



Q-Fiver

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

In The News

Sycamore ARISS

School Contact

What an inspiring and memorable event for all involved!

More information and pictures inside, starting on [Page 2](#)!

In The News

YOTA Camp

Applications

The application period for the first camp for young amateur radio operators is now active through March 15, 2020

See [Page 29](#) for more information

In The News

OH-KY-IN License Classes

Amateur Extra, **Technician**, and **General License Classes** will be held again this year. Full details can be found on [Page 28](#) and on our website:

[OH-KY-IN ARS Classes](#)

Calendar of Events for March 2020

Mon	Mar 02	Amateur Extra License Class Begins – Brian K4BRI
Tue	Mar 03	Club Meeting St. Bernard – Topic: Antenna Analyzers George N3VQW
Wed	Mar 04	TechTalk Bob W8CRO
Tue	Mar 10	Board of Directors meeting Westwood United Methodist Church - 3460 Epworth Ave
Wed	Mar 11	TechTalk Mike N8MRS
Sat	Mar 14	Brunch Bunch 1PM – Price Hill Frisch's 5216 Glenway Avenue, 45238
Wed	Mar 18	TechTalk Dale KC8HQS
Tue	Mar 24	Digital Group Jerry W1SCR
Wed	Mar 25	TechTalk George N3VQW

ARISS SCHOOL CONTACT A BIG SUCCESS

The ARISS School Contact at Maple Dale Elementary operated by OH-KY-IN ARS was a big success with a solid 10-minute QSO with Dr. Drew Morgan on the ISS.

In May of 2019, club member Andrew KE8LYJ contacted Ryan AC8UJ to see if OH-KY-IN could operate an ARISS School Contact at his child's elementary school. Ryan asked me what I thought as I enjoy operating satellites. I agreed that, while a long shot, it would be a worthwhile undertaking. Andrew filled out the proposal, Ryan and I signed it and it was shipped off to ARISS. In July, we received word that our proposal was one of nine to be selected: we were going to have a QSO with the International Space Station!

The team was assigned an ARISS Mentor, Gordon KD8COJ, and attended an online presentation to discuss expectations and what was required of the team for the contact. We were presented two options, telebridge or direct contact. A telebridge would telebridge the school with one of seven ground stations around the globe to contact the ISS. Direct contact would be to setup a ground station on site at the school. The team opted for the direct contact.

The next step was to get an equipment plan together to fit the ARISS specifications for both a primary and backup ground station. Thankfully, Brian K4BRI not only referred us to the ARRL ARISS Ground Station Loan Program, but also provided the backup radio, feedline and antenna. Working with the ARRL and Ohio Section Manager Scott Yonally N8SY, the club secured the ARRL ARISS Ground Station.

As the year changed, dates for the contact were proposed. Due to crew changes on the ISS, it looked like the Maple Dale contact would be postponed, but things aligned, and they were assigned a contact with Dr. Andrew "Drew" Morgan on February 20th. With a hard deadline, the final equipment had to be installed and tested.

Several people stepped up to help Andrew setup the ground station at Maple Dale Elementary, including Tom W8WTD, Bob W8MRG, John KD8MMY and myself. In a flurry of activity, two high-quality feedlines and two rotor control lines were run over 100' through the ceiling from the stage to a roof hatch. A tripod was mounted on the roof with an Az-El rotor combo, Cushcraft 2m circularly polarized ten-element crossed Yagi beam antenna and mast-mounted pre-amp, which was anonymously donated to the club. The quadrifilar helix antenna was mounted to a base provided by Dick WB4SUV and tied to the backup feedline. In a staging area, the Yaesu FT-857s were setup, with the primary attached to amp. The ARRL-provided laptop was hooked up to the rotor control via USB and the team was able to successfully track satellites and hear downlinks from several amateur satellites. However, testing the uplink proved to be difficult as the APRS system on the ISS seemed to be down. While the station successfully communicated with local repeaters, the team wanted to assure being heard from space. Finally, Bob tracked SO-50, a V/U satellite, and was heard by me at my QTH on the UHF downlink. Testing had completed successfully!



John KD8MMY and Bob W8MRG setting up antennas in the rain.



Primary antenna (left) and backup antenna.

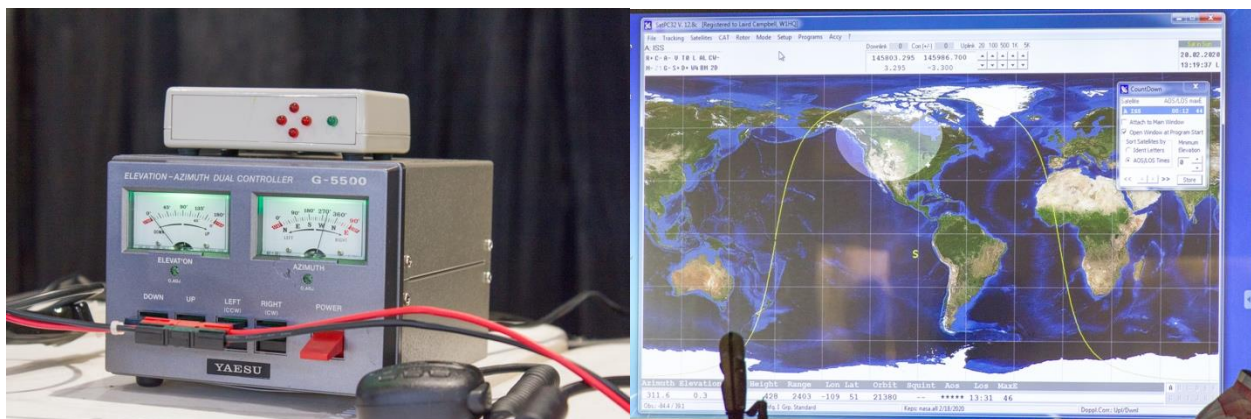
The morning of February 20th, the day of the contact, finally came and final setup was completed. Audio feeds from the primary and backup stations were run through audio boards to the school's PA and CCTV systems. George setup his equipment to live stream the event on the club's Facebook page. The team finally got to meet our ARISS mentor Gordon face to face along with other VIPs: Larry Koziel K8MU from ARISS, ARRL Great Lakes Division Director Dale Williams WA8EFK and ARRL Ohio Section Manager Scott Yonally N8SY. Ten second grade students had been previously selected, each with two questions to ask Dr. Andrew "Drew" Morgan KI5AAA on board the ISS. These questions had been sent up to Dr. Morgan previously to give him time to develop responses to the questions.

Second graders from the three other elementary schools in the district were bussed to Maple Dale and settled into the auditorium for the event.



Anxious Sycamore Schools second graders and guests waiting for contact.

At 12:45 PM EST, the presentation started with several videos and the winner of the district's "Design the Next Generation Space Station LEGO Contest" were announced. As the clock drew nearer to 1:20 PM EST, the computer activated the rotor controls and began turning the antenna to begin tracking the ISS. When the antenna was pointed correctly and the timer expired, Julia KE8IUU called, "NA1SS this is K8SCH, do you read us?" Dr. Morgan responded loud and clear, much to the relief of the team!



Antenna rotor control indicating the antenna is tracking the ISS.

For 10 minutes, the students and Dr. Morgan had both an entertaining and educational conversation. The other second graders listened quietly as the 10 students on stage took their turn asking Dr. Morgan their questions. As the ISS approached the horizon, signifying the end of the pass and the QSO, everyone thanked Dr. Morgan with a great big, "Thank you!" and closed down the contact. As Dr. Morgan closed his end of the contact, you could clearly hear the static as the ISS crossed over the horizon and signal was lost. The timing was perfect.

High fives and congratulations were passed around and short speeches were made congratulating and thanking those who participated.



Julia KE8IUU and Cesi KD8OOB are all smiles as Dr. Morgan responds loud and clear!



Students ask their questions while the operators monitor the signal with the ISS as it passes 572 miles overhead at 17,150 mph.

Several local news outlets were on hand, interviewing participants and recording footage. Everyone was relieved that the event went off without a hitch.

Thanks to all the volunteers who made this event such a success:

*Tom Delaney W8WTD
George Gardei N3VQW
John Major KD8MMY
Gordon Scannell KD8COJ*

*Julia DiBenedetto KE8IUU
Bob Garfield W8MRG
Ryan Owens AC8UJ
Andrew Stephens KE8LYJ*

And thanks to all the supporting organizations:

*Maple Dale Elementary School
Amateur Radio on the International Space Station (ARISS)
The American Radio Relay League (ARRL)*

Hopefully we can do something like this again. It was a great learning experience for both the students and the radio amateurs. 73! Cesi DiBenedetto KD8OOB

WINTER FIELD DAY 2020 - INDOORS!

Well looks like we have another Winter Field Day in the log and like my counterpart Ryan Owens at OH-KY-IN ARS there are just so many people to thank for helping to put this all together!!! I would like to take the opportunity now because without the individuals below we would not have been able to have this event at the Red Cross:

Bob Garfield - W8MRG -Setting up the network and the logging software and general tech support.

John Major - KD8MMY - Setting up the long wire and general tech support.

Bob Bross - N8NFM - Setting up of the long wire and general tech support.

Steve Lewis - N8TFD - Sending the log to the Winter Field Day group along with general tech support.

Tom Delaney - W8WTD - Tear Down and general tech support.

Chef John Phelps - N8JTP - Prepared the Chili and Spaghetti along with providing the Hot Dogs and fixings.

Also, a big thanks to everyone from both clubs that came out to work the radios. Without you we would not have been able to be a part of this contest. In reviewing the comments on Facebook everyone had a great time and really enjoyed the event. Every year it seems to be gathering more followers that are excited about working and supporting the event.

I worked the overnight shift and 80 meters had quite a few operators that worked all night from all across the United States.

So how did QCEN do... “very well”! Below are our totals by category:

Score Statistics	Score
CW Contacts	28
Phone Contacts	212
Digital Contacts	91
Multipliers	9
Total Score	4,050

I just wanted to go on record that this weekend marks the longest I have ever been awake in my life: 42 hours!!! I got home ate dinner and got a second wind!!!

Also going to steal this from my counterpart...Let us know how we did and what we could do to make this event better! As always, we appreciate your participation! Thanks again everyone and hope to see you at the next big event!

Until then, 73 . . . **Michael L. Sien - KD8SOH President - QCEN**

THE THRILL OF AMATEUR RADIO DESCRIBED IN A FAMOUS NOVEL

"Yes, Dr. Berlin, but what do you hams talk about? Is what they usually said to him, and he'd realize then that they'd never understand, and he'd change the subject. But sometimes, though rarely, he'd come across someone who really dug his hobby, and then you couldn't get him off. He'd go on and on about the feeling it gave him of being able to move himself through time and space, annihilating time and distance, his mind, his body, his consciousness out there roaming the planet like some cosmic spirit, and the sense of power, benign power, not the evil kind, knowing that his voice was rattling a loudspeaker in a far-off room in Bombay, or going out through an open window in Johannesburg to someone walking by on the street outside, or filling a room carved out of ice below the frozen wastes at the South Pole.

The here and now, the physical and geographical limitations that all beings are stuck with, would fall away from him as he immersed himself in the action on twenty meters on a good night in spring when the sunspots were dancing and the ionosphere was in a reflective mood and the short path was open to Europe and the Middle East and the Antarctic and Australia, and maybe Africa would come sneaking in the other way around, and later the Far East and Indonesia, you never knew what. He'd close his eyes, or gaze hypnotized at the speaker, and he'd listen to them and talk to them, voices in the night, his night, that is, with the moon shining into the den through the great beam antenna that rose from the lawn outside...

...And while it was his night in California, it was tomorrow morning in Oslo and Hil was getting ready to shovel the snow from in front of the garage so he could go to work, and in Brisbane it was late tomorrow afternoon and Tommy had just gotten home from a rainy day at the lab, and Toshi in Kyoto had just finished tomorrow's dinner, and then later, Phil was talking to him from his car speeding through the Malaysian jungles to pick up Margaret at her French lesson in Penang, and Phil would lower the car window and let him hear the street noises of Penang even as he sat in his den in the house in Bel Air while the guy right next door was listening to the eleven o'clock news on Channel 2, for God's sake, and you ask me what do we talk about? We don't talk about a [darned] thing and it's terrific."

-Ernest Lehman, K6DXK (SK) **"The French Atlantic Affair"**

This interesting quote was submitted by Steve, AA8SW, who notes:

This author was unknown to me, but apparently he is well known to film buffs as the leading movie screenwriter in the 1960s, involved in major films like The Sound of Music and many others. The book, his first novel, sold well and was made into a network miniseries with big stars like Telly Savalas. The part about a ham operating a big station from Bel Air may have been autobiographical.

Tips and Tricks - Using the RF Gain Control

Don't neglect to make use of your RF Gain control on your HF rig. Adjusting it down from the full setting will often reduce noise and allow you to hear signals much better.

If you only use your AF Gain (Volume) everything is amplified as you increase the volume. By reducing your RF Gain first and then increasing your volume, you amplify more of what you want to hear, while cutting out or reducing significantly what you don't want to hear!

The more unwanted noise you can eliminate the clearer your reception will be. This is particularly useful during crowded or contest conditions. (This is also a good tip for SWL!)

Experiment with different levels and with different modes – you'll be surprised at the difference it can make!

(send in your tips and tricks to my E-mail address – who knows whom you'll help! – Editor)

Where is TechTalk???

For the last few weeks, 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 Newsline 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

Board of Directors



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Bruce Vanselow N8BV (513) 251-1555 n8bvbruce@gmail.com

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?!**

For membership information, please contact Nathan Ciufo KA3MTT, 6323 Cinnamon Ridge Dr, Burlington KY 41005, (859) 586-2435 or, E-mail membership@ohkyin.org.

Renewals of Club Memberships are due by the end of March. Please remember to indicate any changes to your contact information on your renewal!

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 Ciufo 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 March 2020

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



The Radiophonic Laboratory: *The Crystal Psalms of Alvin Curran*

By Justin Patrick Moore, KE8COY

In 1988, the same year Negativland was pioneering the concept and practice of the Teletour, another maverick experimental music composer produced a radio concert like no other before or since. His name is Alvin Curran and the piece in question was his *Crystal Psalms*, a concerto for musicians in six European nations, simultaneously performed, mixed and broadcast live in stereo to listeners stretched from Palermo, Italy to Helsinki, Finland via six separate but synchronized radio stations.

The name of the radio concerto came from an event that Curran wanted to commemorate with the solemnness it was due; *Kristallnacht* otherwise known as *Crystal Night* or *Night of the Broken Glass*. It had happened fifty years before the broadcast on November 9th and 10th in Germany. This was the date of the November Pogroms when civilian and Nazi paramilitary forces mobbed the streets to attack Jewish people and their property. This horrendous event was dubbed *Kristallnacht* due to all the broken glass left on the ground after the windows of their stores, buildings and synagogues were smashed.

On *Kristallnacht* rioters destroyed 267 synagogues throughout Germany, Austria and the Sudetenland. They ransacked and set fire to homes, hospitals and schools. 30,000 Jewish men were rounded up and sent to concentration camps. This was the opening prelude before the sick opus of the Third Reich's genocide. It was Hitler's green light, ramping up his twisted plans. The Third Reich had moved on from economic, political and social persecution to physical violence and murder. The Holocaust had begun.

The year before the 50th anniversary of *Kristallnacht* a number of cultural and arts organization had begun making plans for a series of worldwide memorial events. Alvin Curran was in on some of these conversations. Curran had long been part of a vanguard group of ex-pat American composers living in Italy. He was also a founding member of the collective acoustic and electronic improvisation group Musica Elettronica Viva, sometimes known as a Million Electron Volts or simply MEV. They formed in Rome in 1966 and are still active today.

Started by three young Americans with master's degrees in music composition from Yale and Princeton, MEV combined an Ivy-League classical pedigree with a tendency toward musical anarchism. Just as their music often involved chance operations, or the use of random procedures, the members of the group met by chance (or was it Providence?) on the banks of the Tiber River in Rome in 1965. Without scores, without conductors, they went like bold explorers into the primeval past of music, and its future. Curran says of the band,

.... Composers all, nurtured in renowned ivy gardens; some mowed lawns. They met in Rome, near the Cloaca Maxima—and without further ado, began like experimental archeologists to reconstruct the origins of human music. They collected shards of every audible sound, they amplified the inaudible ones, they declared that any vibrating object was itself 'music,' they used electricity as a new musical space and cultural theory, they ultimately laid the groundwork for a new common practice. Every audible gurgle, sigh, thump, scratch, blast, every contrapuntal scrimmage, every wall of sound, every two-bit

drone, life-threatening collision, heave of melodic reflux that pointed to unmediated liberation, wailing utopias, or other disappearing acts—anything in fact that hinted at the potential unity among all things, space, and times—were MEV’s ‘materia prima.’

Curran draws from this same ‘materia prima’ as a prolific musician and composer, and by the 1980’s had an established solo career. At the time of this writing his solo career is now long and storied. *Crystal Psalms* is just one of his many innovative works. It is also just one of a number of pieces he created specifically for radio. To my knowledge it is the most technically complex of the pieces he has written for radio.

Crystal Psalms was unique in its conception and required hard dedicated work to pull off. Perhaps that is why these kind of radio events are rare. Of course their rarity could also be due to the lack of imagination on the part of the corporate media that dominates the airwaves. The project brought together over 300 people, including musicians and technicians, in six major European cities. These musicians and technicians, separated into groups at these six locations, could not see or hear what was happening at the other locations. Yet together they performed as a unified ensemble to realize Curran’s score. In commemorating a dark and destructive moment of human history, Curran demonstrated our creative possibilities for international artistic and technological collaboration.

Curran organized the concert in the fall of 1987 at a meeting in Rome. The producers from each of the six radio stations were there. These included Danmarks Radio; Hessischer Rundfunk, Germany; ORF, Austria; Radio France; RAI, Italy; VPRO, Holland. The RAI in Rome was chosen to be the main technical center and HQ, probably due to the fact that this was the facility closest to the composer. Alvin wrote the music between May and September at his home in Poggidoro, about an hour drive outside the city.

The score was written for six groups of complementary ensembles—one group at each station in each country. These ensembles consisted of a mixed chorus (16-32 voices), a quartet of strings or winds, a percussionist and accordionist. Each of these six groups was conducted independent of the others. And even though they were separated by large distances in space, each of the ensembles played in time together. To accomplish this a recorded time track was heard by each conductor that kept them all synchronized.

Besides the live music, pre-recorded tapes were also used. These tapes were filled with the sounds of Jewish life. Among those heard was the ancient shofar (a ritual ram’s horn that has been a mainstay in Curran’s music), recordings of the Yemenite Jews praying at Jerusalem’s Western Wall (the “Wailing” Wall).

Other sounds on the tape included children from a Roman Jewish orphanage, and recordings of many famous Eastern European cantors sourced from various sound archives. Curran even included sounds from his family. He recorded his young niece singing her Bat Mitzvah prayers and his father singing in Yiddish at a family get-together.



Alvin Curran playing the Shofar

Birds, trains, and ship horns make appearances. But throughout it all is the sound of breaking glass. Meanwhile the live chorus is singing fragments from the Renaissance Jewish composers Salomone Rossi from Italy, and another named Caceres from a famous Portuguese synagogue in Amsterdam. Curran also used choral fragments from versions of the Jewish liturgy composed Lewandowski and Sulzer in the 19th century.

Crystal Psalms is made up of two long sections, 24 minutes, and 29 minutes. structured in two contiguous sections. In the first there is a ton of percussion created from fallen and thrown objects. Amidst all these heavy sounds he used an 18-voice polyphonic structure to weave an increasingly dense texture from the musical fragments being carried by each "voice". As these fragments repeat the weave is brought ever closer together.

In the second part elements from the pre-recorded tape are more apparent. It moves from one moment to the next, one location or place in time before jumping to something else. Curran says, "Here tonal chords are anchored to nothing, innocent children recite their lessons in the midst of raging international chaos." Idling cars and Yiddish lullabies are separated by glass breaking, and all undergirded by moments on the accordion, organ and fiddles. A familiar melody will quickly disappear when blasted by noise. A solemn choir sings amidst the sound of someone shuffling through the debris. Fog horns drift in and out as telephones go unanswered. The listener with an ear for classical music will recognize bits of Verdi's "Va Pensiero" turned into a menacing loop. At the end of it all, the cawing of menacing crows, a murder of crows, who have come feed off the destruction.

Curran writes of his piece that "There is no guiding text other than the mysterious recurring sounds of the Hebrew alphabet and the recitation of disconnected numbers in German, so the listeners, like the musicians, are left to navigate in a sea of structured disorder with nothing but blind faith and the clothes on their backs -- survivors of raw sonic history."

The event of the radio broadcast was for Curran a very special moment. In creating it, this experience of human artistic and technological collaboration, existed for him alongside the memory of the inhuman pogrom memorialized on its 50th anniversary. Curran comments, "By focusing on this almost incomprehensible moment in our recent history, I do not intend to offer yet another lesson on the Holocaust, but simply wish to make a clear personal musical statement and to solicit a conscious act of remembering -- remembering not only this moment of unparalleled human madness of fifty years ago, but of all crimes against humanity anywhere

anytime. Without remembering there is no learning; without learning no remembering. And without remembering and learning there is no survival.”

The radio concert was a one-off event, never to be performed live again. However, recordings from each of the stations involved were made and in 1991 Alvin remixed these into an album. Writing about all of this I’m reminded of something the American folksinger and storyteller Utah Phillips said with regard to memory. “...the long memory is the most radical idea in this country. It is the loss of that long memory which deprives our people of that connective flow of thoughts and events that clarifies our vision, not of where we’re going, but where we want to go.”

Let us remember then, the stories in history, personal or global, we would do well not to repeat and those other stories where people work together toward a common good. Just as this day is the product of all our past actions, so tomorrow will be built on what we do today.

Sources:

<https://en.wikipedia.org/wiki/Kristallnacht>

<http://www.alvincurran.com/writings/CrystalPsalmsnotes.html>

<https://nationalsawdust.org/event/mev-musica-elettronica-viva/>

Crystal Psalms, New Albion records, 1994

Silent Key, Health and Welfare

It is with a very heavy heart that I pass along some sad news. Harry Riggs, KM4CS, passed away this Saturday in Texas.

Their daughter Holly called me yesterday with the news. Harry had suffered a stroke a little while back and his health had been in a slow decline since.

Please keep his wife Joanie, their daughter Holly and family in your thoughts and prayers.

Any condolences can be sent to:

Mrs. Joanie Riggs
265 Plateau Dr Apt 116
McKinney, TX 75069

73,
Nathan KA3MTT

SURFING THE JET STREAM REDUCES AVIATION RADIATION

Something strange is happening in the North Atlantic. For the past three years, airplanes have been flying across the ocean in record time. Credit the jet stream. It's revved up . . . and planes that surf it are flying faster than ever before. On Feb. 8, 2020, [British Airways Flight 112](#) (BA 112) rocketed from New York to London in a mere 4 hours 56 minutes, at one point traveling faster than 825 mph. This is good news, because airplanes surfing the jet stream absorb significantly less cosmic radiation. [Read the full story here.](#)

(editor's note: Makes me wonder how our signals might be affected by catching the Jetstream?!)

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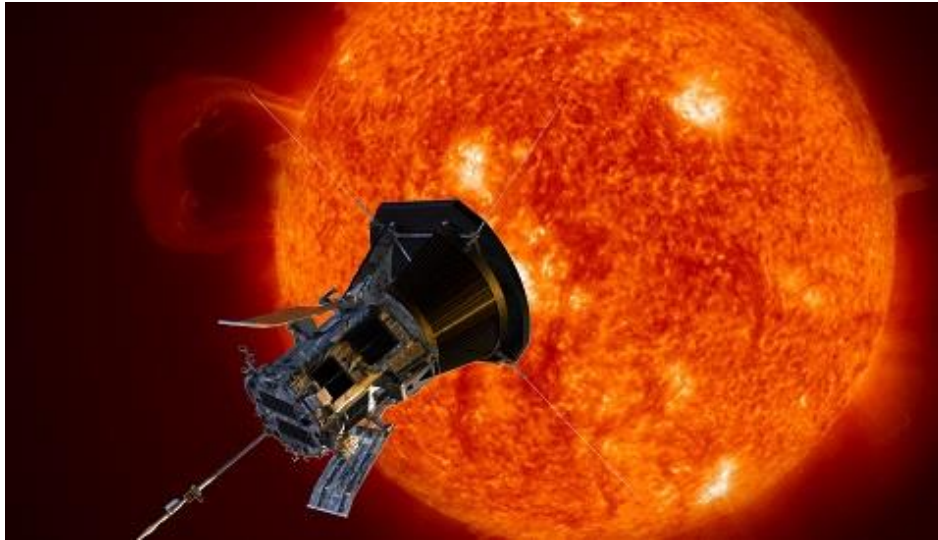


Kit fun.

SOLAR WEATHER AND PROPAGATION NEWS

Rogue Solar Winds Observed By Monica Young / Sky and Telescope

NASA's Parker Solar Probe has passed well within Mercury's orbit four times now to explore the birthplace of the solar wind, a stream of charged particles that ultimately flow by and even onto Earth.



An artist's concept shows the Parker Solar Probe nearing the Sun.

NASA / Johns Hopkins APL / Steve Gribben

Perhaps the biggest surprise to come out of Parker's first passes near the Sun was the discovery of rogue waves, folds in the magnetic field that accompany surges of charged particles. Other missions have seen these rogue waves for decades now, even though they didn't come quite so close to the Sun. In fact, NASA's Helios satellites saw rogue waves after they launched back in the 1970s. But by the number of other names scientists have used to describe rogue waves — such as jets, spikes, foldings, field reversals, deflections, and switchbacks — it's clear that we don't yet have a handle on the phenomenon.

Now, Parker's observations are adding a closer-in view to the equation, showing the waves on a different scale. "The sheer number of them and the size of them is surprising," says instrument scientist Tony Case (Smithsonian Astrophysical Observatory).

A number of studies in the special issue reveal additional details about the roughly thousand rogue waves detected during the first two passes by the Sun. The waves last between a fraction of a second to almost an hour, they tend to cluster together, and while they tend to involve a fold in the magnetic field, the direction of the fold is pretty much random. Multiple studies suggest that the rogue waves originate from deep within the corona, nearer the solar surface.

Another result that surprised Parker mission scientists is the unexpectedly speedy rotation of the solar wind.

If you were to watch a movie of a solar prominence erupting out of the visible surface, you would see it rotate as if it were part of the Sun itself. Indeed, the Sun's magnetic field keeps it anchored in place. Yet by the time solar wind plasma passes by Earth, it's flying straight outward — generally, there's no rotation at all. As Parker swooped near the Sun, scientists expected the solar wind to pick up its rotational speed. But as Justin Kasper (University of Michigan) and colleagues announced last November, the rotational speed turned out to be off the charts, peaking at speeds of 35 to 50 km/s (80,000 to 110,000 mph).

Solving this riddle may come back to the rogue waves, Réville and colleagues say, which temporarily but severely change the conditions of the solar wind. Scientists will need to study the problem further to see if rogue waves might be the answer.

(You can find the [full article by Monica Young here](#), as well as motion graphics depicting the rogue waves.)



MAGNETIC CRACK SPARKS RARE BLUE AURORAS: Yes, there really are cracks in Earth's magnetic field. One of them opened on Feb. 18th, sparking some of the strangest auroras in years—including rare blue auroras over Norway. At the time of this writing, a G1-class geomagnetic storm is still underway on Feb. 19th.

([Matthew Steinberg on February 18, 2020 @ Reine, Lofoten Islands Norway](#)
Published by [Spaceweather.com](#))

THE NATURE AND SOURCE OF SOLAR MAGNETIC PHENOMENA

For the mathematicians and scientists among us, I include this link for a very technical (academic) paper on the solar magnetic field. I confess it is way above my head, but I suspect for some of you it will be right down your alley!

Physics of Plasmas

Some Funny Amateur Radio Tee-Shirts I've Seen

"I tinker with Radios Past my Bedtime"

"If you can read this, I was forced to put my Ham Radio down and Socialize"

(Radio Dad) - "DO NOT make me use my Radio Operator Voice!"

GET READY FOR THE VP8PJ DXPEDITION

The Perseverance DX Group is moving closer to the day the team activates the South Orkney Islands for the VP8PJ DXpedition. The group expects to be on the air from Signy Island from February 21st through March 5th, giving hams around the world a chance to make contacts on ClubLog's 16th most wanted DX entity.

The team reports that its equipment arrived recently in Punta Arenas in Chile and is in storage for the time being. The team will arrive on the Indian Ocean island from Punta Arenas aboard the RV Braveheart, which is based out of New Zealand.

This South Orkney Islands DXpedition is the first of its kind to activate the location in 9 years. In 2011, the Micro-Lite Penguin Expedition Team VP8ORK logged almost 64,000 contacts there.

For more details about the DXpedition or to contribute toward fundraising of the \$325,000 expedition, visit the website sorkney.com

OH-KY-IN Life Members

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



OH-KY-IN ARS Member Spotlight

Mr. John Phelps - N8JTP - Lifetime Member

John's start in Amateur Radio

John was first licensed in 2003 with the callsign of KC8VQU. He and his friend Steve, KC8VQS, used online resources to study for the Technician exam.

While a teenager in St Bernard, John frequented a TV repair shop on Vine St. John was lent a Hallicrafters SWR to listen to. Using a long-wire antenna, he listened to the Amateur Radio bands, as well as foreign radio stations.

John then bought a multi-band receiver and remembers listening to 2-meter repeaters. He was amazed with the concept of the auto-patch on repeaters back in the day.

Fast forward to John's Military Service

John served in the US Navy, and was stationed at NAS Guantanamo Bay, Cuba. He was stationed with Gary Noblet, who was an Amateur Radio Operator. Gary would occasionally be granted special permission from the Base Commander to put Guantanamo on the air. John always accompanied, and would log for Gary - learning how to handle a pile-up.

John enjoys DX'ing, and remembers using his Kenwood HF radio with a portable vertical antenna at Mitchell Memorial Forest, at Field Day. We were able to work a station in Germany on the 1st call!

John states he would enjoy a DX-pedition to an island or atoll, or even operating from a lighthouse. He has plans on building a low-power CW kit, with hopes it will give him that nudge to learn Morse Code and use it. He also enjoys fishing and camping.

Current equipment/antennas At N8JTP

Icom 706MKIIG
Yaesu FT-8900R
Yaesu FT-8800R
Yaesu VX-7R
Kenwood TS-520
6-Meter Dipole
6m, 2m, 440m tri-band antenna
Soon to have a G5RV Jr for HF!



John currently prefers operating SSB, as well as PSK31. (He uses the 706 MKIIG above). He is working on learning CW, as well as the nuances of satellite contacts! He enjoys ARRL Field Day, Winter Field Day, and ARRL Sweepstakes.



John's advice for anyone interested in the hobby and/ or newly licensed

"Get your license and get on the air. With today's technology, there is equipment you can obtain for minimal cash outlay. Join a club! You will meet a lot of good people who are willing to help you along the way. While admitting my favoritism, OH-KY-IN ARS is THE club to join. We have groups that cover so many aspects including contesting, fox hunting, digital communications, repeaters, DX'ing, etc. Most important: Just have fun and be involved!"



YAESU
FT-8900R



Thanks to Nathan KA3MTT for this continuing Member Spotlight series!!

WE'VE GOT A NEW NET CONTROL STATION FOR TECHTALK!

Bob Schroeder W8CRO will fill the position of the 1st Wednesday of the month beginning March 4th.

Join me in welcoming Bob W8CRO as one of the regular TechTalk Net Control Stations. Thanks again Bob, we'll be looking forward to you NCS duties on TechTalk.

73, Bruce N8BV TechTalk Manager

Please Note:
Proposed Bylaws Update for Review starting on [Page 31](#)

The Digital Group - Join in the Fun!

Join Jerry W1SCR and all the regulars on March 24th for all things digital radio. Did you get a new DMR radio and don't know what to do? Maybe you've heard about WinLink but don't know what software to load or how to set up your account.

These are the folks who can get you up and running! Join in the fun and comradery, 7PM in the Centennial Hall, Saint Bernard (building next to club meeting location)

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/about-oh-ky-in/membership/pay-membership-fees/>

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 use this link - <http://ohkyin.org/wp/about-oh-ky-in/membership/membership-application/>

The website still shows the 2019 application, but it is in the process of being changed over to the 2020 application (which has no changes from the 2019 app).

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

DX Spots for March 2020 de KA3MTT

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 H33K - Panama thru 3-13 	3 YJ0NC - Vanuatu Thru 3-6 	4 9J2LA - Zambia Thru 3-15 ----- J2 - Djibouti thru 3-16	5	6 V26FP - Antigua Thru 3-13 	7
8 8P6DR - Barbados Thru 4-9 	9 3B9 - Rodrigues I Thru 3-18 	10 W8S - Swains I Thru 3-25 	11	12 8Q7NC - Maldives Thru 3-21 	13	14 V31GX - Belize Thru 3-15 ----- PQ0S - St Peter & Paul I thru 3-16
15	16	17	18 T30ET - West Kiribati thru 4-3	19	20	21
22	23 TU2R - Ivory Coast Thru 4-3 	24	25 ZF2PG - Cayman Is thru 3-30 	26	27	28
29	30	31				

THE EXAM CORNER

By Steve Weeks, AA8SW

In previous installments of this series, I presented my case why every Technician licensee should make a serious effort to upgrade to General, and why I maintain that almost any Tech can upgrade to General with a very reasonable amount of effort – far less than many believe – because the FCC has established rules that are so much in our favor. Most importantly, *they tell us all of the possible questions in advance!*

Having access to the entire question pool in advance creates an amazing opportunity. With only a modest effort, you can review all of the possible questions so that when you go to take the real exam, you have already seen every question that will be presented!

In the prior articles, I discussed that Robert K4PKM and I have developed materials explaining the answers to the entire question pool for the OHKYIN General upgrade classes that we teach, and have made all of these materials available on the club website. Finally, I gave examples of our instructional materials and showed how one brief educational passage would show the way to correct answers on several of the questions from the actual question pool.

This month, I will give a few more examples from our instructional materials and provide the related items from the question pool, so you can see once again how easy it is to answer those questions correctly after getting just a little bit of guidance. I hope that this will encourage Techs to think seriously about upgrading, and it is also useful review for those of us who already hold General or above licenses.

Is this series useful? If so, please contact me or Robert K4PKM and let us know. Otherwise, this will be the last installment in the series for this year.

Now to the course material, followed by the related questions:

An RF signal, if strong enough, can heat human tissue and possibly cause other damage (think: microwave oven). The risk varies by RF frequency as well as power level and “duty cycle”. Duty cycle is the percentage of power that your station is actually emitting, averaged over a period of time (“time averaging”), compared to a constant 100% transmission at that power level. Most amateur radio emissions have duty cycles far less than 100% -- for example, in a typical CW conversation, you are sending only about half of the time (and listening to the other ham sending the rest of the time) so the duty cycle is automatically 50% or less, and even while you are sending, the key is down only part of the time, so the overall duty cycle might be only 30 or 40%. Power density at the place where a person is located is also affected by the type of antenna and how close you are to it – you don’t want to stand right in front of a directional antenna operating at high power. So the answer to the upcoming question about estimating maximum permissible exposure is -- All these choices are correct.

G0A01 What is one way that RF energy can affect human body tissue?

- A. It heats body tissue
- B. It causes radiation poisoning
- C. It causes the blood count to reach a dangerously low level
- D. It cools body tissue

Remember – microwave oven! Answer (A)

G0A02 (D) Which of the following properties is important in estimating whether an RF signal exceeds the maximum permissible exposure (MPE)?

- A. Its duty cycle
- B. Its frequency
- C. Its power density
- D. All these choices are correct

All are correct. (D)

G0A04 What does “time averaging” mean in reference to RF radiation exposure?

- A. The average amount of power developed by the transmitter over a specific 24-hour period
- B. The average time it takes RF radiation to have any long-term effect on the body
- C. The total time of the exposure
- D. The total RF exposure averaged over a certain time

Here again the examiners have essentially repeated the question in the correct answer, (D)

G0A07 What effect does transmitter duty cycle have when evaluating RF exposure?

- A. A lower transmitter duty cycle permits greater short-term exposure levels
- B. A higher transmitter duty cycle permits greater short-term exposure levels
- C. Low duty cycle transmitters are exempt from RF exposure evaluation requirements
- D. High duty cycle transmitters are exempt from RF exposure requirements

If the duty cycle (average power) is low then short-term levels can be higher without exceeding the standard, so the answer is (A).

Do you have to do anything to be sure your station is not exceeding recommended RF exposure levels? Not in most cases. However, if your output power exceeds a certain level for each frequency that is published in an FCC chart (in Section 97.13 of the amateur radio rules), you have to evaluate the exposure you are causing. That evaluation can be a calculation based on an FCC method or using a website, or you can measure your emissions with a field strength meter (so the answer to that question about evaluation methods is All these choices are correct). If you are one of the few whose calculated or measured levels exceed the guidelines, you have to take common-sense measures to reduce human exposure – such as keeping people farther away from your antenna, or making sure that you don’t point a directional antenna at a neighbor’s house.

G0A03 How can you determine that your station complies with FCC RF exposure regulations?

- A. By calculation based on FCC OET Bulletin 65
- B. By calculation based on computer modeling
- C. By measurement of field strength using calibrated equipment
- D. All these choices are correct

All are correct, (D). If you know even 2 of the 3 answers are correct, then the only possible response is (D).

G0A05 What must you do if an evaluation of your station shows RF energy radiated from your station exceeds permissible limits?

- A. Take action to prevent human exposure to the excessive RF fields
- B. File an Environmental Impact Statement (EIS-97) with the FCC
- C. Secure written permission from your neighbors to operate above the controlled MPE limits
- D. All these choices are correct

This is one of many in the question pool where only one answer, (A), is at all reasonable. The exam is not tricky – if answers seem obviously wrong, they are indeed wrong.

G0A08 Which of the following steps must an amateur operator take to ensure compliance with RF safety regulations when transmitter power exceeds levels specified in FCC Part 97.13?

- A. Post a copy of FCC Part 97.13 in the station
- B. Post a copy of OET Bulletin 65 in the station
- C. Perform a routine RF exposure evaluation
- D. Contact the FCC for a visit to conduct a station evaluation

Another obvious answer, (C).

G0A09 What type of instrument can be used to accurately measure an RF field?

- A. A receiver with an S meter
- B. A calibrated field strength meter with a calibrated antenna
- C. An SWR meter with a peak-reading function
- D. An oscilloscope with a high-stability crystal marker generator

(B), none of the others make sense.

G0A10 What is one thing that can be done if evaluation shows that a neighbor might receive more than the allowable limit of RF exposure from the main lobe of a directional antenna?

- A. Change to a non-polarized antenna with higher gain
- B. Post a warning sign that is clearly visible to the neighbor
- C. Use an antenna with a higher front-to-back ratio
- D. Take precautions to ensure that the antenna cannot be pointed in their direction

If pointing your antenna at a neighbor will cause a violation, don't point it at them. (D).

Again, don't agonize over choices that seem obviously wrong, they are indeed wrong.

G0A11 What precaution should you take if you install an indoor transmitting antenna?

- A. Locate the antenna close to your operating position to minimize feed-line radiation
- B. Position the antenna along the edge of a wall to reduce parasitic radiation
- C. Make sure that MPE limits are not exceeded in occupied areas
- D. Make sure the antenna is properly shielded

Because of the inverse square law, an indoor antenna has much greater potential to exceed limits. But you only have to check for compliance in occupied areas, (C). You do not have to evaluate levels up there if you put an antenna in your unfinished attic.

Touching a bare metal antenna while it is transmitting can cause a nasty RF burn – or a fall if someone is climbing a ladder or tower at the time. Avoid this by setting up ground-mounted antennas with protection against unauthorized access.

G0A06 What precaution should be taken when installing a ground-mounted antenna?

- A. It should not be installed higher than you can reach
- B. It should not be installed in a wet area
- C. It should be limited to 10 feet in height
- D. It should be installed such that it is protected against unauthorized access

Another answer that is just common sense, (D).

That's it for this month. **As noted, this will be the last column for this year unless readers let us know of interest in continuing it.** You can contact me at AA8SW@att.net or Robert at ak3q@ak3q.com

MARCH 2020 BRUNCH BUNCH – GOOD FOLKS, GOOD FOOD!

The next Brunch Bunch will be held Saturday, March 14th, at 1 P.M.

The location for March is **Frisch's Big Boy Restaurant** located at 5216 Glenway Avenue, 45238, in Price Hill. It is directly across the street from the intersection of Glenway Avenue and Sidney Road. This location is well known as **Price Hill Frisch's**.

Over the years the Frisch's Big Boy has greeted guests with his happy smile and the signature Big Boy hamburger located just outside the door to its restaurants.

For a look at the Frisch's menu go to: www.frischs.com

Remember the **Brunch Bunch** always meets the second Saturday of every month at 1 P.M. at a location to be announced each month. If you are not available to join us this month, maybe you'll be available to join us in the months ahead! I'm always looking for suggestions on what restaurant **you** think might be a good place to visit in the future. 73, Bruce N8BV

Q-Codes Refresher (commonly used in both CW and SSB)

QSB: Your signal is fading in and out. Usually, QSB, QRN and QRM, which are nouns, means fading, noise and interference, respectively.

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

Q-Codes Refresher (commonly used in both CW and SSB)

QSY: Shall I Change to Another Frequency/Change to Another Frequency

QSL: Can you acknowledge receipt? I am acknowledging receipt.

Technically Speaking

by Gary Coffey, KB8MYC, Technical Committee

I want to take a minute to talk about repeater etiquette. What is said on our repeaters is the first impression many get of our club and you as an operator. Here are some basic guidelines courtesy of the [Michiana Amateur Radio Club](#):

Take the time to listen to a repeater BEFORE YOU TALK.

Speak like you were talking to someone face to face. Key the mike, AND THEN start to talk.

Don't start speaking as you key the mike. Repeaters have a short delay before transmitting. If you start speaking too soon, your first few words may not be heard. Make sure you have finished talking before you un-key the mike. Give your call sign clearly, and slowly.

Use plain English and avoid jargon as much as possible. Q-codes are a Morse code short hand. They are sometimes used on SSB in HF contesting and on field day, but should not be used on repeaters. COMMON EXAMPLES ARE: qsl, qsy, qrt, xyl. Also, giving your call then saying you're "on the side" is bad form; this is not CB.

Avoid phonetics unless asked to do so. When using phonetics, use standard phonetics. "Alpha, Bravo, Charlie"... etc. Phonetics are commonly used when checking into nets.

If you are listening and would like to have a conversation, just give your call sign. You can add "monitoring", or "listening". Using the term "CQ" on a repeater is generally discouraged.

When you wish to communicate on a frequency, listen for a while before talking, there may be a conversation in progress.

If you want to join into a conversation, just give your call between transmissions rather than using the term "Break Break". You SHOULD be acknowledged and allowed into the conversation.

If you want to talk to a certain person, call them using their call sign once or twice, then your call sign. IF THEY DON'T ANSWER CLEAR THE REPEATER OR SAY YOU'RE MONITORING.

In an emergency, give your call and say "emergency" rather than using "Break Break". Saying "emergency" will make it clear why you are interrupting, and it will also get more attention from those just listening.

Make sure you ID (state your call sign) according to the rules, but avoid over ID'ing. If you are using a repeater system, the repeater has a timer so that it can ID every 10 minutes. Whenever you hear the repeater ID; that is a good time to send yours.

There is no need to say your call sign, then "For ID". Your call sign IS your ID. JUST SAY IT!

NEVER "Ker-chunk" a repeater. That means keying up your radio for just a moment so that the repeater transmits, usually you hear the "courtesy beep" afterwards. This is also annoying to the repeater owners and control operators. If you want to make sure you are transmitting okay, JUST give your call sign, and ask for a radio check if one is needed OR GIVE YOUR CALLSIGN AND SAY THAT YOU ARE TESTING.

Have fun. These are just a few pointers to help you sound like an old pro.

JUST BECAUSE OTHERS VIOLATE THESE GUIDELINES DOESN'T MAKE IT RIGHT. BE THE EXAMPLE OTHERS WILL FOLLOW.

Another note I would add to this is simple. Avoid slang terms and innuendo. If you wouldn't say it in the clear don't say it at all.

Also, if two people are having a conversation please don't jump in and start talking about something else; save it for the appropriate time.

Thanks, and hope to hear you on one of the repeaters.

OH-KY-IN LICENSING CLASSES

Please Contact Mike KD8ZLB for registration and class-specific information: kd8zlb@gmail.com

- **Amateur Extra** Class begins March 02, 7 P.M. Hamilton County Communications Center 2377 Civic Center Dr, Cincinnati, OH 45231 and lasts for 10 weeks
- **Technician** and **General** License Classes begin April 06, 7 P.M. American Red Cross - 2111 Dana Ave, Cincinnati, OH 45207 and lasts for 5 weeks

Exam Session

- **What** – OH-KY-IN is holding an amateur radio licensing exam session.
- **When** – Saturday May 9th , 9:00 AM
- **Where** – American Red Cross – 2111 Dana Ave, Cincinnati, OH 45207.
- **Who** – Anyone can take the exam; taking the OH-KY-IN class is not required.
- **How** – Please refer to the following link for what to bring to an ARRL exam session: <http://www.arrl.org/what-to-bring-to-an-exam-session>. The current exam fee is \$15.

YOUTH ON THE AIR CAMP APPLICATION PERIOD OPENED

The application period for the first camp for young amateur radio operators in North, Central, and South America is now open at YouthOnTheAir.org through March 15, 2020.

Licensed amateur radio operators ages 15 through 25 who want to attend are encouraged to apply online at YouthOnTheAir.org

The camp will take place June 21 through June 26, 2020 at the National Voice of America Museum of Broadcasting in West Chester Township, Ohio. The application process is FREE. The cost of the camp is \$100 plus transportation to and from the VoA museum.

The \$100 fee will not be payable until after acceptance. Should a potential camper not be able to afford the \$100 fee, he or she may apply for a scholarship.

Campers will be selected by the committee and notified by the end of March. Positions for campers are being held open for various areas of North, Central, and South America. If countries do not use their allocation or should someone decline acceptance, those positions will be filled from the remaining pool of applicants.

Twenty campers will be accepted, and that number will be expanded as more funding becomes available up to a maximum of thirty.

As this will be an ongoing process, everyone will not receive notification of acceptance at the same time. The application window ends March 15, 2020 at 2359Z.

For details about the camp, download the camp brochure from the camp web page at YouthOnTheAir.org

*For additional information, please contact Camp Director Neil Rapp, WB9VPG at **director@youthontheair.org***

TWO BIG PHONE (SSB) CONTESTS IN MARCH:

ARRL International DX Contest: 0000Z, Mar 7 to 2400Z, Mar 8

CQ WW WPX Contest: 0000Z, Mar 28 to 2359Z, Mar 29

Find More Information at: [Contest Calendar](#)

Don't You Wish You Were Here? Of Course You Do!!



The Brunch Bunch, February 2020 at Chili Time in Saint Bernard!

PROPOSED BYLAWS CHANGES/AMENDMENTS

At the April 2020 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.

Additionally, following last month's publication, the board discovered that one provision we wished to retain was missing from the new document, so we have added Article IV Item F since the previous publication.

Please review this document and plan to attend the April meeting to cast your vote. We need a good turnout of members to meet quorum, so please consider attending if at all possible. Thank you. Ryan, AC8UJ President

**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.

Again, Please review this document and plan to attend the April meeting to cast your vote. We need a good turnout of members to meet quorum, so please consider attending if at all possible. Thank you.

Ryan, AC8UJPresident

FEBRUARY 2020 GENERAL MEETING MINUTES

Meeting starting 7:31 PM

Guests: 4 guests, no self-introductions.

New License or Upgrades: None.

Self-Introductions: 43 in attendance.

Health and Welfare: Robert N8JMV getting Echocardiogram

Brag Sessions: Cesi KD8OOB made 5 CW contacts on Winter Field Day.

Corrections To Minutes: None listed

Eric accepted, seconded by Rob. Minutes accepted.

Membership: Up to 90 renewals this year. Unpaid memberships will lapse in March.

Treasurer's Report:

There were a number of things in January's report that were technically from December.

The report has been filed for audit.

Silent Keys:

N8KXL – David McPherson - passed in December. He was an active member of QCEN and may have been a member of OH-KY-IN in the past. Estate items will be listed on the website soon.

N8JMV's dad (Harold) passed away over Christmas, has list of stuff to sell.

Tech Committee:

The .625 repeater is working fine. K8SCH packet digipeater is back online.

925 is working 440 is off the air

Classes and Exams:

- Extra class will be held March 2nd - May 4. at the Hamilton County Communication Center
2377 Civic Center Drive
- Tech and General classes will be held April 6 - May 4 at the Red Cross Building on 2111 Dana Ave.
- Exams will be held on May 9th at the Red Cross Building

ARDF and Fox Hunts:

Fox Hunt this Saturday, mobile hunt Mt. Storm Park, 10AM, don't be late

Nets:

- TechTalk - Rob N8RDP, 127.24 +123, Bob W8CRO will take first Wed of the month
- Newcomers and Elmers Net on hold
- WinLink Wednesday: WinLink repeater is back up (W1SCR-10)

Digital Group: Meets the 4th Tuesday of the month. In Centennial Hall at 7:00

Website: Rocky working on improved membership application page, Net listing needs updated for QCEN

QCEN: Meeting on the 21st Friday night. Meet the new president

ARES: Meeting held on Tuesday February 18th at the Health Department Building. Saturday, March 28th ARES exercise, details to come. (crossbanding).

Brunch Bunch: This Saturday at 1:00 at Chili Time, 9th anniversary

Upcoming Events: Region 2 YOTA, Voice of America June. 21 - 26

Old Business:

- Winter Field Day (Outdoor) We were successful and the weather cooperated. No Satellite contacts made.
- Winter Field Day (Indoor) (QCEN) They were successful too.

Audit Committee: Report is not due. Meeting next Thursday at K4BRI QTH.

New Business:

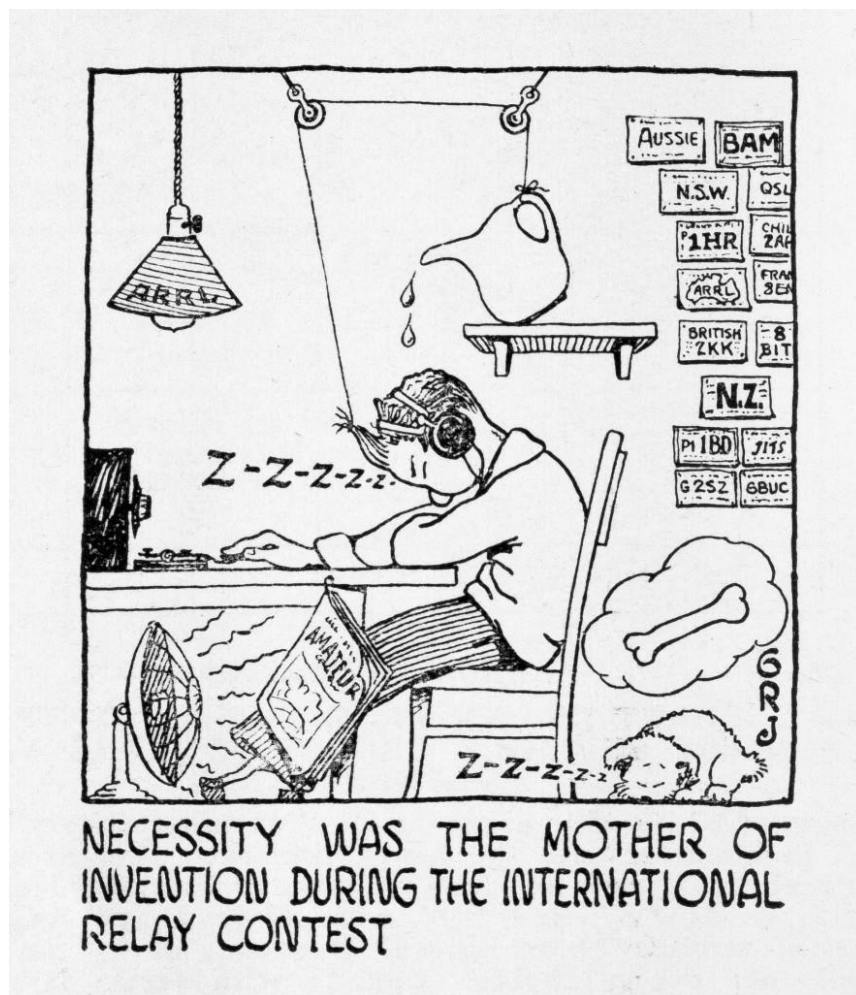
- Bob EZV Suggestions : upcoming youth on the air. They are looking for donations and proposed that OH-KY-IN send donation to YOTA. Proposal: we make donation, Rocky suggested that we send split the pot to that origination, Motioned by Bob
 - Kitty suggested \$100; Discussion of various amounts... but the general consensus/member vote was to donate the club's split-the-pot plus any additional donations made during the break.
 - CQ Magazine had results of 2019 ARDF champs
 - Clarification in last Q-Fiver revised Bylaws. Those bylaws will be used to replace existing bylaws and existing Constitution. If you have a concern about something, let us know. It was recommendation that we replace Constitution as it is not recognized as a legal document in Ohio. Plan on voting for the changes in April.
 - Guest: Mike Fiori, HS teacher, at Roger Bacon Highschool wants to start up the ham radio club again, and is the trustee of W8MTM. The station is in license only. He is asking for OH-KY-IN to help getting the HS club going. Talk to Mike if interested. wb8vnh.oh@gmail.com
 - ARRL: Bob WA6EZV, Brian K4BRI, Dick WB4SUV are officially on an ARDF board. Great Lakes convention in Toledo
 - Milford Radio Club: 443.45mhz FM/CF4FM Milford repeater is up
- Break at 8:27

Split the pot: \$207 for YOTA, \$67 to KG8GC Carl

Motion to Adjourn - Kitty, Pat seconds

9:08 PM Meeting Adjourned

-- Submitted by **George N3VQW**



Cartoon from 1927 QST (I hear Bruce N8BV operates like this too!)

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*.