and tubes and amplifiers all co-evolved into producing sound with spectral qualities we have grown to expect. Solid-state may have better looking specs on paper, but the ear knows what it wants! Expect tube amplifiers to be with us for some time yet.

Along with audio amplifiers, hams have relied on tubes since the 1920s when AM broadcast receivers created a huge market for them. Prices dropped and hams popped tubes into receivers and transmitters as quickly as new types were developed. Transmit power climbed from the early five watt designs to 100 watters.

By the onset of WWII, kilowatt “rock-crushers” were on the air. Military surplus flooded the market in the 1950s leading to the desktop-kilowatt. The tube was king!

Like the dinosaurs, tubes have not been outpaced by bigger devices but by tiny transistors, beginning with fragile point-contact devices and relatively crude (by today’s standards) junction diodes. The transistors kept getting bigger and faster until tubes are only found in today’s highest-powered applications where transistors just can’t go.

For hams, “steam radio” that glows in the dark is still the norm. However, with new pallet-style devices coming on the market, the tube “linear” is probably having its last great hurrah before becoming a legacy technology along with the modulation transformer and swinging choke.

Still, if you need to switch high voltage and high current, withstand crippling transients, or generate RF power in the megawatt range, you'll be talking to the tube manufacturers.

## Tube Basics

The foundation of all tubes is thermionic emission. Basically, that means heating a material (usually an oxide-coated wire or cylinder) to where it is so hot that free electrons can leave the atoms to which they are normally bound. These free electrons can move into a surrounding vacuum where they are free to travel in response to electric fields. This effect was originally discovered by Frederick Guthrie in 1873 and then again by Thomas Edison a few years later. However, it wasn't until the turn of the century that the effect was put to work.

Each tube has at least two elements: the cathode from which the electrons are emitted; and the anode or plate to which the electrons travel. A positive voltage is applied from the cathode to the plate so that the negatively-charged electrons move from one to the other. This is electronic current as opposed to conventional current which you are probably more familiar with. (See the sidebar about the difference between the two.) The cathode itself can be heated by an electric current through a filament like a light bulb or indirectly heated by a nearby filament.

A two-element tube or diode ("two-electrode") can act as a rectifier, which is basically a one-way current valve. Fleming's diode was used mostly as a detector for RF signals by turning their AC current into a DC-plus-audio current that could produce audible sound.

It was de Forest who created the triode by adding a third element: a control grid in the space between the cathode and anode. By varying the voltage between the grid and the cathode, the flow of electrons can be controlled.

A positive voltage accelerates the electrons toward the grid but most miss its tiny wires and reach the anode, creating plate current,  $I_P$ , through the tube. A negative voltage repels the electrons, reducing plate current; perhaps all the way to zero or cutoff if the voltage is high enough. Figure 1 shows a cutaway view of a triode with an indirectly heated cathode.

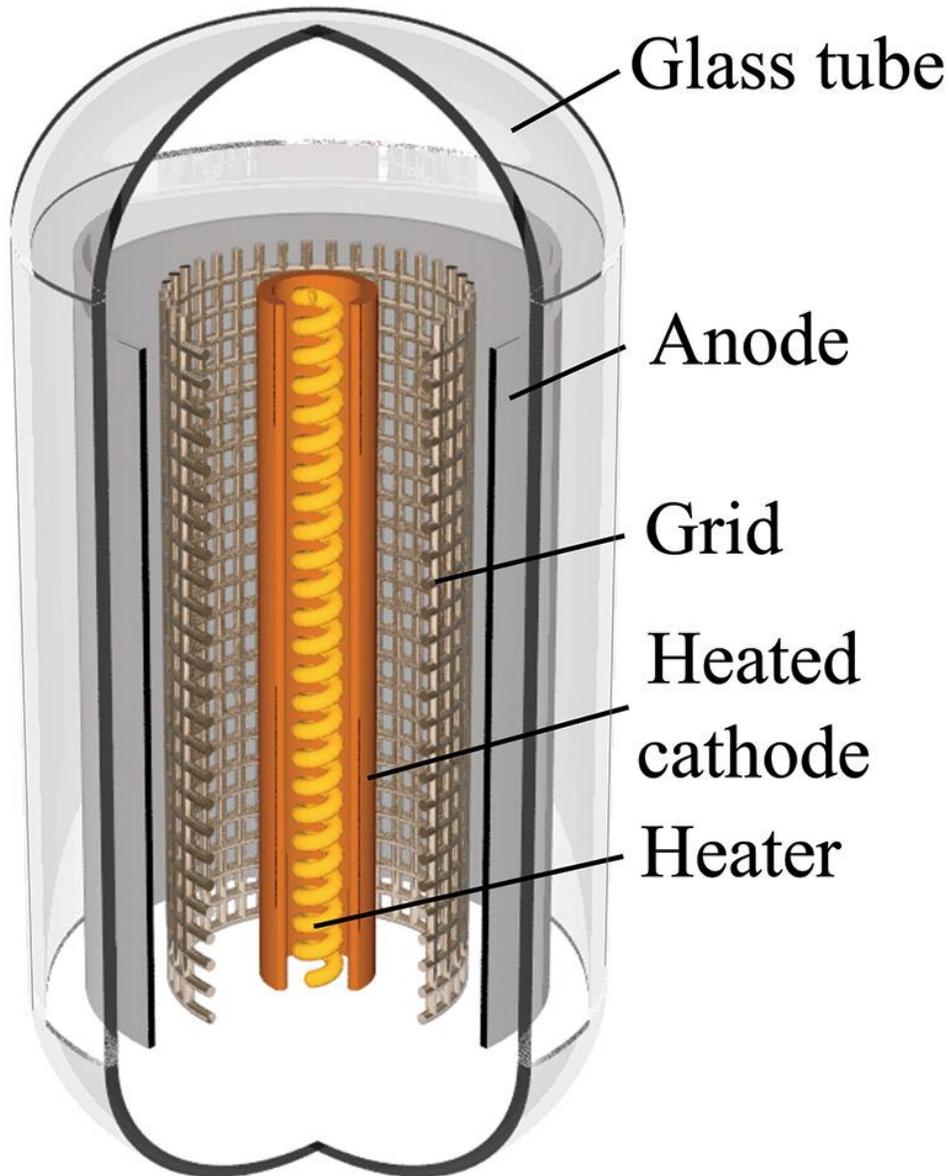


FIGURE 1. A cutaway drawing of a triode tube showing the filament heating the cathode, which is the source of electrons. The control grid surrounds the cathode and the electrons must pass through it on the way to the anode or plate. In a tetrode or pentode, there are additional grids between the control grid and the plate.

(Graphic by Svjo (Own work) [CC BY-SA 3.0 (<http://creativecommons.org/licenses/by-sa/3.0>)], via Wikimedia Commons.)

(Read the article published in its entirety here: [Nuts and Volts](#))

**FULLY REMOTE AMATEUR RADIO LICENSE EXAM ADMINISTRATION****I want to take an exam! How do I get started?**

The good news is there are exam sessions going on most days! The bad news is they are still a little slow and there aren't enough groups running them yet. You can look for sessions at <https://hamstudy.org/sessions> — make sure you read the instructions! — and contact the VE team linked on the page not HamStudy.org with any questions as HamStudy.org does not run the exam sessions!

As of yet there aren't a lot of sessions open, but we are doing our best.

For more information you can visit here:

<https://blog.hamstudy.org/2020/04/fully-remote-amateur-radio-license-exam-administration/>

*(thanks to Andrew Stevens for sharing this with the club!)*

**DIGITAL ACCESS TO FOUR MAGAZINES NOW A MEMBERSHIP BENEFIT!**

*ARRL members will now receive digital access to four ARRL magazines beginning with their latest issues. Joining QST and On the Air on a digital platform will be the bimonthly editions of QEX — The Forum for Communications Experimenters and NCJ — National Contest Journal. QEX includes articles, columns, and other features ranging from construction projects to more advanced technical information in radio theory and practice. NCJ targets radio amateurs active in radiosport, and includes scores, technical articles, contributions from top contesters, and advice for radiosport enthusiasts alike.*

*"All members can enjoy specialized content and a high-quality reading experience whether at their desk or on the go. Offering this suite of digital magazines is an opportunity for us to give members more of what they want while adding value to ARRL membership" said ARRL Publications Manager Steve Ford, WB8IMY.*

*ARRL's digital magazine editions provide replicas of the printed editions with added functionality, allowing users to fully search issues, enlarge pages, share articles,*

and more. All four are easily accessible through any web browser from members-only links. The free ARRL Magazines app also supports downloading complete issues for offline reading. It is available for iOS and Android in the Apple App Store and Google Play.

For more information visit [www.arrl.org/arrl-magazines](http://www.arrl.org/arrl-magazines)

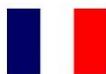


**Show Us Your QSL Cards – We Would Love to Share Them!!**



*Great Design Andrew, Congrats!!*

# DX Spots - June 2020 de KA3MTT

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 Dog Island IOTA DXpedition to NA-085/EL79 Thru 6-11	2	3 W2W - D-Day Commemoration Thru 6-10	4	5	6
7	8	9	10 ZF2FD - Cayman Is thru 6-17 	11 F47JA - St Kitts & Nevis thru 7-2 	12	13
14 Iowa State Parks On-the- Air	15 KG4MA - Guantanamo Bay thru 7-15 	16	17	18	19	20 Kids Day Law- ton, OK
21	22 BSA Camp Horseshoe Scout Reservation	23	24	25	26	27
28 Boy Scouts of America Trail to Eagle XXVI	29	30 FP - St Pierre & Miquelon Thru 7-14 				

*Thanks to Nathan for his excellent and long-standing efforts on our behalf!*

# Online SDRs You Can Tune and Listen To

**Anthony Luscre, K8ZT**

One of the problems with setting up a new *HF radio* station is the need for an adequate antenna. Although we now have HF radios that can fit in your pocket, the antennas still usually need to be both big and outside to work best. The second issue is that most portable Shortwave HF receivers do not include SSB reception which is necessary to receive Amateur (Ham) Radio voice communications. So what do you do when you just can't put up an antenna, don't own an HF receiver or maybe you are traveling and just want to tap into ham radio? Well, if you have Internet access you can get on the air to listen. Although you can both receive and transmit with a remotely controlled station, that is beyond the scope of today's project-- simply listening to the ham bands.

Unlike transmitting through a remote station, **listening requires no license** or special access to closed and/or paid remote stations. Fortunately, there are a number of free and open SDRs (Software Defined Radios) that you can control, tune and listen to with your laptop, phone, Chromebook, tablet, etc. as long as you have Internet access.

There are links to over 75 such remote receivers listed on the [web sdr](http://www.websdr.org) website



[www.websdr.org](http://www.websdr.org)

One of my favorites listed is at the University of Twente in the Netherlands.



<http://websdr.ewi.utwente.nl>

This site lets you tune the HF bands and unlike some non-ham sites, even receive using SSB. I will use this site to give you a guide to using these remote receivers. Although there are some variations on other sites, these general guidelines will get you started.

Below is a quick guide to getting started. For additional help on using SDRs visit

[www.websdr.org/faq.html](http://www.websdr.org/faq.html)

## Help Guide

Click here to start audio:

View:  waterfall  blind Allow keyboard:

To tune you can grab horizontal bar and slide left or right you can also tune by using the arrows on your

**Keyboard Commands**

- j k ← → freq. down/up (+shift/ctrl/alt faster)
- u l c a f USB, LSB, CW, AM, FM
- w w filter wider/narrower
- z z ^z center/zoom waterfall
- g enter frequency
- m v v mute, volume up/down
- t T VFOs: toggle A/B, set A=B

see list below for other suggested frequencies

14200.00 kHz A/B A=B

Filter: 2.40 kHz narrower wider

Waterfall zoom

Volume:  mute

Waterfall settings Memories 337 users Chatbox Logbook Station info S-meter plot Advanced

Speed:  slow  medium  fast

Size:  small  medium  large  extra large

View:  spectrum  waterfall

Brightness:

Full window width  "sticky"  Hide labels

**Suggested Frequencies**

- 1.850 to 1.900 LSB
- 3.600 to 3.900 LSB
- 7.050 to 7.300 LSB
- 14.150 to 14.350 USB
- 18.110 to 18.170 USB
- 21.100 to 21.450 USB
- 28.300 to 28.600 USB

A. Click button to start audio

B. Allow keyboard control

a. Keyboard Commands

- j, k, 4, ←, →** freq down/up (+shift/ctrl/alt faster)
- u, l, c, a, f** - Mode selection- USB, LSB, CW, AM, FM
- W, w** - Filter adjustment Wider / narrower
- g** - Enter frequency
- m** - mute
- V, v** - volume up/down
- t T** - VFOs, toggle A/B, set A=B

C. Waterfall Zoom (keyboard command **z, Z**)

D. Filter settings- change to 2.4 for SSB, 0.5 for CW, 9.0 for AM, 16.0 for FM

E. Speed & Size

F. Frequency- suggested frequencies for ham bands in red & for more see below

Here are a few other SDRs to try



[www.globaltuners.com](http://www.globaltuners.com)



<http://farnham-sdr.com>



<http://livehams.com>

Here is some good information on Shortwave Listening (SWLing)



<http://swling.com>

Suggested Frequencies



[www.arrl.org/band-plan](http://www.arrl.org/band-plan)



[www.textfiles.com/hamradio/FREQUENCIES](http://www.textfiles.com/hamradio/FREQUENCIES)

- [BC B19 - The comprehensive shortwave broadcasting schedule](#)
  - [FREQUENCY VERSION - www.eibispace.de/dx/freq-b19.txt](http://www.eibispace.de/dx/freq-b19.txt)
  - [TIME VERSION- www.eibispace.de/dx/bc-b19.txt](http://www.eibispace.de/dx/bc-b19.txt)

**Finding stations.** HF radio signals are affected by the time of day, atmospheric conditions and the sunspot cycle. The study of the variations in radio signals is called propagation. For more information visit [www.k8zt.com/propagation](http://www.k8zt.com/propagation). Unlike commercial AM, FM and SW stations, which have set frequencies and schedules, ham radio operations can take place any time on the allocated frequencies. To let others know what stations are currently on the air and their frequencies, hams use “DX Spotting” sites.



<http://www.dxsummit.fi/#/>



[www.dxscape.com](http://www.dxscape.com)

## Amateur Radio Bands

Band	Mode	Filter	Frequency	Best	Notes
160 M	CW	0.5	1800 - 1835 kHz	Night	Typically better Fall to Spring
160 M	LSB	2.4	1860 - 1990 kHz	Night	
80 M	CW	0.5	3500 - 3600 kHz	Night	Typically busiest bands for statewide and regional contacts, with longer contacts at night
80 M	LSB	2.4	3600 - 3999 kHz	Night	
40 M	CW	0.5	7000 - 7070 kHz	Both	
40 M	LSB	2.4	7125 - 7300 kHz	Both	
30 M	CW	0.5	10100 - 10130 kHz	Both	
20 M	CW	0.5	14000 - 14070 kHz	Both	Typically busiest band for long-distance contacts
20 M	USB	2.4	14150 - 14350 kHz	Both	
17 M	CW	0.5	18068 - 18100 kHz	Day	Usually best during higher points in the sunspot cycle. We are currently at a low point in this multi-year cycle
17 M	USB	2.4	18120 - 18168 kHz	Day	
15 M	CW	0.5	21000 - 21070 kHz	Day	
15 M	USB	2.4	21200 - 21450 kHz	Day	
12 M	CW	0.5	24890 - 24915 kHz	Day	
12 M	USB	2.4	24930 - 24990 kHz	Day	
10 M	CW	0.5	28000 - 28100 kHz	Day	
10 M	USB	2.4	28300 - 28600 kHz	Day	
6 M	CW	0.5	50080 - 50100 kHz	Day	Actually a VHF band. Typically more activity during summer
6 M	USB	2.4	50110 - 52500 kHz	Day	

For more information on the different modes visit:

- [www.k8zt.com/morse](http://www.k8zt.com/morse)
- [www.k8zt.com/digital](http://www.k8zt.com/digital)

## *The Digital Group – On Hiatus!*

Yep, like everything else, this meeting is in limbo until the all-clear is given by city officials to allow in-person meetings. Keep an eye on the E-mail subscriber list for more information! Hmm . . . might be a good time to practice Winlink Messaging!

### ***JUNE 2020 BRUNCH BUNCH – WAITING TO BE SERVED!***

***Due to the current restrictions associated with the coronavirus (COVID-19) the Brunch Bunch is suspended until further notice.  
73, Bruce N8BV***

### **2020 HARVEST HOME FAIR IS CANCELLED - BACK IN 2021**

### ***ANOTHER EASY WAY TO HELP OUT THE CLUB: YOUR KROGER CARD!***

#### **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

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## ***Technically Speaking***

**Gary Coffey, KB8MYC**, Technical Committee

Just a couple quick notes from the technical side of things. First, after much planning and waiting, we have received the go ahead from WLWT to replace the hardline on the 146.670 repeater. We had to wait until all the antenna work for the television station antenna was complete.

As you recall the club allocated the funds last fall for the project, so now we can move forward with getting the hardline shipped in and scheduling the climb. The current hardline is over 20 years old and has far exceeded its expected life span (usually 12 to 15 years).

Our other two VHF repeaters are working as they should, and some maintenance will be done through the summer months. Please, make use of them frequently.

Our repeaters are one of our greatest assets, use them often. 73!

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## ***OH-KY-IN Licensing Classes***

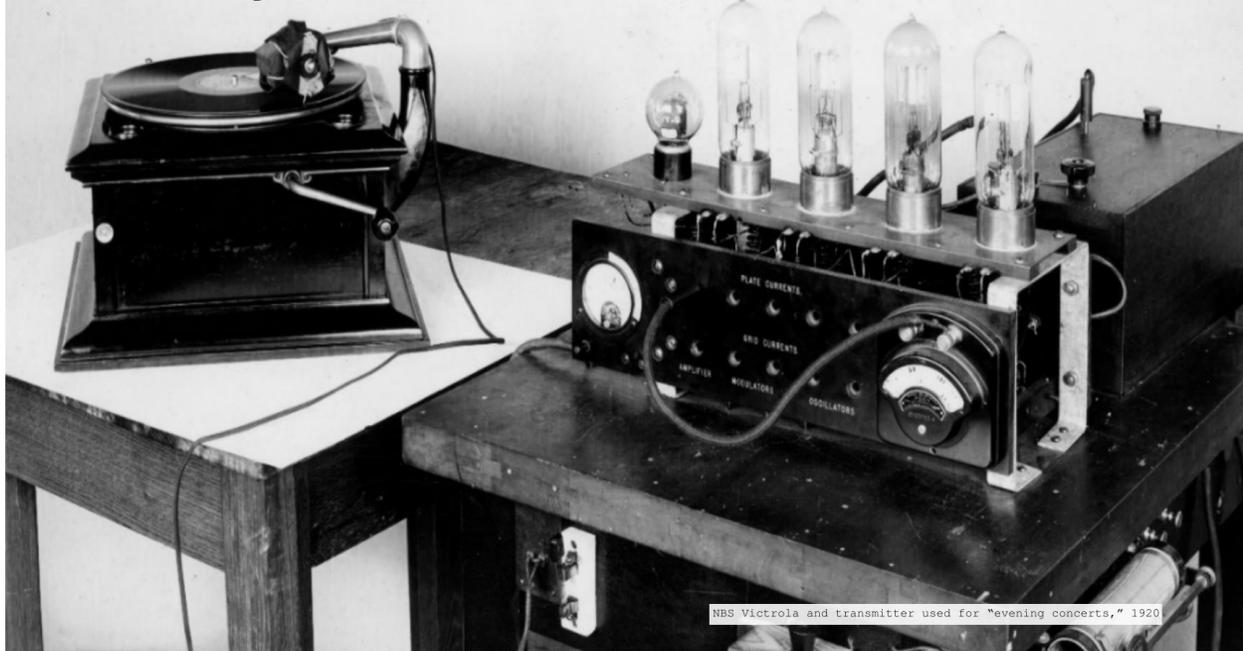
*Please Contact Mike KD8ZLB for future registration and class-specific information as it becomes available: [kd8zlb@gmail.com](mailto:kd8zlb@gmail.com)*

- All Spring Classes and Exams have been Cancelled due to virus concerns
- Keep an eye out for updates through the E-mail Reflector
- Fall Classes will be announced later this summer

## IN THE NEWS FROM QRZ.COM

**WWØWWV**

Celebrating 100 Years of Broadcasts from WWV 1920-2020

**SOTABeams CEO Richard (G3CWI) Announces Retirement**

In an e-mail to customers, SOTABeams CEO Richard Newstead (G3CWI) announced his immediate retirement. He named Martin Jackson as Managing Director.

The [SOTABeams website](#) has been updated listing Mr. Jackson as CEO. Martin had previously served as Technical Director for SOTABeams, creating popular products such as the WSPRlite and WOLFWAVE. SOTABeams is based in the United Kingdom, with distributors worldwide.

Richard also maintains a popular [YouTube channel](#) with nearly 4,000 subscribers. He covers a variety of amateur radio, field radio, and SOTA related content.

A portion of the e-mail appears below:

## News from SOTABEAMS

Hi folks

During the lockdown period there has been a major change at SOTABEAMS. I have decided to retire and my colleague Martin Jackson has taken over as Managing Director. I will still be around in the background of course, but the day to day running of the company will be done by Martin. After taking a bit of a break I intend resuming my Radio Adventures video series.



### *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.

### *MAY 2020 ONLINE OFFICIAL MEETING*

OH-KY-IN ARS Club Members Meeting (Zoom)  
May 2020

Meeting started at 7:32 - Pledge of allegiance.

Guests:

Bryan KE8OIR, first time attending meeting

New and Upgraded Licenses:

Bryan KE8IOR, New technician class license.

Nothing to report on minutes from previous meeting because it was not an official meeting.

Current Membership: 132 members.

Treasurer's Report: No income and expenses in April.

Silent Keys: No new silent keys.

Tech Committee: No tech committee news to report

Classes and Exam: Classes are cancelled. Planning classes in the fall.

Foxhunts and ARDF: Nothing happened in April and nothing planned at this point of time

Library: Justin not on so nothing to report.

Nets:

Tech Talk - Every Wednesday at 9pm on 147.24. N8BV is considering coming back to .67 in the next few weeks.

Newcomers and Elmer's is still on hold. (ed. Note: Newcomers Net is officially ended)

WinLink Wednesday: Winlink net every Wednesday. Send message to K8EAF

Digital Group: Has not met since February. Still on hold until city opens the building.

Website: No updates.

QCEN:

Simplex net tonight at 9pm - Next meeting on the 8th on the normal third Friday. Meeting to be held on Zoom.

Bryan did a remote exam on a club in Idaho, some members did the SKYWARN training.

ARES:

Still in holding pattern and still doing exercises when available. There will be a Red Cross regional exercise that crosses state lines on May 30<sup>th</sup> and a POD exercise for the health department. There are a couple of places that are obviously working for immunization to pass out for everyone.

Brunch Bunch: On hold.

Youth On the Air: YOTA is postponed.

Red White & Blue Ash: May 14<sup>th</sup> determination to be made if event still on Aug 8<sup>th</sup>.

Milford Hamfest: Postponed to August

Harvest Home Faire: Cancelled

Old Business

Winter Field Day: K8SCH #1 in 3O category in state of Ohio

NVIS day: People had fun participating at home.

FT8 Roundup: Several members had fun participating.

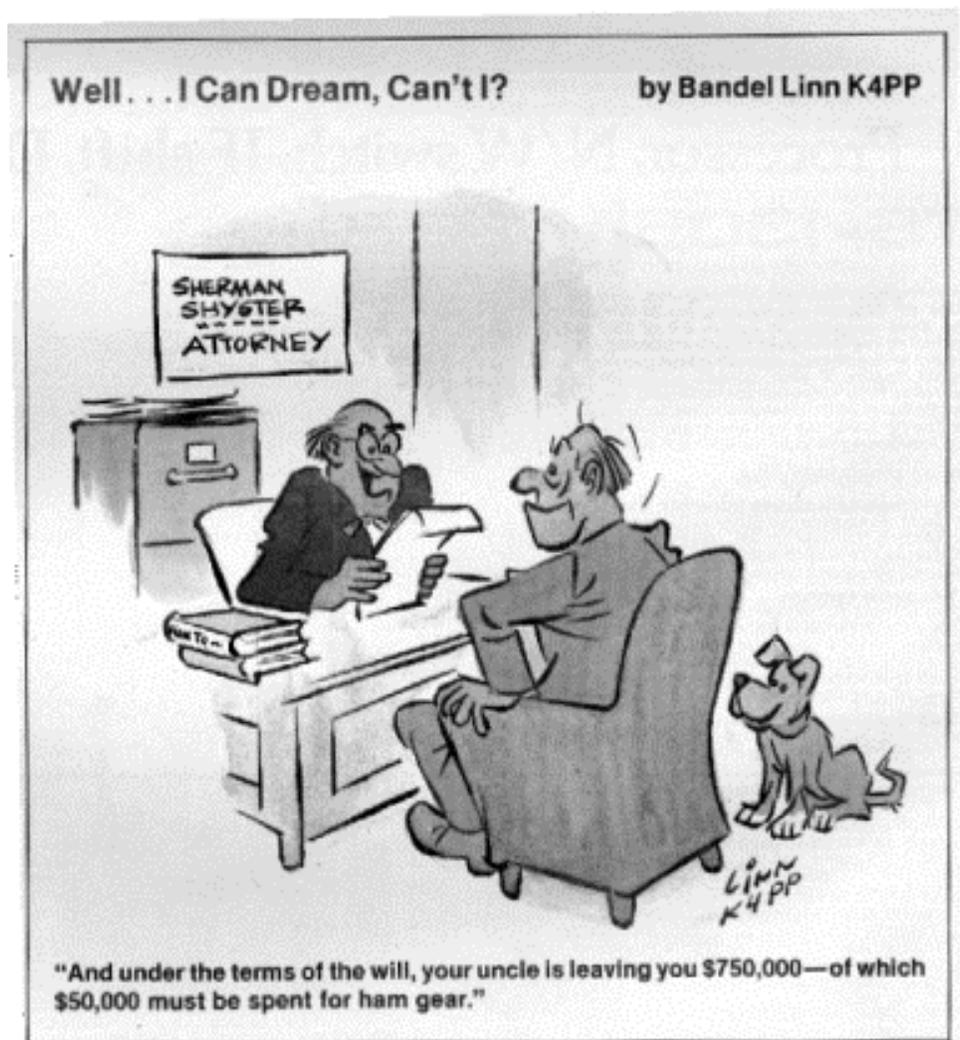
Groups.io - Nathan is working on group.io mailing list migration

Field Day - Slimmed down, 1 operator per station and there will not be a picnic.

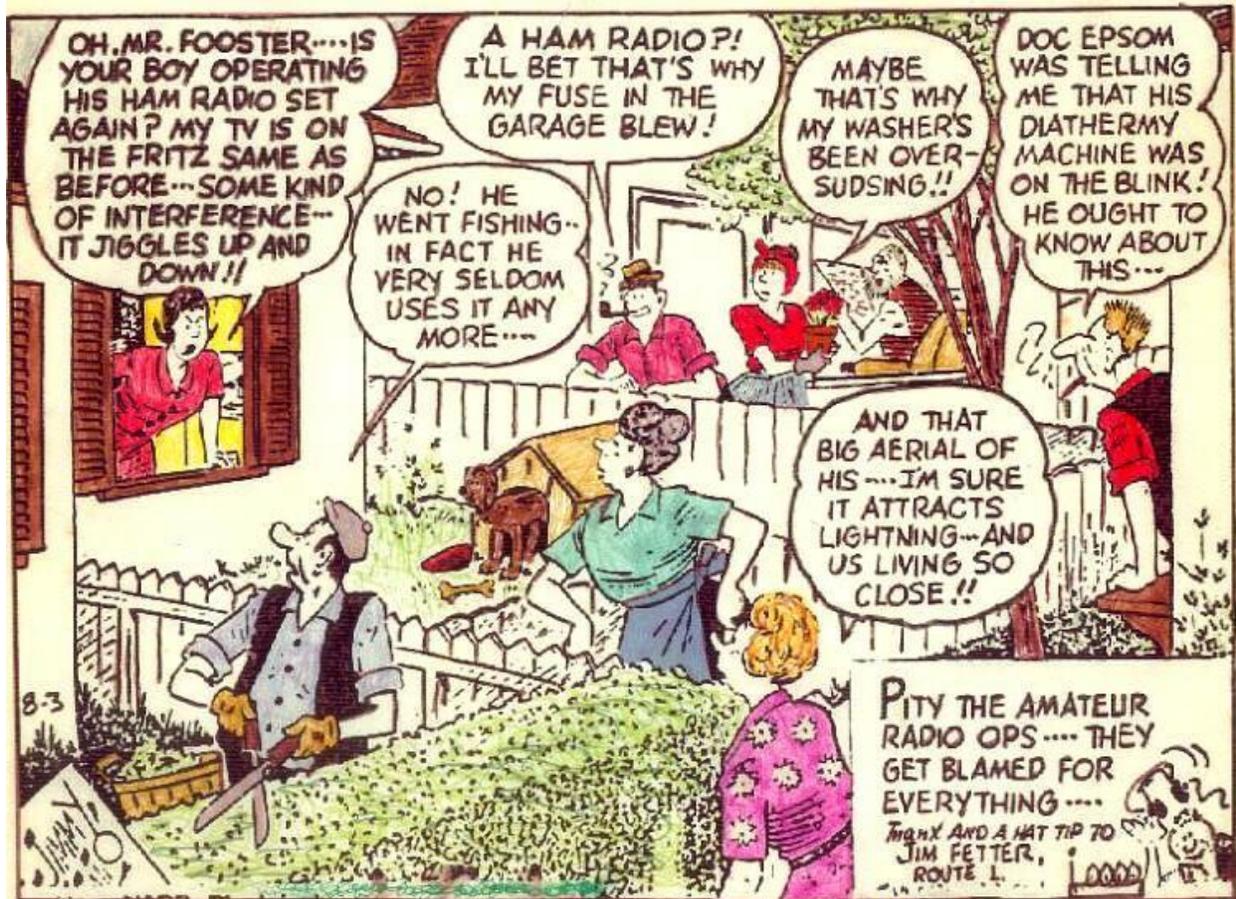
End of Meeting - 36 members attended zoom meeting.

Adjourned 8:26

### A Touch of Ham Humor!



## THEY'LL DO IT EVERY TIME :-:-:- by Hatlo



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*.