

# Full Quieting

The Official Journal of The Bellbrook Amateur Radio Club



January 2025 — Issue 41

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## From the Editor

Welcome to 2025! I hope it will be a good year for all of us. Now get ready to settle in for a few weeks of cold. Sitting by a fireplace reading all these good articles is a good place to start.

Welcome to our new President, Geoff Kline, KI5VNB, our new Vice President, Eric Bramini, KC8OPY, and our new Junior Director, Don Macon, KE8WVJ. It’s great to elect new leadership consisting of relative newcomers to our club. We’ll get new viewpoints to complement the ideas we’ve been working on all these years. That’s what makes our club so special. See the incoming President’s comments on page 3, and our incoming Vice President’s Bio on page 20.

Also in this *Full Quieting*, there are a couple articles related to our W8W Special Event Station last month; Winter Field Day, tips for protecting your POTA whip antenna when taking it to an event, details on building your own high capacity solar generator, and the other normal columns you’re used to seeing. **Movie Night starts back up this month, don’t forget!**

We’re voting on the proposed BARC constitution changes at this month’s membership meeting. I send it out on the BARC Reflector on Dec 24th, please e-mail me if you didn’t see it.

Based on the direction Geoff is taking the club, expect to see articles in Full Quieting that reinforce his guidance. There are a lot of learning opportunities in 2025 both for adults and youth, and I hope to inform you all in the upcoming year. If you have ideas to reinforce these ideas, please send them in.

Thanks as always!

**73, Ray Hitt, N8VMX**  
Full Quieting Editor



## 2024 BARC Officers and Directors

President: Geoff Kline, [KI5VNB](#)

Vice President: Eric Bramini, [KC8OPY](#)

Secretary: Jim Gifford, [N8KET](#)

Treasurer: John Westerkamp, [W8LRJ](#)

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

Junior Director: Don Macon, [KE8WVJ](#)

## 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?



# President's Corner

As we turn the calendar to 2025, I am honored to take on the role of president of BARC. First, I want to extend my heartfelt thanks to Ray Hitt for his dedicated leadership and unwavering commitment to our club. His guidance has left us well prepared to face the challenges ahead, and I am grateful for his service.

One of the most significant challenges we will address together in the coming year is the uncertain future of our clubhouse. For many of us, this space has been more than just a meeting place—it has been a hub for learning, camaraderie, and shared passion for amateur radio. While this change may feel daunting, I believe it also presents an opportunity for us to come together as a club, adapt, and thrive. I am confident that our resourcefulness and sense of community will guide us in finding a solution that preserves the spirit of BARC.

As we navigate this transition, I want to share some goals I hope to achieve during my time as president:

1. **Encouraging Lifelong Learning:** Amateur radio is a hobby that constantly evolves, offering endless opportunities to explore new modes, technologies, and skills. Continuing with what Ray started, my aim is to foster an environment where members feel inspired to continue learning and sharing their knowledge with one another.
2. **Engaging the Next Generation:** Introducing

the joy of amateur radio to young people in our community is crucial to ensuring the longevity of our hobby. By making radio accessible, fun, and relevant, we can spark interest and plant the seeds for the next generation of operators.

**Creating New Experiences:** Talking with our new Vice-President, Eric, we envision organizing an event that combines the excitement of a special event station with the adventure of a DXpedition—a “local DXpedition” within a few hours of Dayton. This would be an opportunity for members to bond, operate in a unique setting, and create a pileup that puts BARC on the map, all while enjoying a family-friendly weekend.

Looking ahead, I'm excited about several upcoming activities, including Winter Field Day and the January BARC Movie night. I encourage everyone to participate or even stop by to just socialize, and bring your ideas, energy, and enthusiasm. Amateur radio is at its best when we're working together and having fun.

Finally, I want to thank each of you for your support and passion for our club. BARC has a rich history of community, innovation, and excellence, and I am excited to build on that legacy in the year ahead. Let's make 2025 a year of growth, connection, and great QSOs. I look forward to seeing you at our next meeting or on the airwaves soon!

**73, Geoff Kline, [K1SVNB](#)**



# 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 Member!

Andrew Margraff, KC8AZW, Amateur Extra

## Congratulations Technician Class

I heard through the grapevine that we had 4 test-takers after our 9-week Technician Training Class in October-November. Out of those 4, all 4 passed!!! Good job! Welcome to the amateur radio community!

I'll get more details in January, and I'll give you an update. We'll see good things out of this class, just like we have from our earlier classes. Congratulations!!! — *Editor*

## DMR Radio for Sale

I have a Baofeng DM-1701 dual-band DMR Radio and accessories for sale. I also have an extra battery included. It comes with all the original accessories as shown here.

This radio was just sent to me by Baofeng in December as a warranty replacement to the DM-1701 I bought in April 2024. The previous radio had issues where it would spontaneously reboot, no matter how many times you re-flashed the firmware. This replacement radio has the latest firmware and doesn't have that problem. I loaded my codeplug and operated it long enough to determine it works. Estimated around 15 minutes total run time. If you have a DMR ID, I can assist you in building up a codeplug that meets your needs.

If you don't have a DMR radio yet, this might be worth a try. Bear in mind that this radio will also handle traditional FM repeaters and simplex as well as DMR. Asking \$40. For more information, contact Ray Hitt, N8VMX [n8vmx@bellbrookarc.org](mailto:n8vmx@bellbrookarc.org)



# Officer, Director, and Coordinator Inputs

**Treasurer: John Westerkamp, [W8LRJ](#):** Income from dues dominated December's books. Thanks to all who renewed their membership early! We are over 50% renewed already. Thanks also to all the Krogger Rewards participants as we earned over \$80 this month.

We continue to be in great financial shape.

**Repeater: John Westerkamp, [W8LRJ](#):** An Internet outage at the site (most likely due to the cold weather) kept us offline for a few days, but all systems are operational once again. A status page for the repeater services is now available on the website.

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](#):** Winter Field Day is coming soon! Watch the website and your email for details. There is now a status messages under the Repeaters page on the website. If something is not working, send a message via the Contact page.

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](#):** The Communication Center has been very busy with several contests and our Special Event Station. All stations were active and several new members got on the air for the first time! And the food was great! We will be outdoors for Winter Field Day in January.

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](#):** I spent most of my time campaigning for the election. It was hard fought, but I squeaked to a narrow victory. As secretary I sent out notes from the Planning meeting and minutes from the General Membership meeting. I also attended the two meetings, one in November one in December, with the other building tenants. Glenn Rodgers, John Westerkamp, and I put together the Special event, W8W, station on December 17. I sent out press releases before that event, and I have responded to about 115 emails from hams who contacted us.

**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 5 weeks in December 2024 there were approximately 75 check-ins lasting 181 exciting and informative minutes. Topics ranges from Open Mike, Parks on the Air, what are your ham radio plans for the next year, any exciting contact, what are your plans for Christmas, and if you were a good boy or girl, what is on your wish list for Christmas, and what new movies have you seen? We often have non BARC members checking in to enjoy the Net.

Our faithful Net Controllers are, Larry Darner KD8RER, Connie Gifford W8CSG, Tink Siwecki KD8NUA, Paul Sharp WS8R, and John Westerkamp W8LRJ. A special thanks to Joe Menchaca KE8UUQ, who has resigned as a net Control as of Dec 2025. Connie Gifford has graciously volunteered to fill that open position.





# BARC January 2025 Event Calendar

Thu January 2, 2025

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

Sun January 5, 2025

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

Tue January 7, 2025

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

Sun January 12, 2025

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

Tue January 14, 2025

**11:15am Lunch Bunch** ..... Where: Another Broken Egg Café

Thu January 16, 2025

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

Sun January 19, 2025

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

Wed January 22, 2025

**7pm Tech Night** ..... Where: BARC Clubhouse

Thu January 23, 2025

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

Sat January 25, 2025

**10am Winter Field Day** ..... Where: Hills and Dales MetroPark

Sun January 26, 2025

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

Tue January 28, 2025

**11:15am Lunch Bunch** ..... Where: China Garden Buffet



## BARC Movie and Dessert Night



Welcome to the 2025 season of BARC Movie and Dessert Night.

**January's movie is Harvey**, a movie where *"a whimsical man is thought to be insane due to his insistence that he is best friends with an invisible, humanoid rabbit, but he may be wiser than anyone knows."* {credit IMDB} A true classic we know you'll enjoy.

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:

Date	Movie	Genre	Actors
→ 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!***

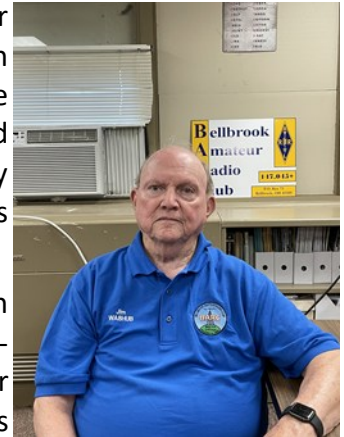
**Editor**



# Lunch Bunch

Jim Totten, [WA8HUB](#)

Hello my fellow lunch lovers. January 2025 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 January restaurants are 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 plural tense above.)

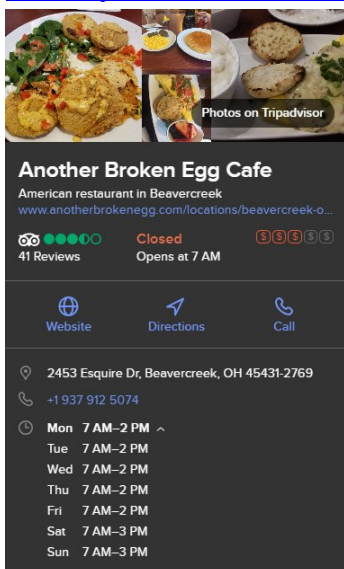
In December there was only one lunch, “**Cherry House Cafe**”, located at 1241 Meadowbridge Dr. Beavercreek, OH. Ray had a map showing the location. We had an outstanding turnout for this lunch. Total of nine folks enjoyed the superb food in this popular place. I had my favorite ‘Reuben Sandwich’ which also served as dinner the next day.

In January we are back to the standard two lunches per month. The two restaurants are also great favorites. January 14, 2025 we will eat at **Another Broken Egg Café**, located at 2453 Esquire Dr. (across the street from the Golden Corral). On January 28, 2025 we will eat at another favorite the **China Garden Buffet**. This restaurant is located in the Airway Shopping Center.

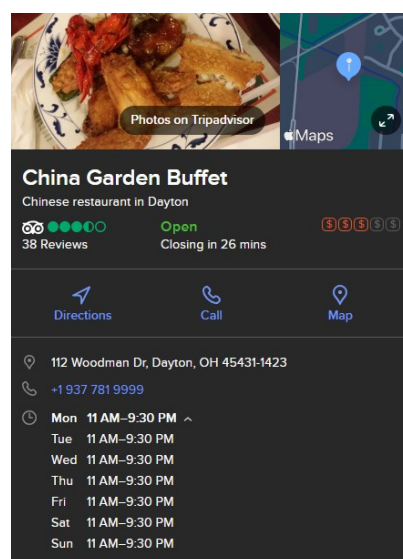
That’s a wrap for this month. Happy eating.

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

[Tuesday, Jan 14<sup>th</sup>, 11:15am](#)



[Tuesday, Jan 28<sup>th</sup>, 11:15am](#)



Click hyperlinks for more info and maps





# 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
<b>01/14/25</b>	<b>Another Broken Egg Cafe</b> <b>7:00 am to 2:00 pm</b>	<b>2453 Esquire Dr.</b>	<b>Beavercreek, OH</b> <b>45431</b>	<b>(937) 912-5074</b>
<b>01/28/25</b>	<b>China Garden Buffet</b>	<b>112 Woodman Dr.</b> <b>Airway Shopping Center</b>	<b>Dayton, OH 45431</b>	<b>(937) 781-9999</b>
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



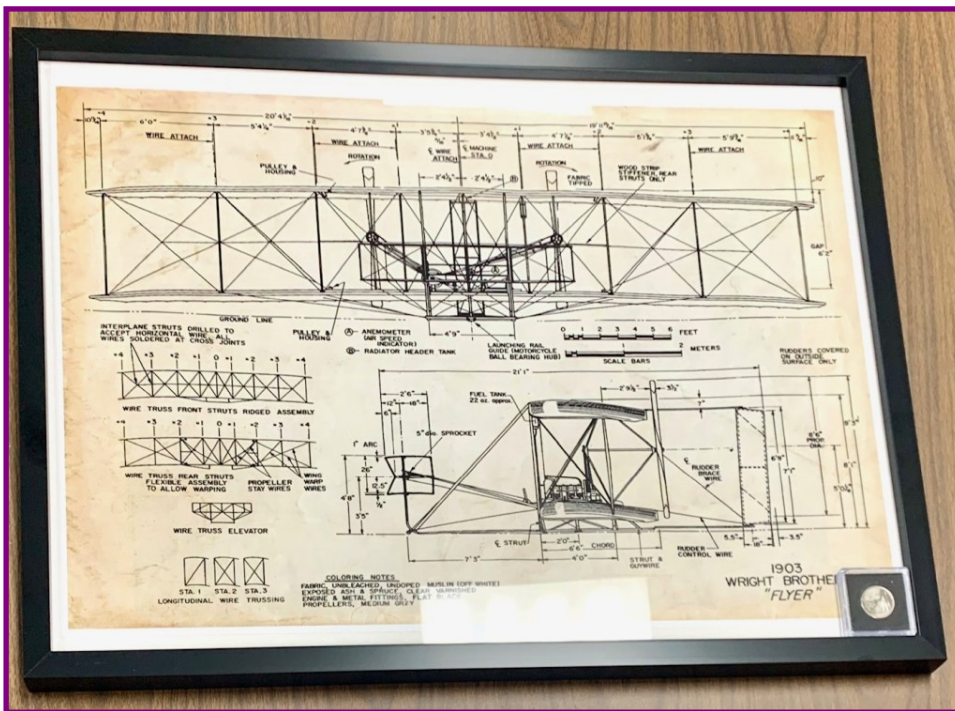
# W8W from Inception to Successful Completion

Jim Gifford [N8KET](#), Glenn Rodgers [W18O](#), and John Westerkamp [W8LRJ](#)



Twenty-one years ago I wrote an article for a defense contractor newsletter on which I served as editor and writer. That story highlighted the 100<sup>th</sup> anniversary of the Wright Brothers' first powered flight. Late last year, as I was trying to contact an amateur radio special event station, I thought, "Why can't BARC hold a special event on the anniversary of that historic flight"? So, with the help of Glenn Rodgers I started formulating the idea, and we brought it before BARC planning, who graciously gave us the green light to proceed.

As you might imagine, there are several steps needed to pull off a successful event. First, we needed to secure a special event callsign. I learned two facts: 1) ARRL is the facilitator of special callsigns, and 2) You cannot apply more than a year in advance. Secondly, we needed to determine what type of QSL we were going to send to those operators successfully contacted us. Postage is expensive, and we decided that the best way to recognize QSOs is through an emailed certificate saved as a portable document format (pdf) file. [Some readers are new to our lingo. QSL means "I am acknowledging receipt." QSO means "I can communicate with \_\_\_"]



Victoria Ballweg KE8ZNV, who has worked in commercial art design, volunteered to create the pdf file. I contacted ARRL as soon as permissible and obtained a one-day use of W8W for December 17, 2024. Next I contacted Russ Roysden N8NPT and asked him to set up a special email address, and Russ came up with the perfect name: [WrightFlight@bellbrookarc.org](mailto:WrightFlight@bellbrookarc.org). He set it up to forward requests to Glenn and me.







I sent the Special Event notice to ARRL for publication in QST. It was printed in the December 2024 edition on Page 90.

Glenn and I met a couple times discussing how and where to conduct the special event. We contemplated the possibility of activating it on one of the Wright Brothers local sites, including Wright Memorial (Hmm -- no, who wants to be up on an exposed hill in December weather in Ohio?), the actual flying field (a national park but there is no where to set up any type of all-day radio operation), the national park in west Dayton or at the Carillon at the Wright Brothers' Bike Shop (just not practical). So, the event was held at the BARC clubhouse.

If I may "borrow" a saying, and slightly alter it from "It takes a village" to: "It takes a whole club." We were successful because many club members helped ensure its positive outcome. John Westerkamp not only set up the patch panel and stations

ahead of time with Glenn Rodgers' help, he also reconfigured each station's computer logging software so that W8W could be logged and written to one main computer. He also established upload connections with Logbook of the World (LOTW), QRZ, and Clublog. I am ever so grateful for these fellows' help.

Tim Proconiar N8NQH contacted one of his many ham radio contacts and helped ensure that QRZ featured our activity prominently. Tim also blessed me personally by giving me a poster-sized replica of the Wright Brothers' first patent, which is now hanging prominently in my shack.

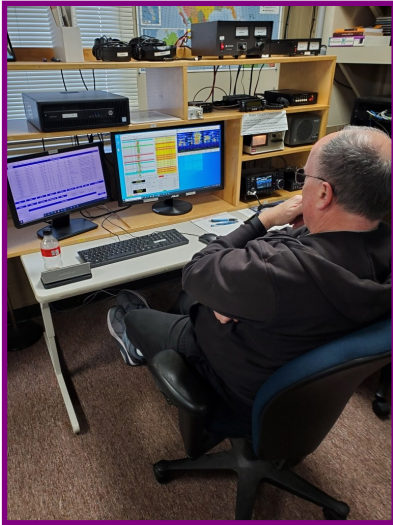


Several of you brought wonderful food in to empower the many eager operators. I could list contributors, but I may leave someone out, because I was busy all day and did not see who brought what in.

I sat next to Tom McClory KE8FWZ as he called CQ. He made each contact personal and inviting as he spoke about the Wright Brothers and how they engineered the airplane here in Dayton, Ohio.







We made 602 QSOs on several bands. I have emailed at least 107 pdf certificates to fulfill requests. One of our first email responses came from Luther (Cham) Watkins, Columbus GA, W3LCW: *"I was able to contact W8W this morning. As a new ham, my first event participation. It is especially exciting for me because I have been a licensed pilot since soloing on my 16th birthday in 1970, so the Wright Brothers event was one*



*I was hoping to make contact on. Those brothers were amazing men! Thank you for the special event and I hope y'all make a lot of contacts!"*

That email makes it all worthwhile, doesn't it?





20 Listed QSOs

ST	Name	Comments	Operator	Country
NY	JEFFREY	JEFFREY S DAVIS - 2	W1BO	USA
CO	TIM	TIM J ANNABLE - 1562	W1BRJ	USA
LA	WILLIAM	WILLIAM K DARCE, III	W1BRJ	USA
MD	JASON	JASON S JOHNSON -	W1BRJ	USA
KY	TERRY	TERRY R TURNER - 55	W1BRJ	USA
100			W1BRJ	USA
100			W1BRJ	USA
100			W1BRJ	USA
NC	JOSEPH	JOSEPH L MILLER - P	W1BRJ	USA
			W1BRJ	Canada
			W1BRJ	Canada
IN	WAYNE	WAYNE R MICHAEL -	W1BRJ	USA
VA	KARL	KARL J RENZ - 1116	W1BRJ	USA
PA	EDWARD	EDWARD F SCHENK -	W1BRJ	USA
CO	MARK	MARK VELDMAN - 230	W1BRJ	USA
NY	ERIK	ERIK W BERAMINO -	W1BRJ	USA
NC	KEVIN	KEVIN G LONG - 4505	W1BRJ	USA
CA	PAUL	PAUL J PICAZO - 6327	W1BRJ	USA
MI	DAVID	DAVID A HARNISH - 1	W1BRJ	USA
CA	BENJAMIN	BENJAMIN J SOPER -	W1BRJ	USA

Log: data/W1WV.mobi

Call: KJ4PZI Date: 2024/12/17 14:22 Band: 7.075 FTB Mode: -04 +03 Power: 100 Time On: 9:27:43 AM Sent: 14:27:43 UTC Rec: 14:27:43 UTC Country: USA

Name: State: County: Frequency: Other

QSL Sent:  QSL Rcvd:  Spot Last: 9:27:43 AM 14:27:43 UTC Log Contact

Bearing: 174 Miles: 569 Cont: NA

Comments

Time Off

CLUBLOG W8W

17:45:02 186 QSOs Rate: 1.2 QSOs/hr

160 80 60 40 30 20 17 15 12 10 6 4 2 70

Phone CW Data

Loaflet | © OpenStreetMap contributors

30:	20M	SSB	KC1RWR
29:	20M	SSB	KG5THA
28:	20M	SSB	KB3PGU
27:	10M	SSB	KT0DX
26:	20M	SSB	WB8WV
25:	20M	SSB	N2UBI
24:	12M	FT8	KG6PH
23:	10M	SSB	F5NZO
22:	20M	SSB	K8F7P
21:	20M	SSB	K9WDL
20:	12M	FT8	K7BUX
19:	20M	SSB	WB9MAI
18:	10M	SSB	WA5UA
17:	20M	SSB	AB3C
16:	20M	SSB	W4TLM
15:	20M	SSB	KEBPX
14:	20M	SSB	N3WVA
13:	20M	SSB	W2BCC
12:	20M	SSB	KO4FHB
11:	20M	SSB	K8BUVN
10:	12M	FT8	V51LZ
09:	12M	FT8	KA5W55
08:	12M	FT8	G8GFC
07:	10M	SSB	KG0KM
06:	10M	SSB	KC8NFN
05:	10M	SSB	CT1CAD
04:	12M	FT8	N6DLC
03:	10M	SSB	K0TRD
02:	10M	SSB	VE6MRT
01:	10M	SSB	F41VB

First QSO: 2024-12-17 13:56 Last QSO: < 1 hour Map pins: 30 Update rate: 3s Heartbeat: 17:45:00

Log Search DX Spots Live Stream by Club Log





# Response to our Special Event Station From Northwest Ohio

Ray Hitt, [N8VMX](#)

Jim Gifford, K8NET, forwarded me an e-mail from Bill Priest, W8BNO, who requested a W8W certificate from Jim. Bill hails from Bryan, Ohio, which is near where I grew up and where most of my relatives live. Bill gave me permission to include his words and photos here. I thought they'd be a nice addition to our Special Event Station article.

As you know, there is a bit of a rivalry between Dayton, OH and Kittyhawk, NC, when it comes to the origins of first flight. Since I worked at Wright-Patt 38 years, I think you know where I stand. Regardless of your viewpoint, both locations come into play! Bill's photos from North Carolina are excellent!



Thanks for the kind words and nice photos, Bill!



Full Quieting January 2025 Page 14

Jim,

Thank you so much for the courtesy you have extended to me. I was contacted by Ray Hitt after our club used the W8W Special Event call earlier this year, who sent me the information about your Special Event, which I used on our Facebook page. I hope you got a few calls from here in northwest Ohio.

As I told you, I have visited the Wright Brothers Memorial in North Carolina, so this was a special event for me. I'll attach a few photos from there.

I also see that your club was formed after responding to the Xenia tornado. I was working on the air at our broadcast radio station in Bryan that day, WBNO, when I started to receive teletype information on the devastation of Xenia and other tornado touchdowns that day. I have also served in our county disaster services agency, which is now the EMA. I have read about the response to the tornado in your community, and particularly of the amateur radio operators who were stationed at the schools where many people were evacuated after the tornadoes touched down there. I have read, and remember to this day, how you people made it possible for people outside of town to contact you and see if their loved ones were among the survivors...passing along that important information as the community lost phone communication and electricity throughout the city. It is a shining example of what the value of amateur radio can do in times of an emergency, and I often mention it.

God bless you all!!  
Bill Priest  
W8BNO

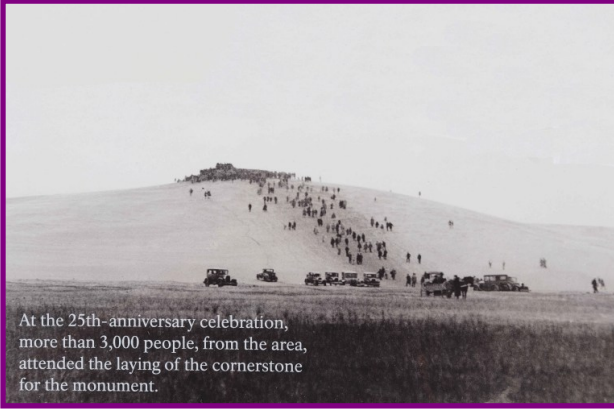


(Continued on next page)

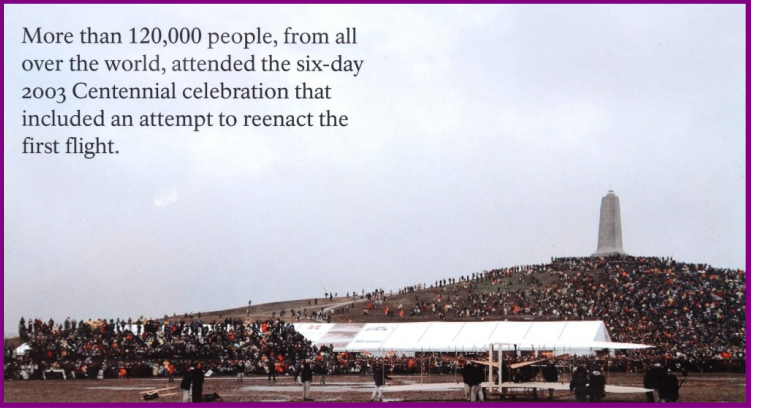
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# Response to our Special Event Station (continued)



At the 25th-anniversary celebration, more than 3,000 people, from the area, attended the laying of the cornerstone for the monument.



More than 120,000 people, from all over the world, attended the six-day 2003 Centennial celebration that included an attempt to reenact the first flight.



# Winter Field Day with BARC

Glenn Rodgers, [WI8O](#)

Once again it's time to think about Winter Field Day (WFD). The date for this year's fun event is 25 January 2025 (we will operate from 12:30 through 17:00. For all who have enjoyed WFD the last couple of years, I know you are looking forward to this one also. And for those operators new to BARC, please plan to join us for a truly unequalled event where we will set up radios and antennas around a nice shelter in Hills and Dales Metropark. You will see many similarities to summer Field Day, but also some major differences that truly make this a unique and fun event! The primary difference is that WFD is a smaller event where you will have the opportunity to use your radio in any mode you choose (with the exception of FT8... that is not permitted for WFD), and unlike Field Day, we we don't have to move BARC radios, antennas and support equipment to and from the event site. Operators (or groups) bring their own equipment out and setup, very similar to POTA / SOTA operating. This is a great venue for honing your portable operating skills, or just to "see how it's done" by others in the club. If you don't have a portable rig you are still encouraged to join in. If you've been considering POTA or simply just taking a transceiver with you on your next road trip or vacation, this is a perfect time to see how others do it and what equipment they use. So you do not have to have a portable kit in order to join in, get on the air, and see how much fun it can be! There will be plenty of radios and friends who like nothing better than sharing the fun with other club members.

The location has changed slightly from last year, as we have reserved the Twin Oak shelter this year. It is close to the old shelter but has the advantage of being higher on the hill (rather than in the valley), and is located beside the large water tower overlooking the Community Golf Course. The address is: [2655 S. Patterson Blvd](#). This shelter is a little smaller than the previous site but also has better shelter from the wind and elements even though it is higher in elevation. It does have a fire-place, and we have already ordered firewood... so it will be comfortable regardless of weather (yes, we will operate even if it's rainy).

We recommend using the club call sign (W8DGN) and using whatever logging program you normally use. After the event you can save your log as an ADIF file, get it to John Westerkamp or Glenn Rodgers by Wednesday after the WFD, and we will compile and submit the BARC WFD Log for you. Please note... no paper logs, just ADIF files. If you prefer to use your own call sign rather than W8DGN you may certainly do so, but we won't be able to submit any logs that do not use club call and are in ADIF form. But if you want to submit your own, you can find all information via the WFD website, simply go to this link— [Winter Field Day 2025](#) for complete information and rules. BARC is only operating for part of this event... should you wish to add additional time on your own, the event runs from 16:00 UTC Saturday through 21:59 UTC Sunday January 26.

**73, de Glenn [WI8O](#)**



# Protecting My 20M Whip

Larry Baker, [KB8EMD](#)

When I purchased my Wolf River coil antenna, I wanted a way to protect the collapsible whip. Using a PVC pipe and a couple of end-caps seemed to be the way to go; the whip fits nicely in my carry bag safe and sound.

When I purchased a 20 meter collapsible whip antenna, I thought why not make another that does the same thing? But this time I wanted to add an SO-239 or maybe a 3/8-24 stud coax connector to one of the end caps attached to the whip inside. I cut the PVC to length, added a 3/8-24 socket to SO-239 adapter to an end cap.

Now when I want to use the whip I mount the PVC pipe, pull out the antenna from inside just enough for the band I want to use, extend all the way out for 20 meters operations, shorter for other bands.

The whip stays protected when traveling and no more lost tubes.

There are differences in PVC pipe— the one that Ed Fong, inventor of the [DBJ-1](#) J-pole uses is Lowes item number 23990 200# type; it seems other white PVC types de-tune his J-Pole antenna. I'm not sure it makes a big difference here since he works in higher frequencies but if it's good for Dr. Fong it's good enough for me.

**73, Larry Baker [KB8EMD](#)**





# POTA Cold Weather Solution

Jim Gifford [N8KET](#)

Connie and I have ventured out a few times to activate Parks on the Air (POTA) in the frigid Ohio temperatures. Our Yaesu FT-891 radio is housed in a nice, compact plastic tool box, which we place on the back seat of the Jeep. Originally I attached the detachable, remote control radio head unit on top of a small plastic tool case weighted down with heavy bolts I placed inside of it. The attached control head and case sat on the dashboard, and it worked well for us. However, it concerned me to place that exposed radio control head, attached on top of that box, open in my POTA accessories box mixed with radials and other POTA things. That radio is too expensive to just toss parts around without adequate protection.



*Ball and Socket*



*Ball portion of the Lido mounted to box*

So I pondered, “How do I solve this”? I am convinced that much of my ham radio enjoyment comes from working on new solutions to problems. First I researched the best way to mount that detachable head unit. I ordered a Lido AD-3 VSM Adapters AD-3, Part Number: [LDO-AD-3 from DX Engineering](#). The bolt on this Lido part is designed so that it mounts to the back of the Yaesu head unit. This Lido part is in two sections: one mounts to the control head and one mounts to the surface of your choice. It has a ball and socket, with a compression ring, to secure the pieces together.



## POTA Cold Weather Solution (continued)



*Head control unit mounted to case*

Since we will use the radio in either my Honda Fit or Jeep, I chose not to mount it to the dash. Therefore I needed a portable solution. So, off to a local toy store: Harbor Freight. I purchased a small [Apache utility](#) box, which you can view in the photos in this article. The box comes packed with foam that can be cut to protect any number of small items, like a Yaesu radio head unit.

In summary, I can carry and protect the control head in this box. It takes me a minute or so to remove the it from the box, quickly attach it to the Lido bracket, place it on the dash or anywhere else you wish to sit, connect the cable, and be on the air.

By the way, I bought two of these handy boxes. Stay tuned soon for my next project.

**73, Jim [N8KET](#)**



*Control head in the case*

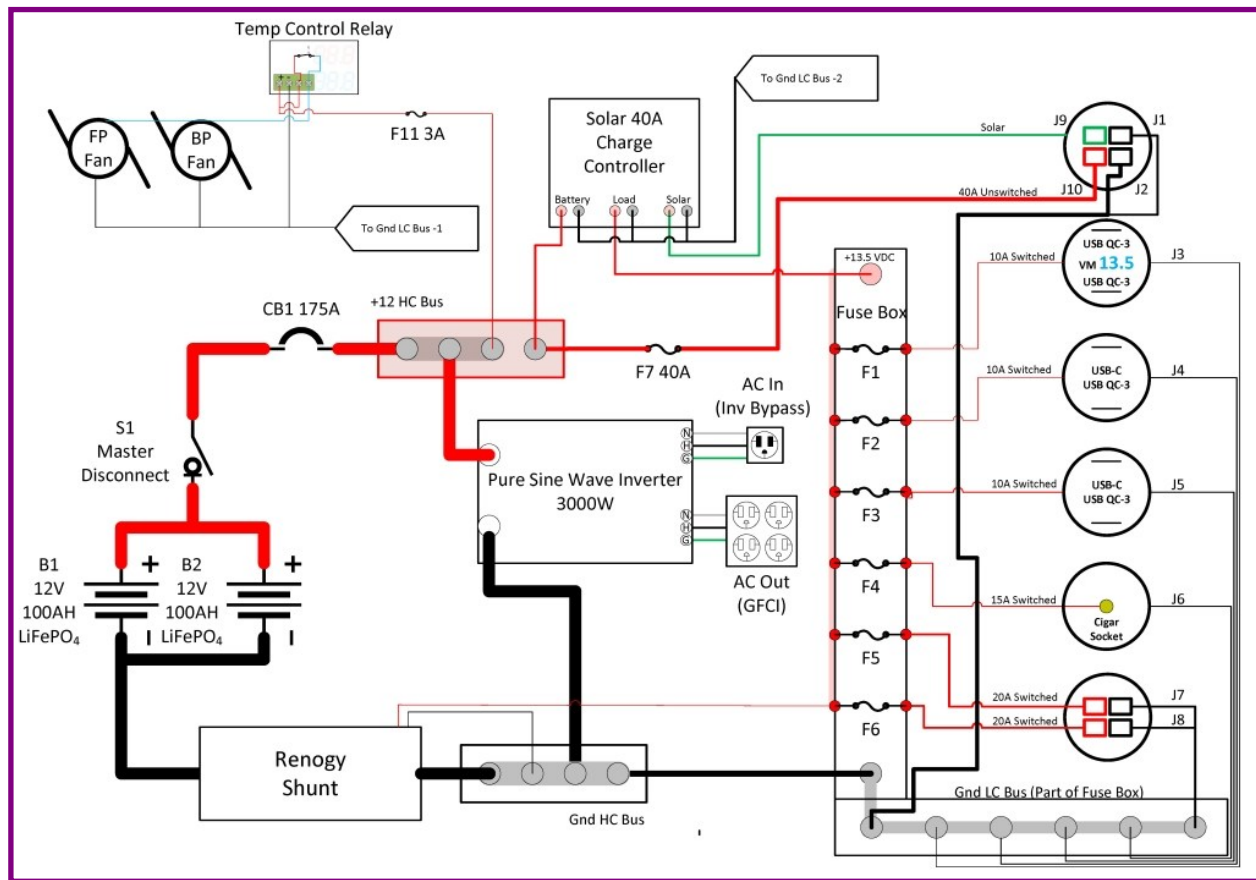
# Building a Solar Generator

Ray Hitt, [N8VMX](#)

Several months ago, I decided to build a solar generator; a huge step up from the battery boxes I built before (see [July 2023 Full Quietening, Page 16](#) and [January 2024 Full Quietening, Page 14](#)). I built 30AH and 50AH battery boxes, but this project was different. I wanted a lot more battery capacity, a 120 VAC inverter of sufficient power to run several refrigerators and freezer during a power failure, and ample 12V accessory power for ham radio and cell phones. This would be too heavy for POTA use, so I gave up on that.



Here's the schematic for the prototype, showing all the components I just



described. If it's too hard to read there's a full-page version just after this article.

The main components of the design are: two 100AH Renogy LiFePO<sub>4</sub> batteries connected in parallel, a 3000 watt pure sine wave inverter, and integral 40A Renogy solar charge controller. The pure sine wave inverter *requires (or the warranty is void)* 2/0 (or 00) gauge wire, which, if you haven't seen it, is as big around as your finger (0.365 inch copper diameter). I had to make a couple of component relocations once I realized the wire couldn't bend sharply. I needed to be mindful of safety considerations, since a short circuit involving wire of that size would be catastrophic. I incorporated a 125A cir-

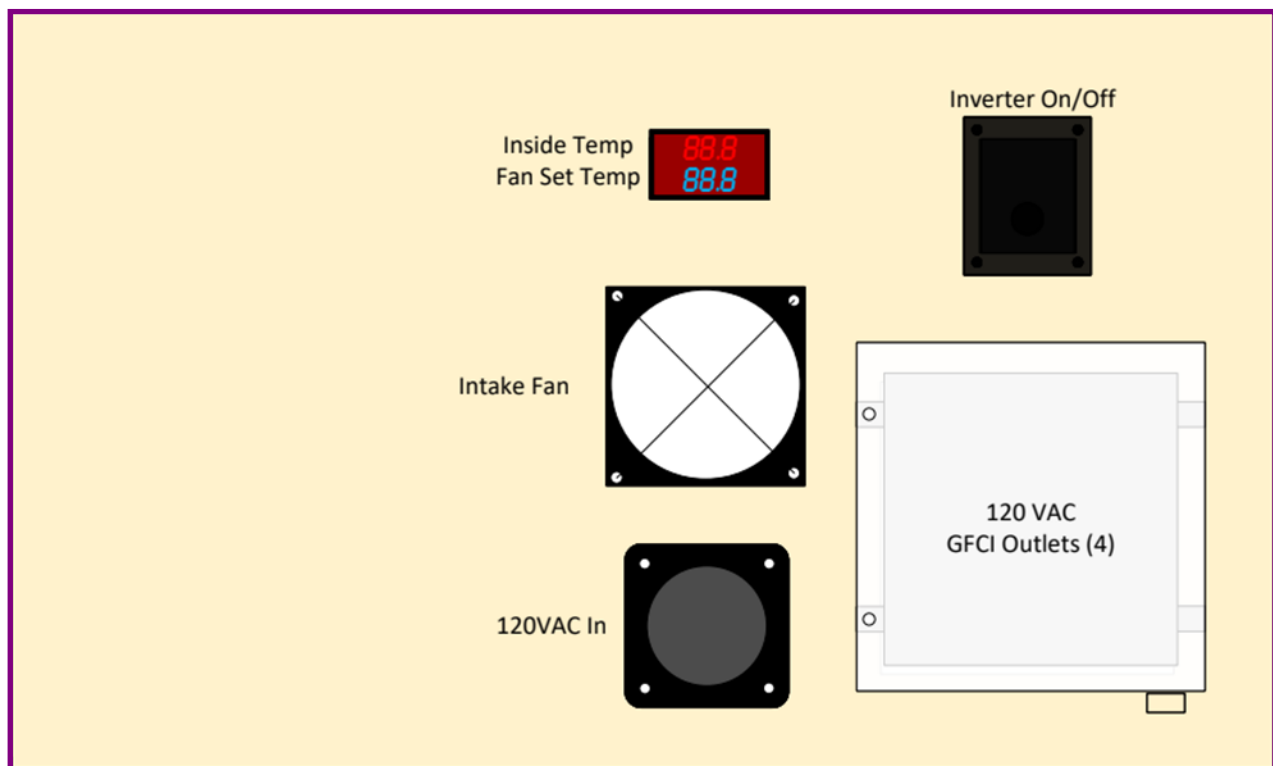


## Building a Solar Generator (continued)

cuit breaker and a 250A kill switch that would remove the batteries from the rest of the circuit. Since the power inverter was inside the box and had built-in temperature-controlled fans, I needed additional front and back panel fans to pull air in from the front and exhaust out the back. I added a programmable temperature-controlled relay to kick these fans on when a programmable temperature was reached. I added ample 12V accessories such as lighter sockets, USB chargers, and Powerpole connectors for radios and a green color-coded solar panel connection.

The wires are drawn on the schematic in different gauges. I used 2/0, 8, 10, 12, 14, and 16 gauge depending on the current requirements of the circuit (legend is on full page schematic).

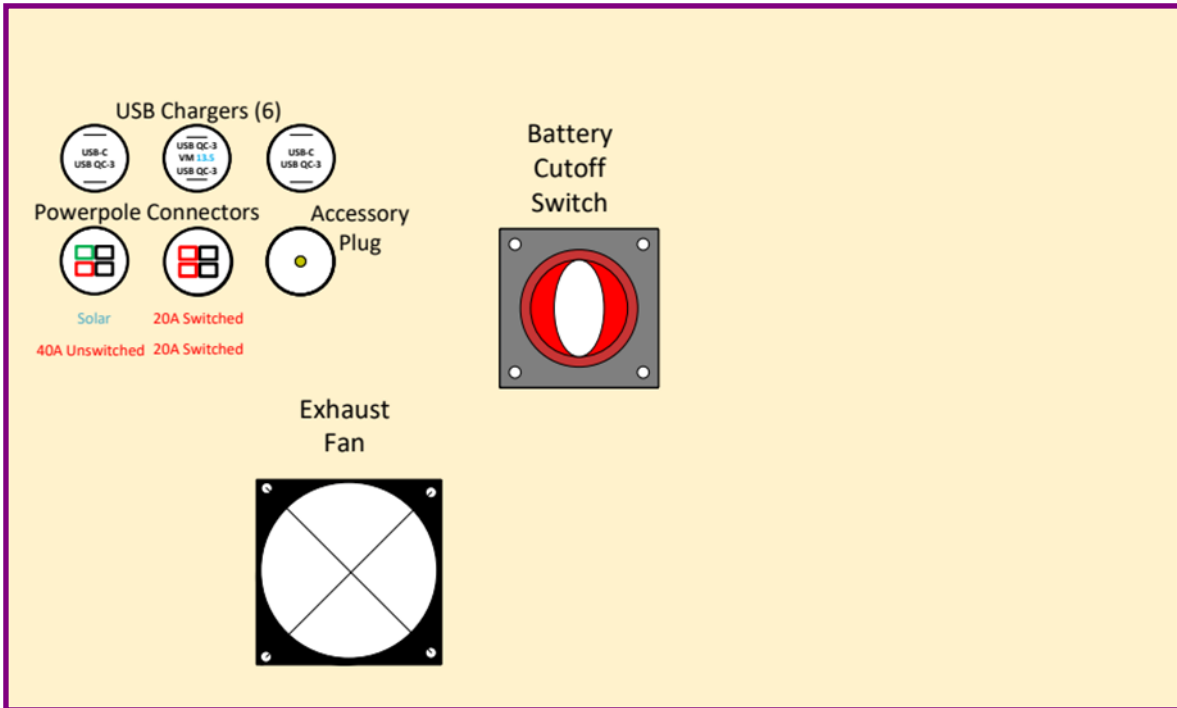
The front panel is as shown here. Because of the batteries on the left side, all the components are on the right half of the box. Starting at the top, there's a display showing the inside box temperature and



fan set temperature (this controls when the fans turn on). The Inverter on/off is a pushbutton remote switch to the AC pure sine wave inverter and energizes the 120VAC outlets. Below that are two pairs of GFCI outlets. There is one GFCI breaker controlling all 4 outlets. To the left of that is 120VAC in, which is optional but lets you run 120V appliances off external AC instead of the inverter. Once the 120VAC is missing, the inverter kicks in automatically and takes over. Lastly, above that is the intake fan.

The back panel is shown on the next page. The upper left area is the 12V accessories. There are three pairs of USB-A and USB-C charger jacks, and two pairs of Powerpole plugs. The green Power-

## Building a Solar Generator (continued)



pole is for direct solar panel connection, and below it is a 40A fused red Powerpole running straight to the 12VDC high current bus. The two red Powerpole plugs to the right of that are both 20A fused and switched on/off by the Renogy solar charge controller. Next to that is a normal 12V accessory plug.

To the right of that is the master battery safety cutoff switch. This safely disconnects the battery from everything, and is very useful when the generator is unused for a while by removing all loads.

Below that is the exhaust vent fan. This fan is switched on/off from the temperature-controlled relay on the front panel along with the front panel intake fan.

With exception of the 40A unswitched Powerpole, the 12V accessories are all connected to a fuse box that gets its power from a 20A switched load connection on the Renogy solar charge controller. This load line is turned on and off from the controller itself or remotely from the [DC Home](#) app connected through Bluetooth to the charge controller.



I used Visio to lay out the parts inside a box. I ended up with a box 24" deep, 20" wide, and 12" tall. This box when populated was going



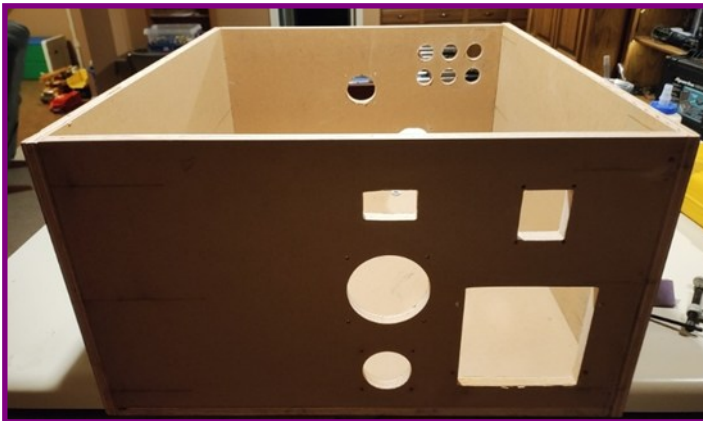
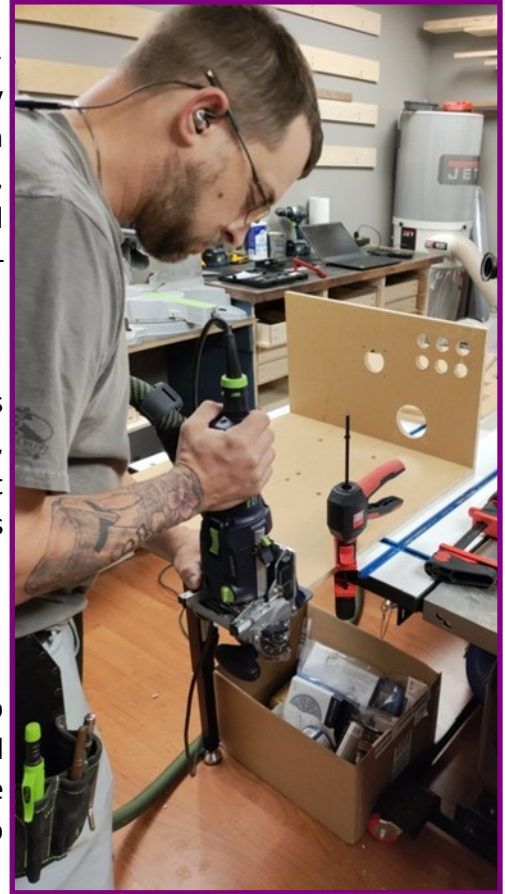


## Building a Solar Generator (continued)

to be *heavy*, not something even two people could lift, so I added a wagon undercarriage with 10" knobby tires to enable pulling this generator around indoors or outdoors. Not being a very good woodworker, I discussed this while at Hamvention with Paul Sushereba, WE8Y. He mentioned having a CNC table, which would automate cutting out the holes in my front and back panels. He also provided very good advice on what material to use;  $\frac{3}{4}$ " MDO. MDO is water resistant and should hold up well when the generator is used in a damp environment.

So, I spent a day with Paul, getting the boards cut out, the holes cut out on the CNC table, then the box glued together (bottom, sides, front and back). The CNC table was fun to watch cut out totally accurate holes based on my Visio cad drawings (converted to DXF format).

Here's some advice if you try this – Add .001" to the hole sizes. Here's why: I measured my components with a caliper and used exact dimensions in my drawing. When I sent the drawings to Paul and he input them into his CNC table, it faithfully made all the holes exactly as I specified. When it was time to mount the components, I had to file a few holes because they were too snug, there was no play at all!



Paul also had a tool that would cut oval holes into the sides of the panels, and then glue oval dowels into the holes. This made for a very precise edge for the box corners and strong joints.

Here's how the unpainted box looked when the glueing was complete.

When I got the box home, and after the glue dried, I painted the inside and out with many coats of spray spar varnish to further weather-proof the MDO. I then spray painted the outside surfaces with textured black enamel and

the inside with flat black enamel.

For the top, I cut a piece of  $\frac{1}{2}$ " plywood, and glued Tolex onto the outside surface. Tolex is the textured vinyl covering you see used on guitar amplifiers. It's pretty tough and water resistant. I used clasps around the perimeter to fasten the top to the box. I used gasketing around the perimeter of the inside of the box lid to prevent water getting inside and to dampen the vibrations of the lid against the box. The clasps I used are adjustable to get just the right amount of pressure on the box lid.



## Building a Solar Generator (continued)

Here's how it looks completed.



**Observations:** I tallied the total cost for all the components going into this solar generator. It was around \$2200 (see next page). This is pretty expensive; however the batteries and inverter alone were half the cost. I also spent a fair amount on large gauge wire, minimum quantities on bolts, MDO board, wire, etc. It all adds up. If I were making these in production, the unit cost would probably be less than \$2000. I did have a lot of wire, bolts, and MDO left over.

The cost can be reduced by using a different brand of battery, reducing the capacity from 200AH to 100AH, substituting a modified sine wave inverter for the pure sine wave inverter (if you aren't concerned about the appliances connected to the inverter), getting rid of the charge controller and shunt.

Like I said before, this unit is heavy. I haven't weighed it yet, but the batteries alone are 23 lbs. each. It may be around 100 lbs. total. Another issue is that the center of gravity is on the left side of the box where the batteries are. When I was taking the generator into the garage using a ramp, the generator actually tipped over! I also was not strong enough to roll this generator up the ramps into our SUV. I think I need to temporarily remove the batteries before transporting this anywhere. If I were to build another, I would lay it out with the batteries mounted sideways, not end-to-end lengthwise. I was focused more on minimizing high current wire length and didn't pay attention to the center of gravity. That's what being an electrical engineer acting alone does to you!

Despite the nuisance of this generator being prone to tipping, it doesn't tip when I wheel it around the driveway and into the backyard. It charges well and runs appliances for a very long time. The solar charge controller mounted inside the generator will not overcharge the batteries, and the batteries have self-protection to avoid undervoltage and overvoltage. They won't charge if they fall below 32° F. I have upped my solar panel capacity to over 800W to try and recharge as much as possible the next day after an event (or after I use my electric mower and need to recharge those huge cells).

I wanted to give a big thanks to Paul Sushereba, WE8Y, for his expertise and use of his woodworking equipment to fabricate the box used for this solar generator. If you're looking to build one of your own, get with me and I can give you all my lessons learned.

73, Ray [N8VMX](#)

Full Quieting

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(Continued on next page)

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# Building a Solar Generator (continued)

## Parts List With Links

<a href="#">Renogy 12V 100Ah Core Series LiFePO<sub>4</sub> Battery</a>	Qty 2
<a href="#">Renogy Battery Shunt 300</a>	Qty 1
<a href="#">Renogy 40A 12V/24V MPPT Solar Charge Controller</a>	Qty 1
<a href="#">Power Cut Master Switch</a>	Qty 1
<a href="#">175A Circuit Breaker</a>	Qty 1
<a href="#">High Current Bus Bars (Positive and Negative)</a>	Qty 1 Pair
<a href="#">Low Current Fuse Block</a>	Qty 1
<a href="#">3000W Pure Sine Wave Inverter</a>	Qty 1
<a href="#">3/8 x6" Carriage Bolts</a>	Qty 1 pack of 25
<a href="#">Hubbell 2-Gang Electrical Box Cover</a>	Qty 1
<a href="#">Hubbell TayMac 2-Gang Outlet Electrical Box</a>	Qty 1
<a href="#">Eaton 20-Amp 125-volt GFCI Residential Outlet</a>	Qty 1
<a href="#">Eaton Arrow Hart 20-Amp 125-volt Residential/Commercial Outlet</a>	Qty 1
<a href="#">2/0 3/8" Wire Lugs</a>	Qty 1 pack of 20
<a href="#">Wagon Undercarriage</a>	Qty 1
<a href="#">12V Electronic Thermostat Control Switch</a>	Qty 1 pack of 2
<a href="#">80mm Moisture-Proof High Airflow Cooling Fan 2 Wire 3Pin 3500RPM</a>	Qty 1 pack of 2
<a href="#">Panel Mount Housing for Two Anderson Powerpole Connectors</a>	Qty 2
<a href="#">12V USB Outlet USB C Car Charger with Voltmeter</a>	Qty 1
<a href="#">Spartan 10 Gauge Power Battery Cable, 25 feet, red</a>	Qty 25 feet
<a href="#">Spartan 10 Gauge Power Battery Cable, 25 feet, black</a>	Qty 25 feet
<a href="#">12 Gauge Marine Wire</a>	Qty 10 ft red, 10 ft black
<a href="#">14 Gauge Silicone Wire Spools</a>	Qty 25 ft red, 25 feet black
<a href="#">80mm Computer Fan Filter Grills</a>	Qty 4
<a href="#">NEMA 5-15 RV Shore Power Inlet Plug</a>	Qty 1
<a href="#">12V Car Cigarette Lighter Socket</a>	Qty 1
<a href="#">2/0 3ft Inverter Cable Set</a>	Qty 2 sets of black and red
<a href="#">4-8 Gauge AWG in-line 40A AGU Fuse Holder</a>	Qty 1
<a href="#">USB Charger Socket, USB-A QC3, USB-C QC4</a>	Qty 2
<a href="#">4x8x0.75 MDO</a>	Qty 1





# Eric Bramini Biography, BARC 2025 Vice President

Eric Bramini, [KC8OPY](#)

My name is Eric Bramini, KC8OPY, and I am 43 years old. I live in Washington Township (near south Centerville). I was licensed in 2000 as a Technician and earned my General in 2023. I had a friend that got me interested in ham radio. She mentored me through various ham radio projects like setting up and running a 2M repeater from her house and building an EchoLink from a parts kit to add to the repeater. A few years ago, she became a silent key (Stephanie Reeves, KA8HMJ) and while reflecting on the fun times I had tuning around on her HF radios, it made me want to upgrade to General.



My station consists of a PC connected to a Signalink sound card interface for packet and digital modes. I have a Yaesu FTM-300D dual band radio and a Yaesu FTDX10 HF radio. I have a dual band vertical antenna that's up 30ft in the air and an end-fed half-wave wire antenna that I use for HF. I enjoy hunting POTA stations from home and participating in any sort of contesting. I have made contacts as far as Bulgaria and European Russia. I am not much of a rag chewer but sometimes I just listen-in on the conversations.

Some things that I want to get into for the future would be learning CW and messing around with software defined radio (SDR). It would be a fun engineering project to build and launch a ham radio balloon sometime.

I graduated from Fairborn High School in 1999 and have a bachelor's degree from Wright State University. I worked as a consultant for 10 years for the Dayton Police Department deploying all sorts of law enforcement and officer-safety technology. I am an IT Systems Engineer and currently run a company providing business-class voice over IP (VoIP) service for the past 15 years. In my early years before starting my career, I worked in the restaurant industry starting with Youngs Jersey Dairy and ending with TGI Fridays; this gave me a great foundation of customer service and people skills.



I have been married for 14 years to my wife Jill and we have two boys, Raymond 12 and Brandon 9. They enjoy coming to the club meetings and field day. I am a private pilot and started flying when I





# Eric Bramini Biography (continued)

was 16 and got my license when I was 20. A few years ago, I earned my instrument rating.



My hope for my future in ham radio would be to attract more young people into the hobby and do what I can to contribute to the ham radio community.

**73, Eric [KC8OPY](#)**



Answers to Amateur Radio Test Questions on pages 22-24

## [Technician \(pg 31\)](#)

T0B03 (D)

T8C05 (A)

T4B02 (A)

T5C10 (B)

## [General \(pg 32\)](#)

G2A02 (B)

G4B10 (A)

G2E14 (D)

G3A11 (D)

## [Amateur Extra \(pg 33\)](#)

E7G06 (B)

E8C13 (B)

E7B08 (B)

E7F03 (C)





# Special Event Stations for January

Paul Sharp, [WS8R](#)

Special Event Stations (SES) Newsletter information for January 2025, 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: Annual Straight Key, various battles, Discovery of Gold, and Winter Field Day.

**01/01/2025 | 155th Anniversary of the Waco Suspension Bridge, Jan 1-Jan 12, 1500Z-2359Z, W5B,** Waco, TX. Heart of Texas DX Society. 28.437 SSB. Certificate. Larry Merritt, W5DXS, 3200 Colcord Ave, Waco, TX 76707-1814. <https://w5dxs.tripod.com>

**01/02/2025 | "Remembering WØJH Father Metcalf" at Belwin Conservancy, Jan 2-Jan 4, 1600Z-2300Z, WØJH.** Stillwater, MN. Stillwater (MN) Amateur Radio Assn - SARA. 3.860 7,260 14.260 21.360. Certificate. Shel Mann - N0DRX, 1618 Pine St W, Stillwater, MN 55082. This event pays tribute to the original WØJH, Father George Metcalf. As a WWII Chaplain for General Patton, Fr. Metcalf drafted the famous "Weather Prayer." The General and his troops believed it ended 3 months of cloudy, rainy skies in December, 1944. QSL certificates may ONLY be requested and will ONLY be sent via email. Send requests WITH WØJH QSO CONTACT INFO to: WØJHrequest@gmail.com. IMPORTANT: ONLY WØJH confirmed contacts qualify (See [www.radioham.org](http://www.radioham.org) and [QRZ.com](http://QRZ.com) (WØJH) for more details.) [www.radioham.org](http://www.radioham.org)

**01/02/2025 | 19th Annual Straight Key Month, Jan 2-Jan 31, 0000Z-2359Z, K3Y.** Ellicott City, MO. SKCC - Straight Key Century Club. 3.550 7.055 14.050 21.050. Certificate & QSL. SKCC c/o Ted Rachwal - K8AQM, 6237 Twin Lakes Drive, Kimball, MI 48074. K3Y/0 thru 9 plus KH6, KL7, KP4 and DX member stations in six WAC areas operating straight key, bug and cootie keys. QSL card confirms one QSO per area, up to 19 for all-area sweep. See URL for op sched/map, stats, etc. <https://www.skccgroup.com/k3y>

**01/03/2025 | Battle of Princeton, Jan 3-Jan 12, 0059Z-0059Z, W2P.** 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](http://www.w2zq.com).

**01/11/2025 | Commemorating USS Midway arrival at San Diego for museum ship conversion 1/10/04.** Jan 11, 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](http://www.qrz.com/db/ni6iw)



## Special Event Stations for January (continued)

**01/11/2025 | Scouters Winter Camp Out SWC2025.** Jan 11-Jan 12, 1500Z-0300Z, KB4RK / W4CEC, Blairsville, GA. BSA. 7,257 14,257 21,257 14,057 psk31. QSL. Russ Keller KB4RK, 1129 HIDDEN HILLS DR, Wake Forest, NC 27587. Commemorating the 57th annual event. Latitude: 34.9341294 / 34° 56' 2" N Longitude: -84.136338 / 84° 8' 10" W Grid: EM74ww <https://www.swcbsa.org>

**01/17/2025 | REFORGER 85 40th Anniversary,** Jan 17-Jan 31, 0001Z-2359Z, W9R, **Salem, WI. W9AFB. 7.250.** Certificate & QSL. Scott Grams, General Delivery, Salem, WI 53168. Commemorating the 40th Anniversary of the 1985 REFORGER Exercise. REFORGER ("REturn of FORces to GERmany") was an annual military exercise and campaign conducted by NATO during the Cold War. The exercise was intended to ensure that NATO had the ability to quickly deploy forces to West Germany. See W9R QRZ page for operating times, modes, and additional details. <https://www.qrz.com/db/W9R>

**01/25/2025 | Discovery of Gold in California,** Jan 25-Jan 27, 1700Z-0100Z, AG6AU, **Coloma, CA. El Dorado County ARC.** 7.248 14.248 21.348 28.348. QSL. El Dorado County ARC, PO Box 451, Placerville, CA 95667. [edcarc.net](http://edcarc.net)

**01/25/2025 | MRAC 108th Anniversary,** Jan 25, 1400Z-2100Z, W9RH, **Milwaukee, WI. Milwaukee Radio Amateurs' Club.** ~7.250 ~14.250 ~21.350 145.390. Certificate. MRAC, P.O. Box 26938, Milwaukee, WI 53226. The Milwaukee Radio Amateurs' Club was started in 1917 and is celebrating its 108th year of continuous service the amateur radio community. MRAC is the oldest club-affiliate of the ARRL. Help us celebrate and receive a certificate by contacting us on HF, our repeater, or WiRES-X. See our website for more information. <https://www.w9rh.org>

**01/25/2025 | Winter Field day,** Jan 25-Jan 26, 1900Z-1859Z, W2GSB, **West Babylon, NY. GREAT SOUTH BAY AMATEUR RADIO CLUB .** 28.340 21.250 14.246 7.245. Certificate. W2GSB, PO BOX 1356 , Lindenhurst, NY 11757. We will be running three stations using CW SSB FT-8. GSBAC prides itself on all its operating activities and the public service it provides for its members and the Town of Babylon and Suffolk County. We are running on Battery power. We look forward to working you all on the bands, and good luck to all. [WWW.GSBARC.ORG](http://WWW.GSBARC.ORG)

**02/05/2025 | Pluto Discovery Anniversary Special Event, Feb 15-Feb 23, 0000Z-1259Z, W7P,** Flagstaff, AZ. Northern Arizona DX Association. 7.290 14.090 14.290 21.290; all bands, all modes. Certificate & QSL. W7P c/o NADXA, 6315 Townsend Winona Rd, Flagstaff, AZ 86004-1493. Operating from the Lowell Observatory, and club member's home QTHs. [www.qrz.com/db/w7p](http://www.qrz.com/db/w7p) or [www.nadxa.com](http://www.nadxa.com)



# Amateur License Test Questions

[Answers are on page 28.](#)

## Technician

### **T0B03**

Under what circumstances is it safe to climb a tower without a helper or observer?

- A. When no electrical work is being performed
- B. When no mechanical work is being performed
- C. When the work being done is not more than 20 feet above the ground
- D. Never

### **T8C05**

What is a grid locator?

- A. A letter-number designator assigned to a geographic location
- B. A letter-number designator assigned to an azimuth and elevation
- C. An instrument for neutralizing a final amplifier
- D. An instrument for radio direction finding

### **T4B02**

Which of the following can be used to enter a transceiver's operating frequency?

- A. The keypad or VFO knob
- B. The CTCSS or DTMF encoder
- C. The Automatic Frequency Control
- D. All these choices are correct

### **T5C10**

How much power is delivered by a voltage of 12 volts DC and a current of 2.5 amperes?

- A. 4.8 watts
- B. 30 watts
- C. 14.5 watts
- D. 0.208 watts



# Amateur License Test Questions (continued)

[Answers are on page 28.](#)

## General

### **G2A02**

Which mode is most commonly used for voice communications on the 160-, 75-, and 40-meter bands?

- A. Upper sideband
- B. Lower sideband
- C. Suppressed sideband
- D. Double sideband

### **G4B10**

Which of the following can be determined with a directional wattmeter?

- A. Standing wave ratio
- B. Antenna front-to-back ratio
- C. RF interference
- D. Radio wave propagation

### **G2E14**

What could be wrong if you cannot decode an RTTY or other FSK signal even though it is apparently tuned in properly?

- A. The mark and space frequencies may be reversed
- B. You may have selected the wrong baud rate
- C. You may be listening on the wrong sideband
- D. All these choices are correct

### **G3A11**

How long does it take a coronal mass ejection to affect radio propagation on Earth?

- A. 28 days
- B. 14 days
- C. 4 to 8 minutes
- D. 15 hours to several days





# Amateur License Test Questions (continued)

[Answers are on page 28.](#)

## Amateur Extra

### **E7G06**

What is the gain-bandwidth of an operational amplifier?

- A. The maximum frequency for a filter circuit using that type of amplifier
- B. The frequency at which the open-loop gain of the amplifier equals one
- C. The gain of the amplifier at a filter's cutoff frequency
- D. The frequency at which the amplifier's offset voltage is zero

### **E8C13**

What is described by the constellation diagram of a QAM or QPSK signal?

- A. How many carriers may be present at the same time
- B. The possible phase and amplitude states for each symbol
- C. Frequency response of the signal stream
- D. The number of bits used for error correction in the protocol

### **E7B08**

Why are switching amplifiers more efficient than linear amplifiers?

- A. Switching amplifiers operate at higher voltages
- B. The switching device is at saturation or cutoff most of the time
- C. Linear amplifiers have high gain resulting in higher harmonic content
- D. Switching amplifiers use push-pull circuits

### **E7F03**

What type of digital signal processing filter is used to generate an SSB signal?

- A. An adaptive filter
- B. A notch filter
- C. A Hilbert-transform filter
- D. An elliptical filter



# 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.

