



Q-Fiver

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

In The News

*Meetings, Classes,
and Hamfests remain
cancelled, but don't
forget, you can
always*

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

*(We've been Social
Distancing for years!)*

In The News

*2nd Virtual
Weather Spotter
Training*

*700 Folks took the first
one, now you can have a
second chance to get in
on the training!*

[Click Here for more
information!](#)

In The News

*New Benefits for
ARRL Members*

*ARRL Members now
get 4 Digital
Magazines along with
their regular print
magazine!*

[See page 26](#)

Calendar of Events for May 2020

Mon	May 04	Virtual Weather Spotter Training 6 PM to 8 PM
Tue	May 05	Club Meeting (see announcement page 2)
Wed	May 06	TechTalk Bob W8CRO
Sat	May 09	Brunch Bunch Cancelled due to State Group Restrictions
Tue	May 12	Board of Directors meeting (see announcement page 2)
Wed	May 13	TechTalk Mike N8MRS
Wed	May 20	TechTalk Dale KC8HQS
Wed	May 27	TechTalk George N3VQW

IMPORTANT MAY MEETING NEWS FROM THE PRESIDENT

Club Members and Friends,

Due to the present (and continuing!) situation, our May 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.

Unlike last month, however, 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, May 12th 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. [Ryan, AC8UJ President](#)

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

A HAMVENTION BY ANY OTHER NAME!

Hamvention QSO Party Saturday May 16!

Here is the deal: 12-hour event, 8 a.m. to 8 p.m. EDST on Saturday of Hamvention May 16, 2020. Operate CW or SSB on 160, 80, 40, 20, 15 and

10 meters. The exchange is a signal report and first year you attended Hamvention. If you have never attended Hamvention you send 2020.

Send your score (number of QSOs) to 3830scores.com within 5 days of the event. You can print a certificate online via www.HVQP.org. More details will appear on the Hamvention QSO Party web site being set up now.

Special bonus: W8BI, the club call of the Dayton Amateur Radio Association (DARA is the host of Hamvention) will be activated by designated DARA members from their home stations. You can add 10 points for each band/mode QSO with W8BI (12 available). So you can earn 120 bonus points (like having 120 additional QSOs).

ARRL Revised Transmit Schedule

QST de W1AW
ARRL Bulletin 9 ARLB009
From ARRL Headquarters
Newington CT March 24, 2020
To all radio amateurs

W1AW to limit transmit schedule

In response to an executive order from Connecticut Governor Ned Lamont that all non-essential businesses and not-for-profit entities reduce in-person workforces because of COVID-19 pandemic concerns, W1AW has slightly altered its transmission schedule.

W1AW has suspended its morning code practice and qualifying run transmissions, beginning March 24, 2020. However, W1AW's evening transmissions, including qualifying runs, will be sent as usual -- there are no changes to the evening transmit schedule.

W1AW remains closed to the public.

Please see <http://www.arrl.org/news/arrl-headquarters-is-closing> for further details.

NNNN
/EX

ARRL HEADLINES NEWS

UN INTERNATIONAL CENTER IN VIENNA JOINS STAY-AT-HOME MOVEMENT

04/24/2020

The Vienna International Center in Austria has authorized the call sign 4U2STAYHOME for use by the UN Amateur Radio Contest DX Club, 4U1A. United Nations Amateur Radio Club President, James Sarte, K2QI, approved the call sign to promote amateur radio goodwill and over-the-air social networking. QSL cards go to UA3DX. Contacts with 4U2STAYHOME count for both [CMA and SHA awards](#). — Thanks to [The Daily DX](#)

JAPAN'S RADIO AMATEURS GAIN EXPANDED ACCESS TO 160 AND 80 METERS

04/22/2020

Effective on April 21, Japan radio amateurs have [new privileges](#) on 160 and 80 meters. The new allocations are 1800 – 1810, 1825 – 1875, 3575 – 3580, and 3662 – 3680 kHz. ARRL Life Member Kenji Rikitake, JJ1BDX/N6BDX, said the new regime allows Japanese radio amateurs to operate FT8 on 80 meters (3574 ~ 3577 kHz), and on 160 meters (1840 ~ 1843 kHz) as well as WSPR (1836.6 kHz)

ARRL/TAPR DCC GOING VIRTUAL

04/20/2020

Due to the coronavirus pandemic, the 2020 ARRL and TAPR Digital Communications Conference ([DCC](#)), originally planned for Charlotte, North Carolina, will take place as an online virtual conference on the same dates, September 11 – 13. Details of the virtual DCC will be announced in the coming months as event plans are finalized. Plans call for holding the 2021 DCC in Charlotte.

COVID-19 NET NOW RUNNING WEDNESDAYS ON 40 METERS

04/20/2020

The Medical Net, a special COVID-19 net, is running Wednesdays, 0130 UTC, on 7.222 MHz. The net deals with correct data on COVID-19 epidemiology care, care issues, and more. Net control will be Dr. Harry Przekop, WB9EDP, a past president of the Medical Amateur Radio Council Organization (MARCO) and now a director at large.

Przekop is a specialist in infectious diseases and biomedical physics and is board-certified as an expert in HIV care.

Participants do not need to be physicians or medical providers to check in, ask questions, and otherwise take part, but no diagnoses can be rendered. The regular MARCO Grand Rounds Net is held on Sundays, 1500 UTC, on 14.342 MHz.

FIELD DAY REMINDER!

Greetings!

The OH-KY-IN Amateur Radio Society will proudly be conducting its annual ARRL Field Day event on Saturday and Sunday, 27 and 28 June 2020 at our usual Mitchell Memorial Forest location. Setup will be on Friday, 26 Jun starting at 2pm (24 hours before actual operation). Please come on down to the park for a weekend full of amateur radio at its best! Field Day is a yearly operating event that starts at 2PM on Saturday and concludes at 2PM on Sunday. Field Day is always the 4th full weekend in June.

We are honored that our Club, year after year, conducts the best Field Day operation in the area. With the hard work of so many of you throughout the years, planning each year's event gets a little easier every time. That's due to the fact that we've gotten so good at this that there is very little we need, or would like to change. So this year, we will once again go forward with our same planning as the last few years, but of course, it is an open discussion. Suggestions and comments are always welcome.

With the current situation of dealing with the Wuhan Virus (otherwise known as COVID-19), we will continue to monitor the situation and evaluate the need to modify, curtail or cancel the event as necessary. However, there is no reason we cannot go forward as usual with planning and preparation. Depending on the news we can wait to cancel/curtail up to one week prior to the event.

We will again be operating five stations:

- SSB Station 1: 10,15,20,40,80M
- Digital/SSB Station 2: 10,15,20,40,80M
- CW Station, 20 and 40M

- 6 Meter/VHF/UHF Stations
- GOTA (Get on the Air Station)

We will also have demonstrations for our bonus points in Solar, Satellite/Digital/APRS and National Traffic System operations among others. If there is any amateur radio technology you would like to bring out to demo, this is the perfect place!

Field Day is a great annual event geared to veteran and beginner operators alike, and of all ages. Anyone, regardless of their skills is free to sign up for any station, and there is always someone available to help you along. The GOTA station is a great place for those interested in amateur radio (but have not yet been licensed) to get introduced to the fun of what most often becomes a lifelong hobby!

Come out and join us for a great time of fun, food and camaraderie. The annual Field Day Picnic will start at 6pm on Saturday with burgers, metts, brats, dogs, and snacks. Please bring a side dish or a desert to help build the feast. Bring your friends and family out to see what's going on and to join us for the fun! Also, please feel free to pitch a tent Friday and/or Saturday night and stay the whole weekend if you like...a good number of us have been doing it for years. There is nothing better than the sound of QSOs through the night having a duel with the crickets!

I will have signup sheets available for all stations at the June Membership Meeting. If you would like to sign up and can't make the meeting, just contact me and I'll get you on the roster.

Visit the ARRL's website for a wealth of information on Field Day at:
<http://www.arrl.org/field-day>

I will be sending out more info soon as we continue to develop this year's event

(Additional Info – sent out April 25th)

In the current situation, this year's Oh-Ky-In ARS participation in the 2020 ARRL Field Day will be a challenge. But that is what Field Day is all about! We must adapt and overcome those challenges to accomplish the mission. Field Day was founded on the principle of being prepared for anything that comes our way. Anything.

With that said, work is underway behind the scenes to prepare for this year's Field Day as usual with no changes. I already have a good show of hands...we are GO!

HOWEVER, we are preparing for major modifications to what we normally do. My personal opinion is that operationally, Field Day will not change at all. With the way we normally have our stations separated and the minimal amount of manning those stations at any one point of time is very limited to two persons each.

Sacrifices may have to be made though such as the annual Field Day picnic. We may have to limit how many people are in the area at one time. There are way too many unknowns to make any firm decisions at this time.

But the good news is we really do have a lot of time. If Field Day happened now...not a chance. But Field Day in the usual Cincinnati hot and humid open spaces of Mitchell Memorial in late June...it's probably going to happen. We will comply with federal, state and local restrictions but seriously, I think it's going to happen.

SO, I need everyone's help. Please get with me any suggestions or comments you may have. Tell me what your availability is on FD weekend. We have to plan a staggered schedule on who shows up to operate and at what times. But we need to start now.

Once we have firmed up all station planning, we will submit a separate set up plan.

As far as amenities, we will still have the same Chef John. I see no reason why we can't have breakfast, lunch, dinner, coffee, water and drinks for those who are out there to operate and to help setup and tear down. Also, no reason to not have the Midnight SteakOut. We have acres, we can use them! And Wild Mikes is still open for carryout!

*Stay tuned folks, same BAT time, same BAT Channel!
Thanks, and 73! Eric, N8YC*

Where is TechTalk???

For the last few months, the TechTalk net has been held on the 147.240 (+) PL123 repeater operated by the Queen City Emergency Net. The 442.700 (+) PL123 repeater has been linked during the net as well. Even if you don't have any questions for the net, you just might have the answer to someone else's question. And you'll get updated with what is going on in the amateur radio world by listening in to both the Amateur Radio Newslines and Amateur News Weekly amateur radio news reports. The TechTalk net is held every Wednesday night at 9pm.

TechTalk will continue to be held on the QCEN repeaters until the controller at the 146.670 repeater is returned to service.

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

Hiram Percy Maxim - Before the Reeves brothers patented the automobile muffler, they had a predecessor who made their historic leap forward possible. In the middle of the 1890s, Hiram Maxim, an engineer and Massachusetts Institute of Technology graduate, conducted research that would later lead to both the automotive muffler and the silencer used on firearms.



16TH APR 2020

Flat Earthers Fear 2m Social Distancing Could Push Some People Over the Edge

(Now this just proves someone is quite clever! ed.)

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?!***

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 May 2020

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



The Radiophonic Laboratory: The Sound-Houses of Daphne Oram

By Justin Patrick Moore, KE8COY

As co-founder of the BBC Radiophonic Workshop –the unit created in 1958 that produced sound effects, incidental sounds and music for radio and television –Daphne Oram held a key place in the history of electronic music. Alongside F.C. Judd she was one of the first proponents of musique concrète in the UK. Her development of the Oramics system, a drawn sound making technique that involves inscribing waveforms and shapes directly onto 35mm film stock, also made her an innovative, if arcane, inventor of new musical technology. Daphne also gets the credit for being the first woman to design and construct a musical instrument, and the first to set up an independent personal electronic music studio.

Oram was born to James and Ida Oram on 31 December 1925 in Wiltshire, England. She was taught music at an early age, starting with piano and organ before moving on to composition. Her father was a coal merchants manager, but was also an amateur archaeologist, and during the 1950s was president of the Wiltshire Archaeological Society. Her childhood home was within 10 miles of the stone circle of Avebury and 20 miles from Stonehenge. Her mother was an amateur artist. It seems that her parents' interest in history and the arts lent itself to Daphne's blossoming in the field of music and technology.



At the age of seventeen the young Daphne was offered a place at the Royal College of Music but chose instead to take on a Junior Studio Engineer position at the BBC. She worked in part behind the scenes during live concerts at Albert Hall to 'shadow' the musicians, being ready to play a pre-recorded version of the music for broadcast in the event the radio was disrupted by the enemy actions of the Germans –not an unlikely fear just a year after the Blitz.

Graham Wrench was just a lad at the time but got to know Daphne through his father who was a musician in the London Symphony Orchestra. Many years he worked with Daphne as an engineer on her Oramics system. He said of her work for the BBC at the time, "Daphne's job involved more than just setting the levels. She had a stack of records, and the printed scores of whatever pieces the orchestra was due to play. If anything went wrong in the auditorium, she was

expected to switch over seamlessly from the live orchestra to exactly the right part of the record!”

Her other duties included the creation of sound effects for radio shows as well as keeping the broadcast levels of sound balanced and mixed. It was during this time period that she started to become aware of new developments in synthesized sound and started to make her own experiments with tape recorders late into the night, staying to work in the BBC studios long after her co-workers and colleagues had popped off to the pub or gone home for the evening. Cutting, splicing, playing backwards, looping, speeding up and slowing down, were all tape techniques she learned and at which she became expert.

In the 1940's she also composed an orchestral work that is now considered by some to be the first electro-acoustic composition. The piece was titled “Still Point” and involved the use of turntables, a double orchestra, and five microphones. The BBC rejected the piece from their programming schedule, and it remained unheard for seventy years. It was resurrected by Shiva Feshareki who performed it with the London Contemporary Orchestra for the first time on June 24, 2016. A revised version was performed again by Fesharek and the LCO alongside James Bulley following Oram's composition notes.

We Also Have Sound-Houses

Despite the rejection of her innovative score the BBC promoted her to become a music studio manager in the 1950s. It was around this time she travelled to RTF studios in Paris where Pierre Schaeffer had been hard at work in his development of *musique concrète*. Daphne began a crusade for the creation of a studio at the BBC dedicated to the creation of electronic and *musique concrete* for use in radio and television programs. She demonstrated her vision of what this music could be when she was commissioned to compose music for the play *Amphitryon 38* in 1957, producing the BBC's first entirely electronic score. It was made using a sine wave oscillator, self-designed filters, and a tape recorder.

The production and piece were a success, and these led to further commissions for electronic music. Fellow work colleague and electronic musician Desmond Briscoe also started to receive commissions for a number of other productions. One of the most significant was a request for electronic music to accompany Samuel Beckett's *All that Fall*, which also was produced in 1957. The demand for electronic music was there, and the BBC finally gave in, giving Oram and Briscoe the go-ahead, and the budget, to establish the BBC Radiophonic Workshop.

The focus of the Workshop was to provide sound effects and theme music for all of the corporation's output, including the science fiction serial “*Quatermass and the Pit*” (1958–59) and “*Major Bloodnok's Stomach*” for the radio comedy series *The Goon Show*.

One of Daphne's guiding stars at the workshop came from a passage in the unfinished utopian and proto-science fiction novel *The New Atlantis* penned by Sir Francis Bacon in 1626. The novel depicts the crew of a European ship lost at sea somewhere in the Pacific, west of Peru. Eventually they reach a mythical island called Bensalem. There isn't much plot in the book, but the set up allowed Bacon to reveal his vision of an age of religious tolerance, scientific inquiry,

and technological progress. In the New Atlantis Solomon's House is a state-sponsored scientific institution that teases out the secrets of nature and investigates all phenomena, including music and acoustics. His book went on to form the basis for the establishment of the Royal Society. Daphne found one passage in the book to be both prophetic, as well as something of a mission statement. She posted the following passage from the book on the door of the Radiophonic Workshop:

“We have also sound-houses, where we practice and demonstrate all sounds and their generation. We have harmonies, which you have not, of quarter-sounds and lesser slides of sounds. Divers instruments of music likewise to you unknown, some sweeter than any you have, together with bells and rings that are dainty and sweet. We represent small sounds as great and deep, likewise great sounds extenuate and sharp; we make divers tremblings and warblings of sounds, which in their original are entire. We represent and imitate all articulate sounds and letters, and the voices and notes of beasts and birds. We have certain helps which set to the ear do further the hearing greatly. We also have divers strange and artificial echoes, reflecting the voice many times, and as it were tossing it, and some that give back the voice louder than it came, some shriller and some deeper; yea, some rendering the voice differing in the letters or articulate sound from that they receive. We have also means to convey sounds in trunks and pipes, in strange lines and distances.”

Yet even before a year was out her own ambition for the sound-house she had worked so hard to establish, came at loggerheads with the station executives. The inciting incident seemed to be her attendance at the Brussels World's Fair and the Journées Internationales de Musique Expérimentale exhibition she was sent to attend. It was there where she heard Edgard Varèse demonstration of his groundbreaking *Poème électronique*. And she heard other electronic music that was pushing the boundaries of the possible further.

This exalting experience created a deep dissatisfaction in her when she returned to work and the music department refused to put electronic music at the forefront of their activities and agenda. The realm of the possible had smacked up against the wall of the permissible. So Daphne resigned from the workshop with the hope of establishing her own studio.

In the hindsight of an outsider it seems this move may not have been the most strategic. Yet it did give her the freedom to develop her own electronic music instrument, Oramics, ill-fated as it was on a practical level.

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

(Part 2 will be continued in next month's edition -ed.)

FIELD DAY: A 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 (With more to come next month!!)





Long-Lost U.S. Military Satellite Found By Amateur Radio Operator

There are more than 2,000 active satellites orbiting Earth. At the end of their useful lives, many will simply burn up as they reenter the atmosphere. But some will continue circling as "zombie" satellites – neither alive nor quite dead.

"Most zombie satellites are satellites that are no longer under human control, or have failed to some degree," says Scott Tilley.

Tilley, an amateur radio operator living in Canada, has a passion for hunting them down.

In 2018, he found a signal from a NASA probe called IMAGE that the space agency had lost track of in 2005. With Tilley's help, NASA was able to reestablish contact.

But he has tracked down zombies even older than IMAGE.

"The oldest one I've seen is [Transit 5B-5](#). And it launched in 1965," he says, referring to a nuclear-powered U.S. Navy navigation satellite that still circles the Earth in a polar orbit, long forgotten by all but a few amateurs interested in hearing it "[sing](#)" as it passes overhead.

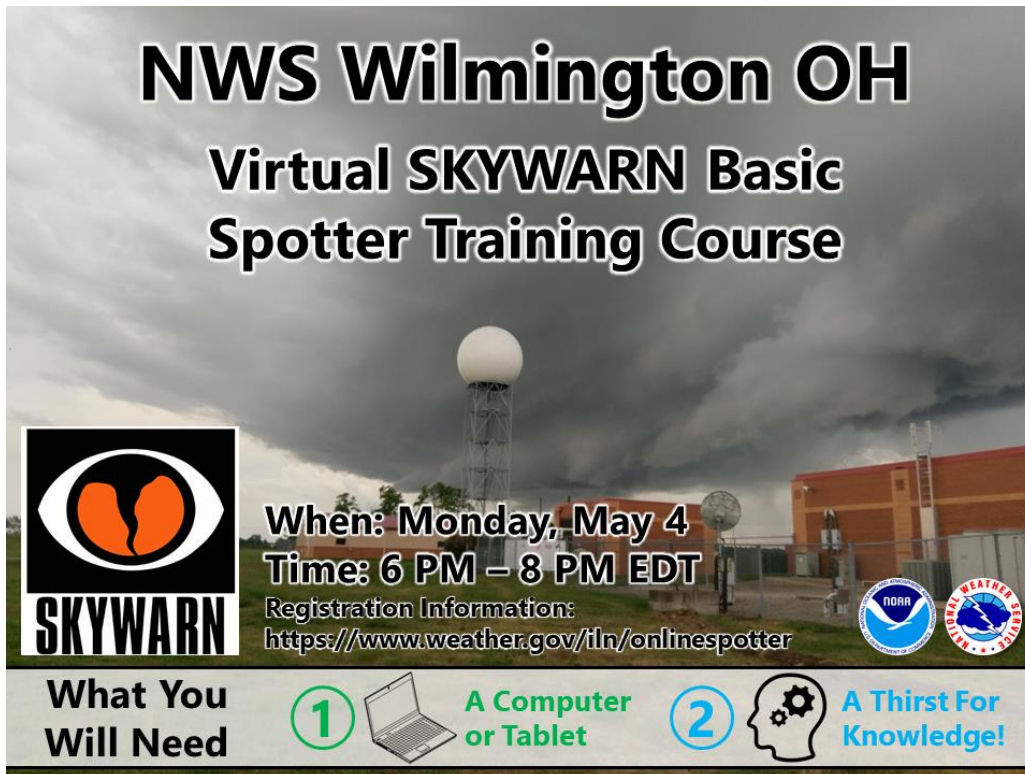
Recently, Tilley got interested in a communications satellite he thought might still be alive – or at least among the living dead. [LES-5](#), built by the Massachusetts Institute of Technology's [Lincoln Laboratory](#), was launched in 1967.

Read the complete story here:

<https://www.npr.org/2020/04/24/843493304/long-lost-u-s-military-satellite-found-by-amateur-radio-operator>

(This story was originally broadcast on “All Things Considered” NPR), and thanks to KG4DSG for passing along this interesting story to us!)



SPOTTER TRAINING



NWS Wilmington OH
Virtual SKYWARN Basic Spotter Training Course

When: Monday, May 4
Time: 6 PM – 8 PM EDT
 Registration Information:
<https://www.weather.gov/iln/onlinespotter>

What You Will Need

- 1**  **A Computer or Tablet**
- 2**  **A Thirst For Knowledge!**

Logos for NOAA and National Weather Service are also present.

Hello everyone,

The first webinar was a big success. We hit our 1000 registrant limit...almost 700 ended up attending which is a great turnout. Due to the demand, we have scheduled another one for Monday, May 4 at 6 pm to 8 pm.

Registration is required. [This website](#) has more info including the registration link.

Thanks, Brandon
 Brandon Peloquin
 Warning Coordination Meteorologist
 NWS Wilmington, OH

SOLAR WEATHER AND PROPAGATION NEWS

GOES Satellites

Since 1975, each of NOAA's Geostationary Operational Environmental Satellites (GOES), located in Earth's geographic equatorial plane, approximately 6.6 Earth radii from the center of Earth, have carried magnetometers to monitor the geomagnetic field and its variations. Typically there are two GOES operational satellites: GOES East, located over the east coast of the U.S. and GOES West, located over the Pacific, just west of the U.S. mainland. At times, though, data are available from more than the two prime operational satellites.

The geomagnetic field measurements are important for interpreting GOES energetic particle measurements and for providing alerts to many customers, specifically for indicating the onset of a geomagnetic storm (known as a sudden storm commencement). GOES magnetometer data have been used for constructing magnetic field models, and to help forecasters identify the buildup and release of energy in Earth's magnetosphere that occurs during geomagnetic storms and substorms. The magnetic field measurements can also indicate when the solar wind has pushed the boundary of the magnetosphere, the magnetopause, inside of geosynchronous orbit. Those situations are usually during very disturbed space weather conditions and can be important for spacecraft operations.

Amazing Pictures of the Sun in Multiple Wavelengths

SDO: The Solar Dynamics Observatory is the first mission to be launched for NASA's Living With a Star (LWS) Program, a program designed to understand the causes of solar variability and its impacts on Earth. SDO is designed to help us understand the Sun's influence on Earth and Near-Earth space by studying the solar atmosphere on small scales of space and time and in many wavelengths simultaneously.

SDO's goal is to understand, driving towards a predictive capability, the solar variations that influence life on Earth and humanity's technological systems by determining

- how the Sun's magnetic field is generated and structured
- how this stored magnetic energy is converted and released into the heliosphere and Geospace in the form of solar wind, energetic particles, and variations in the solar irradiance.

<https://sdo.gsfc.nasa.gov/data/>

Planetary K-Index

The K-index, and by extension the Planetary K-index, are used to characterize the magnitude of geomagnetic storms. Kp is an excellent indicator of disturbances in the Earth's magnetic field and is used by SWPC to decide whether geomagnetic alerts and warnings need to be issued for users who are affected by these disturbances.

The principal users affected by geomagnetic storms are the electrical power grid, spacecraft operations, users of radio signals that reflect off of or pass through the ionosphere, and observers of the aurora.

The chart updates every minute. The Estimated 3-hour Planetary Kp-index is derived at the NOAA Space Weather Prediction Center using data from the following ground-based magnetometers: Sitka, Alaska; Meadok, Canada; Ottawa, Canada; Fredericksburg, Virginia; Hartland, UK; Wingst, Germany; Niemegk, Germany; and Canberra, Australia. These data are made available thanks to the cooperative efforts between SWPC and data providers around the world, which currently includes the U.S. Geological Survey, Natural Resources Canada (NRCAN), the British Geological Survey, the German Research Centre for Geosciences (GFZ), and Geoscience Australia. Important magnetometer observations are also contributed by the Institut de Physique du Globe de Paris and the Korean Space Weather Center K-index Watches are issued when the highest predicted NOAA estimated Kp-indices for a day are K = 5, 6, 7, or ≥ 8 and is reported in terms of the NOAA G scale. K-index Warnings are issued when NOAA estimated Kp-indices of 4, 5, 6, and 7 or greater are expected. K-index Alerts are issued when the NOAA estimated Kp-indices reach 4, 5, 6, 7, 8, or 9.

<https://www.swpc.noaa.gov/products/planetary-k-index>

Milford ARC: *Our Hamfest is now scheduled for Saturday, August 29th. We are hopeful the Hamfest will not be affected by the ongoing crisis by moving to the later date.*

We appreciate your understanding and hope to see everyone at the Hamfest.

RED, WHITE & AND BLUE ASH!!

I've already been notified that we do have a beer booth assigned to the club at this year's Red White & Blue Ash event. This event is always held on the 4th of July. This year's event is going to be held on a Saturday night which means that it will be even more busy than usual.

You will likely remember that the proceeds from us working this event is typically rather significant. You probably also know that we need to install new feedline at the 67 repeater site. This is a VERY expensive project. Our efforts at Red White & Blue Ash will help offset this expense.

*So please be thinking ahead as to if you will be available to help out this year. If you'd like to sign up already that would be great. If you need some time before then to determine your availability, please let me know as soon as possible.
73, Bruce N8BV 513-251-1555*

Youth on the Air Camp in the Americas Postponed to Summer 2021

The first camp for young amateur radio operators in North, Central, and South America has been postponed until Summer, 2021.

WEST CHESTER, Ohio, April 15, 2020—A summer camp for licensed amateur radio operators ages 15 through 25 that was scheduled to take place June 21 through June 26, 2020 at the National Voice of America Museum of Broadcasting in West Chester Township (North Cincinnati), Ohio has been postponed until the summer of 2021.

As word of further restrictions and cancellations became public today, the committee decided postponement was the best option given the current status of the COVID-19 pandemic. The safety and well-being of our campers, faculty, staff, and the public is our top priority. A postponement to July 2020 was also considered.

The committee is planning for July 2021 to host the postponed camp. Campers who were accepted to the 2020 camp will have the first chance at

registering for the 2021 camp. The daily schedule and plan for the 2020 camp will be the same for the 2021 camp as much as possible apart from the dates. The committee found that July was a more accessible date for the widest range of campers to attend.

The committee is also looking at ideas for a shortened, virtual camp in the summer of 2020 so that campers can participate in limited activities from home. Details of the online "camp" information will be made available once the plan has been completed.

While many sponsors and donors have already expressed support for just keeping funds to use in 2021, refunds of donations made to the camp are being offered. Groups or individuals wishing to receive a refund should contact director Neil Rapp, WB9VPG at director@youthontheair.org. Less than \$350 of the money spent thus far went to items that may not be usable in 2021.

More information about YOTA in the Americas can be found at YouthOnTheAir.org and on YOTAregion2 on Facebook, Twitter, Instagram, and YouTube.

To schedule interviews or obtain additional information about YOTA in the Americas, please contact Camp Director Neil Rapp, WB9VPG at director@youthontheair.org

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](mailto:Nathan.Ciufo@KA3MTT)

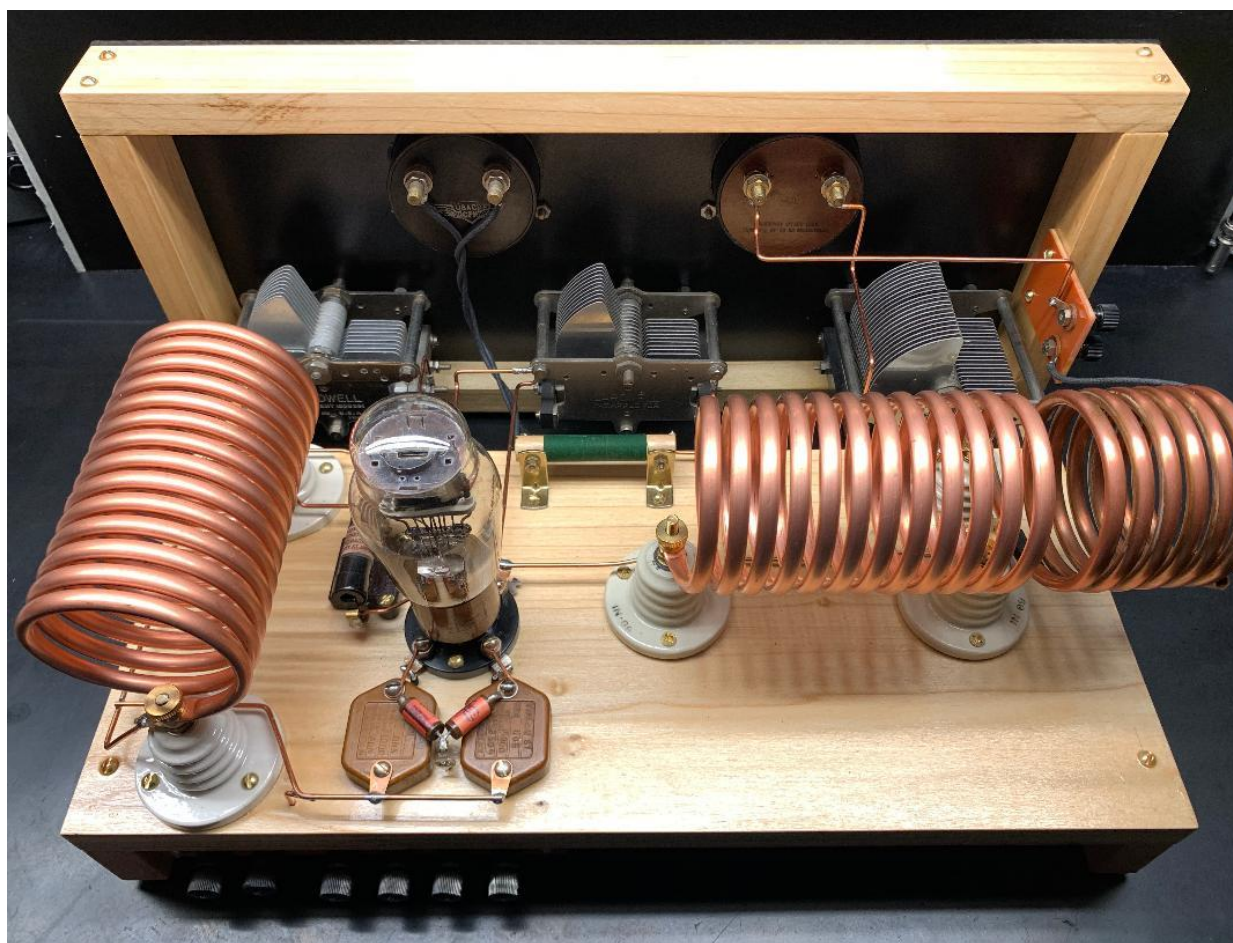
*If anyone has any questions concerning joining the club or renewing your membership, please let me know! Best 73, Nathan Ciufo, KA3MTT
OH-KY-IN ARS Membership Chairman*

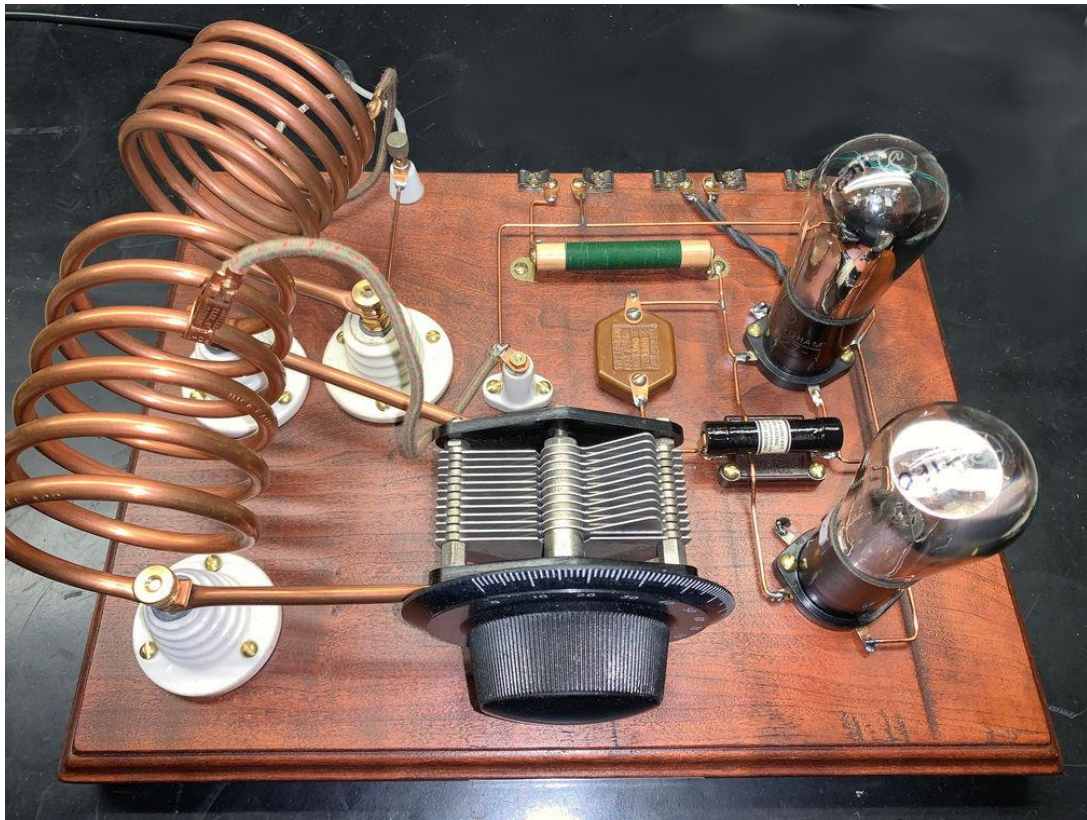
VINTAGE CW TRANSMITTERS

EXPERTLY CONSTRUCTED BY GARY POLAND, W8PU

This fascinating page was shared by Dave Core of the Northern KY Amateur Radio Club, in hopes that we might enjoy gazing upon, and studying, these classic old radios so lovingly built in incredible detail. These are just a few samples; the collection can be found here:

http://k4co.org/vintage_xmtrs.html





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!)

Amateur radio group pitches in to make face shields for healthcare workers

By Shannon Heckt | Posted: Fri 6:25 PM, Apr 03, 2020

HASTINGS, Neb. (KSNB) - With a national shortage of personal protective equipment for healthcare workers, people are doing what they can to fulfill the orders. When they heard of the need, some members of the Amateur Radio Association of Nebraska looked at each other and found a way they could help. Now with people outside of the group helping, too, they are using 3D printers to create face shields.

There 3D printers have been running all day for over a week now. Volunteers across the Tri-Cities are quickly making face shields for hospitals and clinics who need to serve the public. The shield is a simple frame design with a plastic cover. The cover can be quickly changed out or reused.

"Material-wise we have pennies on the dollar for these things so we want to make sure our healthcare workers and everybody involved in the field are safe and so we're doing what we can to help," Amateur Radio Assoc. President Allen Harpham said.

The frames are printed, but the shield part is actually recycled overhead projector sheets from schools. They have gotten thousands of sheets donated to them from schools in central Nebraska who have no other use for them anymore.

Amateur radio fans also often have their hands in other kinds of tech. So that's why the idea came so easy to them.

"To be able to put that knowledge to use to help out is just great," Harpham said. "I can't say enough about that and it's kind of the way for the amateur radio people that's the way we've always been."

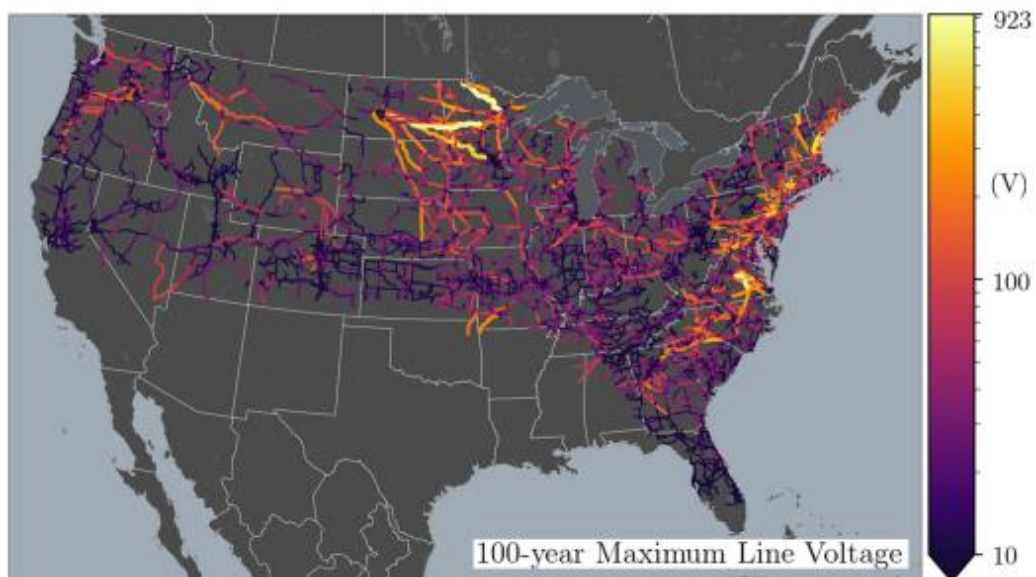
Libraries in Hastings and Grand Island have joined the production efforts with their own printers and vinyl cutters. For those who are working long days cutting and collecting the shields it gives them something to be proud of during the crisis.

"It's created a sense of purpose for people to volunteer. If they're looking to volunteer there's all kinds of things people can be doing right now to fulfill that sense of purpose when we're sitting at home and maybe running out of things to do and done binge watching the shows we've been watching and want to actually get out in the community and help," Adams County Emergency Manager Ron Pughes said.

They have taken over a thousand orders for shields for clinics big and small. They hope they can get more people to print to speed up the order time.

You can place an order or reach out to help here: <https://w0wwv.org/faceshields/>

WHERE THE POWER GOES OUT: A solar superstorm can make your lights go out. [New maps](#) released by the USGS show where the power is most likely to fail: The Denver metropolitan area, the Pacific northwest, the Atlantic seaboard, and a cluster of Midwestern states near the US-Canadian Border. Bright yellow and orange trace the trouble spots across the contiguous USA:



Power companies have long been wary of the sun. Solar storms can cause strong electric currents to flow through commercial power lines--so strong that the lines can't handle it. Fuses blow, transformers melt, and circuit breakers trip. The most famous geomagnetic power outage happened during a space storm in March 1989 when six million people in Quebec lost power for 9 hours.

Whether or not **your** power goes out during a solar storm depends on two things: (1) The configuration of power lines in your area and (2) the electrical properties of the ground beneath your feet. In areas of more electrically resistive rock, currents struggle to flow through the ground. Instead, they [leap up](#) into overhead power lines – a scenario that played out in Quebec in 1989.



Sprawling power lines act like "solar storm antennas," picking up currents and spreading the problem over a wide area.

To complete the hazard map, the researchers are waiting for a new magnetotelluric survey to cover the rest of the USA. It can't come soon enough.

The last "century-class" geomagnetic storm hit in [May 1921](#) ... 99 years ago.

Read the full article here:

<https://spaceweather.com/archive.php?view=1&day=09&month=04&year=2020>

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



DY Spots - May 2020 de KA3MTT

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p>PLEASE NOTE:</p> <p>Since DXPeditions Are obviously Quite sparse this month, I will Include some Special Event Stations</p>				<p>V84SAR - Brunei Thru 5-2</p> 	<p>1 Old Timers Day May 1-May 3, 0001Z-2359Z, W4T, Dickson, TN. Dickson County Amateur Radio Club 14.280 7.245 3.980 146.520 3835. www.wc4dc.org</p>	<p>2 IA State Park On The Air (Lake Darling) W0ARC, Washington, IA. Washington Area Amateur Radio Club, Inc. 14.275 14.070 7.225 7.08</p>
<p>3 The INDYCAR Grand Prix May 3-May 9, 0400Z-0400Z, W9IMS, Indianapolis, IN. The Indianapolis Motor Speedway Amateur Radio Club. 18.140 14.245 7.245 3.840</p>	<p>4 8Q7KB - Maldives Thru 5-12</p> 	5	6	<p>7 GU7SLIB - Guernsey thru 5-11</p> 	<p>8. 75th Anniversary of the Victory in Europe May 8-May 23, 1800Z-2359Z, W2V, Ansonia, CT. VOA Radio Club. 14.345 21.345 7.245 3.845</p>	<p>9 COSI Big Science Celebration May 9, 1400Z-2000Z, W8LT, Columbus, OH. Friends of W8LT. 14.250 14.074</p>
<p>10 Dyess Big Country Air & Space Expo May 10, 1400Z-2300Z, WW2ADT, Dyess AFB, TX. World War II Airborne Demonstration Team. 14.250 7.250</p>	11	12	13	14	15	<p>16 Emergency Medical Services Week May 16-May 24, 0000Z-2359Z, W9A, Junction City, WI. Wood County ARES/RACES W9WCA. 14.275 7.275 3.975. DMR 31550/WiresX K9WCA</p>
17	<p>18 Memorial Day May 18-May 25, 0000Z-0000Z, K1A, Cleburne, TX. Club KC5NX. 14.250 14.045 7.233 7.045</p>	19	<p>20 Apollo 11 May 20, 1330Z-2030Z, K2CAM, Garden City, NY. Long Island Mobile Amateur Radio Club in support of the Cradle of Aviation Museum. 21.340 14.240 7240</p>	21	22	<p>23 4th Annual Special Event at the Fort Pierce Navy Seal Museum Honoring National Military Month May 23, 1300Z-1900Z, W4OT, Fort Pierce, FL. Vero Beach Amateur Radio Club. 14.330 +/-; D -STAR Ref078C</p>
24	<p>25 Memorial Day Observance May 25, 1600Z-2130Z, W6KID, Baton Rouge, LA. Baton Rouge Amateur Radio Club. 14.250 14.035 7.225 7.035</p>	26	27	28	29	<p>30 Girl Scout Camporee May 30, 1500Z-2000Z, K2G, Kingston, NY. Overlook Mountain Amateur Radio Club. 14.240; DMR Tg 31630</p>
<p>31 Iowa State Parks On-the-Air Centennial - Backbone May 31, 1500Z-1900Z, W0OEL, Dundee, IA. Rural Iowa and Buchanan County Amateur Radio Clubs. 14.240 7.240</p>						

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

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!

MAY 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

Technically Speaking

Gary Coffey, KB8MYC, Technical Committee

A quick update on our club repeaters. All three of our VHF machines are on the air and operating. The 67 machine is giving us excellent coverage so be sure to get on and strike up a conversation. The UHF machine is still offline pending relocation.

Do you have all of these repeaters programmed into your radios? If not, take the time now and put them in along with other repeaters located in your area. If there is an emergency will you remember how to enter them? I'm always surprised how many people buy a radio and enter a couple repeaters in it and then forget how to do it. If severe weather or any other emergency was occurring right now could you enter a different repeater into your radio if needed? Always be prepared! If you need help reach out to a fellow ham. The Wednesday night Tech Talk would be a great place to start!

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

EXCELLENT REPEATER LIST

And speaking of repeaters, since our shelter in place status has been extended to at least the end of the month, it occurred to me a list of local repeaters might be useful, especially since we now do not have any excuses for not having the time to program our radios <grin>!

This excellent list is provided by, and courtesy of, the Northern KY Amateur Radio Club, and located on the excellent website maintained by Dave Core K8WDA.

Here's the website link to the area repeaters:

<http://k4co.org/Repeaters.html>

This list (in Excel Format) was put together by Jack Prindle, AB4WS - Great work, Jack!

(and for those without Microsoft Excel, the file can be imported into Google Sheets here:

<https://docs.google.com/spreadsheets/u/0/>

OH-KY-IN LICENSING CLASSES

Please Contact Mike KD8ZLB for future registration and class-specific information as it becomes available: 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

IN THE NEWS FROM QRZ.COM

First Remote Foundation Exam held in Australia

Australia's national amateur radio society, the WIA, reports the first online remote Foundation exam in the country was held on April 20

WIA says:

Monday night, April 20th was a historical moment for the **WIA**. The unique significance is that the two WIA members are both WIA Director Elects, Oscar Reys VK3TX and Lee

Moyle VK3GK. They conducted Volunteer Examiners Australia Inc's (VEA) first Australian Maritime College, (AMC) "online" Remote Amateur Radio Exam. Oscar and Lee are both AMC Level 3 assessors and authorized to conduct Remote assessments on behalf of AMC.

Oscar mentioned, "It was an extremely successful remote exam session and the candidate in Perth was ecstatic that he was able to sit his Amateur Radio exam remotely, given the current AMC restrictions imposed on person to person exam sessions.

The candidate sat his Foundation licence exam including the Practical and on completion, told us, very excitedly that he was already studying for his Standard Licence Upgrade.....Good job."

"It is moments like these that make it all worth it, it is part of the personal reward for volunteering your time to help others achieve their goals." Lee stated.

Read the full WIA story at

<https://www.wia.org.au/newsevents/news/2020/20200422-2/index.php>

<http://www.southgatearc.org/news/2020/april/first-remote-foundation-exam-held-in-australia.htm>

Contest University USA 2020

I am pleased to announce that Contest University USA 2020 will be held on-line via Zoom on Thursday May 14, 2020. CTU 2020 is free.

The CTU course outline is posted here <https://www.contestuniversity.com/course-outline/>

Connection details to the CTU Zoom bridge will be posted on the Contest University one week ahead of CTU.

CTU 2020 will be recorded for easy viewing any time after May 14 and the slide decks will be posted on the CTU website as well.

At the end of CTU 2020 Dave, K3ZJ from CQ Magazine will present the 2020 CQ Contest Hall of Fame awards - live on the Zoom bridge.

73, Tim K3LR Contest University Chairman

<http://contestuniversity.com>

Shortwave Listening Thomas Witherspoon K4SWL

ICQPodcast **Episode 322** - In this episode, Martin M1MRB is joined by Chris Howard M0TCH, Martin Rothwell M0SGL, Ed Durrant DD5LP, Frank Howell K4FMH and Bill Barns N3JIX to discuss the latest Amateur / Ham Radio news. Colin M6BOY rounds up the news in brief and this episode's feature is - *Passion of Shortwave Listening with Thomas Witherspoon K4SWL*.

The ICQPodcast can be downloaded from <http://www.icqpodcast.com>

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.

APRIL 2020 NO OFFICIAL MEETING

As there was no official meeting in April due to the shelter-in-place orders in the tri-state area, an informal ZOOM remote meeting was held.

A Touch of Ham Humor!

A ham is driving up a steep, narrow mountain road, his antennas flopping in the breeze and flopping into the other lane. A YL is driving down the same road. As they pass each other, the YL narrowly missed the antennas and leans out of the window and yells...PIG! The ham immediately leans out of his window and replies, "WITCH!!"

They each continue on their way, and as the man rounds the next corner, he crashes into a pig in the middle of the road.

If hams would only listen!



"Sorry OM, I can only work QRP at the moment!"

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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*.