

# Full Quieting

The Official Journal of The Bellbrook Amateur Radio Club



August 2024 — Issue 36

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# SUMMER

<https://www.clipartbest.com/clipart-bcyLLK6zi>  
<https://www.clipartbest.com/clipart-RCAEKNAei>

## From the President & Editor

Greetings,

Take a breather, it's August already! Before long, those of you with kids or grandkids of school age will be sending them back to school. You'll be trying to squeeze a vacation in somewhere nice. Or, if you're like me, your looking at why you haven't been out to more POTA events than you have!

Not too many articles this month, but the club will be quite busy. Here are some examples...

BARC will be providing radio support to the Bellbrook Lion's Club parade route. If you're interested in public service you can bring along your HT and pair up with a more seasoned parade "veteran" if you're new at this. Once you do it, you'll be hooked!

There are a couple of fine "Lunch Bunch" gatherings this month, at the Yaffa Grill, then two weeks later at Chick-Fil-A. Another great opportunity to meet, greet, and eat!

I will be doing a two-parter Wednesday Tech Night covering how to set up a DMR hotspot. It's not too bad once you've done it a time or two.

Speaking of which, if you're not into DMR yet, reach out to me or several of the club members who are involved. DMR radios can be as inexpensive as a normal FM handheld, and we can assist you in getting your radio programmed and on the air. There's a DMR Net held Mon through Fri at 1130am and we'd like to hear from you.

So, get out and drink up the end of summer, and get on your radios, I hope to hear you out there!

**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 Quietening 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](#)

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



## Welcome New BARC Members!

Krista Wyatt, KB8MQ, Amateur Extra  
Charles Wasmer, N8RQT, Amateur Extra  
Nancy Wasmer, KC8NGB, Amateur Extra  
Richard Nelson, KF6BXG, General  
Christopher Beafore, WB3HIY, Technician  
Owen Callahan, NOCALL

## New Licensees and Callsigns!

Hal Hastings, KF8BRI, Technician (new licensee, congratulations!)  
Alex Baltes, KF8JAB, Technician (new call)

## Air Force Marathon Needs A Lot Of Ham Volunteers!

Registration is still open for the USAF Marathon (Saturday, Sept. 21, 2024)

Go to: <https://raceroster.com/events/2024/80803/2024-air-force-marathon-volunteer-registration>

Click on REGISTER

Enter your Email and Password, create a new account if you do not already have one.

(Be sure that there are no errors in the email address!)

Click on the pulldown arrow of Volunteer With Us!

Select "Volunteer on Saturday..."

fill out the personal information

Be sure to enter your callsign in the space provided.

Under "Amateur Radio Operator - 9/21" click the little circular button Check Add to order Select t-shirt size Click on CONTINUE (if you left a required field empty, you will receive an error message of some sort; fix it and CONTINUE)

You should receive a confirmation in a few minutes. If not, check Junk Mail, etc. If still nothing, let us know.

Send a message to [AFM.Hams@gmail.com](mailto:AFM.Hams@gmail.com) and report that you have registered. If you have questions, include them in the message body. Be sure to include your callsign. Also, at some point, you will need to submit your Driver's License number so that the Air Force can perform a security check. You may submit it at this time. If you are licensed in a state other than Ohio, please indicate.

Bob Baker N8ADO, Volunteer Lead for Amateur Radio support to the Air Force Marathon.



# What's Up BARC? (continued)

## Bellbrook Lion's Club Parade Support

The Bellbrook Lions Club parade will be **Saturday August 24, 2024, 4 P.M.** BARC supports this parade as a public service event and is typically the end of our public service events for the summer. I need at least 12 club members to assist with emergency communications and staging of line up of parade participants.

The parade events are an excellent opportunity for new ham operators and club members to experience working with a controlled net operation. The controlled net operations provide training for an actual emergency activation.

I will place new members with an experienced member to learn their assignment. An HT is helpful to have but not needed.

**We gather at the Bellbrook Community Church on SR-725 and Vemco Dr. by 3:15 P.M.** for assignments and updates. The parade starts from Vemco Dr. at 3:45 P.M. and is usually completed by 5:15 P.M.

I need to start planning our list of volunteers, if you can assist with the parade please send me an email soon. Additional information will be provided closer to the event.

***Don Parker, KB8PQL, Public Service Coordinator, aka. "Big Kahuna"***

## Donations help out BARC

This month, we had a two notable donations that really helped our club and the community.

In the first donation, we identified the need for bandpass filters on three of our four club stations. This came up during Field Day in June when we had difficulty operating four bands at the same time due to interference. An anonymous donor sent \$2000 to cover the cost of the three filters.

In the second donation, I scheduled some time at a Bellbrook City Council meeting to pitch our need to replace a mobile amateur radio that's been in service in the Bellbrook PD Training room. This radio is meant for use in an emergency when normal police/fire radios would be out of service. In that scenario, BARC would send an operator in to provide communications support to the Bellbrook PD. This radio was from 1996 and no longer compatible with modern repeaters. My talk was well received, but when I was done, instead of the city taking it on, we had an audience member, not part of the city council, offer to pay over \$300 for the radio himself.

It's donations like this that help amplify what BARC can do for the community. Thank you!!!

***Ray Hitt, N8VMX  
President, BARC***



# What's Up BARC? (continued)

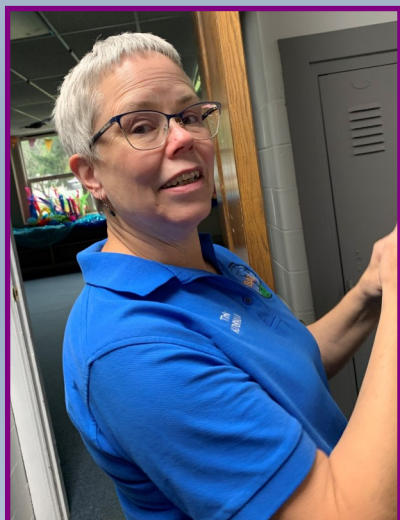
## BARC 50th Anniversary Open House

On Sunday, July 28th, BARC held a 50th Anniversary Open House. We operated a special event station using our club call sign of W8DGN, described what we do as a club to visitors and public officials, and even had a ham radio swap meet in the parking lot. There was a show and tell of several mobile ham radio installations hosted by Tim Proconiar, N8NQH (thanks, Tim!). And in spite of the afternoon rain, we grilled burgers and hot dogs under the canopy and many folks brought in a feast of covered dishes and desserts to enjoy in the clubhouse. This event was very well received, and we got some new BARC members on the spot. I could be convinced to do this year after year — any opportunity to gather together, talk ham radio and eat good food is hard to resist!



# What's Up BARC? (continued)

## BARC 50th Anniversary Open House (continued)



# Officer, Director, and Coordinator Inputs

**Treasurer: John Westerkamp, W8LRJ:** July was a very slow month financially as usual. We did receive a \$2000 anonymous donation for the purchase of 3 new filters (see [Communications Center](#) below). Thank you, thank you!

We continue to be in great financial shape.

**Repeater: John Westerkamp, W8LRJ:** 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:** Field Day results were presented at the July Membership meeting and submitted to ARRL. We made contacts with all 86 of the ARRL U.S. and Canadian Sections, 86 out of 86! We made 206 CW contacts, 444 phone contacts, and 296 digital contacts. Our total QSO points were the highest ever over the past 10 years, but we lost a lot of Bonus points by moving the event indoors into the clubhouse. Our resulting overall total of 3616 points was down from our usual total over 4000 points as a result, but still a great showing!

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 are still deciding whether to fix the fan dipole antenna and replace the balun or to purchase a new EFHW antenna. The remaining rooftop work may have to wait until the fall so we don't have to work in the summer heat. In the meantime, we have an EFHW installed on the rooftop (used for Field Day) that is currently using the fan dipole feedline. Connect your radio to the open 80-60-40m line on the antenna patch panel to use it.

We received a \$2000 anonymous donation for the purchase of 3 new Bandpasser II filters for the clubhouse stations. This will give us a full complement of filters at each station and allow us to compete in contests without RF interfering with each other. Thank you, thank you!

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!!

**Secretary: Jim Gifford, N8KET:** As your secretary I completed Planning meeting notes and General meeting minutes, emailing these to members. Submitted multiple photographs to Don Parker for his Field Day presentation.

After seeing a post on Facebook, I researched and presented an idea for a grant to BARC planning. After writing up the multifaceted grant application, the Planning members are going to research needs and decide possible action.

I sent a press release to local media about the 50th anniversary celebration, and I completed the wording for, and filled out the ARRL form, reference the special event station (anniversary of the Wright Brothers first flight) scheduled for 17 December. Working with Russ Roysden, a special email address was established for the special event. Submitted the form to ARRL 22 July.

**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 1 week in June 2024 and 4 weeks in July 2024 there were approximately 88 check-ins lasting 203 exciting and informative minutes. Topics ranges from Open Mike, Parks on the Air, what are your plans for the summer, did you participate in the 50th BARC Anniversary, tell us about your longest contact and what aspect do you like most about Ham Radio. 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. Jim Dean, W8UD, is an alternate.



# BARC August 2024 Event Calendar

Thu August 1, 2024

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

Sun August 4, 2024

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

Tue August 6, 2024

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

Sun August 11, 2024

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

Tue August 13, 2024

**11:15am Lunch Bunch**..... Where: Yaffa Grill

Thu August 15, 2024

**7pm Membership Meeting** ..... Where: BARC Clubhouse

Sun August 18, 2024

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

Wed August 21, 2024

**7pm Tech Night (Part 1)** ..... Where: BARC Clubhouse

Thu August 22, 2024

**7pm Dessert & Movie Night**..... Where: BARC Clubhouse

Sat August 24, 2024

**3:15pm Lion's Club Parade** ..... Where: Bellbrook Community Church

Sun August 25, 2024

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

Tue August 27, 2024

**11:15am Lunch Bunch**..... Where: Chick-Fil-A

Wed August 28, 2024

**7pm Tech Night (Part 2)**..... Where: BARC Clubhouse







## BARC Movie and Dessert Night



It's hard to believe that we only have three movies left of the **2024 BARC Dessert & Movie Night Season**. We've had quiet the movie adventure this year. We've been lost in the jungle and Chicago, gone fishing in the ocean, solved a murder, found gold, and fought in a war. We still have the opportunity for a little romance, fish for a bigger fish and see a few ghosts so we hope you join us for our next three movies.

As always 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!

### Upcoming Dates for Our 2024 BARC Movie & Dessert Nights:

- ✓ August 22, 2024      **The Lost City**
- ✓ September 26, 2024      **The Meg II: The Trench**
- ✓ October 24, 2024      **Ghost Busters: Afterlife**

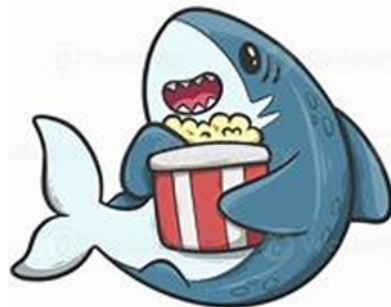


### Past movies and desserts:

- ✓ January 25, 2024      **The Adventures in Baby Sitting**
- ✓ February 22, 2024      **Murder on the Orient Express**
- ✓ ~~March 28, 2024      **Paul, Apostle of Christ**~~ **Cancelled due to scheduling conflict**
- ✓ April 25, 2024      **The Meg**
- ✓ May 23, 2024      **Mission Impossible: Dead Reckoning Part One**
- ✓ June 27, 2024      **The Call of the Wild**
- ✓ July 25, 2024      **Father Goose**

***We'll see you in August at the Movies!***

**Tink/KD8NUA**



# Lunch Bunch

Jim Totten, [WA8HUB](#)

Hello my fellow lunch lovers. August 2024 is here. And time to renew our lunch meetings for this new month. To recap: Our club meetings are on Thursdays. The Planning meeting is the first Thursday of the month and the General meeting on the Third Thursday. 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 the same chart in last months FQ listing our current set of restaurants. The August restaurants are highlighted. I updated all of the dates for 2024. 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.

July's restaurants were almost next to each other. On July 9th we dined at Roosters Wings, 2430 N. Fairfield Rd. Beavercreek, OH 45431. (7 eaters). By the time this issue of Full Quieting comes out, on July 23, 2024 we will have had our lunch at an old favorite, Golden Corral Buffet and Grill.

August lunches are very interesting. August 13th has the Yaffa Grill Mediterranean Food, located at 2844 Colonel Glenn Hwy. Fairborn, OH 45324. Phone (937) 429-4959. You have the choice of ordering off the menu or partaking of an excellent buffet. On August 27th we are back south next to The Cornerstone Complex eating at the Chic-Fil-A, 5301 Cornerstone N Blvd, Sugar creek Township, OH 45440. Phone (937) 439-1700.

That's a wrap for this month. Happy eating.

**73, Jim, [WA8HUB](#)**

## Tuesday, August 13, 11:15am

Photos on Tripadvisor

**Yaffa Grill**  
Mediterranean restaurant in Fairborn  
www.facebook.com/fairbornyaffagrill

136 Reviews Open Closes at 8 PM

Website Directions Call

2844 Colonel Glenn Hwy, Fairborn, OH 45324-6252

+1 937 429 4959

Sun 12-8 PM  
Mon 11 AM-10 PM  
Tue 11 AM-10 PM  
Wed 11 AM-10 PM  
Thu 11 AM-10 PM  
Fri 11 AM-10 PM  
Sat 12-10 PM

## Tuesday, August 27, 11:15am

**Chick-fil-A**  
Restaurant in Centerville  
www.chick-fil-a.com/locations/oh/cornerstone

10 Reviews Closed Opens at 6 AM

Website Directions Call

5301 Cornerstone North Blvd, In Cornerstone, Centerville, OH 45440

+1 937 439 1700

Sun Closed  
Mon 6 AM-10 PM  
Tue 6 AM-10 PM  
Wed 6 AM-10 PM  
Thu 6 AM-10 PM  
Fri 6 AM-10 PM  
Sat 6:30 AM-10 PM



# Lunch Bunch 2024 List

Jim Totten, [WA8HUB](#)

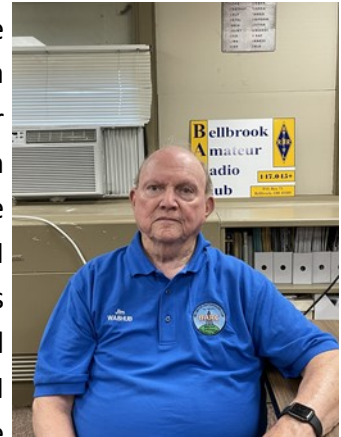
Date	Restaurant	Address	City	Phone Number
04/9/24	Cherry House Cafe	1241 Meadowbridge Dr.	Beavercreek, OH 45434	(937) 320-6200
04/23/24	Another Broken Egg Cafe 7:00 am to 2:00 pm	2453 Esquire Dr.	Beavercreek, OH 45431	(937) 912-5074
05/21/24	China Garden Buffet	112 Woodman Dr. Airway Shopping Center	Dayton, OH 45431	(937) 781-9999
06/11/24	First Watch 7:00 am to 2:30 pm	5245 Cornerstone North Blvd	Sugarcreek Twp, OH 45440	(937) 732-9013
06/25/24	Submarine House	3195 Dayton-Xenia Rd.	Beavercreek, OH 45434	(937) 429-8650
07/9/24	Roosters Wings	2430 N. Fairfield <i>The Shoppes at FC</i>	Beavercreek, OH 45431	(937) 702-9500
07/23/24	Golden Corral Buffet and Grill	2490 Commons Blvd.	Beavercreek, OH 45431	(937) 613-5478
<b>08/13/24</b>	<b>Yaffa Grill Mediterranean Food</b>	<b>2844 Colonel Glenn Hwy</b>	<b>Fairborn, OH 45324</b>	<b>(937) 429-4959</b>
<b>08/27/24</b>	<b>Chic-Fil-A</b>	<b>5301 Cornerstone N Blvd</b>	<b>Sugarcreek Township, OH 45440</b>	<b>(937) 439-1700</b>
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



# Want To Be On CW

Jim Totten, [WA8HUB](#)

I have a story to tell you. I passed my Novice and Tech Plus exams in late 1963 and I still have a copy of my 1964 license. In that year there was still a code requirement. So, I studied and passed my 5 wpm code test. I never made any CW contacts in those years. Life got in the way, I worked hard in the Air Force Research Lab, got married and we had one child. Then the code requirement was dropped in 2007. Because I had a Tech Plus license, I could automatically upgrade to General class. I went through the Extra Class manual front to back while my wife was in one of the sewing stores she liked to frequent. While she was shopping I sat at the pattern table and studied. I got my Extra Class license in 2014. I remember we had 1 code class in the Bellbrook Amateur Radio Club and I didn't do badly. I joined the Straight Key Century Club that year (Member #12001). Finally this year I decided to get serious. I had heard about the Long Island CW club and went to their web site and joined. Member #5519 and #140 in Ohio. I am now hard at work studying and practicing every day. I have checked my radio and put new cable to the antenna and will someday soon be on the air. Below I have inserted the two intro classes for the LICW. All you have to do is click on the links.



73, Jim, [WA8HUB](#)

Mon 6:00 PM ET Sending Prep -

Zoom A (<https://us02web.zoom.us/j/4540327566?pwd=Qjc5OFc0ZGYzSTgvOHM2dHdPcTVtQT09>)

Mon 7:00 PM ET: Introduction to LICW Club Resources -

Zoom A (<https://us02web.zoom.us/j/4540327566?pwd=Qjc5OFc0ZGYzSTgvOHM2dHdPcTVtQT09>)

LONG ISLAND CW CLUB  
Teachers of Morse Code  
longislandcwclub.org

<https://longislandcwclub.org/>



# A Rock and a Hard Place

Bill Salyers – [AJ8B](#)

After the recent outage at ARRL Headquarters, I felt like another opinion might be in order.

I am not an ARRL apologist nor am I someone who normally enters the fray just to be heard. However, after reviewing the comments in various locations such as groups.io forums, eHam forums, Facebook comments, and Twitter/X information that has been spread, I felt it was time to at least provide some potential insight surrounding the recent ARRL situation. I have no inside information but quite a bit of knowledge can be gleaned from what was said and what was NOT said. Anyone who thinks that the ARRL took this lightly or were too casual about it doesn't realize what was at stake or the people involved. There are some folks at the league that I have not agreed with, but I never questioned their dedication to the league or the hobby.

I am not a White Hat hacker and not an expert. I have learned things the hard way and then spent considerable time and energy to learn after the fact. In 2019, our company suffered a Ransomware attack at one of our locations shutting down a district office for several days while we dealt with getting 20+ users back online in a way that we felt confident that we could safely move forward.

After putting in our layered defensive scheme, we have received a top rating from our Cyber Insurance provider, been asked to speak at several conferences, and to be a reference for some of the products that we use. If learning the hard way makes you a bit more of an expert, then I am the guy to share some information.

As soon as the ARRL announced that there was an issue with most of the services and systems, one had to conclude that this was a complex and wide-spread attack. As they listed most of the services that had been shut down, LoTW was not on that list. As a very active and popular service, I assumed that some sort of nefarious activity was ongoing such as Ransomware. The idea behind Ransomware is that your files are rendered useless when the attacker applies some sort of encryption to them. Often you can open them, but they are filled with gibberish. You are then contacted by the attackers, either via email or in a pop-up window when you attempt to open an infected file, to supply some sort of payment (typically bitcoin) and the attackers will supply the reverse encryption key (you hope).

When we suffered our attack, we immediately contacted our cyber insurance provider for guidance. We had already isolated the office from the rest of our network. Our provider directed us to contact the FBI who assigned a special agent. The first order of business was to minimize our exposure to the public. We were told not to use terms such as Cyber-attack or Ransomware even to our users. We notified our users that we had a network component failure. The FBI's reasoning was simple. The attackers would be less likely to negotiate if they knew the entire picture and knew that they had you "over a barrel." *Rock and a Hard place #1 - presumably the ARRL identified a Ransomware attack and had notified the FBI.* I am confident that they were told not to mention anything about the severity of the attack. So, ARRL members wanted a full and accurate update and the ARRL *could not* provide one lest they compromise their bargaining position. When they ARRL did not give an LoTW update, wild speculation filled the void. Never helpful, but it happens.



## A Rock and a Hard Place (continued)

The second step involves identifying the attack vector. Was it social engineering (via email or a text message for instance)? Was it a website drive-by attack when someone visited a rogue website? Was it something brought in from the outside via a non-approved laptop, tablet, or a USB device? Perhaps a terminated employee was taking revenge!? There is a scarier situation than we have already discussed – what if something that was loaded on to a PC months ago was part of the objects that were backed up back then? Now when you restore from backup, you could be starting all over again. **Rock and a Hard place #2** – *All of this takes time*. The more time you take, the more frustrated the user community gets – I know, I have been there!



**This says it all**

Assuming it is a Ransomware attack, while you are going through the evaluation of how you were attacked, the extent of the attack, and what the state of your backups are, you are also performing a business analysis. I have no idea if a demand was made or what it was, but the average starting demand in 2023 was approximately \$568,000.<sup>1</sup> So now, you are comparing your lost business, functionality, and risk versus the demand. You might set up a test environment and restore your backups to see how quickly you can get things up and running. How stale is the latest backup? Conducting a forced rebuild is not the time to learn that you no longer have the correct tape drives, backup drives, software, or Code Words!

**Rock and a Hard place #3** – *Money!* It always comes down to money. Most organizations don't have unlimited funds and I am sure that the ARRL is no exception. In fact, with all the anguish and gnashing of teeth that recently occurred during the membership dues increase, the thought of buying new hardware, cloud services, new software, Cyber Engineers etc. would be the last thing on the league's mind.



## A Rock and a Hard Place (continued)

A practice that some companies employ is to relegate old servers to the data center. In many cases, a large server running windows will do a fine job running UNIX even as the hardware ages. It allows companies to avoid the capital expense that would be needed and is a common practice in non-profit organizations. They are hoping that they will never be a critical point of failure. "If it isn't broke, don't fix it!" Once these servers are set aside for a specific task, they are often neglected. It is easy to see how any company might use old hardware to support a project and then forget about it. Suddenly, it becomes a liability that only shows up during an audit or an attack.

We had one such server that we had to physically remove from the network. The software that ran on it was used by our HR department and the last version of Windows server that it could run on was Server 2007! That is no longer supported and is a huge liability. Once we identified the issue, we took it completely off the network and mothballed it.

As I mentioned, I have no inside knowledge of what the league was facing. I do know that these problems are complex, difficult, and are not aided by sages and experts who seem to know better. As I mentioned, I am not an apologist but I thought another viewpoint my help clarify what the league may have been going through.

Your thoughts and input are appreciated via the Groups.IO groups ARRL-Groups and LOTW-groups.

See you in the pileups.

**73, Bill [AJ8B](#)**

<sup>1</sup> <https://www.statista.com/statistics/1409510/ransom-payment-us-quarterly-amount/>

Answers to Amateur Radio Test Questions on pages [19-21](#)

<b>Technician</b>	<b>General</b>	<b>Amateur Extra</b>
T4B07 (B)	G3B11 (A)	E1D07 (A) [97.207]
T8A01 (C)	G4C03 (C)	E3B12 (B)
T9B02 (B)	G4D09 (B)	E7F14 (B)
T9B08 (D)	G9B06 (C)	E7G12 (A)



# Special Event Stations

Paul Sharp, [WS8R](#)

Here are a 2 links you can follow to find many SES that suit your varied interest. 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](http://www.arrl.org/special_events/search/page:2/model:Event).

[https://www.qsl.net/va3rj/spevents\\_dx.html](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 start of Westinghouse shortwave operations, Football Hall of Fame, celebrating the patron saint of radio amateurs, Indiana State Fair, popcorn festival, Knights of Columbus, Olivia digital modes, USS Midway, railway museums, light houses, dog day and many more. Such a deal, all for the price of yearly dues!

**08/01/2024 | KDKA Shortwave Broadcasting Centennial. Aug 1-Aug 4, 1200Z-1800Z, KD3KA**, Wexford, PA. Allegheny Valley Radio Association. 7.040 7.240 14.040 14.240. QSL. Allegheny Valley Radio Association, P.O. Box 550, Wexford, PA 15090 at the Hill Station, Forest Hills, PA in August 1924, under the call sign 8XK. 8AM to 2PM EDT each day. See [qrz.com/db/KD3KA](http://qrz.com/db/KD3KA) for details. <https://www.kdka100.org>

**08/01/2024 | Pro Football Hall of Fame Enshrinement Festival. Aug 1-Aug 5, 0400Z-0400Z, W8AL**, Canton, OH. Canton Amateur Radio Club. 7.200 14.285 21.320. Certificate. Canton ARC, PO BOX 8673, Canton, OH 44711-8673. On air times, bands, and modes subject to operator's availability. Watch for spots & digital modes. <https://w8al.org>

**08/01/2024 | San Max Celebration. Aug 1-Aug 31, 0000Z-2359Z, 4A2MAX**, Neosho, MEXICO. San Max Operators. 14175 21320 28420 7170. QSL. San Max Special Callsign 4A2MAX, MAXIMILIANO THOUS 16-24, Valencia E-46009, SPAIN. Special event where we celebrate the patron saint of radio amateurs, Saint Maximilian Mary Kolbe SP3RN SK, we invite you to contact us and be part of the celebration. <https://www.qrz.com/db/4A2MAX>.

**08/01/2024 | W8LKY Carnation Festival Special Event. Aug 1-Aug 11, 0000Z-2359Z, W8LKY**, Alliance, OH. Alliance Amateur Radio Club. 7.050 7.220 14.050 14.250. Certificate. Alliance Amateur Radio Club, P.O. Box 3344, Alliance, OH 44601. We will be activating W8LKY to commemorate Alliance OH at the birthplace of our state flower; the Scarlet Carnation. We will activate on as many bands & modes as we can. More information will be on our QRZ page, and at [w8lky.radio@gmail.com](mailto:w8lky.radio@gmail.com) or [www.w8lky.org](http://www.w8lky.org)

**08/02/2024 | Indiana State Fair. Aug 2-Aug 18, 2200Z-2359Z, W9ISF**, Indianapolis, IN. Indiana State Fair ARC. 14.240 18.15 7.240 28.400. QSL. Ken Bandy, 7405 E. County Road 900 N, Brownsburg, IN 46112. [ken.kj9b@gmail.com](mailto:ken.kj9b@gmail.com)

**08/03/2024 | Popcorn Festival, Van Buren, IN. Aug 3, 1400Z-1900Z, W9EBN**, Van Buren, IN. Grant County Amateur Radio Club. 7.250 14.250 DStar Ref #24 DMR TG 3100 / DMR TG 31656. Certificate & QSL. L B Nickerson





## Special Event Stations (continued)

**08/04/2024 | Knights of Columbus Supreme Convention. Aug 4-Aug 8, 0000Z-2359Z, K0C**, Bridgeton, NJ. New Jersey Knights of Columbus Amateur Radio Club. 7.185 14.250 18.140 21.350. Certificate & QSL. Thomas M. Perrotti, N2JIE, 785 Vineland Ave, Bridgeton, NJ 08302-4822. K0C will be in operation from various locations throughout the state of New Jersey, the United States of America, Europe and in Quebec, Canada, the site of the Knights of Columbus 142nd Supreme Convention.

[www.nj2kc.org](http://www.nj2kc.org)

**08/09/2024 | Summer Olivia Digital Mode QSO Party. Aug 9-Aug 12, 0000Z-2359Z, NW7US**, Anytown. 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 Summer QSO Party - worldwide. See website for complete details. <https://OliviaDigitalMode.org>

**08/10/2024 | Commemorating first deployment of USS Midway with angled flight deck (8/16/58). Aug 10, 1600Z-2300Z, 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](http://www.qrz.com/db/ni6iw)

**08/10/2024 | Herbert Hoover 150th Birthday. Aug 10-Aug 11, 1400Z-2300Z, W0JV**, West Branch, IA. Iowa City Amateur Radio Club. 7.245 14.325. Certificate. Dennis Boyd, 700 S. Jones Blvd, North Liberty, IA 52317.

**08/10/2024 | Wiscasset, Waterville, & Farmington Railway Museum Annual Picnic Special Event Station. Aug 10, 1000Z-1700Z, W1W**, Alna, ME. Lincoln County Amateur Radio Club. 14.260 21.280. QSL. Jose P Douglas, 254 Elliott Hill Rd, Round Pond, ME 04564. [www.qrz.com/db/k1lx](http://www.qrz.com/db/k1lx) or <https://www.k1lx.org>

**08/11/2024 | Navajo Code Talkers. Aug 11-Aug 16, 0000Z-0000Z, N7HG**, Chinle, AZ. N7HG. 14.265 21.265 7.265 18.133. Certificate. Herbert Goodluck N7C, PO Box 06, Chinle, AZ 86503. Celebrate an annual event to promote the legacy of Navajo Code Talkers of WWII [n7hgster@gmail.com](mailto:n7hgster@gmail.com)

**08/15/2024 | US Coast Guard Radio Station Guam/NRV 80th Anniversary. Aug 15-Aug 30, 0001Z-2359Z, N4V**, Memphis, TN. NRV Veterans. 7.030 7.185 14.030 14.235. Certificate & QSL. Jim Pogue, 699 Dickinson St, Memphis, TN 38107. [KH2AR@comcast.net](mailto:KH2AR@comcast.net)

**08/16/2024 | Field of Dreams. Aug 16-Aug 17, 1020Z-0920Z, W0DBQ**, Dubuque, IA. The Great River Amateur Radio Club. 7.282 14.282 17 meters 15 meters. QSL. GRARC, POB 12384, Dubuque, IA 52004. Come and have a pick-up game with us on the air. [w9upk@arrl.net](mailto:w9upk@arrl.net) or <https://www.w0dbq.org>.

**08/17/2024 | International Lighthouse Lightship Weekend. Aug 17-Aug 19, 0001Z-0000Z, T44IJ**, Isla de la Juventud, CUBA. Radioclub Isla de la Juventud (CO9DAA), Cuba. 7.091 10.131 14.090 21.091. QSL. Vasiliy, P.O. Caja "8", g. Novopavlovsk, distrito de Stavropol, RUSIA 357300, CUBA. La estación estará activando el Faro de Carapashibey al sur de la Isla de la Juventud, Cuba, con número de Isla NA-056 <https://www.qrz.com/db/T44IJ>

**08/17/2024 | International Lighthouse Weekend 2024. Aug 17-Aug 18, 0001Z-2324Z, W7FLO**, Florence, OR. Oregon Coast Emergency Repeater Inc. 14.265.000. QSL. COCARC, PO BOX 254, Florence, OR 97439. [info@w7flo.com](mailto:info@w7flo.com)



## Special Event Stations (continued)

**08/17/2024 | Nuclear Ship Savannah Maiden Voyage Anniversary. Aug 17, 1300Z-2100Z, K3S**, Baltimore, MD. Nuclear Ship Savannah ARC. 7.1 14.1 21.1 28.1. QSL. K3LU, 980 PATUXENT ROAD, Odenton, MD 21113. Single transmitter SSB and CW aboard N/S Savannah. Please check spotting networks for frequencies. Info on QRZ.com [www.qrz.com/db/k3s](http://www.qrz.com/db/k3s)

**08/17/2024 | Port Clinton, OH Lighthouse activation on Saturday, August 17th, 2024. Aug 17, 1500Z-2100Z, W8GNM/8**, Port Clinton, OH. Port Clinton Lighthouse Conservancy. 14.335 21.440 28.615 7.235. QSL. Geoff Mendenhall, 4720 E. Terrace Cir, 4720 E. Terrace Cir, Port Clinton, OH 43452. W8GNM/8 will be QRV from the Port Clinton Lighthouse during the Port Clinton Lighthouse Festival at Port Clinton, OH (ARLHS USA-922). Grid Square: EN81mm (<http://arlhs.com/events/>) International Lighthouse/Lightship Weekend Aug 17, 2024 at Port Clinton, OH. (US 0228) (<https://wllw.org/index.php/list-3>) Port Clinton Lighthouse Conservancy (<http://portclintonlighthouse.org/>) Check web clusters for specific frequencies. Typical 40m frequencies 7.200 or 7.235 Typical 20m frequencies 14.285 or 14.335 Typical 15m frequencies 21.350 or 21.440 Typical 10m frequencies 28.600 or 28.615 QSL via LoTW only to W8GNM/8. Operators: Geoff - W8GNM, Jay - K8CJY, Tom - KZ8ZZ, and Jon - KB8SRQ <https://portclintonlighthouse.org>

**08/21/2024 | International Dog Day 2024. Aug 21-Aug 26, 0001Z-2359Z, K2D, K2D/x**, Melville, NY. Caryn Eve Murray, KD2GUT. 7.045 14.050 21.030 28.050. Certificate. Caryn Eve Murray, 2 Wallingford Dr, Melville, NY 11747. CW and SSB operation only. Please check spotting clusters frequently. Certificate will be downloadable after event is over. qrz.com

**08/24/2024 | Radio & National Railway Historical Society. Aug 24, 0000Z-2359Z, K3IEC**, Mechanicsburg, PA. Cumberland Amateur Radio Club. 7.250 14.250 21.300 28.400. QSL. Frank Mellott, 1010 Good Hope RD, Mechanicsburg, PA 17050. Cumberland Amateur Radio Club celebrating the 2024 National Railway Historical Society convention in Harrisburg, PA. Modes expected to be CW/SSB and digital. See <https://www.radioclub-carc.com> for more details and QSL info.

**08/31/2024 | 33rd Annual Fly-In/Cruise-In Festival. Aug 31, 1200Z-1800Z, W9EBN**, Marion, IN. Grant County Amateur Radio Club. 7.260 14.250 21.350 DMR TG 3100 / DMR TG 31656. Certificate & QSL. L B Nickerson - K9NQW, P O Box 1786, Marion, IN 46952. Also DStar Ref #24B. Send QSL card in a large SASE [www.Grantarc.net](http://www.Grantarc.net)

**08/31/2024 | Auburn Cord Duesenberg Festival Special Event Station. Aug 31-Sep 7, 1323Z-1323Z, K9A**, Auburn, IN. Northeastern Indiana Amateur Radio Association. 40 Meters : 7.180MHz 20 Meters : 14.250MHz 10 Meters: 28.350 MHz. Certificate & QSL. Northeastern Indiana Amateur Radio Association, P.O. Box 145, Auburn, IN 46706-0145. [www.w9ou.org](http://www.w9ou.org)

**08/31/2024 | Return to Paradise - 46TH ANNIVERSARY. Aug 31-Sep 2, 1700Z-1700Z, K7RDG**, Sierra Vista, AZ. Cochise Amateur Radio Association. 7.225 14.074 14.285 21.225. Certificate. Cochise ARA, PO Box 1855, Sierra Vista, AZ 85650-9340. [WWW.K7RDG.ORG](http://WWW.K7RDG.ORG)



# Amateur License Test Questions

In honor of our Amateur Radio Training classes, here are some questions pulled from the Technician, General, and Extra question pools. Try to answer them and see how you did.

**Answers are on [page 15](#).**

## Technician

### **T4B07**

What does a DMR “code plug” contain?

- A. Your call sign in CW for automatic identification
- B. Access information for repeaters and talkgroups
- C. The codec for digitizing audio
- D. The DMR software version

### **T8A01**

Which of the following is a form of amplitude modulation?

- A. Spread spectrum
- B. Packet radio
- C. Single sideband
- D. Phase shift keying (PSK)

### **T9B02**

What is the most common impedance of coaxial cables used in amateur radio?

- A. 8 ohms
- B. 50 ohms
- C. 600 ohms
- D. 12 ohms

### **T9B08**

Which of the following is a source of loss in coaxial feed line?

- A. Water intrusion into coaxial connectors
- B. High SWR
- C. Multiple connectors in the line
- D. All these choices are correct



# Amateur License Test Questions (continued)

## General

### **G9B06**

Where should the radial wires of a ground-mounted vertical antenna system be placed?

- A. As high as possible above the ground
- B. Parallel to the antenna element
- C. On the surface or buried a few inches below the ground
- D. At the center of the antenna

### **G4C03**

What sound is heard from an audio device experiencing RF interference from a single sideband phone transmitter?

- A. A steady hum whenever the transmitter is on the air
- B. On-and-off humming or clicking
- C. Distorted speech
- D. Clearly audible speech

### **G3B11**

What happens to HF propagation when the LUF exceeds the MUF?

- A. Propagation via ordinary skywave communications is not possible over that path
- B. HF communications over the path are enhanced
- C. Double-hop propagation along the path is more common
- D. Propagation over the path on all HF frequencies is enhanced

### **G4D09**

What frequency range is occupied by a 3 kHz USB signal with the displayed carrier frequency set to 14.347 MHz?

- A. 14.347 MHz to 14.647 MHz
- B. 14.347 MHz to 14.350 MHz
- C. 14.344 MHz to 14.347 MHz
- D. 14.3455 MHz to 14.3485 MHz



# Amateur License Test Questions (continued)

**\*\*\* NEW QUESTION POOL (July 1 2024 through June 30, 2028) \*\*\***

## **Amateur Extra**

### **E7G12**

What is an operational amplifier?

- A. A high-gain, direct-coupled differential amplifier with very high input impedance and very low output impedance
- B. A digital audio amplifier whose characteristics are determined by components external to the amplifier
- C. An amplifier used to increase the average output of frequency modulated amateur signals to the legal limit
- D. A RF amplifier used in the UHF and microwave regions

### **E1D07**

Which of the following HF amateur bands include allocations for space stations?

- A. 40 meters, 20 meters, 15 meters, and 10 meters
- B. 30 meters, 17 meters, and 10 meters
- C. Only 10 meters
- D. Satellite operation is permitted on all HF bands

### **E3B12**

What is chordal-hop propagation?

- A. Propagation away from the great circle bearing between stations
- B. Successive ionospheric refractions without an intermediate reflection from the ground
- C. Propagation across the geomagnetic equator
- D. Signals reflected back toward the transmitting station

### **E7F14**

Which of the following would allow a digital signal processing filter to create a sharper filter response?

- A. Higher data rate
- B. More taps
- C. Lower Q
- D. Double-precision math routines



# 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.

