

North Fulton Amateur Radio League NFARL eNEWS

August 2023

*Over 42 Years Promoting
Service | Friendship | Education | Fun*

www.nfarl.org



Intro to SOTA & POTA - Activating and Chasing / Richard Dervan, N1RBD

Want to understand both?

SOTA has been carefully designed to make participation possible for all Radio Amateurs and Shortwave Listeners - this is not just for mountaineers! There are awards for activators (those who ascend to the summits) and chasers (who either operate from home, a local hilltop or are even Activators on other summits)¹. Parks on the Air[®] (POTA) is the site for international portable amateur radio operations that promote emergency awareness and communications from national/federal and state/provincial level parks². What is special about both of these Amateur Radio activities is that leaving your home shack is not required for participation! Come listen to Richard's presentation to understand more!



Richard Dervan, N1RBD has been active in both SOTA and POTA for the last 4 years. Licensed on 2019, Richard achieved his SOTA Mountain Goat status on Mount Mitchel in December 2022. Richard's other interests lie in SOTA/POTA hunting, CW, portable/mobile operating, QSL Cards, and kit/antenna building. He got a balanced portfolio that includes hiking, BBQing, geocaching, photography, and traveling. Richard and his wife live in Duluth, GA. You can visit Richard's QRZ page to learn more about his Amateur Radio activities.

¹. <https://www.sota.org.uk/>

². <https://parksontheair.com/>

Join us at Preston Ridge Community Center, 3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005 for the meeting. The facility's doors will open by 7:00PM. Our meeting will begin at 7:30PM and should conclude by 9:00PM. Unable to join in person? We'll run a Zoom conference connection. Use this link: <https://us06web.zoom.us/j/86255827457?pwd=a1FHR3F1bDBqMUUuY3plMDdFa2VMQT09>

Meeting ID: 862 5582 7457 Passcode: 584698

Need more meeting information? Please visit our web page at <https://nfarl.org/club-meetings/>

We are looking forward to seeing you Tuesday evening!

Feel like your "To Do" list has outrun you?

Here we are, beginning the third week in August 2023. Most local schools in our area have begun the 2023-2024 school year. Huntsville HamFest takes place in a few days. The Stone Mountain HamFest ticket booth is open. HamJam is less than 14 weeks away. Is your calendar starting to become full of events and activities to the point where you're feeling life has gotten too busy to enjoy what you're doing? Then, take a minute to pause and reflect on what you've done.

Looking back on what has transpired, big or small, successful or not, is a useful thing to do. Doing so helps one put things in perspective. When you compare the outcomes with the intended objectives, you're in a better position to ask yourself why things turned out as they did. Maybe you'll discover something about the event sequences and methods used that is valuable. Understanding cause and effect by learning through doing is useful, whether mistakes and errors occurred, or things turned out as a wild success.

Sometimes objectives are not always clear. Maybe they weren't stated so as to provide relevant timing and outcome requirements. Maybe they were interpreted differently by the various parties involved in the event. Evaluation from these points of view is a good thing to include while asking "why".

Out of habit, since it is August, I began looking at some of my personal plans in order that I might make some predictions to my target objectives. One area I have considered is my role as NFARL President. I would like some feedback on how well you think I'm fulfilling the role.

A select group of club members who participated in our ARRL 2023 Field Day event recently completed an after action review of sorts. The review started out by asking "what makes a good Field Day?" It didn't take the group long to discover that there are many opportunities we can leverage in order to make the 2024 event into a memorable achievement while appealing to a broader audience.

So while we start working toward improving chances for our next Field Day experience, I asked myself how else could we evaluate our club is performing? This might be a good indicator of my role as President. One idea is to look at the charter document. Article II identifies six specific purposes of the corporation relative to the Internal Revenue Code section 501(c)(3). You can find the Articles of Incorporation document at this link; [Articles of Incorporation](#)

I recommend you review the points in Article II and let me know your thoughts on how the club does relative to them. I'm sure there are actions that can be considered to help us achieve these purposes, which haven't been considered, or may now be worthy of reconsideration. Please take a few minutes and let me or any of the Executive Committee members know your thoughts. I look forward to your feedback.

73,

Mike Riley, KN4OAK

NFARL President

North Fulton ARES Update / Bill Largin, KN4DLE

Supporting the Aug 12 VE Exam Session – (Demo Days)

The NFARES group continued our practice of supporting the monthly NFARL VE Exam session. Members of the ARES group set up portable stations outside of Slope's BBQ to demonstrate Voice, Fldigi, and *WINLINK Global Radio Email*® transmission capabilities.

We introduced newly licensed hams to ARES and demonstrated some of the tools we most often use. This allows our group to talk about ARES and how Hams can get involved in this important aspect of Amateur Radio.

We demonstrated voice and Fldigi traffic via the 145.470 repeater. Then we moved on to sending a message to an email account using *WINLINK*. Seeing a newly licensed operator experience their first conversation on the Radio was great.

Thanks to the other operators that monitored the repeater and provided the other side of the conversation.

Operating from their shack;

- Mike - AD4MC - Great source of information, and sending emails and text messages to demonstrate the process
- Tammy - KK4USM - Tammy was on the net, ready to talk with the hams and welcome them to the hobby.
- Grant - KK4PCR - Grant was another operator that chatted with the new ham and helped congratulate the new users.

Operating from Slope's BBQ Porch;

- Bill – KN4DLE
- Scott - KM4JXE - Scott was on-site at Slopes. He was able to work with the new/upgraded operators, answering questions and providing demonstrations.
- Jim - K4OFV - Jim set up his portable rig to show how we can send text messages directly to an email address
- Bill Cassanova – KJ4WLF was providing assistance to Jim, K4OFV while greeting the new licensees.
- Robert - AJ4RJ (our New EC) - Robert was there to offer advice to the new hams and come up with some great ideas for how we can keep this practice going in the future.



We want to make this a regular practice. If you are interested in helping out, please get in touch with Robert (rachtenb@gmail.com))

Please let me or Robert, AJ4RJ know if you have any questions or want to get involved with North Fulton ARES. We would love to have more people involved, and it is a great chance to serve our community and "Play Radio."



Continued on next page-

North Fulton ARES Update / continued from previous page-



ARES has a New Emergency Coordinator

We are delighted to announce that Robert Achtenberg, AJ4RJ, will be taking over the position of Emergency Coordinator for the North Fulton ARES team beginning in September.



Robert is already an essential member of the ARES Groups and currently serves as AEC. We are confident that he will excel in his new role as EC with the support of our members. Our organization will continue to thrive and benefit our community.

Robert has some exciting plans for NF ARES, and with the strong support of the core AEC, we know that NFARES will continue to grow, providing support to our communities and NFARL.

Please get in touch with Robert if you would like more information on ARES and how you can get involved. You can contact Robert at:

Robert Achtenberg
rachtenb@gmail.com

Thanks in advance for your consideration!

Bill Largin, KN4DLE

Shack Design Notes

As I've moved along in my 62-year ham career, my interest in shack design has grown. Just as with the "best rig" and the "best antenna," there is no "best shack design." The best layout for your shack depends on how you plan to operate and how you address the tradeoff between performance and appearance. When you get down to the details, no two shacks are alike.

Will you be head-down for 24 hours trying to win a contest? Or do you resonant with the impression made by lights, meters, monitors and accessories? I call those "display shacks" and they're just fine if it's what you like. Most shacks fall somewhere between hard-core highly efficient contest shacks and beautiful-to-look-at display shacks. It's possible to design a shack that can be both efficient and visually appealing.

There is more to say on this subject than can be covered in one of these columns. Presented here are a few suggestions to help with shack design, or redesign. If this were QST, what follows would be under "Hints and Kinks," except "Hints and Kinks" is now "Hints and Hacks." I'll not comment on that change.

Here are some ideas in no particular order:

Power supplies: Perusing station pictures on the internet I see power supplies on many operating desks and sometimes they are front-and-center. Desk space is valuable real estate. When looking at a power supply there is nothing to see and nothing to adjust. Put the power supplies on the floor or somewhere out of the way.

Elbows: Your forearms and if possible your elbows need a place to rest. That place is not your lap. I see pictures of rigs set to CW frequencies with nice paddles on the desk. Those stations are obviously used on CW - at least part of the time. The space between the front of the radio(s) and the edge of the desk is three inches, or two inches, or one. How can anyone send that way? How long can you send CW with your arm in mid-air?

Even if you are just a casual SSB or FT-8 operator, some depth between the front of the rig(s) and the edge of the desk is desirable. If nothing else, there needs to be a place for coffee.

Legs: As with your arms and elbows, you need a place for your legs. Look at shack pictures on the internet. Some of the stations where the rigs come to the front edge of the table (it's not a desk at this point) have no opening for a person's legs. My guess is such stations are only to look at.

In complicated stations, keeping wires away from one's feet becomes an issue. Wire bundling is discussed below.

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Around the Shack / Hal Kennedy, N4GG

Chairs: They come in three distinct types: 1) good, 2) okay, and 3) terrible. If you like to operate, you owe yourself a good chair. The best chair I'm aware of is the Herman Miller Aeron. If you're unfamiliar with these you can Google "Aeron" and see what a great chair looks like. Scanning the specs of an Aeron, you will notice the myriad available adjustments and for sure you will notice the price. I have seen prices over \$1,000, but as I scan the internet tonight I see new ones advertised for under \$400.

I have bought two over the years. One I bought "new" on eBay for \$300. That was in 2003. I am sitting in it as I write this - 20 years later. I got my money's worth. Like many things on eBay, the chair was advertised as "mint" or "like new in the original packing." It was new - it just couldn't be advertised that way. My second Aeron I bought from K4JA as his shack was dismantled. Look for bargains if you want one.

At my last QTH I had an office and a ham shack. Each had an Aeron. Once you know what they look like you will see them on TV. Cable-news newscasters sit for four hours at a time – in Aerons. They are worth the money and are indestructible. There are, of course, plenty of other good chairs to choose from. Aerons have nice padded armrests. If you have one of those 3-inch deep operating desks, you will need a chair with good armrests. Aerons come in three sizes – A, B, and C. It's important to get the correct size.

Built-in Equipment: I've seen stations where fancy woodworking surrounds each piece of gear. These stations are impressive. The drawbacks should be obvious. You can't get to the back of any of the gear for repairs or experiments. You can't upgrade gear without a carpenter.

I was a guest op at HP1XX once for the ARRL DX contest. Everything at that station was built-in. We had an intermittent connector on the back of an unnecessary wattmeter - it took two hours to take the operating desk apart to get to it. There are approaches that mitigate the problem somewhat. I've seen entire build-in shacks on casters. Those can be rolled away from a wall to get to the back of things. I've seen built-in shacks built against a wall where there is an opening behind the gear to allow access from a room or chase behind the wall. But even with rear access, changing a rig or accessory requires a scroll saw and woodworking skills.

If your operating desk is not of the built-in variety, try to place it far enough away from a wall so you can walk behind it.

Bundled Cables: Complex stations usually benefit from cable bundling. If bundling, wire markers can be a big help. Bread wrapper tags make good clip-on markers. I wrote an Around the Shack column some years ago about noise generated by in-line power supplies (computers, monitors, SteppIR power supplies, etc.) magnetically coupling into coax. This can seriously raise a station's noise floor. NEVER bundle an in-line power supply (or its leads) together with coax runs. If you need to bundle, then it's one bundle for the signals (coax) and another for power. Keep them separated by at least six inches.

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Around the Shack / Hal Kennedy, N4GG

Lighting: Poor lighting is a significant contributor to operator fatigue and radio manufacturers aren't helping. TenTec Orions and many Yaesu rigs use black letters on black panels. Good grief.

Shack lighting is part common sense and part aesthetics. I prefer downward illumination onto my operating desk with no light directly in my eyes. Set up properly, enough light bounces off the desktop to illuminate the equipment front panels. This can be accomplished with lamp shades that are opaque – they only allow light to shine down. LED bulbs often have the bottom third (the socket end) made of opaque white plastic – these send all the light up and none of it down. Avoid those. Dimmable lighting can be helpful. Some people prefer dim red light if they are doing serious operating at night.

Here a few examples that illustrate some of the above suggestions.

Figure 1 shows the Florida condominium station at N4GG/4. This station is for one thing – operating. The power supply is on the floor. There is ample room for forearms, elbows and legs. There are no unneeded boxes (wattmeters, computers beyond one, external monitors, antenna tuners, etc.). The table lamp is small and shines down – no light is directed toward the operator. This station has worked the world on CW, SSB and FT8 on 80 through 6 meters. It's as ready for contesting as it is for a rag chew. Experiments and equipment changes are a breeze. It is not impressive. It is minimalist. It is eminently functional. It's an object lesson of what you don't need in order to have fun on the air.



Figure 1. N4GG/4. A no-frills station for DXing, contesting and fun.

Figure 2 is an example of a shack with the gear built-in. I cropped the photo to hide the owner. The rear of the gear is not accessible.



Nothing is easily changed or tested. There is no room for forearms or elbows. The operator sits sideways to the equipment! This station is impressive and dysfunctional. This station does not use the LOTW, has negligible QRZ inquiries and has not been seen by the RBN, which means it's seldom operated. This station is primarily for show. I have to admit, it is pretty.

Figure 2. A station where everything is built-in. There is no room for the operator's arms. This station would not be fun to operate.

Continued on next page-

Around the Shack / Hal Kennedy, N4GG

Figure 3 is the only known photograph of the Marconi wireless room aboard the HMS Titanic, circa 1912. The quality of the image is poor - it's a double exposure. The photo is, however, sufficient to see that Marconi had station layout figured out way back then. This is a serious commercial station. Telegrams (then called Marconigrams) streamed through here every night until April 14-15, 1912 when the traffic was all SOS and CQD (CQ-Distress). Marconigrams were paid for by the word. The radio room was a profit center for the steamship lines and for the Marconi Company. The two operators were expected to work long, hard shifts. The station had to be efficiently arranged to make this possible.

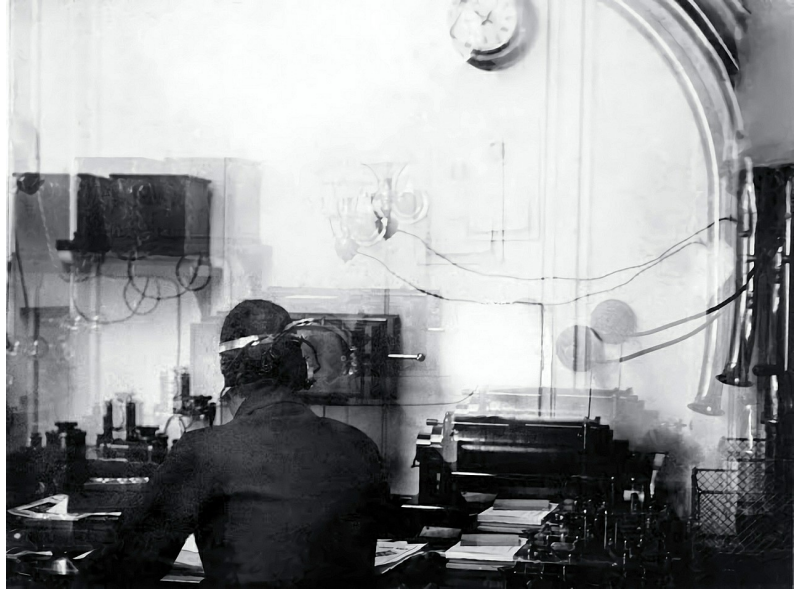


Figure 3. The Marconi room aboard HMS Titanic, Circa 1912.

What do we see aboard the Titanic? The power supplies are in another room – there is no need to have them in front of the operator. The operator faces the receivers. There is space for forearms and elbows, a necessity for long stints on CW. There is no extra gear. This is 100% an operator's station. This room saved 705 lives on the night of April 14-15, 1912. It also ushered in radio regulations for the first time.

I hope this has been helpful. Is it time to reevaluate your shack design?

73,

Hal N4GG

Nefarious E-mail / Mike Riley, KN4OAK

During the last 45 days several club members have reported receipt of e-mails requesting gift cards to be sent to help Veterans fight disease, and other reasons. These were sent using an email address using the element "president" @____ and didn't contain specific directions on how to respond other than "*reply if you have questions.*" Smells like phish to us...

Please be careful if you receive an email soliciting money or additional information. The email addresses we've seen involved to date are registered in Austria to owners with redacted information (names & other ID contact info). Best to just send them to your spam or trash folders.

Tech Recycling – It's Free! / Tony Santoro, WA3TRA

We all have the stuff, cables, disk drives, plastic CDs and cases. However, over time it accumulates, and we are clueless about what to do with it. I found a solution and it's free!



Ecycle Atlanta

[Atlanta Computer Recycling | Free Data Destruction \(ecycleatlanta.com\)](http://ecycleatlanta.com)

I was referred to them by a computer service company. If you have enough stuff, they will even send a truck to pick it up. Here's what I took to their drop off site:

- 1 – six IDE hard drives
- 2 - old memory strips
- 3 – a whole bunch of plastic CDs.

Here is the link to their list of items they will take: [Electronics Recycling List \(ecycleatlanta.com\)](http://ecycleatlanta.com)

Hard drives:



They have a machine on site that grinds them up into scrap metal. They will even let you grind them up. It takes 5 to 10 seconds to destroy a drive. Here is how it works:

- 1 – after inserting the drive, there are two large wheels that press the drive flat.
- 2 – next the machine grinds the drive into scrap metal. Look at the picture on the right, my drive is in there somewhere.



CDROM plastic disks:

Everyone has these and they are difficult to dispose of. This place takes them. Also, the technician advises the plastic cases are recyclable and they will handle them.

Check it out, it's better than putting the stuff in the landfill. They do make money from it, but that's not my concern. I have a problem that needs solved and they came through. Check them out.

[Atlanta Computer Recycling | Free Data Destruction \(ecycleatlanta.com\)](http://ecycleatlanta.com)

73s..

Tony

Congratulations New & Upgraded Hams! / Wes Lamboley, W3WL

Thanks again to Slope's BBQ for the use of their dining room in testing three new hams this past Saturday morning. Ian Kahn and his hearty crew of Volunteer Examiners were again on hand to administer the tests to the candidates. All passed their tests; they were-

1. John Kreiter - John got both his Tech and General in one sitting. He got interested in ham radio whilst in the Army and is now a communications consultant to the Army. He is married and has three children - ages 11, 12, and 15. He thinks at least one of them will be a ham soon. BTW- John already has an IC705 he has been playing with...

2. Alejandro Uiffe - Alejandro got his Tech - at the tender age of 12 years! He comes from a ham family, as his dad, Enrique - K1KEU - is an Extra class and a member of NFARL.

3. Stephen Baker - Stephen got his Tech. He works as a mechanic in Roswell and got interested in radio when a co-worker introduced him to GMRS radio. Now he is a ham and is interested in getting involved in SOTA.

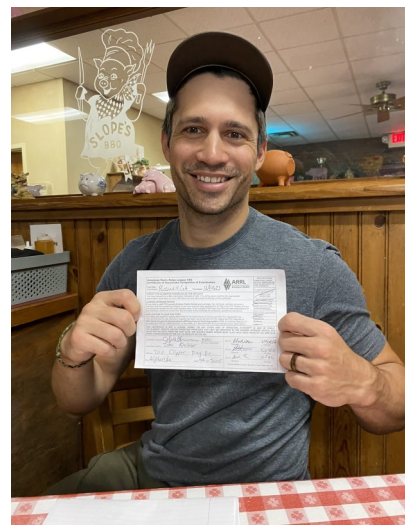
All three were treated to a live demo about ARES, as Bill Largin - KN4DLE - and his worthy ARESers and their "GO Kits" put on a real time demonstration of their equipment and logged several contact with the new hams using the microphones. Check out the photos in the article above.

Thanks again to Slope's for being the catalyst allowing this happen, and do remember to ask me about the Catalyst that walked into the bar!!

<u>Candidate Name</u>	<u>Call (if applicable)</u>	<u>Test</u>
Stephen Baker		Tech
Alejandro Uiffe (youth)		Tech
John Kreitler		Tech and General



Alejandro Uiffe



John Kreitler

Extra Extra! / From the Extra Class Question Pool

New info for Technicians and Generals and a refresher for Extra Class Licensees!



E9E02

What is the name of an antenna matching system that matches an unbalanced feed line to an antenna by feeding the driven element both at the center of the element and at a fraction of a wavelength to one side of center?

- A. The gamma match
- B. The delta match
- C. The epsilon match
- D. The stub match

See answer on the last page!

The new Amateur Extra-class license examination question pool, effective from July 1, 2020, through June 30, 2024, has been released and is available at the National Conference of Volunteer Coordinators (NCVEC) [website](#). Note the new Technician class license examination question pool is effective July 1, 2022.

Ian NV4C and his team hold license test sessions on the second Saturday of each month. For more information including upcoming test dates, [click here](#).

Hungry Hams! A Busy Place/ Hungry Hams Patrons

Here are some photos of the recent Hungry Ham events. There are usually a few seats left, so join us!



John and Katie Kludt stopped by for a visit during their travel to Europe on July 26, 2023

Mark WA1NIP captured this scene below on Wednesday, August 9, 2023. Another room full!




Contest Corner

These are some contests and events besides the "routine K1USN, CWops, and other organizational events" scheduled to occur the near future

Contest Name	Time & Date
+ ARRL EME Contest	0000Z, Aug 12 to 2359Z, Aug 13
+ FISTS Saturday Sprint	0000Z-2359Z, Aug 12
+ Maryland-DC QSO Party	1400Z, Aug 12 to 0400Z, Aug 13
+ Kentucky State Parks on the Air	1400Z-2200Z, Aug 12
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Aug 17 and 0200Z-0300Z, Aug 18
+ ARRL 10 GHz and Up Contest	0600 local, Aug 19 to 2400 local, Aug 20
North American QSO Party, SSB	1800Z, Aug 19 to 0559Z, Aug 20
+ ARRL Rookie Roundup, RTTY	1800Z-2359Z, Aug 20
+ Run for the Bacon QRP Contest	2300Z, Aug 20 to 0100Z, Aug 21
+ Hawaii QSO Party	0400Z, Aug 26 to 0400Z, Aug 28
+ W/VE Islands QSO Party	1200Z, Aug 26 to 0300Z, Aug 27
+ Kansas QSO Party	1400Z, Aug 26 to 0200Z, Aug 27 and 1400Z-2000Z, Aug 27
+ Ohio QSO Party	1600Z, Aug 26 to 0400Z, Aug 27
+ NJQRP Skeeter Hunt	1700Z-2100Z, Aug 27
+ INDEXA Worldwide QSO Party	0000Z, Sep 2 to 2400Z, Sep 10
+ Colorado QSO Party	1300Z, Sep 2 to 0400Z, Sep 3
+ CWOps CW Open	2000Z-2359Z, Sep 2
+ Tennessee QSO Party	1800Z, Sep 3 to 0300Z, Sep 4
+ MI QRP Labor Day CW Sprint	2300Z, Sep 4 to 0300Z, Sep 5
+ ARRL EME Contest	0000Z, Sep 9 to 2359Z, Sep 10
+ FOC QSO Party	0000Z-2359Z, Sep 9
+ Ohio State Parks on the Air	1400Z-2200Z, Sep 9
+ Alabama QSO Party	1500Z, Sep 9 to 0300Z, Sep 10
+ ARRL September VHF Contest	1800Z, Sep 9 to 0300Z, Sep 11
+ North American Sprint, CW	0000Z-0400Z, Sep 10

Click on the link under Contest Name to access the information at [WA7BNM Contest Calendar](#)©

NFARL Upcoming Events and Dates

- **Every Sunday — NFARES net** - 8:30 PM - 147.06 MHz (+) PL 100
Also find us on EchoLink® at NF4GA-L, node 889158. All licensed hams are welcome, you do not need to be an ARES member! Check [NFARES.org](https://www.nfares.org) for more information.
 - **Every Monday — Tech Talk** - 8:30 PM - 145.47 MHz (-) PL 100
NFARL's flagship technical based "non check-in" net. The net is always better when using the web based chat room (Discord) but Internet is not required to join the net. Check [NFARL Nets](#) for more information and "how to". Here's the link to the NFARL server on Discord web app <https://discord.gg/spr2a9D>
 - **Every Wednesday — Hungry Hams Lunch Bunch** - 11:15 AM
Location: Slope's BBQ, 34 East Crossville Road, Roswell, GA 30075 (770) 518-7000
 **SLOPE'S BBQ**
Dining Room is OPEN. Get Take Out if you can't stay!
 - **Every Thursday — YL Net** — 8:00 PM - 9:30 PM - 145.47 MHz (-) PL 100
Check NFARL Nets [website](#) for "how to." This is a great opportunity for YL's to get on the radio with other YL's! OM's (guys) are welcome to listen in to this YL net.
 - **Every Wednesday — CW CHAT** — 8:00 PM on ZOOM.
New meeting link and credentials:
<https://us06web.zoom.us/j/84722087419?wd=VIN2d0xvQVhKcDIUL0R4N1hQMTQ2UT09>
Meeting ID: 847 2208 7419; Passcode: CW-CHAT
- **Second Tuesday — NFARES Meeting - September 12, 2023** ***Now meeting in-person!*** Meeting location: The Church of Jesus Christ of Latter-day Saints, 500 Norcross St. Roswell, GA 30075. Enter using the "Family History Center" Door. ***See NFARL website for details & Zoom link.*** NFARES members receive Zoom invitation automatically.
- **Second Saturday – VE Testing - NFARL September 9, 2023 session:** 8:30 - 10:30AM Slope's BBQ, 34 Crossville Road, Roswell, GA 30075. Seating will be limited to 20 - preregistration is required. [Registration is by email to Ian NV4C](#); monitor registration opening & closing on the website. [Click here for more information.](#)
- **Fourth Tuesday – NFARL Executive Team Meeting** - August 22, 2023, 7:00 PM. ***Online meeting only*** — monitor website and NFARL Groups.io reflector for updates.
- **NFARL Club Meeting— Tuesday, August 15, 2023— 7:00 PM** Preston Ridge Community Center, 3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005. The facility's doors will open at 7:00PM. Our meeting will begin at 7:30PM and should conclude by 9:00PM. The meeting presentation will be by Richard Dervan, N1RBD who will present a program on POTA / SOTA.
- **2023 Huntsville Hamfest— August 19-20, 2023**
Von Braun Center South Hall, 700 Monroe St SW, Huntsville, AL 35801
Hours: Saturday 9 AM — 4:30 PM, Sunday 9 AM — 3 PM

Contact Us

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2023 Field Day Chair	Chair- Steve Randall, KO4VW Co-Chair-Dave Bisciotti, KO4USA Co-Chair-Mike Riley, KN4OAK	FieldDay@nfarl.org
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eNews Team	Help Wanted!!	enews@nfarl.org

North Fulton Amateur Radio League

P.O. Box 1741
Roswell, GA 30077

nfarl.org

eNEWS can be located online at:
<https://nfarl.org/enews-index>

Club Repeaters

Frequency—Description	P.L. Tone	Location
145.470 (-) EchoLink Node 560686 NF4GA-R	100 Hz	Morgan Falls
147.060 (+) Primary ARES Repeater	100 Hz	Roswell Water Tower
* 224.620 (-) Joint Venture with MATPARC	100 Hz	TBD
443.150 (+)	100 Hz	Roswell Water Tower
444.475 (+)	100 Hz	Morgan Falls
* 927.0125 (-)	146.2 Hz	TBD

* Currently off the air

Club Call signs: NF4GA and K4JJ

Extra Extra answer: A (question E9E02)

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