



Full Quieting

The Official Journal of The Bellbrook Amateur Radio Club



December 2024 — Issue 40

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Merry Christmas!!!



From the President & Editor

Happy December and an early Merry Christmas and Happy Holidays to all of you! Fall is starting to transition to the early stages of winter, so get ready! Along with a charged car battery, spare blanket and all that, keep a charged ham radio in the car with you to back up your cell phone if you get stuck somewhere!

As of this writing, we have nominations for all club officers. Thanks for those of you who stood up and accepted the nominations, it's greatly appreciated. And for those of you who weren't able to this time; realize that being nominated, even if you couldn't accept, is a someone having faith in you being able to do the job. Take it as a compliment and think about accepting the challenge someday, that's how we all learn and grow.

This is my last column as president, but I will still be here writing and editing *Full Quieting*. I have enjoyed being president and think we have accomplished many goals over the past couple of years. Our club has grown in membership, we have trained a wide cross section of our membership in new topics such as POTA, DMR, CW, contest operating, public service, technical skills, and more. Thanks for "spreading your wings" and trying these new things; that's what amateur radio is all about.

We learned recently that the old Elementary School building where BARC operates may be sold. It's owned by the Bellbrook Sugarcreek School District and is costly to maintain. We provide a non-monetary "return on investment" to the community, but doesn't seem to be a school board priority. See page 3 for more information. Let me know your opinions on this, looking for a win-win here. Thanks!

73, Ray Hitt, [N8VMX](#)
 BARC President & *Full Quieting* Editor

2024 BARC Officers and Directors

President: Ray Hitt, [N8VMX](#)

Vice President: Jim Totten, [WA8HUB](#)

Secretary: Jim Gifford, [N8KET](#)

Treasurer: John Westerkamp, [W8LRJ](#)

Senior Director: Jim Lusk, [KC8EFD](#)

Junior Director: Bob French, [AC8ZU](#)

2024 Coordinators

Clubhouse: Jim Lusk, [KC8EFD](#)

Comm Center: John Westerkamp, [W8LRJ](#)

Contesting: Ken Gunton, [W8ASA](#)

Education: Paul Sharp, [WS8R](#)

Emergency Preparedness: Jim Lusk, [KC8EFD](#)

Field Day: Glenn Rodgers, [W8IO](#)

Full Quieting Editor: Ray Hitt, [N8VMX](#)

Hospitality & Librarian: Natinka Siwecki, [KD8NUA](#)

IT: John Westerkamp, [W8LRJ](#)

Lunch Bunch: Jim Totten, [WA8HUB](#)

Net: Paul Sharp, [WS8R](#)

Public Service: Don Parker, [KB8PSL](#)

QSLs: Roger Hoffman, [WB9BXT](#)

Repeater: Russ Roysden, [N8NPT](#)

Tech Night: Bob French, [AC8ZU](#)

Webmaster: John Westerkamp, [W8LRJ](#)

BARC Net: Every Sunday, 8 PM Local

147.045 (+) (118.8 PL enc and dec) [Alt = 443.675]

Directions to BARC Clubhouse and Comm Center

Rooms 1 & 3 Lower Level Sugar creek Elementary School

51 S. East Street, Bellbrook (One block east & one block south from the traffic light in downtown Bellbrook)

Enter at South end of building

Member Interviews

BARC wants to hear from you!

Whether you're a long-time BARC member or a brand new one, young or old, please tell us about yourself. Here are some simple guidelines, although you're free to use whatever format you're comfortable with.

This page is all about you. It's your chance to let BARC members to get to know you better.

Here's are a few sample questions to help get you started, but you can write whatever you want.

Please send us some pictures of anything you want BARC to see (you, station, antennas, pets, family, anything)

- When you were first licensed?
- How did you learn about Ham Radio (HR)?
- Why did you become a Ham?
- What are your current HR interests?
- What are you most passionate about regarding HR?
- Tell us about your stations (past, present, and future)
- What was the most exciting thing that happened to you in HR?
- What do you do for a living?
- Would you like to say something about your family?
- Do you have other hobbies or interests?
- Any other comments for BARC?



What's Up BARC?

What's Up BARC?

Ray Hitt, [N8VMX](mailto:n8vmx@bellbrookarc.org)

Announcements regarding any member news including: new equipment, antennas, grandchildren, children, pets, operating news, etc.



Welcome New Member!

Jeff Pursel, KJ6XC, Advanced

School Board Meeting to Discuss Options for Old Elementary School Tenants

The Bellbrook-Sugarcreek School District will have a board meeting on December 12, at 7pm, at the Middle School at [3600 Feedwire Road](#). This meeting is to further discuss the future use of the old Sugarcreek Elementary School Building where our clubhouse is located. There will be time allotted for interested parties to stand and provide their viewpoints to the school board.

During the last school board meeting on October 24th, the school superintendent, Dr Douglas Cozad, presented an informational briefing discussing the school's mission, the budget, and the impacts the old building has on the overall school budget. While no decisions have been made, it was clear to the average listener that the school is not interested in continuing to maintain this old structure. There are some large expenses in the not-too-distant future, such as a new roof, HVAC, electrical. The building is not up to code (being built in 1925), and any future owner would have to take on the responsibility and cost of bringing it up to code. Some of the building tenants (Bellbrook Sugarcreek Community Support Center, Bellbrook Bible Church) pay rent to locate there (BARC does not), but the rent doesn't defray the building operating costs. There remains a roughly \$50K annual deficit operating the building. Some of this could be further defrayed if BARC were to start paying rent, however this would likely impact our annual dues.

The tough questions to ask are; is there a continuing benefit to the community in leaving this building open that offsets the cost; how much could you tolerate to pay in annual dues to go towards rent; how much longer would it be viable to leave this building open; what alternative locations exist in the Bellbrook-Sugarcreek area; and what impacts to BARC would result if the old school building were to close.

Please send your viewpoints to Ray Hitt, n8vmx@bellbrookarc.org, and our incoming president, Geoff Kline, KI5VNB, ki5vnb@gmail.com. Consider attending the meeting if you are interested especially if you have an opinion to express.



What's Up BARC? (continued)

Text Message "Parrot" Testing on DMR

Tim Proconiar, N8NQH, provided instructions on his website on how to test your radio's text messaging (SMS) capabilities. This is done by using a feature of the Brandmeister Network called "Text Parrot". By sending specially formatted SMS messages to talk group 262993, you will receive a text response back. Some examples are local weather reports, GPS reports and more.

Details are at this link: <https://tim-yvonne.com/ham/dmr/testing.htm>

Special Event Station

December 17, 2024

9am to 7pm

Dear BARC Members,

BARC will commemorate the 101st anniversary of powered flight by honoring the pioneers of powered flight, Orville and Wilbur Wright.

On December 17, 2024, 9am until 7pm, each of you are encouraged to operate a special event station from the BARC clubhouse. We plan on having refreshments during the day. Jim Gifford and Glenn Rodgers will be available all day at the clubhouse.

We encourage any who wish to participate to contact Jim Gifford, james.gifford55@gmail.com (preferred) or call 937-718-6126 and let him know approximately when you plan to operate a radio. Of course you may just show up too, but we are trying to anticipate what the schedule may entail. We will send out a more detailed email in December as the date approaches.

For newer ham radio enthusiasts, special event stations are often operated by amateur radio clubs in honor of historic events or notable historic people. We have four stations that will be occupied by licensed operators contacting other licensed amateur radio operators who will communicate from all over the United States and the world via high frequency radio transmissions.

A color flyer will be emailed to each amateur radio operator who contacts the club on the radio and requests a flyer. The flyer is on the next page in *Full Quieting*.

For additional information, please contact:

Jim Gifford James.gifford55@gmail.com

or

Glenn Rodgers ghrodgers@icloud.com



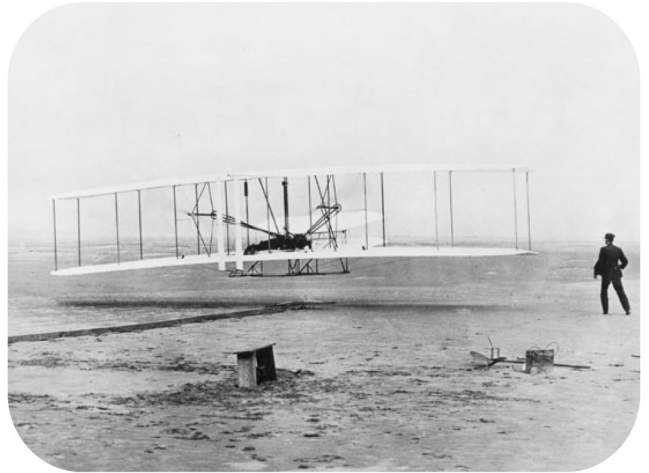
The Bellbrook Amateur Radio Club

Special Event Station W8W

December 17, 2024

Orville and Wilbur Wright were the sons of a clergyman and his wife in Dayton, Ohio. When they were young, their father bought them a small toy helicopter powered by a rubber band. After it eventually broke, Orville and Wilbur decided to build their own version.

The brothers developed their mechanical skills by operating a bicycle repair shop and running a printing business, using various motors and mechanical tools. While many inventors were experimenting with flying machines during the late 19th century, the Wright brothers stood out because they focused on developing a way to control flight, eventually patenting their method.



After extensive experimentation with wing structures, motor control, propellers, and various mechanical systems, the brothers left Dayton, Ohio, for Kitty Hawk, North Carolina, to test their aircraft in the consistently windy conditions along the coast. On December 17, 1903, with Orville at the controls, their flying machine flew 120 feet in 12 seconds. Two additional flights that day covered 175 and 200 feet, reaching an altitude of 10 feet.

The Dayton area is home to several sites maintained by the National Park Service in honor of the pioneers of manned flight. The Wright Memorial overlooks Wright-Patterson Air Force Base (WPAFB), one of the largest USAF bases in the country. The National Museum of the U.S. Air Force is located just a mile west of the memorial. The original flying field, also part of the National Park, lies at the end of the base runway.

The Bellbrook Amateur Radio Club (BARC), with the call sign W8DGN, celebrated 50 years on the air in 2024. This milestone marks the club's enduring presence since its founding in response to the devastating Xenia tornado of 1974. The BARC clubhouse is located a few miles south of WPAFB.

Over the years, BARC has grown into a prominent community organization involved in public service, emergency communications, and educational programs.



BELLBROOKARC.ORG 

W8DGN

PO Box 73
Bellbrook, OH 45305 USA
Greene County
EM79xp



Officer, Director, and Coordinator Inputs

Treasurer: John Westerkamp, [W8LRJ](#): Income from the dues kept us in positive cash flow for the month with income outpacing expenses for Spectrum Internet. MetroNet was unable to install our fiber and we were unwilling to pay for the construction needed, so the installation was cancelled. The 2025 Budget was presented at the Membership Meeting and passed. The main updates were moving money into the Communication Center and Repeater accounts to pay for necessary updates to the grounding and bonding systems.

We continue to be in great financial shape.

Repeater: John Westerkamp, [W8LRJ](#): While investigating the outage at the repeater site, we realized that none of the equipment was properly grounded to the facility grounding system. We have set aside money from the 2025 budget to make the necessary updates.

A reminder that when using Allstar or Echolink, if the repeater is in constant use and unable to drop the carrier, a local user will not be able to send a *73 to disconnect and the connection will remain active forever! I have since taken steps to prevent this, but if it happens to you, please text me at 937-271-3119 and I can disconnect the node for you. You can also use the Contact Form on the website to reach me.

Website: John Westerkamp, [W8LRJ](#): Contest season is well underway and the clubhouse will be open for the ARRL 10 Meter Contest in December. We will also be hosting a Special Event Station for the 101st Anniversary of Flight on Tuesday, December 17. Watch the website for more details.

And don't forget about the Member Forum where you can ask questions and make announcements. The website has a new section *Mentors and Experts*! You can find a list of experts by selecting *Mentors and Experts* under the *Membership* tab. Send your questions via the *Contact* page for our *Experts*!

Communication Center: John Westerkamp, [W8LRJ](#): We had to cancel the MetroNet installation due to the cost of the construction needed to bring the fiber to the building. We have also set aside some money in the 2025 budget to make needed updates to the grounding and bonding system in the Communication Center.

Future plans include updating all the grounding and bonding to move the lightning arrestors outdoors, adding some ground rods, and bonding everything together with the electrical service ground. Stay tuned!

BARC Net Manager: Paul Sharp, [WS8R](#): Every Sunday at 8:00 PM you can listen to and participate in the exciting BARC Net, on 147.045. For the 4 weeks in November 2024 there were approximately 54 check-ins lasting 124 exciting and informative minutes. Topics ranges from Open Mike, Parks on the Air, an exciting contact, bone head decisions, what did you do during all this beautiful weather, what are your plans for Thanksgiving, and if you were a good boy or girl, what is on your wish list for Christmas? We often have non BARC members checking in to enjoy the Net.

Our faithful Net Controllers are, Larry Darner, KD8RER, Joe Menchaca KE8UUQ, Tink Siwecki KD8NUA, Paul Sharp WS8R, and John Westerkamp W8LRJ.



BARC December 2024 Event Calendar

Sun December 1, 2024

8pm Weekly Net Where: 147.045+ (118.8 Hz tone)

Tue December 3, 2024

6:30pm POTA SIG Meeting..... Where: BARC Clubhouse

Wed December 4, 2024

7pm Tech Night Where: BARC Clubhouse

Thu December 5, 2024

7pm Planning Meeting..... Where: BARC Clubhouse

Sun December 8, 2024

8pm Weekly Net Where: 147.045+ (118.8 Hz tone)

Tue December 10, 2024

11:15am Lunch Bunch..... Where: Cherry House Cafe

Sat December 14, 2024

1:00pm ARRL 10-Meter Contest Where: BARC Clubhouse

Sun December 15, 2024

8pm Weekly Net Where: 147.045+ (118.8 Hz tone)

Tue December 17, 2024

9:30am W8W Special Event Station..... Where: BARC Clubhouse

Thu December 19, 2024

7pm Membership Meeting Where: BARC Clubhouse

Sun December 22, 2024

8pm Weekly Net Where: 147.045+ (118.8 Hz tone)

Sun December 29, 2024

8pm Weekly Net Where: 147.045+ (118.8 Hz tone)



BARC Movie and Dessert Night



The **2024 Season of The BARC Movie & Dessert Nights** was a lot of fun and we really appreciate all who participated in the movie nights. We look forward to seeing our regular group of movie buffs along with new faces for the 2025 season.

As you can see below we have a head start for the 2025 season, full of fun old and new films.

When choosing movies we try to include comedies, Sci-Fi, Rom Coms, old movies and newer releases, etc... Recommendations are always welcomed!

Upcoming Dates & Selections for Our 2025 BARC Movie & Dessert Nights:

<u>Date</u>	<u>Movie</u>	<u>Genre</u>	<u>Actors</u>
January 23, 2025	Harvey (1950)	Comedy	Jimmy Stewart
February 27, 2025	Edge of Tomorrow (2014)	Sci-Fi/Action	Tom Cruise
March 27, 2025	Paul, Apostle of Christ (2018)	Drama	Jim Caviezel
April 24, 2025			
May 22, 2025	Twisters (2024)	Action	Glen Powell
June 26, 2025	Fly Me to the Moon (2024)	Rom/Com	Scarlett Johansson, Channing Tatum
July 24, 2025			
August 28, 2025			
September 25, 2025			
October 23, 2025			

Our movie nights are held on the **Fourth Thursday** of each month **January** through **October** at **7:00 PM in the BARC Clubhouse**. We take November and December off for the holidays. At each movie night we pop up, *fresh*, BARC's famous popcorn and you never know what we will come up with for dessert!

We'll see you in 2025 at the Movies!

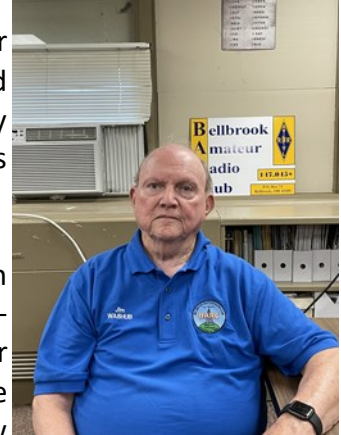
Tink, KD8NUA



Lunch Bunch

Jim Totten, [WA8HUB](#)

Hello my fellow lunch lovers. December 2024 is here., and time to renew our lunch meetings for this new month. Our Lunch Schedule is the Second and Fourth Tuesday of each month. If a scheduled Tuesday gets slammed by some unforeseen event the lunch is just cancelled. The invitation messages will go out Wednesday or Thursday of the previous week.



Now, how will the lunches be selected? Accompanying this information page is a chart listing our current set of restaurants. The December restaurant is highlighted. I updated all of the dates for all of the restaurants on our list. This includes the restaurants in 2025. This published list is the order we will select each lunch day. You now know what the whole order is and know what's coming next. (Did you notice the single tense above.)

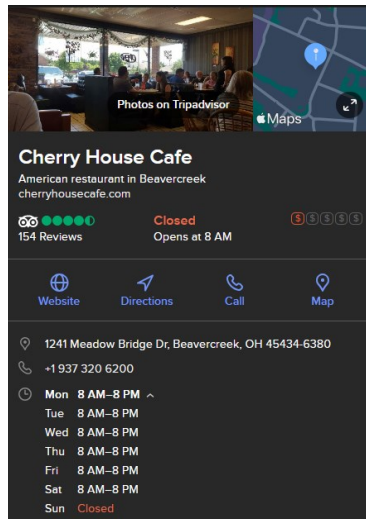
The first lunch in November was at the Beavercreek Pizza Dive. Located at 4021 Dayton-Xenia Rd. in Beavercreek. They are around the corner from the Grange Hall intersection. There was a good turnout except yours truly did not make it. There was a second lunch scheduled for November. On the 26th I had laid in the Cherry House Cafe. A very favorite. Then I looked at the calendar. That is Thanksgiving week. As an aside, my daughter has invited me to have Thanksgiving with her in Jamestown, Kentucky. In December we only have one lunch because of Christmas. Why not November. I took a quick poll of our list and got a positive no for the 26th lunch.

Now December. There will be only one lunch in this month. "Cherry House Cafe". Location hasn't changed: 1241 Meadowbridge Dr. Beavercreek, OH. That's a wrap for this month. Happy eating.

73, Jim, [WA8HUB](#) {Editor's note: Restaurant addresses are below and on next page.}

[Tuesday, Dec 10th, 11:15am](#)

Click hyperlink for more info and map



Lunch Bunch 2024 List

Jim Totten, [WA8HUB](#)

Date	Restaurant	Address	City	Phone Number
12/10/24	Cherry House Cafe 7:00 am to 2:00 pm	1241 Meadow Bridge Dr	Beavercreek, OH 45434	(937) 320-6200
01/14/25	Another Broken Egg Cafe 7:00 am to 2:00 pm	2453 Esquire Dr.	Beavercreek, OH 45431	(937) 912-5074
01/28/25	China Garden Buffet	112 Woodman Dr. Airway Shopping Center	Dayton, OH 45431	(937) 781-9999
02/11/25	First Watch 7:00 am to 2:30 pm	5245 Cornerstone North Blvd	Sugarcreek Twp, OH 45440	(937) 732-9013
02/25/25	Submarine House	3195 Dayton-Xenia Rd.	Beavercreek, OH 45434	(937) 429-8650
03/11/25	Roosters Wings	2430 N. Fairfield <i>The Shoppes at FC</i>	Beavercreek, OH 45431	(937) 702-9500
03/25/25	Golden Corral Buffet and Grill	2490 Commons Blvd.	Beavercreek, OH 45431	(937) 613-5478
04/08/25	Yaffa Grill Mediterranean Food	2844 Colonel Glenn Hwy	Fairborn, OH 45324	(937) 429-4959
04/22/25	Chic-Fil-A	5301 Cornerstone N Blvd	Sugarcreek Township, OH 45440	(937) 439-1700
09/10/24	Culp's Cafeteria	1000 Carillon Blvd	Dayton, OH 45409	(937) 293-2841
09/24/24	City Barbecue	2001 E. Dorothy Lane	Kettering, OH 45420	(937) 200-1006
10/08/24	Marion's Piazza	1320 N Fairfield Rd.	Beavercreek, OH 45432	(937) 429-3393
10/22/24	Red Robin	2671 Fairfield Commons Blvd.	Beavercreek, OH 45431	(937) 320-9800
11/12/24	Beavercreek Pizza Dive	4021 Dayton-Xenia Rd.	Beavercreek, OH 45432	(937) 431-8669



Introducing Geoff Kline, BARC President for 2025

Geoff Kline, [KI5VNB](#)

Hi, I'm Geoff Kline (KI5VNB), and I'm thrilled to be stepping into the role of BARC President for 2025. While I'm still relatively new to amateur radio, having earned my license in May 2022 while living in Dallas, TX, I've been fascinated by the hobby for decades. My journey started back in high school in 1987 when I first began studying for my license. Back then, mastering CW proved to be too much of a hurdle, and I set the dream aside—until late 2021, when I stumbled across an operator activating a park for Parks on the Air (POTA) while tinkering with an SDR receiver. That moment reignited my passion, and I was thrilled to learn that the CW requirement had been lifted, opening the door for me to dive into the hobby.

These days, you can often find me in a park with my wife, Renae, who patiently reads while I work the airwaves during a POTA activation. When the weather isn't ideal, I still make it out to the parks—though usually solo. My favorite bands are 10, 12, and 15 m, where I'm taking full advantage of this solar maximum. I'm also diving into contesting this winter and am finally tackling CW with the help of the Long Island CW Club.

Beyond operating, I've recently taken my first steps into restoring classic equipment. My current project is an old Swan 350C radio, which I'm learning to repair and bring back to life. It's been a rewarding challenge, filled with plenty of trial and error, and I've gained a newfound appreciation for the craftsmanship and history behind vintage radios. My station at home includes a Yaesu DX10, paired with either a DX Commander multiband vertical or a CobWeb antenna. For portable activations, I rotate between a Yaesu FT-891, Xiegu G90, and Icom IC-705, always testing new homemade antennas.

Originally from Cleveland's east side, I moved to Columbus in 1990 to attend The Ohio State University and built my career as a software developer. Several years ago I moved into IT risk management. I currently manage risk for a suite of applications at JPMorgan Chase. My work took me to Dallas for five years, where I developed an appreciation for Texas BBQ—so much so that after moving back to Ohio, I bought a pellet smoker to replicate the flavors at home.

Outside of radio, I love camping with my college friends, where I often test new antennas to the amusement of fellow campers who are curious about the hobby. Whether it's through POTA, restoring gear, or experimenting with antennas, I'm constantly learning and discovering new aspects of this incredible hobby.

I look forward to getting to know each of you better, sharing ideas, and exploring new areas of amateur radio together. If you see me at a club meeting or hear me on the air, don't hesitate to say hi—I'm always happy to chat!

73, Geoff, [KI5VNB](#)



So, You Have a Tech License? Get Started In Parks on the Air (POTA)!

Jim Gifford, [N8KET](#)

I wish I had known all the great high frequency (HF) possibilities when I had my Technician Class ham license for the first 10 years on my ham adventure. We did not have Parks on the Air back in those days. As a Technician, you have single sideband (SSB), phone (voice) opportunities in the 10-meter band. You may operate from 28.300 to 28.500 MHz. And if you know CW (Morse Code) you have great additional opportunities in the 40m and 15m bands. You can talk all over the world! We are at solar maximum, and the 10m band is alive. Go out and make contacts!

There are some really nice HF radios available from Yaesu, ICOM, and others. Connie Sue Gifford W8CSG and I ventured out last week to activate a POTA site along the Little Miami River. Connie has her General license and I have an Extra license, so we started out on 40m phone. After about 30 minutes we had over 20 contacts on 40, so I suggested that we try 10m, since it was early morning, and 10m has been very active recently.

Do I have an elaborate antenna setup? No, not at all. We actually used two different antennas last week on 10m. One is a 62-foot end-fed wire connected to a 9:1 LDG UNUN. An UNUN is basically a small transformer used to connect and unbalanced antenna to an unbalanced coax. This coax feeds into the back of our Yaesu FT-891 HF radio after going through an antenna tuner. Antenna tuners do not really “tune” your antenna, they match the antenna so the radio sees a 50-ohm resistance. That 62-foot wire was thrown up into a tree using a thin rope attached to an arborist bag. (You best stand really clear when I toss it, because I am pretty wild in my aim—just ask Connie.)



Black Widow extended against a tree



64:1 UNUN with radials attached

But the real reason for this article is the really simple antenna I built, which was used to contact other park activators and POTA hunters in the Netherlands, Germany, France, Puerto Rico, Belgium, the Slovak Republic, South Wales, and England—among others.

I have a 20-foot Black Widow collapsible fishing pole that I use to make a half-wave 10m vertical antenna. I attached one side strand of common copper speaker wire, 16-foot, 5 3/8 inches long to the tip of the pole. YouTuber, Walt, on Coastal Waves and Wires came up with the plans. At the bottom end of the wire I purchased, and



So, you have a Tech License?

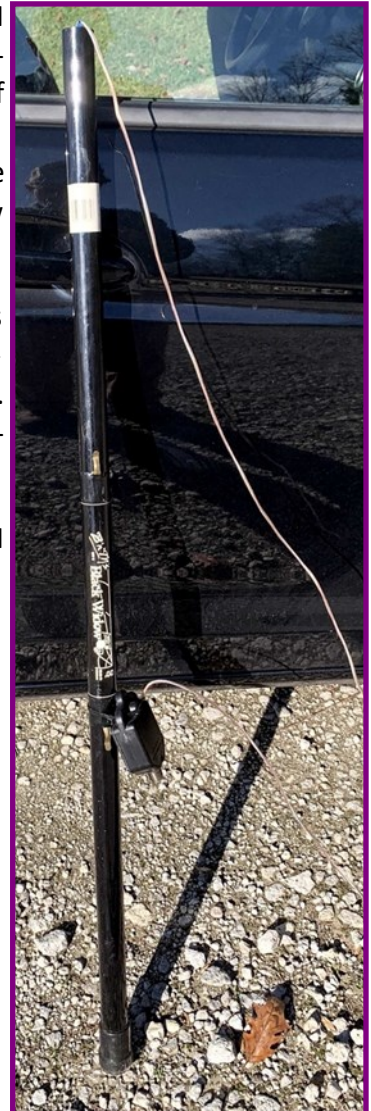
Get started in Parks on the Air (POTA)! (continued)

attached, a 64:1 UNUN obtained on Amazon. It was made by BH7YR. I connect a length of coax to the UNUN and stretch it out to my radio in either my vehicle or a picnic table. Using a few ground radials I made out of 16-foot single strand wire, I simply use an alligator clip to attach the radials to the grounded, outside portion of the coax connector. I extend the radials out to three or four points away from the extended Black Widow pole, which I have just leaned against a tree.

If you want to spend more, there are very well-made collapsible fiberglass or composite poles made by several ham-related manufacturers. My fishing pole bends a little at the top, but it does not seem to affect results. You might even take the same length of wire and, using a rope and arborist bag or other weight, pull it up to a tree branch.

The point is, as a Technician, you can operate on HF and make contacts. I will see you at the next POTA—RIGHT?

73, Jim [N8KET](#)



Pole collapsed is about four-foot long

Adding HamClock to your Pi-Star or WPSD DMR Hotspot

Ray Hitt, [N8VMX](#)

I joined a HamClock-related technical group on Facebook, called [HamClock for everyone](#). There are a lot of useful tidbits on there, and a whole lot of photos of hams proud of their setup. HamClock is a prominent part of most amateurs' shacks. Something I came across made me go, "hmm, why didn't I think of that?" *Someone posted about using your Raspberry-Pi DMR hotspot to also host HamClock on your network.*



The concept is this: download and compile HamClock into your DMR hotspot, run the command line in your Pi-Star or WPSD web page to enable HamClock when you want to (or have it automatically run on startup). Then you can access HamClock on your other network devices via your normal web browser. This is because your DMR hotspot itself doesn't have a dedicated screen. I have two browser tabs on my laptop, one the WPSD Dashboard, the other HamClock.

Since some of you use WPSD and others use Pi-Star, I'll provide step by step instructions for WPSD first and then highlight the minimal differences between WPSD and Pi-Star:

WPSD

From the WPSD Dashboard, bring up an SSH desktop by the command menus *Admin -> Advanced -> Tools -> SSH Access*. Login with username: *pi-star* (default) and password *raspberry* (or your password if changed). You should get a command line prompt where you can enter the following commands.

Download the HamClock Archive: At the command line type:

```
pi-star@wpsd2:~$ curl -O https://www.clearskyinstitute.com/ham/HamClock/ESPHamClock.zip
```

This will download the latest version of file ESPHamClock.zip from the developer's website into your current directory (home directory in this example). {Note that it is curl dash capital O not zero}

Unzip the HamClock Archive: in the SSH window, type:

```
pi-star@wpsd2:~$ unzip ESPHamClock.zip
```

This will create an ESPHamClock directory and unzip all the source code files from the compressed zip file.

Navigate into the ESPHamClock directory and compile HamClock for web server mode: Choose one or more of the following resolutions:

- *HamClock-web-800x480* web server only (no display), small resolution
- *HamClock-web-1600x960* web server only (no display), medium resolution
- *HamClock-web-2400x1440* web server only (no display), higher resolution
- *HamClock-web-3200x1920* web server only (no display), highest resolution

This example will compile the largest possible resolution:

```
pi-star@wpsd2:~$ cd ESPHamClock/  
pi-star@wpsd2:ESPHamClock$ make -j 4 hamclock-web-3200x1920
```



Adding HamClock to your Pi-Star or WPSD DMR Hotspot (continued)

Allow the software to compile, realize it can take up to of 30 minutes depending on the type of Raspberry Pi you are using. It took my Pi-3B around 5 minutes to compile this command.

Move the compiled program into the default program directory:

```
pi-star@wpsd2:ESPHamClock$ sudo mv hamclock-web-3200x1920 /usr/local/bin
```

Compile for any additional screen sizes you want to have available: I recommend compiling all four possible screen dimensions one-by-one because the Raspberry Pi processor loading seems to be proportional to the screen size. Using a 3200x1920 dimension will scale down in the web browser to the pixels available on the web device, so using such a large dimension is fine on a desktop monitor, but on a phone or tablet would be overkill, wasting processor horsepower that is best used for DMR processing. All of these resolutions can be compiled and coexist in the `/usr/local/bin` folder, you just call up the specific version you want to run.

Open up the Firewall ports for HamClock: Ports are closed off to the Internet that need to be opened up to access HamClock from other devices. Ports 8080, 8081, and 8082 are all used by HamClock, we will primarily be using port 8081. The ports are used as follows:

Port 8080	Command line parameters and help
Port 8081	HamClock Live in R/W mode (fully interactive with mouse)
Port 8082	HamClock Live in R/O mode (no changes allowed)

To access these ports, you need to enter root user mode to enter some administrative commands. Be very careful when in root user mode to avoid accidentally doing things that can't be undone.

Type the following two commands to enter root user mode and to use the nano text editor on the `ipv4.fw` firewall exceptions file:

```
pi-star@wpsd2:ESPHamClock$ sudo -i
root@wpsd2:~# nano /root/ipv4.fw
```

This will bring up the nano editor in which you type the lines shown here:

```
GNU nano 5.4 /root/ipv4.fw
iptables -I INPUT -p tcp --dport 8080 -j ACCEPT
iptables -I INPUT -p tcp --dport 8081 -j ACCEPT
iptables -I INPUT -p tcp --dport 8082 -j ACCEPT

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute   ^C Location   M-U Undo      M-A Set Mark
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify   ^_ Go To Line  M-E Redo      M-6 Copy
```

After these lines are type in, hit CTRL-X (shown as ^X in nano) to exit, but answer "Y" to write this file to disk and save these changes.



Adding HamClock to your Pi-Star or WPSD DMR Hotspot (continued)

Apply firewall changes and reboot: Type the following two commands (still as root user) to apply the recently changed firewall rules and reboot:

```
root@wpsd2:~# pistar-firewall
root@wpsd2:~# reboot
```

After reboot, you can activate HamClock through the ssh screen by typing the following:

```
pi-star@wpsd2:~$ hamclock-web-3200x1920 &
[1] 12748
pi-star@wpsd2:~$ kill 12748
pi-star@wpsd2:~$
```

The second command (the kill command) is used when you want to stop HamClock from running anymore. The numerical parameter there is the process ID which was printed out when HamClock started.

You can also choose the 2400x1440, 1600x960, or 800x480 resolutions by typing those commands instead.

I prefer to manually start HamClock because I don't plan on running it every time I use the hotspot. However, if you don't want to fuss with entering this command every time you start up, and have a certain resolution you want to use, you can embed it in the startup file that gets executed on bootup. The process is described fully in a Raspberry Pi article, [How to Auto Start a Program on Raspberry Pi? \(4 Ways\)](#). Simply, in the ssh command window, type the following command to activate the [crontab editor](#):

```
pi-star@wpsd2:~$ crontab -e
```

This command brings up the nano editor to edit the crontab file which is a list of commands to run at certain times, in our case, on reboot. So, add the following line at the end of the crontab file:

```
@reboot /usr/local/bin/hamclock-web-2400x1440
```

Hit CTRL-X then "Y" to save this change, then reboot the hotspot and you should have HamClock running automatically. If you want to change the HamClock file or remove it from the startup process altogether, just edit this crontab file again and make your changes and reboot again. That's it, you're ready to roll!

Pi-Star

The pi-star setup is identical to WPSD except that you need to type "rpi-rw" to put the file system in read-write mode before entering any commands in the ssh command prompt window. You also need to type "rpi-ro" to put the file system back into read-only mode when you're done. Other than that simple command, everything I described for WPSD earlier is the same for Pi-Star.

I've tested this on PI-3B, Pi-3A, and Pi-Zero 2W hotspots and it works fine all of them. Not tested on the Pi-Zero yet, but I think it might be a tad too slow to support DMR and HamClock at the same time!

73, Ray [N8VMX](#)



Special Event Stations for December

Paul Sharp, [WS8R](#)

Here are a 2 links you can follow to find many SES that suit your varied interests. I may repeat and update some of these links as there are only a few many sites focused on SES.

http://www.arrl.org/special_events/search/page:2/model:Event.

https://www.qsl.net/va3rj/spevents_dx.html.

Here is my pick of the litter of SES that I think will be of interest to my fellow BARC members. Once again, something for everyone! This month there are SES for Commemorating: the 110th anniversary of ARRL, 3 events for Pearl Harbor Day, D-day, 2 events for Christmas, and hold on to your power amplifiers: BARC's very own SES commemorating the Wright Brothers First Flight on December 17, 2024.

12/01/2024 | 60th Anniversary of the Amateur Radio Stamp and the 110th Anniversary of ARRL. Dec 1-Jan 31, 0000Z-2359Z, K7S, West Jordan, UT. The Utah DX Association. All bands, all modes; 7.260 14.260 21.300 28.470. QSL. Wesley Wilkinson, 7363 S Galaxy Hill Road, West Jordan, UT 84081-3961. The first 200 confirmed contacts will receive a used Amateur Radio Stamp. SASE will be needed to receive your QSL. w7wes@yahoo.com, www.udxa.org or www.qrz.com/db/w7wes

12/01/2024 | W2W Pearl Harbor Day Commemoration, Dec 1-Dec 11, 1300Z-2200Z. W2W, Hunt Valley, MD. Amateur Radio Club of the National Electronics Museum (ARCNEM) . 14.241 14.041 7.241 7.041. Certificate & QSL. ARCNEM, 338 Clubhouse Road, Hunt Valley, MD 21031. Amateur Radio Club of the National Electronics Museum (ARCNEM) will operate W2W in commemoration of the anniversary of Pearl Harbor Day and the role of electronics in WWII. Primary operation will be Dec 1-Dec 7 with additional operation possible during the Dec 8-Dec 11 period as operator availability permits. Operation on 80M (3.541, 3.841) and digital modes possible during event. Frequencies +/- according to QRM. QSL and Certificate available

12/07/2024 | Christmas in Bethlehem, Dec 7, 1400Z-2300Z, W9WWI, Bethlehem, IN. Clark County Amateur radio club of Indiana. 28.400. QSL. Clark Co. ARC, PO Box 201, Sellersburg, IN 47172. The Clark County Amateur Radio Club of Indiana wishes all a merry Christmas from Bethlehem Indiana with this special event. Operating all band and modes. A special QSL is available. n9dprh@gmail.com

12/07/2024 | D-day special event, Dec 7, 1000Z-1700Z, WA4USN, Charleston, SC. Charleston Amateur Radio Society Inc. 14.250 7.940. QSL. Charleston Amateur Radio Society, PO Box 70341, North Charleston, SC 29415. From the USS Yorktown (CV-10). At Patriots Point in Charleston Harbor. wa4usn.org

12/07/2024 | Flight 19, The Lost Avengers, Dec 7, 1300Z-2100Z, K4P, Fort Lauderdale, FL. Parrot Amateur Radio Club Inc. 14.240 7.210 18.150 21.315. QSL. Gerald Deitch, 2621 NW 105 Lane, Fort Lauderdale, FL 33322. fogdaddy1@gmail.com



Special Event Stations for December (continued)

12/07/2024 | Pearl Harbor Remembrance Day, Dec 7, 1800Z-2100Z, N3TAL, Lanham, MD. American Legion Post 275 Amateur Radio Team. 7.275 MHz (+/-) LSB. QSL. American Legion Post 275 Amateur Radio Team, 8201 Martin Luther King Jr Hwy, Lanham, MD 20706. N3TAL275@gmail.com or www.qrz.com/db/n3tal

12/07/2024 | Remembrance Of Pearl Harbor, Dec 7-Dec 8, 1400Z-2100Z, N4WIS, Norfolk, VA. USS Wisconsin Radio Club (BB64). 7.264 14.264 7.064 14.064. QSL. USS Wisconsin Radio Club N4WIS, One Waterside Drive, Norfolk, VA 23510. We will be spotting ourselves on the reflector to make it easy for stations to find us on the bands. Will be on other HF bands as conditions change: 21064, 21264, 10.164, 28064, 28264. 10.125 All Frequencies +/- QRM. Thank You! contactleaders@n4wis.org

12/12/2024 | Christmas City / WX3MAS, Dec 12-Dec 15, 1400Z-2200Z, WX3MAS, Nazareth, PA. Christmas City ARC. 14.265 7.270 3.850. QSL. Delaware-Lehigh ARC, 14 Gracedale Avenue, Greystone Building, Nazareth, PA 18064. Dec 12-15, 1400 to 2200 UTC; SSB, FT8 on appropriate frequencies. dlarc.club

12/14/2024 | Pearl Harbor Remembrance Day Special Event, Dec 14, 1700Z-2359Z, NI6IW, San Diego, CA. USS Midway Museum Ship. 7.250 14.320 14.070 PSK31 DSTAR on Papa system repeaters. QSL. USS Midway Museum Ship COMEDTRA, 910 N Harbor Drive, San Diego, CA 92101. www.qrz.com/db/ni6iw

12/17/2024 | Wright Brothers First Flight, Dec 17, 1400Z-2100Z, W8W, Bellbrook, OH. Bellbrook Amateur Radio Club (BARC). 7.217 14.317 21.317; all bands, all modes. Certificate. WrightFlight-BARC, E-certificate only, email WrightFlight@bellbrookarc.org, OH 45305. <https://bellbrookarc.org/wp>

12/25/2024 | Winter Olivia Digital Mode QSO Party, Dec 25-Dec 31, 0000Z-2359Z, NW7US, worldwide. Olivia Digital DXers Club. 14.071 7.071 21.071 28.121. Certificate. Tomas Hood, PO Box 110, Fayetteville, OH 45118. 2nd Annual Olivia Digital Mode Winter QSO Party - worldwide. See website for complete details. <https://OliviaDigitalMode.org>

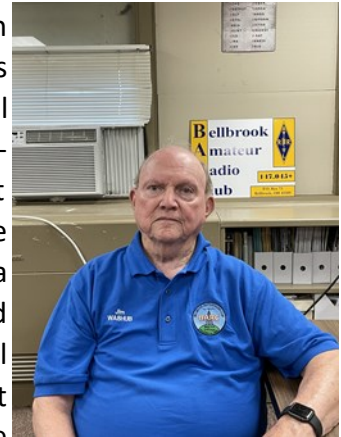
12/26/2024 | Battle of Trenton, Dec 26-Jan 2, 0059Z-0059Z, W2T, Trenton, NJ. Delaware Valley Radio Association. 14.280 21.280 28.430 7.220. Certificate & QSL. Delaware Valley Radio Association, PO Box 7024, Trenton, NJ 08628. www.w2zq.com.



My Way Into Amateur Radio

Jim Totten, [WA8HUB](#)

What a title!! Here is a story of how actions and interests finally ended with an amateur radio (Ham) license. Let me start in Junior High School. I was born and raised in and around Charleston, WV., actually at home in the small town of South Charleston across from an island that contained a huge chemical plant. (Union Carbide). The island actually had a name, Blaine Island. At the time I was born, my Dad was looking for a job. As I was growing, we moved a few times, but when I was to enter Junior High, we moved to a much better location that had a good elementary school for my handicapped brother. So into Woodrow Wilson Junior High School, I got in the school band playing the mellophone. It looked like a french horn but had trumpet like valves instead of the levers on the french horn. As with many of the backup instruments I played the Pah on the Ompah.



Lets get to the electronics. Our house had a half basement which had the laundry equipment and had room for a small workbench which I used. I played with a small radio which I think had only three tubes. To make it more sensitive, I put a long wire antenna on it and then built a wooden stand that held the radio and had uprights to wrap the antenna wire (my first foray into radio). We had a fancy cabinet radio that had more bands than the AM broadcast stations, more exploration. I also managed to get a record player hooked up for better music. By this time I was in High School and playing clarinet in both band and orchestra. I need to go back for a note. In junior high school 9th grade, we had a civics class. One of our assignments was to do a library search and report on possible careers. At that point I was hooked on electrical engineering. That was my focus through high school and into the University of Cincinnati. My real introduction to ham radio was at UC. The EE department had an inactive radio station, but they started a license class. There was no novice license so the first license required code at 13 wpm. I failed.

UC had a cooperative work schedule for the Engineering, Business, and Architecture colleges. I started my cooperative work at the end of my Freshman periods. The college negotiated the job scene and I was able to get on with the Appalachian Electric Power Company in Charleston W. Va. (I lived at home.) I was in almost every department in the local area. Here is a list:

Meter Department. I tested meter accuracy. As I became more proficient, I calibrated meters.

Line Crew. I was a grunt. Stood at the bottom of a pole with a rope block and tackle hoisting things up.

Survey Crew. I held the range pole for the surveyor.

Substation Crew. Hands on help servicing substations. Here was my accident. I was riding in the back of the stake bed truck and a 55 Gallon barrel of water jumped on my right foot. Broke some bones.



My Way Into Amateur Radio (continued)

Wood Shop. Went to the wood-shop during recovery and helped maintain hot line tools and built a new shelter for dynamite.

Engineering. Designed power line extensions etc.

Commercial Engineering. Supported customers direct. Had a company car.

When I graduated from UC, I opted to work in a lab at Wright-Patterson AFB. My first assignment was assisting a Major working with new electronic countermeasures equipment. This was the start of my complete career in what became the Air Force Research Laboratory. I started in 1956 and retired in 2005.

During the early years there was an actual AF MARS station on the base. In late 1963 the MARS station folks started an amateur radio class. We had to learn CW to pass a 5 wpm test. I studied and took the Novice exam and optionally could take what was then the Technician exam. It was equivalent to the General class exam today. As a result I got both a Novice ticket and the Technician ticket. Call sign WA8HUB (no changes for me.). In a locked cash box I rediscovered an envelope filled with past license papers. To make things easier I would just like to list what I found.

Technician 03/20/1963 – 03/20/1968

Technician 07/13/1979 – 07/13/1984

Technician 10/16/1984 – 10/16/1994

Technician Plus 01/31/1995 – 01/31/2005

General 01/31/1995 – 01/31/2005

General 01/05/2005 – 01/31/2015

Extra Test 02/09/2008

Extra 12/30/2014 – 01/31/2025

The first question you might ask is why in the Technician Plus and the first General have the same dates. Answer: When I went upstairs at HARA Arena to get my Tech Plus upgraded they gave me a General ticket with the same dates as the Tech Plus. I don't know what the dates were on my license from the Extra test. Lost in the past.



My Way Into Amateur Radio (continued)

My Clubs

I have belonged to four amateur radio clubs during my time as WA8HUB. The first was the Dayton Amateur Radio Association. My mentor was Rudy Plak, W8ZOF (W6TIK). We worked in the same office complex at Wright Field; I worked in Electronic Warfare, Rudy worked on the tail guns for the B-52 and B-58 bombers. Rudy was president of DARA in 1954 and Hamvention General Chairman in 1956-1957. Rudy lived on Epworth St near the Dayton State Hospital. I would go to his house working the VHF contests on AM. When Rudy retired he moved near San Diego (the 6 call).

The next club was the Bellbrook Amateur Radio Club. Some time between 2001 & 2006 I was working with Ray Hitt N8VMX and he introduced me to BARC. That was the start of some of my most enjoyable years as a ham. I was Vice President during Tink Siwecki KD8NUA's term as President (2018-2019). As is sometimes usual, I succeeded as President (2020-2021). Then Covid hit. The school/clubhouse was closed in 2020. Of course we weren't the only clubs (US wide) that lost their meeting place. At that time, the Ohio State Section Manager was Scott Yonally N8SY. He got funds to buy a copy of this new thing called Zoom. He announced the availability and I got in touch with him. In May of 2020 BARC had its first meeting on Zoom. We continued Zoom meetings until April or May 2021.

The third club I belonged to was the Alamogordo Amateur Radio Club. Obviously in Alamogordo, NM. My daughter lived there for several years and when I visited there several times so I tied up with them. When she moved to Kentucky I joined the Lake Cumberland Amateur Radio Association. I am still an active member of that club. That is about it for my story. I have had Hamvention Flea Market spaces, driven carts at Hamvention even last year in the rain. This year I am going to buy a ticket on line and just relax.

73, Jim [WA8HUB](#)



Answers to Amateur Radio Test Questions on pages 22-24

[Technician \(pg 22\)](#)

T9B10 (C)

T0B02 (D)

T1E10 (B) [97.3(a)(39)]

T1B02 (B) [97.301, 97.207(c)]

[General \(pg 23\)](#)

G8A09 (A)

G6A02 (B)

G9A01 (A)

G3A10 (C)

[Amateur Extra \(pg 24\)](#)

E7A01 (C)

E6F01 (C)

E1D01 (A) [97.3]

E0A03 (C)



Amateur License Test Questions

[Answers are on page 21.](#)

Technician

T9B10

What is the electrical difference between RG-58 and RG-213 coaxial cable?

- A. There is no significant difference between the two types
- B. RG-58 cable has two shields
- C. RG-213 cable has less loss at a given frequency
- D. RG-58 cable can handle higher power levels

T0B02

What is required when climbing an antenna tower?

- A. Have sufficient training on safe tower climbing techniques
- B. Use appropriate tie-off to the tower at all times
- C. Always wear an approved climbing harness
- D. All these choices are correct

T1E10

Which of the following is an example of remote control as defined in Part 97?

- A. Repeater operation
- B. Operating the station over the internet
- C. Controlling a model aircraft, boat, or car by amateur radio
- D. All these choices are correct

T1B02

Which amateurs may contact the International Space Station (ISS) on VHF bands?

- A. Any amateur holding a General class or higher license
- B. Any amateur holding a Technician class or higher license
- C. Any amateur holding a General class or higher license who has applied for and received approval from NASA
- D. Any amateur holding a Technician class or higher license who has applied for and received approval from NASA



Amateur License Test Questions (continued)

[Answers are on page 21.](#)

General

G8A09

What type of modulation is used by FT8?

- A. 8-tone frequency shift keying
- B. Vestigial sideband
- C. Amplitude compressed AM
- D. 8-bit direct sequence spread spectrum

G6A02

What is an advantage of batteries with low internal resistance?

- A. Long life
- B. High discharge current
- C. High voltage
- D. Rapid recharge

G9A01

Which of the following factors determine the characteristic impedance of a parallel conductor feed line?

- A. The distance between the centers of the conductors and the radius of the conductors
- B. The distance between the centers of the conductors and the length of the line
- C. The radius of the conductors and the frequency of the signal
- D. The frequency of the signal and the length of the line

G3A10

What causes HF propagation conditions to vary periodically in a 26- to 28-day cycle?

- A. Long term oscillations in the upper atmosphere
- B. Cyclic variation in Earth's radiation belts
- C. Rotation of the Sun's surface layers around its axis
- D. The position of the Moon in its orbit



Amateur License Test Questions (continued)

[Answers are on page 21.](#)

Amateur Extra

E7A01

Which circuit is bistable?

- A. An AND gate
- B. An OR gate
- C. A flip-flop
- D. A bipolar amplifier

E6F01

What absorbs the energy from light falling on a photovoltaic cell?

- A. Protons
- B. Photons
- C. Electrons
- D. Holes

E1D01

What is the definition of telemetry?

- A. One-way transmission of measurements at a distance from the measuring instrument
- B. Two-way transmissions in excess of 1000 feet
- C. Two-way transmissions of data
- D. One-way transmission that initiates, modifies, or terminates the functions of a device at a distance

E0A03

Over what range of frequencies are the FCC human body RF exposure limits most restrictive?

- A. 300 kHz - 3 MHz
- B. 3 - 30 MHz
- C. 30 - 300 MHz
- D. 300 - 3000 MHz



Editorial Policy and Style Guidelines for *Full Quieting*

Editorial Policy

Full Quieting welcomes articles from BARC members on any ham radio subject that is relevant to BARC. Our focus is our BARC members. We will not reprint items or articles that are easily available by other means (web, magazines, etc.).

Most articles will be “how to” or “what I did” articles that focus on technical or operational subjects such as a construction (antennas, equipment, stations, etc.), the use of hardware or software, operating in unique/challenging circumstances, or a memoir.

Full Quieting will also consider an occasional article on policy issues regarding the various national licensing/regulatory agencies and/or amateur radio associations so long as the article is relevant to BARC members and constructive in tone and recommendations.

Although all *Full Quieting* articles represent the experiences and points-of-view of their authors and not BARC, articles that focus on policy issues will be specifically labeled as a reflection of the author’s opinion.

Regardless of subject, when you submit an article you acknowledge that you are the original author or creator and you grant publication rights to BARC. Anything you submit remains your property and you may have it published elsewhere without the need for permission from *Full Quieting*.

Style Guidelines

Language: English is the official language of *Full Quieting* and all articles should be submitted in English. Don’t be concerned if English is not your first language: just tell your story in your own voice and use translating tools such as Google Translate to help if necessary.

File format: Submit your article as a Word, Word Perfect, OpenOffice or text file attachment to an email. A shared document available for download (such as a Google Doc) is also okay. **Do not submit as an email or PDF file.**

Pictures and other graphics: Do not embed pictures or tables in the article. Please submit as an email attachment or a shared image available for download. Please reduce the file size of the images before you send them to *Full Quieting*. Large files can be attached to a series of emails. Keep file size in mind regarding publication quality: for example, a half page image in the final PDF version of *Full Quieting* should be at least 400 pixels wide. If a photograph or graphic was taken or created by someone else, you should have their permission to use it and the permission of anyone identifiable in the image. **If you capture images from the web, provide a citation (URL) for that source and make sure the source does not prohibit use of the image in *Full Quieting*.**



Editorial Policy and Style Guidelines for *Full Quieting*

(Continued from previous page)

Use these style conventions

- We are hams, not Hams, and our hobby is ham radio This is a change to our original format
- The name of our organization is: Bellbrook Amateur Radio Club or BARC
- The code we use is Morse (capitalize the M)
- We use Yagi antennas (capitalize the Y)
- Q codes should be capitalized: QRM, QSB QSY
- The plural of QSO is QSOs, not QSO's
- Modes should be capitalized: CW, SSB, FT8, RTTY
- Bands are written as 10 m, 15 m etc.
- The abbreviation for a Silent Key is SK.
- You might have had an Elmer, not an elmer

Bruce N7RR has provided a [two-page check list](#) of common International System of Units (SI) formats and abbreviations.

Use these formatting conventions:

- Set all borders to 1 inch. The preferred font is Calibri, 12 point.
- Do not use tabs or spaces at the beginning of a paragraph
- Use only a single paragraph or carriage return at the end of each paragraph
- To enhance readability, use two spaces after the period at the end of a sentence.



Misc BARC Info

REGULARLY SCHEDULED NETS

Daily (Sunday through Saturday) 1030, 1615 and 1845 Ohio Single Sideband Net (OSSBN) Primary: 3972.5 KHz LSB Alternates: 3968 & 7272 KHz LSB

Weekdays (Mon-Fri) 1130 DMR Net Brandmeister Talk group 310557. Accessible via hotspot, 444.875 (+) CC13 TS2(Dayton East), 444.4375 (+) CC11 TS2 (Dayton West)

Sundays 1900 Newcomers & Elmers Net (Cincinnati) 146.670 (-) (123.0 PL)

Sundays 2000 **BARC Weekly Net 147.045 (+) (118.8 PL) [Alt 443.675 (+) (118.8 PL)]**

Sundays 2100 Miami Co. Voice & Data Net (Data Net follows Voice Net) 145.230 (-) (no PL)

Winlink Tuesdays GCARES Winlink Net Any time on Tuesdays Eastern Time Send To: W8LRJ, Cc: KE8FMJ W8GCA-10 445.010 (S), W6CDR-10 145.010 (S)

Tuesdays 1900 Dayton Veterans Admin Amateur Radio Club Net (W8DVA) 443.850 + 107.2 pl

Tuesdays 1915 Ohio ARES HF Net W8SGT Net Control at OEMA HQ Primary: 3902 KHz LSB (+/- QRM) Alternate: 7240 KHz LSB (+/- QRM)

Tuesdays 1945 Ohio Digital Emergency Net Primary: 3584.5 KHz USB (1500 WF) Alternate: 7072 KHz USB

Tuesdays 2000 MoCoARES Weekly Net 146.640 (-) (123.0 Hz PL) (Except—No Net on last Tuesday of even months (MoCoARES meeting) (Except—On 2nd Tuesday: Voice and Data Net on 444.250 (+) (123.0 PL)

Tuesdays 2030 Greene County DMR Net Primary: 444.875+, Color Code 13

Tuesdays 2100 GCARES Net (Voice & Data) 146.910 (-)(no PL) [Alt = 442.725]

Ohio Winlink Wednesdays OH ARES Winlink Net Any time on Wednesdays Eastern Time Send To: K8EAF, Cc: W8LRJ, KE8FMJ W8GCA-10 445.010 (S), W6CDR-10 145.010 (S)

Wednesdays 2000 Ohio District 3 ARES Net (West Central Ohio Regional Net) Primary: 145.110 (-) (67.0 PL) Alternate: 146.820 (-) (77.0 PL)

Wednesdays 2000 Beginners Net (Dayton Area) 444.875 (+) (94.8 PL)

ZOOM-Basic Setup & Configuration

Here's a link to the Zoom Video Tutorials: [Zoom how-to video tutorials – Zoom Help Center](#)

Also see: "Join a Meeting" and the "Joining & Configuring Audio & Video" tutorials for new users. Send questions or problems to John, [W8LRJ](#) ASAP but BEFORE the next meeting.

BARC Fundraising Opportunity — Kroger's Rewards Program Please use your Kroger Card when shopping at Kroger's and support BARC. If you haven't signed up and need help, bring your Kroger Card to the next BARC meeting, and we'll help you get registered (contact the [BARC Treasurer](#)).

ARRL Discounted Membership Offer One of the benefits of club membership is the opportunity to become an ARRL member at a discounted price. BARC is an ARRL affiliated club and receives a commission for new first-time ARRL memberships transacted through the club. BARC passes on this commission (discount) as a club membership benefit to promote ARRL membership. BARC members currently receive a \$15 discount on a NEW first year ARRL membership cost when placed through the Club. Please contact the [BARC Treasurer](#) for details.

