



Q-Fiver

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

In The News

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

GET ON THE AIR!!

*(Don't you love it,
Amateur Radio works
without wires!!)*

In The News

*From Jack Gerbs
General Chairman
HV2020*

*"It is with a very heavy
heart the Hamvention
Executive Committee
has decided to cancel
Hamvention for this
year. Thank you for your
understanding in this
time of International
Crisis."*

In The News

*HamSCI Workshop
2020 Goes Virtual*

*This conference
receives high praise
from Cesi in his
excellent article found
on [page 11](#)*

Calendar of Events for April 2020

Wed	April 01	TechTalk	Bob W8CRO
Tue	April 07	Club Meeting	(see announcement page 2)
Wed	April 08	TechTalk	Mike N8MRS
Tue	April 14	Board of Directors meeting	(see announcement page 2)
Wed	April 15	TechTalk	Dale KC8HQS
Sat	April 18	Brunch Bunch	Cancelled due to State Group Restrictions
Wed	April 22	TechTalk	George N3VQW
Wed	April 29	TechTalk	Rick KD4PYR

IMPORTANT APRIL MEETING NEWS

Club members and friends,

Due to the present situation, our April 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 not be voting on the bylaws changes.

We will also forego conducting any official business at this meeting. I know that QCEN held their meeting via Zoom with at least reasonably good results, so I have confidence that this will work out for us as well.

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.

To make sure everyone is comfortable and has time to try it out before the actual meeting, we will also be holding a totally optional practice session / social gathering one week before the meeting on Tuesday, March 31st at 7:30 PM.

The board meeting will also occur on Zoom on its normal day at time (Tuesday, April 14th at 7:30 PM).

All three events (the practice session, the club meeting and the board meeting) will use the same Zoom meeting code. 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

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

*IN THE NEWS FROM QRZ.COM***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

The Long Island CW Club Offers Shut-In Kids Free On-Line Morse Code Classes

With many youngsters at loose ends as a result of school closings due to COVAD-19 concerns, the Long Island CW Club is offering students free on-line instruction to learn Morse code.

Howard Bernstein, WB2UZE, a founding member of the Long Island CW Club explained that learning Morse is a fun and educational activity for children of all ages that can fill part of the gap left by the current unfortunate situation that has closed so many schools across the country.

Therefore, the Long Island CW Club will be offering on-line Morse code classes each Monday through Friday starting on Monday, March 23rd specifically for school-agers anywhere across the country or overseas.

Instruction will be conducted via Zoom on-line video conferencing, requiring a computer equipped with a microphone and camera.

Classes for elementary school-aged children will run 30-minutes starting at 12:00 noon EDT (16:00Z) , followed by 45-minute classes for middle and high-school-aged youngsters starting at 12:45 p.m. EDT (16:45Z)

There is no charge for participation, but parental permission is required through advance registration by contacting the class instructor, Robb Zarges, K2MZ, by e-mail at k2mz@yahoo.com or telephone at 508-8318248.

The Long Island CW Club (www.longislandcwclub.org) is dedicated to the history and preservation of Morse code communications. Its team of 15 instructors offers 25 on-line video conference classes each week at different skill levels, currently serving more than 300 students in 44 states and ten countries.

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

FIELD DAY IS RIGHT AROUND THE CORNER!

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 know 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

Thanks, and see you soon! Eric, N8YC

Bob, WA6EZV reports: "You might find this site interesting. Just point to an ADI file and click OK. I used my FT8 file from WSJT-X." <http://tools.adventureradio.de/analyzer/>



Tips and Tricks - Cleaning Removable Heads

If you own a Yaesu FT-891 [or other rig with a fan(s) on the removable head - ed.] I would recommend for maintenance at least once a year removing the display head and vacuuming it from behind the head as well as vacuuming the main unit.

I found dog hair, dust etc. behind the head in the main unit. It is best to VACUUM it - do not try to blow it thru the rig. There are TWO fans in the 891 behind the display and they draw dust and debris into the rig's main body.

I was able to vacuum both units and the rig runs slightly cooler because of the better air flow.

Thanks to Glenn, KD8JV for this helpful tip!

(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 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 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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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 now past due as of April 1st. 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 April 2020

1st Wednesday	Bob W8CRO
2nd Wednesday	Mike N8MRS
3rd Wednesday	Dale KC8HQS
4th Wednesday	George N3VQW
5th Wednesday	Rick KD4PYR



HAMSCI WORKSHOP 2020 GOES VIRTUAL

The HamSCI Workshop for 2020 was held on Friday and Saturday, March 20th and 21st this year on schedule, but the conference was moved online with entry fees waived due to the COVID-19 pandemic. This year's theme was the aurora, or Aurorasaurus – Report Auroras From the Ground Up.



HamSCI, the Ham Radio Science Citizen Investigation, is a community sharing common interests between amateur radio enthusiasts, citizen scientists and professional scientists. Outside of periodic conference calls for special interest groups, HamSCI meets four times a year: HamSCI Workshop, Dayton Hamvention, ARRL-TAPR Digital Communications Conference and American Geophysical Union Meeting. Past workshops have been held at Case Western Reserve University in Cleveland, OH, New Jersey Institute of Technology in Newark, NJ and at the Radio Society of Great Britain annual convention in Milton Keynes, UK.

This year was to be held at the University of Scranton in Scranton, PA, but due to the COVID-19 outbreak, the conference was instead held virtually over Zoom and YouTube Live, allowing people who normally could not attend to participate. Conference entry fees were also waived to boost participation. The workshop ended up being very successful with 290 attendees from 24 countries including Puerto Rico. For comparison, last year's in-person workshop had 80 attendees.

HamSCI Workshops consist of presentations, project updates, tutorial, posters, demos and lively open discussions during breaks and lunch, unified by a common theme, this year's being Aurorasaurus – Report Auroras From the Ground Up. While I am not particularly interested in auroras, being a little too far south to see them, there were plenty of other topics to pique my interest and I learned that even though I cannot see the aurora borealis from my QTH, they still impact propagation that does have a direct effect on me.

In particular, I was interested in the Personal Space Weather Station and the TangerineSDR, two different devices at two different price points to help citizen scientists report on space weather and propagation. Both devices are still being developed and will be available soon to anyone who wants to report on local propagation to a central, distributed database to attempt to create a better overall view of the ionosphere.

I also found the Update on the Golden Ears Project to be fascinating. Golden Ears uses humans with “golden ears” to hear CW QSOs recorded during the 2019 ARRL Field Day via the Radio Receiver Instrument (RRI), part of the Enhanced Polar Outflow Probe (e-POP) science payload on the Cascade, Smallsat and Ionospheric Polar Explorer (CASSIOPE) spacecraft. Due to the Doppler effect on the signals, computers cannot decode the CW, but humans can!

Another topic of personal interest was EclipseMob: Initial Planning for 2024. As you may or may not know, there will be another total eclipse over North America in 2024 and the Cincinnati tri-state region will have an even better view than the 2017 total eclipse. Using lessons learned from 2017, the EclipseMob team is already working on experiments and equipment for citizen scientists for 2024, including a new Raspberry Pi-based device to collect WWVB’s 60 kHz signal as well as from US Navy VLF transmitters. I signed up for the email list as I would like to get this device for a club project for 2024, if anyone is interested.

I also enjoyed a lively dissertation entitled “Nikola Tesla – The Pioneer who Paved the Road to the World and Ham Radio as We Know It.” While I was already familiar with Nikola Tesla and his work, it was fun listening to an expert along with some great photos from the early 20th century.

These were just some highlights of the conference that I found interesting. The entire agenda for the conference can be found on the HamSCI website at <https://hamsci.org/hamsci-2020-program>. A summary blog post can be found at the Aurorasaurus website at <http://blog.aurorasaurus.org/?p=1037>. A Google Drive with links to all the presentations is available at <http://drive.google.com/drive/folders/1JSd-v6difZ6iSI9PpWN0mBnsbPPuMGU-?usp=sharing>.

With the success of a virtual conference in 2020, the HamSCI team is already discussing adding an online, virtual component to the conference in hopes of continuing to reach others who cannot attend in person. Look for updates about the 2021 conference in the fall.

73! Cesi DiBenedetto KD8OQB

The Radiophonic Laboratory: Musician of Sounds: Noise, Pierre Schaeffer, and Musique Concrète By Justin Patrick Moore, KE8COY

IS THERE ANY ESCAPE FROM NOISE?

In our machine dominated age there is hardly any escape from noise. Even in the most remote wilderness outpost planes will fly overhead to disrupt the sound of the wind in the trees and the birds in the wind. In the city it is so much part of the background we have to tune in to the noise in order to notice it because we've become adept at tuning it out. Roaring motors, the incessant hum of the computer fan, the refrigerator coolant, metal grinding at the light industrial factory down the street, the roar of traffic on I-75, the beep of a truck backing up, these and many other noises are all part of our daily soundscape.

Throughout human history musicians have sought to mimic the sounds around them. The gentle drone of the tanpura, a stringed instrument that accompanies sitar, flute, voice and other instruments in classical Indian music, was said to mimic the gentle murmur of the rivers and streams. Should it be a surprise then, that in the nineteenth and twentieth century musicians and composers started to mimic the sounds of the machines around them? In bluegrass and jazz there are a whole slew of songs that copied the entrancing rhythms of the train. As more and more machines filled up the cities, is it any wonder that the beginnings of a new genre of music –noise music- started to emerge? Is it any wonder that, as acoustic and sound technology progressed, our music making practices also came to be dominated by machines?

THE ART OF NOISES

And just what is music anyway? There are many definitions from across the span of time and human culture. Each definition has been made to fit the type, style and particular practice or praxis of music.

In his 1913 manifesto *The Art of Noises* the Italian Futurist thinker Luigi Russolo argues that the human ear has become accustomed to the speed, energy, and noise of the urban industrial soundscape. In reaction to those new conditions he thought there should be a new approach to composition and musical instrumentation. He traced the history of Western music back to Greek musical theory which was based on the mathematical tetrachord of Pythagoras. This did not allow for harmony. This changed during the middle-ages first with the invention of plainchant in Christian monastic communities. Plainchant employs the modal system, and this is used to work out the relative pitches of each line on the staff, and was the first revival of musical notation after knowledge of the ancient Greek system was lost. In the late 9th century, plainsong began to evolve into organum, which led to the development of polyphony. Until then the chord did not exist, as such.

Russolo thought that the chord was the "complete sound." He noted that in history chords developed slowly over time, first moving from the "consonant triad to the consistent and complicated dissonances that characterize contemporary music." He pointed out that early music tried to create sounds that were sweet and pure, and then it evolved to become more and more complex. By the time of Schoenberg and the twelve tone revolution of serial music, musicians

sought to create new and more dissonant chords. These dissonant chords brought music ever closer to his idea of "noise-sound."

With the relative quiet of nature and pre-industrial cities disturbed, Russolo thought a new sonic palette was required. He proposed that electronics and other technology would allow futurist musicians to substitute for the limited variety of timbres available in the traditional orchestra. His view was that we must "break out of this limited circle of sound and conquer the infinite variety of noise-sounds." This would be done with new technology that would allow us to manipulate noises in ways that never could have been done with earlier instruments. In that, he was quite correct.

Russolo wasn't the only one thinking of the aesthetics of noise, or seeking new definitions of music. French Modernist composer Edgar Varèse said that "music is organized sound." It was a statement he used as a guidepost for his aesthetic vision of "sound as living matter" and of "musical space as open rather than bounded". Varèse thought that "to stubbornly conditioned ears, anything new in music has always been called noise", and he posed the question, "what is music but organized noises?" An open view of music allows new elements to come into the development of musical traditions, where a bound view would try to keep out those things that did not fit the preexisting definition.

Out of this current of noise music initiated in part by Russolo and Varese, a new class of musician would emerge, the musician of sounds.

MUSICIAN OF SOUNDS

Fellow Frenchmen Pierre Schaeffer developed his theory and practice of *musique concrète* during the 1930s and '40s, and saw it spread to people such as Karlheinz Stockhausen, the founders of the BBC Radiophonic Workshop, F.C. Judd and many others in the 50's. *Musique*



concrète was a practical application of Russolo's idea of "noise-sound" and exploration of expanded timbres possible through then new studio techniques. It was also a way of making music according to the "organized sound" definition and was distinct from previous methods by being the first type of music completely dependent on recording and broadcast studios.

In *musique concrète* sounds are sampled and modified through the application of audio effects and tape manipulation techniques, then reassembled into a form of montage or collage. It can feature any sounds derived from any recordings of musical instruments: the human voice,

field recordings of the natural and man-made environment, or sounds created in the studio. Schaeffer was an experimental audio researcher who combined his work in the field of radio communications with a love for electro-acoustics. Because Schaeffer was the first to use and develop these studio music-making methods, he is considered a pioneer of electronic music and one of the most influential musicians of the 20th century. These recording and sampling

techniques which he was the first to use and practice, are now part of the standard operating procedures used by nearly all record production companies around the world. Schaeffer's efforts and influence in this area earned him the title "Musician of Sounds."

Schaeffer, born in 1910, had a wide variety of interests throughout his eighty-five years on this planet. He worked variously across the fields of composing, writing, broadcasting, engineering, and as a musicologist and acoustician. His work was innovative in science and art. It was after World War II that he developed *musique concrète*, all while continuing to write essays, short novels, biographies and pieces for the radio. Much of his writing was geared toward the philosophy and theory of music, which he then later demonstrated in his compositions.

It is interesting to think about the influences on him as a person. Both his parents were musicians, his father a violinist, and his mother a singer, but they discouraged him from pursuing a career in music and instead pushed him into engineering. He studied at the *École Polytechnique* where he received a diploma in radio broadcasting. He brought the perspective and approach of an engineer with his inborn musicality to bear on his various activities.

Schaeffer got his first telecommunications gig in 1934 in Strasbourg. The next year he got married and the couple had their first child before moving to Paris where he began work at *Radiodiffusion Française* (now called *Radiodiffusion-Télévision Française*, RTF). As he worked in broadcasting he started to drift away from his initial interests in telecommunications toward music. When these two sides met he really began to excel.

After convincing the management at the radio station of the alternate possibilities inherent in the audio and broadcast equipment, as well as the possibility of using records and phonographs as a means for making new music, he started to experiment. He would record sounds to phonographs and speed them up, slow them down, play them backwards and run them through other audio processing devices, and mixing sounds together. While all this is just par for the course in today's studios, it was the bleeding edge of innovation at the time.

With these mastered he started to work with people he met via the RTF. All this experimentation had as a natural outgrowth a style that leant itself to the avant-garde of the day. The sounds he produced challenged the way music had been thought of and heard. With the use of his own and his colleagues engineering acumen new electronic instruments were made to expand on the initial processes in the audio lab, which eventually became formalized as the *Club d'Essai*, or Test Club.

CLUB D'ESSAI

In 1942 Pierre founded the *Studio d'Essai*, later dubbed the *Club d'Essai* at RTF. The Club was active in the French resistance during World War II, later to become a center of musical activity. It started as an outgrowth of Schaeffer's radiophonic explorations, but with a focus on being radio active in the Resistance on French radio. It was responsible for the first broadcasts to liberated Paris in August 1944. He was joined in the leadership of the Club by Jacques Copeau, the theatre director, producer, actor, and dramatist.

It was at the Club where many of Schaeffer's ideas were put to the test. After the war Schaeffer had written a paper that discussed questions about how sound recording creates a transformations in the perception of time, due to the ability to slow down and speed up sounds. The essay showed his grasp of sound manipulation techniques which were also demonstrated in his compositions.

In 1948 Schaeffer initiated a formal "research in to noises" at the Club d'Essai and on October 5th of that year presented the results of his experimentation at a concert given in Paris. Five works for phonograph (known collectively as *Cinq études de bruits*—Five Studies of Noises) including *Etude violette* (Study in Purple) and *Etude aux chemins de fer* (Study of the Railroads), were presented. This was the first flowering of the musique concrète style, and from the Club d'Essai another research group was born.

GRM: Groupe de Recherche de Musique Concrète

In 1949 another key figure in the development of Musique Concrète stepped onto the stage. By the time Pierre Henry met Pierre Schaeffer via Club d'Essai the twenty-one year percussionist-composer old had already been experimenting with sounds produced by various objects for six years. He was obsessed with the idea of integrating noise into music, and had already studied with the likes of Olivier Messiaen, Nadia Boulanger, and Félix Passerone at the Paris Conservatoire from 1938 to 1948.

For the next nine years he worked at the Club d'Essai studio at RTF. In 1950 he collaborated with Schaeffer on the piece *Symphonie pour un homme seul*. Two years later he scored the first musique concrète to appear in a commercial film, *Astrologie ou le miroir de la vie*. Henry remained a very active composer and scored for a number of other films and ballets.

Together the two Pierres were quite a pair and founded the Groupe de Recherche de Musique Concrète (GRMC) in 1951. This gave Schaeffer a new studio, which included a tape recorder. This was a significant development for him as he previously only worked with phonographs and turntables to produce music. This sped up the work process, and also added a new dimension with the ability to cut up and splice tape in new arrangements, something not possible on a phonograph. Schaeffer is generally acknowledged as being the first composer to make music using magnetic tape.

Eventually Schaeffer had enough experimentation and material under his belt to publish *À la Recherche d'une Musique Concrète* ("In Search of a Concrete Music") in 1952, which was a summation of his working methods up to that point.

Schaeffer remained active in other aspects of music and radio throughout the '50s. In 1954 he co-founded Ocora, a music label and facility for training broadcast technicians. Ocora stood for the "Office de Coopération Radiophonique". The purpose of the label was to preserve via recordings, rural soundscapes in Africa. Doing this kind of work also put Schaeffer at the forefront of field recording work, and in the preservation of traditional music. The training side of the operation helped get people trained to work with the African national broadcasting services.

His last electronic noise etude was realized in 1959, the "Study of Objects" (*Etudes aux Objets*).

For Pierre Henry's part, two years after leaving the RTF, he founded with Jean Baronnet the first private electronic studio in France, the Apsone-Cabasse Studio. Later Henry made a tribute to composing his *Écho d'Orphée*.

A CONCRETE LEGACY

The legacy of Schaeffer's musique remains concrete. Schaeffer had known of the "noise orchestras" of his predecessor Luigi Russolo, but took the concept of noise music and developed it further by making it clear that any and all sounds had a part to play in the vocabulary of music. He created the toolkit later experimenters took as a starting point. He was the original sampler. In all his work he emphasized the role of play, or *jeu*, in making music. His idea of *jeu* in music came from the French verb *jouer*. It shares the same dual meaning as the English word play. To play is to have two things at once: to make pleasing sounds or songs on a musical instrument, and to engage with things as way of enjoyment and recreation. Taking sounds and manipulating them, seeing what certain processes will do to them, is at the heart of discover and play inside the radiophonic laboratory. The ability to play opens up the mind to new possibilities.

<http://www.ubu.com/sound/schaeffer.html>

Two Free Issues of CQ Magazine!



Many thanks to CQ Magazine for the following announcement, posted on [SWLing Blog](#):

In view of the "stay at home and flatten the curve" recommendations from the health experts during this worldwide pandemic, CQ would like to give everyone the opportunity to escape the news alerts for a brief period and enjoy the hobby they love through the pages of CQ!

View the March and April issues of CQ magazine at no charge! It's easy, simply send an E-mail to (FreeIssues@cq-amateur-radio.com) and we'll send you the March issue now and the April issue on April 1st!

Take advantage of this opportunity to read CQ – free of charge – and keep connected with the latest trends and activities in amateur radio! Stay home . . . stay well!

THE SURPRISING WAY SOLAR STORMS BEACH GREY WHALES

Sometimes grey whales do a funny thing. They strand themselves on beaches for no apparent reason. No injury. No illness. No obnoxious blasts from Navy sonars. They just get lost.

But why? A team of researchers from Duke University and the Adler Planetarium may have found the answer—and it's a bit surprising.

[Their study](#) was published in this week's edition of *Current Biology*.



Above: A grey whale and her young. Credit: [NOAA](#).

Biologists have long suspected that whales have an internal compass, allowing them to navigate using magnetic fields much like birds and bees do. This would make whales vulnerable to space weather. During geomagnetic storms, shifting magnetic field lines could confuse their internal compasses, throwing the whales off course.

But that's not what the new study shows.

"We were really surprised by our results," says lead author Jesse Granger, a PhD student in Biology at Duke University. "Geomagnetic storms are not stranding the whales." Instead, the best explanation seems to be solar radio bursts.

During periods of high solar activity, the sun emits broadband bursts of radio energy. Many shortwave radio operators have been surprised by a roar of static in their headphones after a strong solar flare. Whales seem to be tuning in as well. Read the full article here:

<https://spaceweather.com/archive.php?view=1&day=28&month=02&year=2020>

Great Lakes Convention and Toledo Hamfest – Cancelled

There is a great deal of concern and hype over the Coronavirus in Ohio. It has prompted TMRA to act upon these decisions.

COLUMBUS — Ohio. Gov. Mike DeWine on Wednesday said he plans to issue an executive order barring public participation in sporting events and other large gatherings (Tuesdays news conference defines large gathering as 100 or more), and that a closure of K-12 schools could happen soon as the state continues to battle with a coronavirus outbreak.

The governor's allusion to even more drastic virus mitigation steps coming in the near future came as officials announced a 53-year old male from Stark County has tested positive for coronavirus, marking the fourth case in Ohio and the first case officials consider to be "community spread." Community spread cases are cases where the afflicted individual did not become sick as a result of traveling.

TMRA at this time is cancelling the March 14th Great Lakes Conference along with the March 15th Hamfest in order to further protect our regular attendees and vendors.

At the present time TMRA has had several conference presenters and vendors cancel out on our event. We at TMRA do not want to put on an event that you will not get your monies worth or not get the presenters that were promised.

All those that pre-purchased tickets (for any portion of our events) will be fully refunded over the upcoming week. We look forward to your participation at future events! – Scott Yonally

SOLAR WEATHER AND PROPAGATION NEWS

THE SUN IS BLANK, REALLY BLANK: 2019 set a Space Age record for spotless days. The sun was blank 77% of the time last year. 2020 is on the same pace. So far this year, the sun has also been without sunspots 77% of the time. Will Solar Minimum never end?

Forecasters believe sunspot counts will begin to increase again in late 2020.

**NOCTILUCENT CLOUDS OVER THE SOUTH PACIFIC:**

You don't see this everyday—or even in 30 years. "Noctilucent clouds (NLCs) have appeared over the South Pacific," reports meteorologist Ashleigh Wilson of the Australian Antarctic Division. "I photographed them from Macquarie Island on Jan. 4th."
(both above items courtesy of Spaceweather.com)

Magnetic Explosions Discovered on Earth's Doorstep

[January 16, 2020](#) / [Dr. Tony Phillips](#)

Jan. 16, 2019: Yes, there **are** explosions in Earth's magnetic field. They happen all the time. Gusts of solar wind press against Earth's magnetosphere, squeezing lines of magnetic force together. The lines criss-cross and reconnect, literally exploding and propelling high energy particles toward Earth. Auroras are the afterglow of this process.

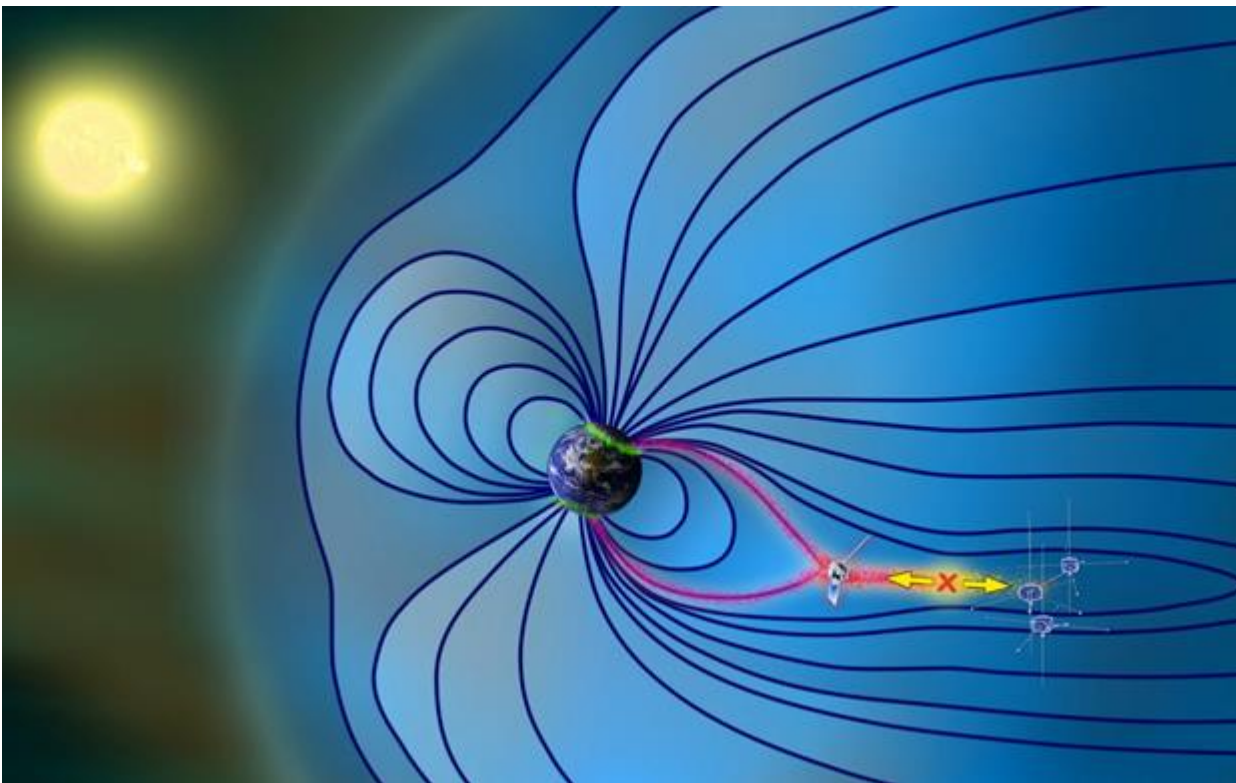


Auroras in the aftermath of a near-Earth magnetic explosion on Dec. 20, 2015. Credit: Joseph Bradley of Whitehorse, Yukon, Canada

On Dec. 20, 2015, one such explosion occurred closer to Earth than anyone had seen before. It has taken researchers 4 years to fully wrap their minds around what happened, and the results were published just this week in the Jan. 13, 2020, edition of *Nature Physics*.

Lead author Vassilis Angelopoulos of UCLA explains: “Usually, these explosions happen at least 100,000 miles from Earth, far downstream in our planet’s magnetic tail. On Dec. 20, 2015, however, we observed a reconnection event only 30,000 miles away—more than 3 times closer than normal.”

It was a case of good luck and perfect timing. NASA’s swarm of three THEMIS spacecraft were passing through the area, and they were able to pinpoint the explosion’s location “right on the doorstep” of the geosynchronous satellite belt. This showed reconnection events may pose a previously overlooked threat to Earth-orbiting satellites. The nearby blast caused a strong G2-class geomagnetic storm and intense auroras around the Arctic Circle.



In this diagram of Earth’s magnetosphere, “X” marks the spot of the Dec. 20, 2015, explosion. The 3 THEMIS spacecraft are also shown. Credit: Emmanuel Masongsong, UCLA EPSS

Angelopoulos estimated the energy involved. “The explosion and subsequent storm delivered as much as ~88 PetaJoules of energy to the near-Earth environment.

That’s more than 10 times the energy of the largest US nuclear bomb and about 20 times the energy of a magnitude 7 earthquake.”

Before this event, many researchers felt that reconnection at such proximity was impossible. Earth’s nearby magnetic field was too stable for such explosions ... or so the thinking went.

“Now we know better,” Angelopoulos says. “The THEMIS multipoint observations are iron-clad. It really happened, and this is going to make a big impact on future studies of geomagnetic storms.” (Curtesy of Spaceweather.com)

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

Raising The Titanic's Radio Room

For some reason, of all the ships that have sailed the oceans, it's the unlucky ones that capture our imagination. Few ships have been as unlucky as the RMS *Titanic*, sinking as she did on the night of April 15, 1912 after raking across an iceberg on her maiden voyage, and no ship has grabbed as much popular attention as she has.

During her brief life, *Titanic* was not only the most elegant ship afloat but also the most technologically advanced. She boasted the latest in propulsion and navigation technology and an innovation that had only recently available: a Marconi wireless room, used both for ship-to-shore and ship-to-ship communications.

The radio room of the *Titanic* landed on the ocean floor with the bow section of the great vessel. The 2.5-mile slow-motion free fall destroyed the structure of the room, but the gear survived relatively intact. And now, more than a century later, [there's an effort afoot to salvage that gear](#), with an eye toward perhaps restoring it to working condition. It's a controversial plan, of course, but it is technologically intriguing, and it's worth taking a look at what's down there and why we should even bother after all these years.

Read the full article here:

<https://hackaday.com/2020/03/04/raising-the-titanics-radio-room/>

(thanks to Dale KC8HQS for posting this link!)

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 Ciufu, 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*

AMATEUR RADIO MAKES THE HEADLINES ON FOX NEWS PAGE



In this Friday, March 13, 2020 photo, Paul Buescher poses by his ham radio, in Northfield Center Township, Ohio. Buescher is one of 32 members of a group in northeastern Ohio that shares a farm packed with enough canned and dehydrated food and water to last for years. (AP Photo/Tony Dejak) Fox News

(ed. note: SSB activity has increased from what I can tell, particularly since the "in shelter" status of many states and countries – an unintended, but welcome consequence of the current pandemic)

**BOTH CINDY AND
HER HUSBAND
JERRY, W1SCR
ARE LIFE
MEMBERS OF
OH-KY-IN ARS !**

**Radio's being
used:**

- Yaesu 2M HT
- Yaesu FT-897
- Yaesu FT-817
- Icom IC-7300
- Yaesu FT-857

**Cindy's favorite
modes of
operation:**

FM

WinLink

Member Spotlight

Cindy Shipp - KB8WEI

By Nathan, KA3MTT

Cindy's start into Amateur Radio

Cindy first became licensed in 1979. She joined her husband Jerry, W1SCR in an Amateur Radio class to get licensed.

Cindy's Elmer was a gentleman named Herm Turner, but can't remember his callsign.

Cindy mentioned she's not much into contesting or DX'ing, but she does enjoy going to the OH-KY-IN Hamfest each year.

Cindy also gets to use a LOT of Motorola equipment at work! She is a dispatcher for the University of Cincinnati Police Department. The UC Police Division is a fully empowered law enforcement agency that operates 24 hours a day, 365 days a year. All police officers are certified by the state of Ohio and have full police authority. The division currently employs 72 police officers and 26 security officers.



**KB8WEI at
University of
Cincinnati
Police Dispatch**

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

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 info (you did renew your membership, right?!)

YOTA CAMP UPDATE

Hi Everyone,

As you know, the coronavirus pandemic is causing major disruptions to gatherings of all shapes sizes. Our committee met earlier this week, and at the moment we have three options.

- A) Proceed with the current plan for hosting the camp June 21-26, if it is safe and legal to do so
- B) Reschedule the camp later in the summer, provided it is safe and legal to do so and adequate arrangements can be made
- C) Reschedule the camp to the summer of 2021

We wanted to be transparent and communicate what is being discussed at this time. These are our current options in order of preference. We have until mid-April to make a decision about option A. So we are going to wait until that time.

Should we not be able to host the camp this year, we will offer some choices for possible refunds on donations at that time. Financially, most of our expenditures haven't happened yet, and so we could offer refunds or simply hold the donations to use for 2021. We will address that more once we are in a position to make a decision about when the camp will occur.

For now... we wait until mid-April.

73, Neil Rapp, WB9VPG
YOTA Camp 2020 Director

DX Spots - April 2018 de KA3MTT

Sun	Mon	Tue	Wed	Thu	Fri	Sat
8P6DR - Barbados Thru 4-9 	XW4R - Laos thru 4-12 	CP6 - Bolivia thru 4-6 	1	2	3	4 J88PI - St Vincent Thru 4-14 
5	6	7	8	9	10 JW - Svalbard thru 4-13 	11
12 	13	14 TG9BBV - Guatemala Thru 5-13 	15	16	17 DU2 - Philippines Thru 4-25 	18
19	20	21	22	23	24	25
26	27	28	29	30		

APRIL 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***

FLYING PIG MARATHON UPDATE – STEVE LEWIS, N8FTD

You have probably seen the press release or social media coverage on this.
The Flying Pig has been scratched from the first weekend of May.

It is to be held as a "combined experience" with the Queen
Bee on the weekend of October 9 - October 11.

My thought: I've heard no details, but can't shake the feeling that the Queen
Bee will run on Saturday as part of the traditional Saturday Flying Pig
events.

If this is so: it will make what is a very complex and personpower-intensive
weekend even more so. It will require a larger effort than the 21 previous
Pigs and 6 Queen Bees. It will necessitate a lot of begging, and pleading on
my part, and a lot of recruiting on your part.

Thank you for your support of the "biggest scheduled thing" in Cincinnati
each year, please stick
with us during the unusual year.

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.

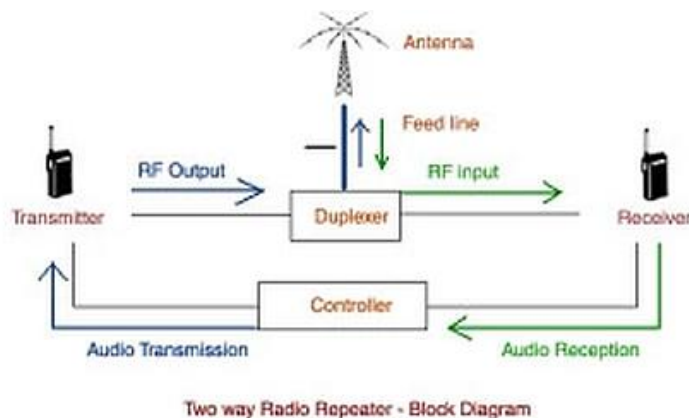
You must swipe your registered Kroger rewards card or use the phone number that is related to your registered Kroger rewards card when shopping for each purchase to count.

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 (Reprinted from BridgeCom Systems)



Repeater components

The prominent components of a two-way radio repeater as shown above are:

1. **Receiver** – accepts the incoming signal. It is advisable to use a sensitive equipment to allow reception of even the weaker

transmissions. Decoding of encrypted private-line (PL) signals occur here. Most receivers also employ a circuitry called Continuous Tone-Coded Squelch System (CTCSS) to mitigate tone squelch, or the annoyance of listening to other users on a shared communications channel, as it often happens for a two-way radio.

2. **Transmitter** – audio signals from sources like mobile device/ HT are boosted using power amplifiers (typically 40-100 watts or more) and transmitted to travel farther. Most transmitters are also fitted with 'exciter' to modulate the audio. The separation between the transmission and reception frequencies can range from 500 kHz to 5mHZ, depending on the bandwidth. This separation is called 'Offset'. It prevents the repeater from hearing itself or interference from its own source signals.
3. **Antenna** – high-gain, high endurance, bi-directional antenna is used to both transmit and receive signals. It is advisable to mount it at a significant elevation above ground level to steer clear of obstacles. Performance demands cause them to be pretty expensive.
4. **Feed Line** – low loss aluminum cables are typically used for antenna feed and signal reception from source. These are considerably better for performance than regular coax, permitting signals even from relatively weaker sources to be retained
5. **Controller** – at the heart of any repeater operation is a controller. It can intuitively activate the transmitter in timely fashion, identify repeater station ID using voice/CW signals, send out pre-recorded messages, announcements and performs many other programmable tasks.

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

BOUVET ISLANDS NEWS (FROM DXNEWS.COM)***Rebel Team update***

We are on track with 3Y0I Bouvet project. Still missing some budget but we are getting closer and closer. Second attempt will take place in December 2020. Before December, Rebels are moving to Pacific to activate Banaba Island (callsign secured T33T).

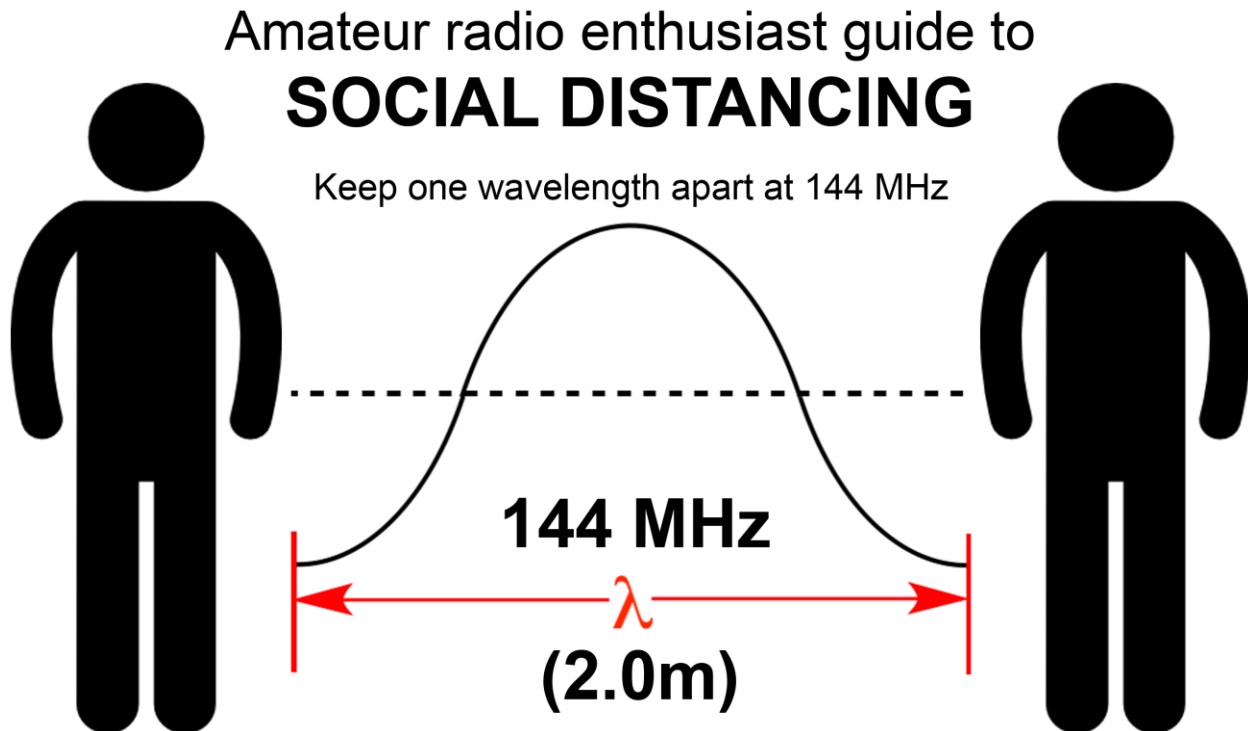
This activity will start in first half of 2020.

*After Banaba we will sail to T2 Tuvalu (working on callsign T22T)
During April we will also be active from 2 IOTAs OC 156 and OC 121
Stay tuned (thanks to Jim WB4CTX for this update)*

At least they weren't stuck in the Drive-thru!

The Brunch Bunch, March 2020 at Frisch's!

"There was only one other group dining inside but the drive thru was wrapped around the building almost to the front door." 73, Bruce



A little much-needed humor from [G6NHU's Blog](#)

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.

MARCH 2020 GENERAL MEETING MINUTES**General Club Meeting Minutes**

Meeting started at 7:30pm

Guests: None

New licenses or upgrades: None

Self-Introductions: 39 in attendance.

Health and Welfare:

Harry L. Riggs Jr. KM4CS became a silent key. He was a long-time member of the club

Brag Session:

Cesi KD8OOB: we talked to the space station; George N3VQW: discovered his indoor 2-meter antenna had an 100:1 SWR

Lost and Found:

Winter field day - two pink carabiners were left behind. They belong to Rocky.

Business:

Corrections to minutes in Q-Fiver: None mentioned.

Motion to accept: First Justin KE8COY, seconded by Robert N8JMV

Membership report:

90+ members have renewed. If you haven't renewed after this month... *you are no longer a member!!*

Treasurer's Report: Brian got back from Mexico so, sorry we are broke!

A donation was made for YOTA, and parts for one of the DTX1000, which didn't fix the problem.

Brian's report was accepted and filed for audit.

Tech Committee: Nothing to report - we are waiting permission to climb tower.

Classes:

Extra started last night at communication center - 5 attended.

Tech and General class start April 6th through May 4th at the Red Cross

Foxhunts and ARDF: Nothing to report.

Library: (Justin) - Dan Curtman brought books to the library

Nets:

Tech Talk - Every Wednesday at 9:00

Newcomers and Elmer's net currently on hold

Winlink Wednesday: Every week on Wednesday

Digital Group: Working on setting up QCEN repeater gateway for packet

QCEN: Club meeting is on March 20th - Topic is on contesting

ARES:

Had a core group meeting.

Upcoming Public Service events - Flying Pig in May

Membership meeting on the 17th at the ROC

Crossband exercise on the 28th at 11 am. The tornados in Nashville was a big wakeup call last night.

Brunch Bunch: At Frisch's on Glenway Ave 2nd Saturday, 1:00 pm

Upcoming Events:

June 21st Youth on the Air (YOTA) - Meeting March 17th for volunteers

June 20th Milford Hamfest

Flying Pig May 1-3 -- password on website is queencityemergency

Field Day 4th, June 27-28

NVIS Day, April 25th(ish)

Old Business: Dan has report to present on Audit Committee -

Audit Committee:

Financial committee record kept in orderly and complete manner. Motion to accept by the audit committee, Fred seconded. The report has been accepted by the membership.

Bi-laws update:

During the April meeting there will be vote on the proposed changes. Changes are published in the March Q-Fiver. Other changes - Ryan realized we accidently dropped \$1000 spending limit, we added it back from what was published in the March Q-Fiver

New Business: None

Break 8:04

Cesi presented on the ISS presentation

Split the pot winner: n8jmv won \$59.50

Meeting adjourned 8:55 pm

-- Submitted by **George N3VQW**



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*.