

*PostScript*  
Ohio Section “November 21st, 2022”

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**I hope your Thanksgiving has some  
HAM in it too!**

## CQ CQ CQ de WB8LCD

Looking around for a “Thanksgiving” image that included a Ham I noticed there weren’t a lot of options available. I hope *your* Thanksgiving has a little Ham Radio fun in it! I’m thankful for all the usual “stuff” – God, Family, Country, Freedom, Friends, Opportunity, Lifestyle, etc..... But I’m especially thankful for my involvement in Amateur Radio. Most especially the people I have met through the years. Ham Radio attracts a lot of really “good” people, and by good, I mean people who I’m proud to be associated with because of all they have given back to society.

Thank you all for being out there. Thank you for answering when I call CQ. Thank you for all the ways you support your communities. And thank you for believing in the “Magic” of radio and all the good things that come along with that. Thank you for making this the Greatest Hobby in the World!



### Youth Net

**When:** The second Sunday of every month at 7:30 PM EST

**Where:** The K8IV repeater located in Kent, Ohio (EchoLink node K8BF-L) RF: 146.895 Mhz with PL 118.8

**Who:** Any licensed amateur radio operator who wishes to participate. Priority will be given to youth stations and those located in Ohio.

The purpose of this net is to encourage youth activity in amateur radio and to help new hams get more comfortable on the air.

\*\*\*Next Net is Sunday November 11<sup>th</sup>\*\*\*

If you are a young ham, in the Ohio Section or elsewhere, please check in and say “Hello”! Even if you’re far away from OHIO you can check in via Echo-Link. Echo-Link is a good tool to have, and it can be accessed from your laptop, tablet or cellphone. But there is a process to get validated to the Echo-link system. It’s simple to do, but you need to get it done before the day of the net! Go to [Introducing EchoLink](#) for more information on getting started. If you’re an “Old Guy” (a gender neutral term meaning not a youthful operator) and you have some kids, grandkids, nieces, nephews or even some neighborhood kids who you would like to give a chance to talk to other kids about Ham Radio, this might be an excellent opportunity to give

them that small nudge that could be the start of something positive they will carry with them through life!



[There Is Youth in Ham Radio \(onallbands.com\)](http://onallbands.com) Following this link will take you to an interesting article regarding Youth in Ham Radio along with links to many other resources of interest to young hams. I'm thankful for the many businesses like DX Engineering that make resources available to, and support our youth.

### **§ 97.1 Basis and purpose.**

**The rules and regulations in this part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:**

- (a) Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.**
- (b) Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.**
- (c) Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communication and technical phases of the art.**
- (d) Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.**
- (e) Continuation and extension of the amateur's unique ability to enhance international goodwill.**

Moving on to paragraph (E), this is possibly one of the most overlooked, and under reported reasons for a continued Amateur Radio service! I've been fortunate in my life to have visited many places throughout both the US and the world. I'm always on the lookout for other Ham operators wherever I've been, and it doesn't matter where I am, when I find them there is an immediate sense of fraternalism. Even in a far away place, it's nice to find a friend. Now because that is part of our "Charter" I think it puts a responsibility on us to embrace good operating practices, especially when we are working DX stations or DXpeditions. The whole world is listening!

I'll bet that even as an adult, you get as excited as I do when I get a QSL card from an ATNO and you better believe that the guy on the other side does too! Please, be courteous to the other ops out there, both on and off the air.

Altogether, these 5 "purposes for Amateur Radio" lay out our reason for existence, at least as it pertains to the FCC. It's up to us to live up to these purposes, but even if we do, it may not help us all that much if no-one sees or recognizes what we've done! We've managed to become a well-kept secret in this country. Even if not a secret, there are a lot of misconceptions as to what the Amateur Radio Service really is and what we do. We need to change that.

73,

Tom Sly - WB8LCD  
Ohio Section Manager  
[wb8lcd@arrl.org](mailto:wb8lcd@arrl.org)  
330-554-4650

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## *National News*

*(from ARRL and other sources)*

# **Combining AI and Microelectronics Might Help In Treating Various Brain Disorders**

By: [Nidhi Goyal](#) | November 4th, 2022

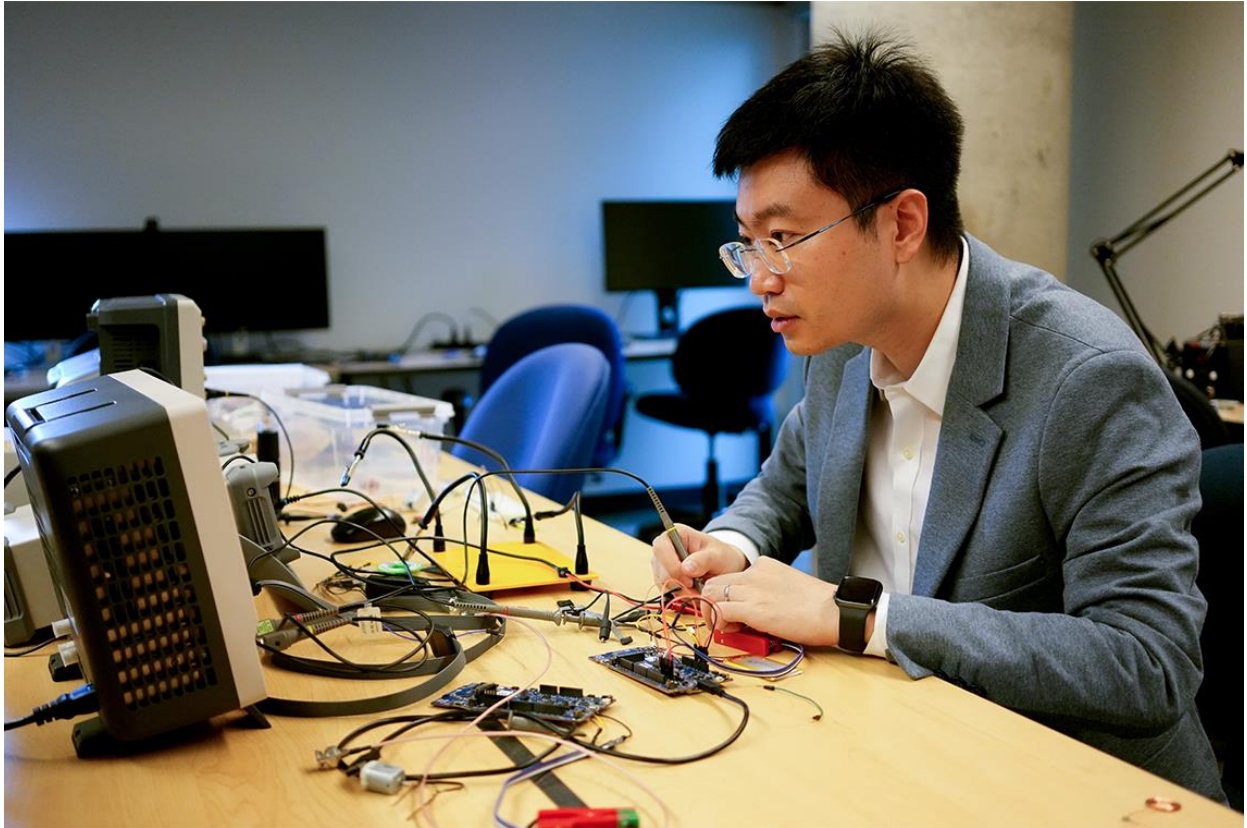


*Photo by [TheDigitalArtist](#) / CC BY*

With the advancements in the medical field, brain disorders such as epilepsy and Parkinson's disease can be treated using neural implants.

Scientists at the University of Toronto are working with microelectronics and artificial intelligence to make this innovative technology safe and effective.

Following a similar procedure that is done to manufacture chips used in computers and smartphones, researchers want to integrate neural implants into miniature silicon chips. This technology is known as a complementary metal-oxide semiconductor (CMOS). It helps in reducing the device's power requirement as well as the physical dimensions. As a result, it will help in reducing the risks related to the implant's initial surgical procedure and long-term use.



*Xilin Liu tests signal integrity of a prototype neural implant (Image by by Matthew Tierney)*

“Neurons talk to each other in part via electrical signals, and a therapeutic neural implant produces electrical stimulation – like a pacemaker for the brain,” said Xilin Liu, lead researcher and assistant professor in the Faculty of Applied Science and Engineering at the University of Toronto. “In cases of tremors or seizures, the stimulation attempts to restore the neurons to a normal condition,”

He added, “It’s as if the stimulus turns the neural networks off and on – almost like restarting a computer, though it’s definitely not that simple. Scientists don’t fully understand how it works yet.”

Liu explained that neural implants would turn the neural networks on and off just like a switch, or similar to restarting a computer. However, he added that the project is very complex and they are working to comprehend the complexity of the project.



**Nidhi Goyal** - Nidhi is a gold medalist Post Graduate in Atmospheric and Oceanic Sciences.



## EXPLORE

*A Weekly Bit of Space in Your Inbox*



## Artemis I Launches to the Moon

On Wednesday, Nov. 16, at 1:47 a.m. EST, humanity took its next big step in lunar exploration.

Our [Artemis I](#) mission kicked off this week as NASA's Space Launch System (SLS) rocket carrying the Orion spacecraft [lifted off from Launch Complex 39B](#) at the agency's Kennedy Space Center in Florida.

The launch is just the first leg of a mission in which the uncrewed Orion spacecraft is expected to travel approximately 40,000 miles beyond the Moon and return to Earth over the course of 25.5 days. Orion will stay in space longer than any human spacecraft has without docking to a space station and return home faster and hotter than ever before. (Photo below; credit NASA.)



As the first flight test of SLS, Orion, and the ground systems needed to launch them, Artemis is a critical part of NASA's Moon to Mars exploration approach. The mission serves as a test for our agency as we prepare to use the same technology to fly astronauts to the Moon on the Artemis II mission. [Future Artemis missions](#) will land humans on the lunar surface for long-term exploration and allow us to prepare for our next big leap: Mars.

Be sure to check our [Artemis blog](#) for daily updates about the mission. Also, you can follow Orion's progress at home using the Artemis Real-time Orbit Website (AROW) to track the spacecraft's flight as it happens. AROW is available on [NASA's website](#).

[Follow Our Artemis Blog](#)



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## Dayton Hamvention Announces Theme for 2023

Dayton Hamvention® 2023 is just over 6 months away, and next year's Hamvention team has selected "Innovation!" as the event theme.

The team reports that, in just one word, the theme encompasses the world of amateur radio today. "There are so many exciting 'Innovations!' worldwide in amateur radio. We want to capture the spirit, and we expect to see many of these throughout the coming year and presented at [Hamvention 2023]," said Hamvention 2023 spokesperson Michael Kalter, W8CI.

Dayton Hamvention is the largest annual amateur radio gathering in the US, and among the largest in the world. With nearly 700 volunteers, next year's event boasts more than 500 indoor exhibits and more than 2,500 outdoor exhibits. They will showcase the latest in amateur radio equipment, technology, and computer software and hardware, along with hard-to-find radio and computer accessories and equipment.



In a message to the 2022 exhibitors, Inside Exhibits Chairman Mike Berger, WD8OMX, announced on November 14 that the Hamvention online vendor portal is open to accept credit card orders for the 2023 show. There will be no price increase for vendor booths, and early bird pricing is available through March 15, 2023. Inside Exhibit vendors who had booths for the 2022 show will have until March 15 to pay for their booths in full. All booths not paid by March 15 will be made available to the public at the full rate.

ARRL is planning its large exhibit area and overall participation for the event. Hamvention is an [ARRL-sanctioned event](#).

Hamvention 2023 runs from May 19 - 21 at the Greene County Fairgrounds in Xenia, Ohio. Tickets are on sale now, and can be purchased at <https://hamvention.org/purchase-tickets>.

More information about [Hamvention 2023](#) is available on their website.

## **The Federal Emergency Management Agency (FEMA) Emergency Management Institute (EMI) has released a new online study course and exam, titled, [Preparing the Nation for Space Weather Events](#).**

The course identifier is IS-66. ARRL Director of Emergency Management Josh Johnston, KE5MHV, took the course and passed the exam. "This course provides some interesting insight into the federal government's role and response to space-weather events," Johnston said. He went on to say that the course "explains the levels of response the government uses in regard to [these] events. [It] would be a good training course for any ham to gain a better understanding of how space weather affects communications here on Earth." Johnston deemed the course useful and shared that it only takes about 2 hours to complete online. A FEMA student ID is required, and is free from the EMI website. -- *Thanks to ARES Letter Editor Rick Palm, K1CE, for the information contained in this story.*

## **Call For Instructors**

ARRL is embarking on a journey of training for club officers and members. The new club development webinar series will include live Q&A, and the live sessions will be available to everyone. The webinars will be recorded and available to ARRL members through the ARRL Learning Center. We're looking for ARRL members to help us produce, create, and deliver the webinars.

The purpose of this program is to offer a series of short webinars that offer training for the skills needed to build and run a successful club. Topics will include leadership, activities, finance, and recruiting. Envisioned is a series of 10 or more webinars, all lasting from 20 to 30 minutes.

The hope is that club officers and members will view the series as an opportunity to learn from others that have been able to put those skills to use. To do this, we need the help of membership. We're looking for instructors to help with building the training. We're also looking for members that can present in a standard format and have the skills necessary to do the training. If this sounds like something that you are interested in, please contact Mike Walters, W8ZY, at [mwalters@arrl.org](mailto:mwalters@arrl.org) for further details. We hope to start this series in late January 2023.

## ***Club Corner***

This is YOUR corner of the newsletter. Send me what your club is doing and I'll make sure that it gets in. Got a special event or club project that you want everyone to know about? Send it to me! Need help with a project? Send it to me.

Let me know what your club is up to. Are you going to have a special guest at your meeting or are



you having a special anniversary?  
Just send it to: [webmaster@arrrl-ohio.org](mailto:webmaster@arrrl-ohio.org)

**Please! Format as below:**

If you want me to publish your club information, or even an article you have written, please send it in WORD format (.docx). Please use Times New Roman font size 12 for the body of the article. Any photos please include as a .jpg or .bmp – the time you save me in doing all the conversions will be greatly appreciated.

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From thebarginhunter.com :

## Wayne Sheriff's office, 911 dispatch exercise simulates outage

• BY DAN STARCHER NOVEMBER 13, 2022



Doug Hunter

Wayne Amateur Radio Club member Eric Mast, left, and Wayne County Sheriff Sgt. Eric Peters prepare for their patrol during a recent simulated exercise where a cyber attack compromised all communications. Mast, a licensed amateur radio operator, provided communication from dispatch using his Very High Frequency radio equipment.

The Wayne County Sheriff's Office and 911 emergency dispatch recently held a simulation that included a complete voice and data communications breakdown due to a cyber attack.

Capt. Doug Hunter of the sheriff's office said the exercise was complex because the dispatch center had to remain operational while the drill played out.

"Certainly, this was a worst-case scenario, and we put some pretty strict rules in place so no caller was ever in danger or unable to receive the fastest response we are capable of," Hunter said. "If there were a severe incident, we would have terminated the exercise and resumed using our digital dispatch system."

Hunter said 911 was operating alongside the simulation in real time as dispatch personnel continued to field calls and monitor emergencies.

For law enforcement, communication is an essential part of doing business. Using the Multi-Agency Radio Communication System, each officer on duty can hear the calls and the communication between dispatch and responding officers and have a sense of what is taking place in case they are called into action.

During the simulated outage, officers had no way of communicating and had to rely on alternate methods of communication, like amateur radio.

Dispatch transmitted information to officers using Fldigi (Fast, light, digital modem). This application allows standardized documents commonly used by first responders to be sent over the air using amateur radio equipment without internet or other network protocols.

According to Hunter, during the exercise a request was made with an operator in Summit County via Fldigi to use his radio equipment to distribute an email message using a Canadian email server.

"In an emergency, amateur radio offers more than voice communication," Hunter said. "We requested the services of licensed amateur radio operators from the Wayne Amateur Radio Club with incident command training. They know how public-safety operations work. An exercise like this is done purposely so you can build those relationships. When an emergency occurs, that is not the time to learn those techniques."

Hunter said the simulation relied on volunteers making their equipment available and being present to transmit information over the amateur radio frequencies to responders on the scene.

Dispatch operator Josh Glessner said the simulation forced him and his team of dispatchers to put their best foot forward and rely heavily on teamwork to accomplish their goals.

“Previously, we used the pen and paper method, which created some issues with penmanship,” Glessner said. “For this scenario we utilized a fillable (Adobe) PDF file on our computers. Using the PDF, we are able to eliminate information that could be misconstrued due to the inability to read someone else’s writing.”

The exercise proved to be thought-provoking for Glessner.

“I really give credit to Capt. Hunter for his work in the amateur radio community locally,” he said. “But I started thinking about what other agencies are doing. What if we needed to be in contact with them or an out-of-county entity?”

Those types of questions are precisely what Hunter wanted to hear after the simulation concluded.

“This was a practice session that occurred on a Saturday morning,” Hunter said. “But what if it happened at 2 a.m.? How fast could we mobilize volunteers, get their radio system set up and be back in operation? Those are some of the areas that we will look to refine.”

*Dan Starcher is a public communications specialist for the Wayne County government.*



ATARA, All Things Amateur Radio Association participated in Freedom’s Never Free at the Fairfield County Fairgrounds. ATARA set up a display featuring radio services, amateur radio, ARISS, Morse Code, and information about ATARA’s STEM trailer. Veterans and their families, along with the general public talked with ATARA about amateur radio as they visited the various exhibits honoring our veterans. This year’s display honored 5,000 service men and women who lost their lives in service to our country since 911. During the closing ceremony, one of ATARA’s members was honored for his service and presented an American Flag.



## Want to know where to go to get the courses you need? It's all Right Here!

- [Ohio EMA Training Calendar](#)
- [Login to the DPS Training Campus](#)
- [Create a new account on the DPS Training Campus](#)

### NOTE:

- Most courses are in-person but some course may be hosted virtually (this will be noted).
- Seats available listed are as of the release of this update and will change quickly.
- All classes will be posted on the DPS training campus at least 60 days prior to the start of the course.
- Please read the [Training Policy & Catalog](#) for more information on Ohio EMA trainings.

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## How to Plan and Apply for an ARRL Hamfest or Convention

If your amateur radio club is planning to host a convention, hamfest, tailgate, or swapfest, please consider applying for ARRL sanctioned status for your event. To learn what it means to be an ARRL sanctioned event, and to get some ideas on how to prepare for and conduct a hamfest or convention, visit [www.arrl.org/arrl-sanctioned-events](http://www.arrl.org/arrl-sanctioned-events).

To apply for ARRL sanctioned status for your event, go to [www.arrl.org/hamfest-convention-application](http://www.arrl.org/hamfest-convention-application).

The ARRL Hamfests and Conventions Calendar can be found online at [www.arrl.org/hamfests](http://www.arrl.org/hamfests). In addition, the Convention and Hamfest Calendar that runs in *QST* each month also presents information about upcoming events.

## Go Fully Electronic in 2023!

By Maria Somma, AB1FM, ARRL VEC Manager

### **Online Examinations and Remote Testing**

Your club's VE team can become part of the fun and excitement of remotely administered Online Examinations.



The remote exam sessions are conducted using an online video conferencing platform and a web-based examination system with on-screen tests. ARRL VE teams have had the option to be completely electronic since June 2020 by using online exams. The online exams can also be utilized at in-person sessions automating most of the process, for a fully electronic in-person session experience.

VE teams have been using the [Exam.Tools](#) Online Examination system for remote video and in-person sessions. Over 25,000 applicants have been tested through the Online Examinations system in the past two years. The system works well for online or printed examinations and includes registering and tracking candidates throughout the session, on screen exams and grading, online signing of CSCE and 605 forms by the candidate and examiners, logging and compiling session stats and VE participation list (test report summary), and output files for upload to the coordinating VEC. The program manages and handles almost everything needed to conduct a test session. Time and experience with in-person exam sessions is invaluable when transitioning to remote video-supervised online exam sessions.

Interested ARRL VE teams must contact the [VEC department](#) to receive the online exams instructions and remote video session procedures.

Not a VE? Become one today!

Visit <http://www.arrl.org/become-an-arrl-ve>

### **Electronically File Exam Session Documents for Quicker Service**

After the session has concluded, VE teams can upload in-person documents or remote video session files via ARRL VEC's secure web page (program service option since 2018).

New and upgraded licenses are issued within 1 to 2 business days for weekend sessions and are usually issued on the same day for weekday sessions.

Please contact the [VEC department](#) for the information and instructions on electronically filing exam session documents through our upload page. Authorized VEs will be sent the upload page URL which, is hidden from the public.



## Resources for ARRL VEs

The [ARRL VEC VE Resources](#) page offers the information you will need to help conduct exam session business. Our support page offers easy access to session forms and information, online examinations, remote video session instructions, VE Manual supplemental information, FCC rules, basic qualification question procedures, and much more. There is also some helpful information for the community, such as preparation resources for candidates, in-person and remote video exam session search, vanity call sign information, and more.

The ARRL VE Newsletter relays important updates relating to FCC rule or policy changes, exam session document or procedural changes, video sessions, and other topics. VEs can sign up for the newsletter at <https://reflector.arrl.org/mailman/listinfo/ve-list>

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## VE Sessions

**All Things Amateur Radio Association (ATARA)** We host testing sessions every second Tuesday of the month in Lancaster. To sign up please visit our website <https://atara-w8atr.fun> and contact us at [hamexams@atara-w8atr.fun](mailto:hamexams@atara-w8atr.fun).

### **CARS**

VE testing from CARS - Cuyahoga Amateur Radio Society - at Elmwood Recreation Center, 6200 Wisnieski Parkway in Independence, Ohio 44131 Time: 9:15 AM (Walk-ins allowed) Always the 2nd Sunday of the odd month. Go to CARS [www.2cars.org](http://www.2cars.org) for detailed map of location. Call Metro W8MET 216-520-1320 for details

### **Dayton Amateur Radio Association (DARA)**

If you are interested in testing for a new or upgraded license, please come see us at the DARA Clubhouse. If you have questions about testing, please email [exams.w8bi@gmail.com](mailto:exams.w8bi@gmail.com)

### **Huber Heights Amateur Radio Club**

Huber heights amateur radio club does ARRL VE testing the second Saturday of each even numbered month. Feb, Apr, Jun, Aug, Oct, Dec. 9:30-11:00 For more information contact Jim Storms – AB8YK at [ab8yk@hotmail.com](mailto:ab8yk@hotmail.com)

### **The Lake County Amateur Radio Association**

The Lake County Amateur Radio Association is once again holding its **2022** Amateur Radio license exams at the **Kirtland Library**, 9267 Chillicothe Road, on the following dates: Saturday, October 1, and December 3.

The tests will start at **12 noon**. Please arrive a few minutes earlier.

**The Lancaster and Fairfield County Amateur Radio Club (LFCARC)** hosts exam sessions at the FAIRFIELD County EMA, 240 Baldwin Dr in Lancaster Ohio, 43130, on the first Saturday each month at 10:00 am. Please visit our website at <http://www.k8qjk.org> for exam dates on our calendar and navigate to our Learning Center/Taking the Exam link for information and requirements. Our experienced VE team looks forward to serving the Amateur Radio community in Central Ohio. Contact me at [ve\\_testing@k8qjk.org](mailto:ve_testing@k8qjk.org) to register.

**The Milford Amateur Radio Club (MARC)** is now doing VE testing on the third Thursday of each month at 6:00 PM. Location; Miami Township Civic Center located at 6101 Meijer Drive, Milford, OH 45150.

Please pre-register at [www.milfordhamradio.org](http://www.milfordhamradio.org)

### **Northern Ohio Amateur Radio Society (NOARS)**

VE sessions are held the first Saturday of odd-numbered months at 10 AM in the North Olmsted Library, 27403 Lorain Rd., North Olmsted. Registration is preferred, but walk-ins are welcome. For more information or to register, contact Elaine, KC8FOS at [ewilkinson1951@gmail.com](mailto:ewilkinson1951@gmail.com).

### **Portage County Amateur Radio Service (PCARS)**

The first Saturday of every even numbered month -10 am – at the PCARS club site in Ravenna. Please visit the PCARS web site and check out the information about VE testing in the latest newsletter at [www.portcars.org](http://www.portcars.org) .

If you have any questions, don't hesitate to contact me at [KB8UUZ@gmail.com](mailto:KB8UUZ@gmail.com)

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## **Your Club news should be listed here!**

I know you're out there doing things! Send me a write-up (MSWord please) and some photo's (.jpg please) and we'll get your club hi-lited here for the other OH Section Clubs to see! Send to [WB8LCD@ARRL.ORG](mailto:WB8LCD@ARRL.ORG)

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## DX This Week – CQWW CW

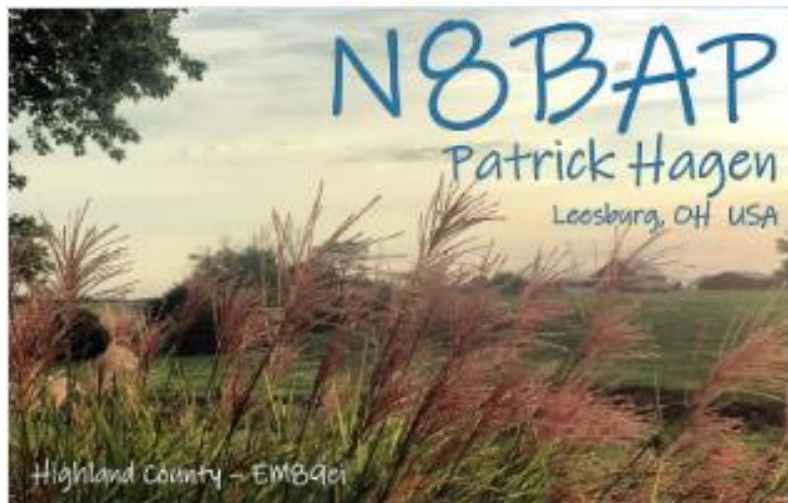
Bill AJ8B (aj8b@arrl.net, @AJ8B, or www.aj8b.com)  
CWOPs Member #1567



We are getting closer to better band conditions every day. Not this it is bad, but for those of us who have been around for more than one solar cycle, we know the best is yet to come. For instance, I remember working Russian oblasts (provinces) well into the early morning on 20 meters. The band did not close, it just changed. In 1981, Uncle Frank and I converted CB radios to 10 meters and worked into Europe on a regular basis. I have a QSL card from JA1ETH for a QSO on 10 from my car with that same radio. It wasn't common, but it wasn't rare!

If you are new to DX or if you are a guru, I need a favor. I am working on a project, and I need input. What would you like to learn more about? What facet of DXing do you need to brush up on? More details on this new project later, but please keep me in the loop.

This week we will review 160M. I first put something up on this band in 2017 and have been enjoying it ever since. I know you think that you need hundreds of feet of open ground etc., but you don't! If you have a circle that is 60 feet in diameter, you can put up a very effective 160M vertical, 27 feet tall! Email me for details.



I worked N8BAP, Patrick, a while ago and finally sent him a QSL card. He responded with the card below. Pat is a great guy and a solid operator.

Have a great week and a restful Thanksgiving week.

DAH DIT DIT DIT DAH DAH DIT DIT DIT DAH

Two years ago, I published an article about the K6MM Helically Wound Vertical. I have had solid success with it and hope that others are exploring 160M. I started with an inverted “L” six years ago and became really fascinated with 160M.

I have seen many 160M spots recently and have heard some good DX on so I thought it would be a good time for a 160M refresher! Who better to turn to than our 160M guru, K9LA – Carl.

I am reprinting his article that first appeared in the November 2006 issue of CQ with Carl’s permission.

**An Introduction to Operating on 160m** - Operating on 160 has always been a challenge. Two of the biggest challenges are the physical size of efficient antennas and noise when receiving. The purpose of this article is to provide appropriate information to address these two challenges, along with general information about other issues necessary to get your feet wet on topband (also known as the Gentleman’s Band).

**A Short History of 160m** - The 160m band has been around for a long time. In the First Edition of the Radio Amateur’s Handbook (1926, published by the ARRL), Amateurs had an allocation from 150 meters to 200 meters in wavelength (that’s 2 MHz down to 1.5 MHz). Due to AM broadcast stations and other services, the 160m band was eventually narrowed up to 1.8 to 2.0 MHz

Because of LORAN issues (LORAN is a radio location service), there have been power and frequency restrictions over the years. For example, during my early years in Amateur Radio in northwest Indiana (early 1960s) I could only operate from 1800 to 1825 KHz with a maximum power of 200 W during the day and 50 W during the night. There were similar restrictions in other areas of the country.

Nowadays those of us in the US can operate anywhere from 1.8 to 2.0 MHz at up to 1500 W PEP output. Of course, you should always strive to use the minimum power to make the QSO.

The first order of business for an introduction to 160m is to look at the band plan for 160m ñ what frequencies should we use for CW, what frequencies should we use for SSB, what frequencies should we use for AM, etc.

**160m Band Plan** - Unlike our HF bands, the FCC (Federal Communications Commission) does not regulate 160m with respect to band segmentation by mode. Legally any mode can operate anywhere. But obviously this could cause (and has caused) conflicts.

To impart order to this issue, a Gentleman’s Agreement band plan was developed by an ARRL Ad Hoc committee with input from users of 160m. The recommended band plan is shown in Table 1. You are strongly encouraged to adhere to this plan. A little cooperation among fellow Amateurs can go a long way!

1.800 - 2.000	CW
1.800 - 1.810	Digital Modes
1.810	CW QRP
1.843-2.000	SSB, SSTV and other wideband modes

1.910	SSB QRP
1.995 - 2.000	Experimental
1.999 - 2.000	Beacons

**Table 1 160m Band Plan**

With the band plan outlined, a couple comments on where activities take place is in order. Rag chewing on 160m starts around 1.843 MHz and extends all the way up to 2.0 MHz. There is a lot of spectrum above 1.9 MHz that is relatively lightly used, so you might want to consider moving up there for your rag chewing activities. AM aficionados hang out around 1.885 MHz, and my efforts with my Viking Ranger II and Drake 2B with a homebrew converter). Finally, most DXing on 160m outside of contests is done on CW in the lower 35 KHz or so of the band. If you want to work DX on 160m, knowing code is almost a must due to CW is inherent weak signal advantage over SSB and the CW bandwidth letting in less noise (more on this latter aspect in a bit).

Since LSB (lower side band) is normally used on 160m, note that 1.843 MHz refers to the carrier frequency for LSB. The intent here is to keep the side bands at 1.840 MHz and above (since the bandwidth of an SSB signal is about 3 KHz). And there is no segmentation by license class ñ General, Advanced, and Extra class licenses have equal access to the entire band.

**When Is 160m Good?** - Now that we know where we should operate in the 160m band, the next issue to address is when should we operate, that is, when is 160m good?

If your interest is only for local QSOs (rag chewing, nets, etc.), then 160m is good anytime, day or night, summer or winter. And where we are in a solar cycle won't matter, either.

If your interest in 160m is DXing, then there are times, seasons, and phases of a sunspot cycle when 160m is best. Due to excessive daytime D region absorption, 160m is useful for DXing when the path is in darkness or very near darkness. Because of geomagnetic field activity considerations, 160m is best during the winter months and from solar minimum to a couple years thereafter. The latter portion of the previous sentence says now is the time to get on 160m if you're pursuing DXCC or WAZ. We are at solar minimum between Cycles 23 and 24, and the next couple of winter seasons (2006-2007, 2007-2008, and possibly 2008-2009) should offer excellent opportunities for the DX minded.

**Simple Transmitting Antennas** - As stated in the introduction to this article, the first biggest challenge for operating on 160m is the physical size of an efficient transmitting antenna. The length of a half wavelength dipole at 1.85 MHz is approximately 253 feet (each side would be about 127 feet). That's quite a bit of a horizontal span for those on small lots.

An easy way to overcome this horizontal span requirement is to make the dipole into an inverted vee. For example, the top of a 50-foot tower or 50-foot support could be used as the center point for the inverted-vee. The sloping portion of each side of the inverted vee could be approximately 70 feet, with the remaining 57 feet running horizontal to the ground and even snaked around a bit to fit the lot. Figure 1 shows this configuration. This would make an

excellent antenna for local activity on 160m (but don't be surprised if you work DX with it ñ the ionosphere can be the great equalizer among different stations).

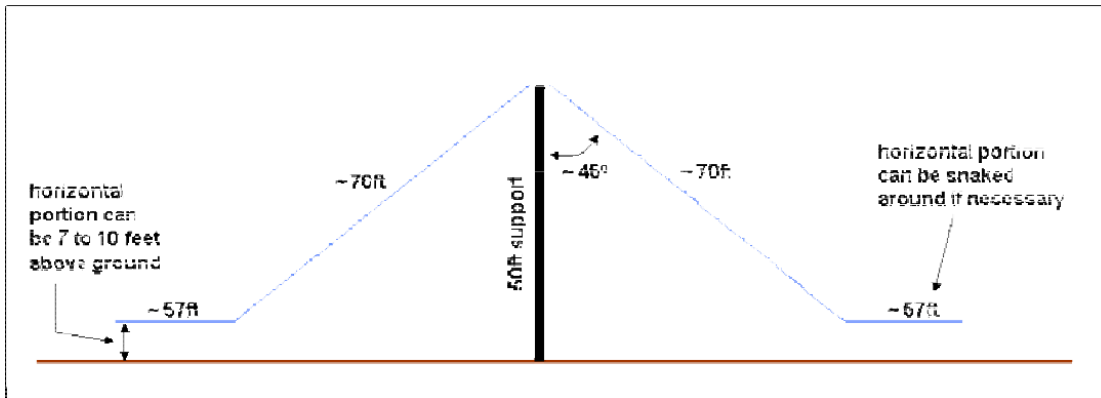


Figure 1 - Inverted Vee Installation

If your interest is DXing, generally you'll want an antenna that puts more of its energy at the lower elevation angles. Perhaps the simplest antenna to fit this bill is the inverted-L. The total radiator length needed would only be about 127 feet, as this is essentially a vertical antenna operated against ground. A tree could be used to support the vertical portion of the inverted-L, with the remaining length (127 feet minus the vertical portion) sloping down to a convenient support.

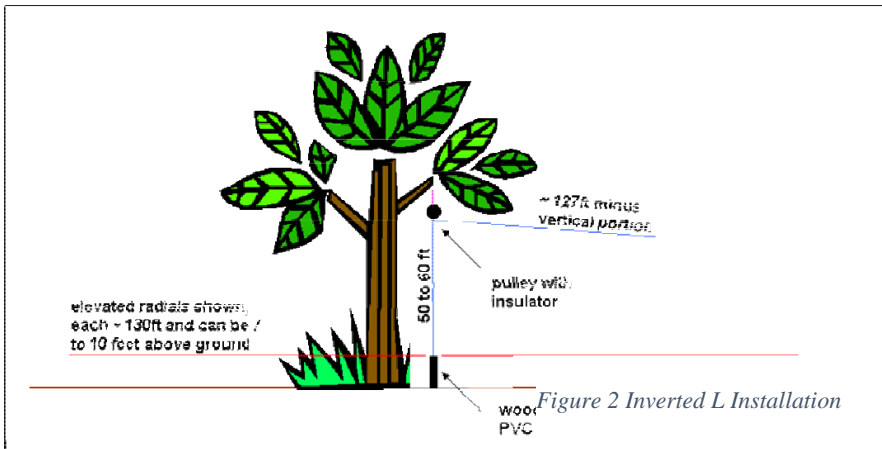


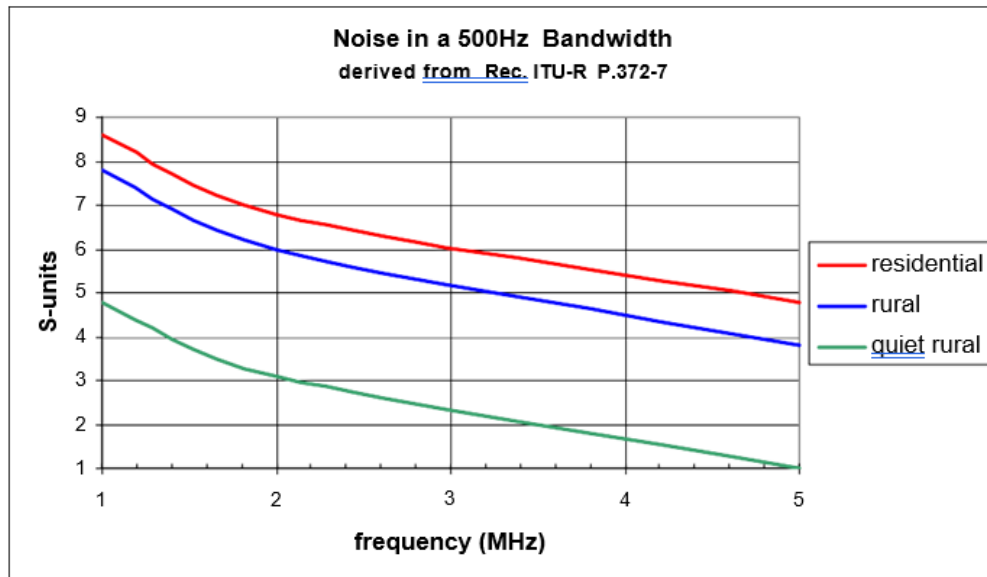
Figure 2 Inverted L Installation

Figure 2 shows this configuration using a tree for the support. Either buried radials, radials lying on the ground, or elevated radials could be used to provide the ground image for this antenna.

Figure 2 is what I use on 160m, with a pulley in a nice tall tree anchoring the vertical portion and six elevated radials at about 7 feet to keep the deer from running into them.

**Noise** - The second biggest challenge noted in the opening paragraph (mostly affecting those interested in DXing) is noise and its impact on the ability to hear weak signals. There are two sources of noise that make receiving on 160m difficult: man-made noise (machinery, appliances, lights, and so forth) and atmospheric noise (static from lightning

discharges propagating into your QTH). Figure 3 shows the magnitude of the noise problem (from data in the International Telecommunications Union document Rec. ITU-R P.372-7)



The three curves in Figure 3 are the expected noise from a short monopole antenna in a CW bandwidth (500Hz) in terms of S-units for three noise environments: residential, rural, and a quiet rural area. This plot should be used as a ballpark guideline, as your mileage may vary according to your specific local conditions. I would expect the noise received by the inverted-L in Figure 2 to roughly agree with the short monopole data in Figure 3, with the inverted-vee of Figure 1 maybe a bit better due to some directivity (see the next section). For the data in Figure 3, I assumed S9 was -73 dBm (50 microvolts) and an S- unit was 5 dB (based on my measurements, this is typical of current receivers).

In a residential area, the expected noise on 160m in a CW bandwidth is around S7. Wow! Even moving to a rural area only knocks this down to S6. Heading out into the country puts the noise at S3. That S3 value is the level of noise in a CW bandwidth on my OMNI VI Plus using my inverted-L.

The S3 value doesn't sound like much but remember that the noise floor of a modern receiver is around -130 dBm. Using a signal generator, the S3 value on my OMNI VI translates to about -103 dBm. Thus, I am giving up almost 30 dB of hear-ability, which is the difference between my external noise level and my receiver's noise floor when using my inverted-L for receive.

Be aware that the data in Figure 3 assumes you don't have a particularly troublesome local man-made noise source that masks everything else (for example, a noisy utility line). If you do, then you have your work cut out to eliminate it. On a personal note, the most interesting noise source I've had to find, and resolve was an electric blanket used by our neighbors to keep their cat warm.

**Simple Receiving Antennas-** When you first start out on 160m, you'll probably use your transmit antenna for receive. As you progress with your 160m activities, you may need to work

weaker signals that are at or even below the noise level resulting from using your transmit antenna.

This is where low noise receiving antennas come into play. Regardless of the category of the low-noise antenna, they all work on the same principle – increase the directivity of the antenna (make front-to-back and front-to-side ratios larger) to reduce the total amount of noise being received from around the compass. This assumes the arriving noise is not a localized source as mentioned in the previous section. And if there is a noise source in the direction you want to receive, you have a real problem.

The improvement in hear-ability for a given low-noise receiving antenna will generally follow the narrowness of the pattern – a narrower pattern will let less noise into your receiver and lower your noise level, and thus will thus allow you to hear closer to your receiver's noise floor. From this consideration, we can make a first-order list of how effective some of the common low-noise receiving antennas will be. In order of least effective to most effective, they are:

Short Beverage (80m long)

Elongated terminated loops (EWE, Flag, K9AY, etc) Standard Beverage (160m long)

4-Square (quarter wavelength spacing) Long Beverage (300m long)

Remember that new layers of DX may be heard with noise reductions of as little as 3 db. So, don't rule out the antennas in the first two categories. Even though they are small, they will probably fit on almost any lot. And they might just make the difference for you in making a QSO.

If your only problem is that of a troublesome localized noise source mentioned earlier that defies elimination, consider using a small loop antenna to null out that direction.

**Propagation and Predictions** - If we look at worldwide electron densities, we'll see that the ionosphere always has enough ionization to refract 160m back to Earth for multi-hop propagation – even during the dead of night at solar minimum. Thus, the problem on 160m is not with the MUF (maximum usable frequency), it is with the amount of absorption and the resulting signal strength. This was the basic premise mentioned previously in the When Is 160m Good? section – due to absorption, the best place for 160m RF is in the dark ionosphere.

Now if you've used propagation predictions on our HF bands, you've probably noticed that most of them do not include 160m. There's a very good reason for this because of the impact of the Earth's magnetic field on three basic propagation parameters. With 160m being so close to the electron gyro-frequency, the magnitude of the magnetic field and the direction of propagation with respect to the direction of the magnetic field modify the amount of absorption incurred, the amount of refraction incurred, and the polarization of the wave(s). This can get very complicated very quickly over long paths, and the proper way to address this rigorously is with full-blown ray tracing software.

Over the years there have been several studies by 160m enthusiasts to come up with a simple method to predict whether 160m is going to be good on a given night. These studies have usually been based on solar flux and K or A indices. These efforts have not met with



much success, as they do not consider all the variables that appear to be involved with propagation on 160m especially events that happen in the lower ionosphere to enable ducting mechanisms and reduce absorption. In general, a quiet geomagnetic field seems to be a requisite, but it doesn't appear to be the only requisite.

This all comes down to two simple pieces of advice with respect to propagation on 160m:

1. Use the excellent mapping feature in many of our propagation prediction programs to determine the best times for 160m propagation over the desired path with respect to darkness along the path. Pay attention to sunrise and sunset times at your QTH and at the other end of the path for possible signal strength enhancements.
2. Get on the band to check it out in real-time. Watching DX Cluster spots also helps to get a real-time assessment.

## DAH DIT DIT DIT DAH DAH DIT DIT DIT DAH

Here is an update from Bernie, W3UR, of the DailyDX and the WeeklyDX, the best source for DX information. <http://www.dailydx.com/> . Bernie has this to report:

**3Y - Bouvet Island** - "We have updated our bandplan <https://www.3y0j.no/bandplan> ", says 3Y0J Co-leader, LA7GIA, Ken Opskar. The 3Y0J operators will "work closely together with [their] pilots and if "something is not working, [they] will do adjustments. Ken says they will be on CW only on Topband and CW and SSB on 80 meters, as there will be no FT8 on 160 or 80 meters. The team has received special permission to run 1500 watts on CW and SSB. On the traditional bands they will "always keep lowest 10 kHz" and "lowest 5 kHz" on the WARC-79 bands "clear to allow regular DX traffic". They will be operating split listening up to 15 KHz on CW and up to 30 KHz. On RTTY they will be on one or two bands operating on 14.125 and 21.125 MHz "CW/SSB will have priority over digital modes", says Ken.

When 3Y0J is operating on FT8 they will be only operating Fox and Hound running up to four stations running 100 watts QRV 24/7. "The 4 FT8 stations can be controlled by 1 operator, or each FT8 station can be controlled individually by an operator running SSB/CW (SO2R) mode", says Ken. Activity on FT8 will be on 7 through 28 MHz Their FT8/RTTY frequencies were chosen to give them "better in band separation, and also so to avoid the most public frequencies that might be occupied by others DX-peditions in F/H mode". They want to operate 5 MHz, but 60-meter activity is not a priority. The 3Y0J team have updated their 60-meter frequencies which is expected during the end of the DXpedition. The Bouvet Island DXpedition team have been in communications with the upcoming Crozet Island DXpedition team and have agreed F6CUK, Thierry will operate FT8 on 10.131 MHz, while the 3Y0J team will be on

10.140 MHz Ken reports, "We are in the process of updating our station system diagram that will reflect the possible camp build up, ie how we plan to build the camp step by step."

**D4 - Cape Verde Islands** - DF2WO, Harald, is heading back to Cabo Verde where he will be QRV as D44TWO starting January 3, 2023. He'll have a Yaesu FT-991A. Antennas will be a 10-meter vertical, two 28-meter dipoles and a Skypper for 10 and 6 meters. He will also be on QO-100. Listen for him on SSB, CW, FT8 and FT4 on all bands. Harald will be there through January 24. QSL via M0OXO.

**T33 - Banaba Island** - DF6FK says T33BA will be DL2ZAD, Judith (YL); T33BB will be himself. They will have two transceivers running "the US legal limit" of 1.5 KW, with a beam for 20-10M and verticals for 80, 40 and 30, and one for 160 if the pole for it arrives in time; otherwise it will be a dipole. The modes are SSB and CW, and they do not plan any 60M operation. QSL direct or bureau to DF6FK, no Club Log, no LoTW. They do not expect to have an internet connection on the island and ask that we do not send any QSL cards before the end of January.

**A3 - Tonga** - After the earthquake near Tonga, the A35GC operators are reportedly okay and back on the air. They were operating on 10.115 CW when they went QRT and moved inland due to the threat of a tsunami, but now all is back to normal it seems. The earthquake was magnitude 7.5 and affected Niue and Tonga. A35GC operator LZ1GC, Stan, says they took refuge in the office of the QTH owner, who took them by car to that safe place, on one of the highest points on the island. The earthquake was strong, lasting a few minutes. The break in the operating was for a few hours. The biggest problem is QRN on the bands, S7-9. So, the ops are completely safe but are short of sleep, getting only about three hours per day!

**J8 - St. Vincent** - J8/AJ4YX by PA2LO, Gert, is planned for February 11-21. He has other commitments while there but will get on when he can. The February 11-12 weekend is the Dutch PACC Contest and the next weekend, February 18-19, is the ARRL DX CW contest, so he will get on for both of those, "to give out the multiplier." Other days he will be mostly on FT8 and SSB. The station is a K3S to verticals and dipole near the edge of the sea. He'll be on 80-10 SSB, CW and FT8 F/H. He prefers a QSL through Club Log OQRS, with bureau also acceptable, through OQRS. If direct to his home call, PA2LO, including SASE/SAE with sufficient funds for postage. No IRCs and do not send your card to his US address.

**JD1/M - Minami Torishima** - JG8NQJ/JD1, Take, is here until mid-December. He has a 160-meter antenna, which needs to be removed by the end of the month. His other antennas currently allow operations on 160, 40, 30, 17, 15, 10 and 6 Meters. He is mainly active on CW but can operate some FT8. QSL via JA8CJY.

## DAH DIT DIT DIT DAH DAH DIT DIT DIT DAH

# CONTEST CORNER

Below is a list of upcoming contests in the “Contest Corner”. I think this is important for someone who is trying to move up the DXCC ladder since entities that are on the rarer side and easiest to work in contests. Some of my best “catches” have been on the Sunday afternoon of a contest when the rarer entities are begging for QSOs. Of course, the gamble is that if you wait until Sunday, conditions may change, or they simply won’t be workable. However, it is not a bad gamble. Of course, why not work the contest and have some fun!

Check out the WA7BNM Contest Calendar page

(<https://www.contestcalendar.com/>) and CQ Magazine for more contests or more details. I also have a comprehensive list that can be imported to your calendar at [www.aj8b.com/files](http://www.aj8b.com/files)

The contests in **red** are those that I plan to spend some significant participation time on. PLEASE let me know if you are working contests and how you fared.

Thanks!

Date(s)	Event	Info
Nov. 24	RSGB Autumn Series, CW	<a href="https://bit.ly/31qpcJl">https://bit.ly/31qpcJl</a>
<b>Nov. 26-27</b>	<b>CQWW DX CW Contest</b>	<a href="http://www.cqww.com/index.htm">www.cqww.com/index.htm</a>
Nov. 28	RSGB FT4 Contest Series	<a href="https://bit.ly/31qpcJl">https://bit.ly/31qpcJl</a>
<b>Nov. 30</b>	<b>UKEICC 80 Meter Contest CW</b>	<a href="https://ukeicc.com/80m-rules.php">https://ukeicc.com/80m-rules.php</a>
Dec. 1	QRP ARCI Top Band Sprint	<a href="http://www.qrparci.org/contests">www.qrparci.org/contests</a>
<b>Dec. 2-4</b>	<b>ARRL 160-Meter Contest</b>	<a href="http://www.arrl.org/160-meter">www.arrl.org/160-meter</a>
Dec. 3-4	PRO CW Contest	<a href="http://www.procontestclub.ro/PCC%20Rules.html">www.procontestclub.ro/PCC%20Rules.html</a>
Dec. 3-4	FT Roundup	<a href="http://www.rttycontesting.com/ft-roundup/rules">www.rttycontesting.com/ft-roundup/rules</a>
Dec. 7	VHF-UHF FT8 Activity	<a href="http://www.ft8activity.eu/index.php/en">www.ft8activity.eu/index.php/en</a>
Dec. 10-11	ARRL 10M Contest	<a href="http://www.arrl.org/10-meter">www.arrl.org/10-meter</a>
Dec. 10-12	PODXS070 Club Triple Play Low Band Sprint	<a href="http://bit.ly/2Cq2yUA">http://bit.ly/2Cq2yUA</a>
Dec. 11	CQC Great Colorado Snowshoe Run	<a href="http://www.coloradoqrclub.org/contests/snow.htm">www.coloradoqrclub.org/contests/snow.htm</a>
Dec. 11	QRP ARCI Holiday Spirits Homebrew Sprint	<a href="http://www.qrparci.org/contests">www.qrparci.org/contests</a>
Dec. 14	VHF-UHF FT8 Activity	<a href="http://www.ft8activity.eu/index.php/en">www.ft8activity.eu/index.php/en</a>
Dec. 16	AGB Party Contest	<a href="http://ev5agb.com/contest/contests_e.htm">http://ev5agb.com/contest/contests_e.htm</a>
Dec. 17	RAC Winter Contest	<a href="http://www.rac.ca/contesting-results">www.rac.ca/contesting-results</a>
Dec. 17-18	Croatian CW Contest	<a href="http://www.9acw.org/index.php/rules/english">www.9acw.org/index.php/rules/english</a>
Dec. 17-18	OK DX RTTY Contest	<a href="http://www.crk.cz/ENG/DXCONTE">www.crk.cz/ENG/DXCONTE</a>
<b>Dec. 17-18</b>	<b>Stew Perry Topband Challenge</b>	<a href="http://www.kkn.net/stew/stew_rules.html">www.kkn.net/stew/stew_rules.html</a>

Dec. 18	ARRL Rookie Roundup, CW	<a href="http://www.arrl.org/rookie-roundup">www.arrl.org/rookie-roundup</a>
Dec. 21	VHF-UHF FT8 Activity	<a href="http://www.ft8activity.eu/index.php/en">www.ft8activity.eu/index.php/en</a>
Dec. 25	RAEM Contest	<a href="https://raem.srr.ru/rules">https://raem.srr.ru/rules</a>
Dec. 26	DARC Xmas Contest	<a href="https://www.darc.de/?id=820">https://www.darc.de/?id=820</a>
Dec. 30	YOTA Contest	<a href="http://www.ham-yota.com/contest">www.ham-yota.com/contest</a>
Dec. 31- Jan. 1	Bogor Old and New Contest	<a href="https://contest.orari-bogor.org">https://contest.orari-bogor.org</a>

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## ARLD046 DX news

This week's bulletin was made possible with information provided by AA3B, PY2KP, The Daily DX, the OPDX Bulletin, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

RODRIGUES ISLAND, 3B9. Kazu, M0CFW will be QRV as 3B9/M0CFW from November 20 to 30. Activity will be on the HF bands. He will be active as 3B9KW in the upcoming CQ World Wide DX CW contest. QSL via LoTW.

GEORGIA, 4L. Alex, K6VHF is QRV as 4L1FP until November 27. Activity is on 80 to 10 meters using CW, SSB, and FT8. QSL to home call.

MADAGASCAR, 5R. Operators PA3EWP, DL2AWG, DK2AMM, PG5M, and PA5X will be QRV as 5R8WP, 5R8WG, 5R8MM, 5R8CG, and 5R8PA, respectively, from Nosy Be Island, IOTA AF-057, from November 22 to December 3. Activity will be on 160 to 6 meters using CW, SSB, RTTY, and FT8 with two stations active. QSL via DL2AWG.

TOGO, 5V. Andy, KB9IJI is QRV as 5V7JA. Activity is in his spare time on the HF bands using SSB and various digital modes. QSL via operator's instructions.

WEST MALAYSIA, 9M2. Special event station 9M100SK is QRV until December 31 in celebration of the 100th anniversary of Kedah Scouts. Activity is on 80 to 10 meters using SSB, CW, and various digital modes. QSL direct to 9W2TXL.

HAITI, HH. Members of the Haitian Radio Club are QRV with special call sign HH18NOV until November 27 to commemorate the 1803 Battle of Vertieres. QSL via N2OO.

AMERICAN SAMOA, KH8. Bob, W7YAQ and Al, K7AR are QRV as K8H from Pago Pago, IOTA OC-045, until December 1. Activity is on 160 to 6 meters using CW and SSB. This includes being a Multi/Single entry in the upcoming CQ World Wide DX CW contest. QSL via W7YAQ.

BRAZIL, PY. Special event station PV22CUP will be QRV from November 19 to December 18 during the 22nd FIFA World Championship being held in Qatar. QSL via LoTW.

CORSICA, TK. Operators S53BB, S53CC, S53F, S53MM, S53RM, S53WW, S53ZO, S55OO, S57AL, S57C, S57K, S57L and S57VW will be QRV as TK/home calls from November 21 to 29. Activity will be on 160 to 2 meters using CW, SSB, and various digital modes. They will be active as TK0C as a Multi/2 entry in the upcoming CQ World Wide DX CW contest. QSL TK0C via LoTW and all others to home calls.

CENTRAL AFRICAN REPUBLIC, TL. A group of operators are QRV as TL8AA and TL8ZZ until November 26. Activity is on 160 to 6 meters using CW, SSB, RTTY, and with FT8 in DXpedition mode, respectively. QSL direct to I2YSB.

BENIN, TY. Tapani, OH5BM, Pekka, OH2TA, and Timo, OH5LLR will be QRV as TY5AF from the village Grand Popo from November 22 to 29. Activity will be on the HF bands using all modes. This includes being an entry in the upcoming CQ World Wide DX CW contest. QSL via LoTW.

ANTIGUA AND BARBUDA, V2. Bud, AA3B will be QRV as V26K from Antigua from November 22 to 28. Activity will be on the HF bands using primarily CW. This includes being a Single Op/All Band/Low Power entry in the upcoming CQ World Wide DX CW contest. QSL direct to home call.

BRUNEI DARUSSALAM, V8. Didier, F5NPV is now QRV as V85NPV from the capital city Bandar Seri Begawan and here for a few years. QSL via LoTW.

KOSOVO, Z6. Henning, OZ2I will be QRV as Z68EE from November 24 to 30. This includes being an entry in the upcoming CQ World Wide DX CW contest. QSL via LoTW.

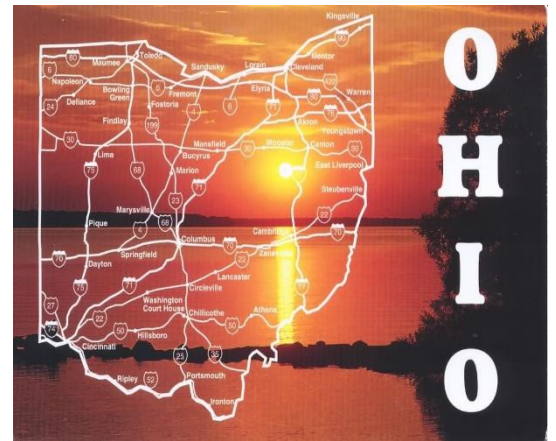
ST. HELENA, ZD7. Christopher, HB9FIY is QRV as ZD7CA until November 26. Activity is in his spare time on 40 to 10 meters using SSB, PSK31, and RTTY. QSL via EA5GL.

The K1USN Slow Speed CW Test, ICWC Medium Speed CW Test, OK1WC CW Memorial, Worldwide Sideband Activity Contest, SKCC CW Sprint, QRP 160-Meter CW Fox Hunt, Phone Weekly Test, A1Club AWT, CWops CW Test, Mini-Test CW 40 and Mini-Test CW 80 are all on tap for November 21 to 23.

Please see November QST, page 77, and the ARRL and WA7BNM Contest web sites for details.

## Upcoming *Hamfests*

We **DO** have some hamfests scheduled for 2022!! Yes, take a good look at the list. And YES! They are starting to book up for 2023 already!



## 2022 & 2023

12/03/2022 - [FCARC WinterFest](#)

**Location:** Archbold, OH

**Sponsor:** Fulton County Amateur Radio Club

**Website:** <https://k8bxq.org/hamfest>

[Learn More](#)

**2022 is Done! I hope you made it to a Fest or two. We had some pretty good ones and I anticipate 2023 only getting better! Hope to see you next year.**

<p><b>01/15/2023 - <a href="#">Sunday Creek Amateur Radio Federation Hamfest</a></b>  <b>Location:</b> Shade, OH  <b>Sponsor:</b> Sunday Creek Amateur Radio Federation  <b>Website:</b> <a href="#">QRZ KC8AAV</a>  <a href="#">Learn More</a></p>	<p><b>03/11/2023 - <a href="#">MOVARC Hamfest</a></b>  <b>Location:</b> Bidwell, OH 45614, OH  <b>Sponsor:</b> Mid-Ohio Valley Amateur Radio Club  <a href="#">Learn More</a></p>
<p><b>05/13/2023 - 05/17/2023</b>  <b><a href="#">RV Radio Network</a></b>  <b>Location:</b> Berlin, Ohio, OH  <b>Type:</b> ARRL Operating Specialty Convention  <b>Sponsor:</b> RV Radio Network  <a href="#">Learn More</a></p>	<p><b>05/19/2023 - 05/21/2023</b>  <b><a href="#">Dayton Hamvention</a></b>  <b>Location:</b> Xenia, OH  <b>Type:</b> ARRL Hamfest  <b>Sponsor:</b> Dayton Amateur Radio Association  <b>Website:</b> <a href="http://Hamvention.org">http://Hamvention.org</a>  <a href="#">Learn More</a></p>
<p><b>07/08/2023 - <a href="#">Mansfield Trunkfest 2023</a></b>  <b>Location:</b> Mansfield, OH  <b>Sponsor:</b> Intercity Amateur Radio Club  <b>Website:</b> <a href="http://iarc.club">http://iarc.club</a>  <a href="#">Learn More</a></p>	<p><b>07/16/2023 - <a href="#">Van Wert Hamfest</a></b>  <b>Location:</b> Van Wert, OH  <b>Sponsor:</b> Van Wert Amateur Radio Club  <b>Website:</b> <a href="http://w8fy.org">http://w8fy.org</a>  <a href="#">Learn More</a></p>
<p><b>08/12/2023 - <a href="#">Cincinnati Hamfest<sup>SM</sup></a></b>  <b>Location:</b> Owensville , OH  <b>Sponsor:</b> Milford ARC  <b>Website:</b> <a href="https://CincinnatiHamfest.org">https://CincinnatiHamfest.org</a>  <a href="#">Learn More</a></p>	

# OHIO'S



If your household is like that at the N8ZNR/W8KIW one, your look at the calendar will cause you to shake your head in disbelief that Thanksgiving is just days away. And that means the official opening of the Holiday season will be upon us in full force and 2022 is on its last leg.

Last time out I ended the column on a positive note. So let's continue that train of thought and start this week's column along the same line by giving a big SHOUT OUT to the **Hocking Valley ARC** in Logan for recently conducting a most successful class and exam session. According to Bill Hopstetter, W8LGX, eight candidates tested with only one not making the grade. Six individuals received new licenses plus Bruce Underwood, W8BEU, upgraded to General.

Thanks to Ted Jacobson, W8KVK, for advising us of recent first licenses issued to individuals in the South 40 region. It's suspected some of these are the results of the above mentioned Logan test session. KE8WAG is now the call sign of Logan's Mark Barrell. Logan is also the new home of call sign KE8WAE belonging to Justin Kerns. Up the road in Lancaster, Arionne Perry earned a Tech license and is now KE8VZP. Ross County's Londonerry has a new ham as Beatrice Mills earned her Technician license and became KE8WAH. Not to be outdone, the western part of the region had Jared Shouse of Bethel become KE8VZX. Welcome all to the exciting world of Ham Radio!

The **Tri-State ARA** will conduct a VE session on December 10 at the Museum of Radio and Technology in Huntington. Registration is not necessary and walk-ins will be accepted. All test elements will be given. Everything starts at 9 AM

As this is written, the Phone portion of the ARRL November Sweepstakes is just hours away and I'm excited because for the first time in a few years I anticipate being able to fire up the Pro III and tickle the ether for a few fun filled hours. Besides trying to best some personal contest goals, it's always fun to run into some of the regional hams who participate. Here's hoping some of us made it into each others logging programs during the event. Good luck to all who participated.



For many years the members of the **Cambridge ARA** have assisted with the town's annual Christmas Parade and this year is no exception. On November 26 those members who are still not feeling the effects of their Thanksgiving feasts will gather at 2 PM at the old railroad depot in Cambridge to assist with the event's lineup and communications needs. The parade starts at 5 PM. On the 28<sup>th</sup> the **Southern Ohio ARA** will provide communications and assistance to the Ironton Lions Club for that community's annual Christmas Parade. Those helping are to meet at the 4<sup>th</sup> and Railroad Street Car Wash at 5 PM for their assignments. The parade will happen regardless of the weather.

Because most clubs in the South 40 region are winding down their activities for the remainder of the year, news is rather 'Slim Pickins'. However the number of upcoming holiday meetings, parties, elections and gatherings and some community related Christmas activities are noteworthy.

This year's round of holiday celebrations, celebrations marking the end of a club year and the elections of new officers kick off in Lawrence County when the **Southern Ohio ARA** gathers at the Ironton Frisch's Big Boy on Monday evening, November 21 at 6 PM for their annual Christmas Dinner. The **Clinton County ARA** will meet for their annual holiday dinner and elections on Thursday evening, December 1. According to President Mark Atwell things will start with a carry-in at the Foster Boyd Cancer Center in Wilmington at 6:30. The nomination process is currently in progress with elections that night. Over in Guernsey County the **Cambridge ARA**'s annual Awards Banquet will be on the afternoon of Saturday, December 3 at the Cambridge Denny's from 2 until 4. Also on December 3, the **Scioto Valley ARA** will hold their Christmas dinner. It will be a catered affair served at 1 PM by the Chillicothe Evening Lions Club at the Lion's clubhouse in Chillicothe. The cost is \$16 per person and RSVPs should go to David Coffey ASAP. It is open to anyone wishing to attend. The **Hocking Valley ARC** will celebrate on December 6 at a location yet to be determined. Over 130 invitations were mailed by the **Highland ARA** to the Club's members and friends on Thursday for the Club's annual Christmas Dinner Party Extravagana at the Hillsboro Methodist Church on Tuesday evening, December 13. The **Portsmouth RC** will hold their annual holiday dinner on Saturday evening, December 17 at the Gathering Place in Wheelersburg. The **Athens County ARA** will meet on December 20 at a location yet to be announced. Attendance at these holiday events are a great time to support neighboring clubs and meet some really great people.

**Highland ARA** Brunch Bunch co-ordinator Ken Lightner, KE8JEL, states 16 people attended the Club's first time use of the Hillsboro Burger King for their monthly breakfast hour gathering. It's expected the group will continue to meet there until warm weather allows them to return to the city park. Ken also calls attention to the December 10 gathering date. On that day, members wishing to attend the Club's annual road trip to R & L Electronics to purchase door and raffle prizes for the December 13 Christmas Dinner Party will leave Hillsboro about 9 AM. They will have breakfast at Hyde's Restaurant in Hamilton before crossing the parking lot to R & L for the annual purchasing and browsing road trip. Ken states this is an excellent opportunity for new hams making their first trip to





Members John Willis, KE8JEM, and John Levo, W8KIW, report a new cradle should be in place in December so the annual tradion will be able to continue.



I don't often do book reviews, but here is one I might have to look into further. Kathy (N8ZNR) and my daughter Jennifer-WA8KIW- (who is a graphic designer at Hydro-Flask in Bend, Oregon) recently told us of finding a graphic design book with an unusual title and topic—"QSL-DO YOU CONFIRM RECEIPT OF MY TRANSMISSION?". According to information she secured, the 276 page book is authored by fellow graphic designer Roger Bova who found an intact collection of over 150 old international QSL cards when browsing in a New York antique store. He was so taken by the designs on the old cards that he bought the entire collection. It turns out the cards belonged to the late Charles Hellman, W2RP, who lived for 106 years old and held a ham license for 92 of those years! The coffee table sized book is available on-line and through other sources. It may even be able to be found through your local library system.

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## Print an Official or Unofficial Copy of Your Amateur Radio License

(By Anthony Luscre, K8ZT)

As of February 17, 2015, the **FCC no longer routinely issues paper license documents** to Amateur Radio applicants and licensees. The Commission has maintained for some time now that the official Amateur Radio license authorization is the electronic record that exists in its Universal Licensing System (ULS). The FCC will continue to provide paper license documents to all licensees who notify the Commission that they prefer to receive one.

Licensees also will be able to print out an official authorization — as well as an unofficial “reference copy” — from the ULS License Manager. I've created a set of instructions on how you can request an “official” printed copy of your license\*



[Click here to download the instructions](#)

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## One Question Questionnaire

!!!! I would really like to hear from as many of you as possible on this one. While I know what I think the answer is going to be, the bigger the sample, the more accurate a survey like this is likely to be.



How about going to <http://arrl-ohio.org> and giving me a click? (It's in the bottom left corner of the page)

**Did you take a nap after eating your Thanksgiving meal?**

- A) Yes
- B) No

From last weeks question:

**Did you make at least 5 QSOs in the last week?**

- C) Yes
- D) No

OUT OF 83 RESPONSES: 71% (59) SAY YESS AND 29% (24) SAY NO!  
I'M HAPPY TO SEE THAT MOST OF YOU ARE ON THE AIR!

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### Ohio Section Cabinet

Section Manager – Tom Sly, WB8LCD	Section Traffic Manager – David Maynard, WA3EZN
Section Emergency Coordinator – Stan Broadway, N8BHL	Section Youth Coordinator – Anthony Luscre, K8ZT
Technical Coordinator – Jeff Kopcak, K8JTK	Affiliated Clubs Coordinator – Amanda Farone – KC3GFU
State Government Liaison – Bob Winston, W2THU	Public Information Coordinator –



Hey Gang,

Have you taken a look at the **Swap & Shop** page on the Ohio Section webpage yet?? Here's a link that will take you there... <http://arrl-ohio.org/sm/s-s.html>

Do you have equipment that you just don't need or want anymore? Here's a great venue to advertise it, and it's FREE!! Is your club doing a fund raiser to help raise money? After a lot of thought, it was decided that the Swap & Shop webpage could also contain these types of items as

well. The same rules will apply as do for the For Sales and Give-A-Ways and will only be posted for a month at a time. Please see the Terms & Conditions on the webpage.

If your club is doing a fund raiser and wants more exposure, please forward the information to me and I'll advertise it on the Swap & Shop webpage for you.

Now, I still want to remind you that it won't be listed in this newsletter because it would take up way too much space, so your ad will only appear on the website. It is there for any individual to post equipment Wanted / For Sale or Give-Away as well as for Club Fund Raisers. No licensed vehicles/trailers or business advertising will be posted. Postings are text only (no pictures or graphics) will be posted for a maximum of 1 month from date posting and require a contact phone number or email within the posting. Send your Wanted / For Sale or Give-Away post to: [swap@arrlohio.org](mailto:swap@arrlohio.org)

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### ***Back Issues of the PostScript and Ohio Section Journal***

Hey, did you know that PostScript and Ohio Section Journal (OSJ) are archived on the website? You can go back and look at any edition simply by clicking:

<http://arrl-ohio.org/news/index.html>



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### ***Want to Share your Club Newsletter With Others?***

We have a webpage where you can download and read all of the newsletters that I get from around the state and even other sections!

Here's the link to the page.... [http://arrl-ohio.org/club\\_news/index.html](http://arrl-ohio.org/club_news/index.html)

Please, if you don't see your club newsletter posted, it's because I'm not receiving it. Just have your newsletter editor contact me and I'll get your club's newsletter listed on the site!!



We all learn and steal (I mean, share) from each other's work. So, get me your newsletter!!! Send it to: [webmaster@arrl-ohio.org](mailto:webmaster@arrl-ohio.org)

### *Chit – Chat, and All That!*

Do you know someone that's not getting these Newsletters? Please, forward a copy of this Newsletter over to them and have them "[Opt-In](#)" to start receiving them. Heck, just have them send an email to: [webmaster@arri-ohio.org](mailto:webmaster@arri-ohio.org) and we'll get them added to the Ohio Section Emailing list.



We now have many thousands of readers receiving these newsletters weekly. Quite impressive, I'd say! I urge all of you to make sure that everyone, regardless of whether they are a League member or not, get signed up to receive these weekly Newsletters.



You can always "Opt-Out" at any time if you feel this is not what you were expecting. It's fun and very informative. All of your favorite past newsletters are now archived too. You can go back at any time and read them.

Just go to: <http://arri-ohio.org/news/>

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*PostScript is produced as a weekly newsletter. I want to thank everyone that has contributed articles and ideas to make this an even better news source. I sincerely hope that you have enjoyed this edition and will encourage your friends to join with you in receiving the latest news and information about the Ohio Section, and news and events happening around the world!*