



North Fulton Amateur Radio League NFARL eNEWS

July 2024

*Over 43 Years Promoting
Service | Friendship | Education | Fun*



July 2024 Club Meeting /Lee Johnson, N4WYE

NanoVNA Workshop

Hello, I'm Lee Johnson, N4WYE. I'm going to lead a workshop on the *NanoVNA* during the July NFARL Club meeting. My objective is to help you set up your *NanoVNA* to measure SWR simply by powering it up and attaching your antenna. We will be going step by step to give you a working knowledge of the *NanoVNA* by attaching your HT 2m/70cm antenna or a provided 18" wire and measuring SWR, resonant frequencies, reactance, Smith Charts and requested measurements. It is easy!

For those of you that purchased a *NanoVNA* since my 2020 presentation, bring yours along with the accessories and your HT whip if you have one. For those that do not have one, you do have time to order and receive yours before the July 16th workshop.

I recommend **R&L Electronics** as a good source who stocks and supports the *NanoVNA - H4* version. You can go directly to their *NanoVNA* product page by **[clicking here](#)**.

Join us on July 16, 2024 for our monthly NFARL Club meeting. We'll be gathering at our regular meeting location; 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 Month meeting will be broadcast on Zoom using this invitation link:

<https://us06web.zoom.us/j/86255827457?pwd=a1FHR3F1bDBqMUVuY3plMDdFa2VMQT09>

Meeting ID: 862 5582 7457

Passcode: 584698

Join us in person at Preston Ridge Community Center!

President's Corner / Mike Riley, KN4OAK

Here we are in July. This year seems to be flying by. June was very busy, not just from the radio hobby perspective, but also in everything else. It was so busy, some things just didn't get done. For instance, you didn't get a June edition of eNEWS.

Our club is lucky. We enjoy the efforts of the core group of members who help to make things like the hamfests, club meetings and outings come together with successful and positive outcomes. Please take a minute to stop and thank these folks whenever you next encounter them.

ARRL Field Day 2024 turned out to be another busy event. While the overall attendance was down a few percent, we did well at keeping the station operating rate high. Based on the preliminary evaluations of the logs, it looks as though we bettered 3000 contacts. Thank you to all of the members and volunteers who helped make ARRL Field Day 2024 a positive experience! We'll provide a detail Field Day report in the August eNEWS.

For those of you who were recruited to provide an "after action report" on your Field Day experience, before time and other events start to crowd your memory, don't forget to finish them up and send them back to Lee Johnson, N4WYE. Lee has volunteered to help us complete this important step of self evaluation. He's anxiously waiting for your responses in order to begin the summary.

Several major events are coming up during the second half of 2024. Huntsville Hamfest, an ARISS contact, our "Mini-Hamfest", club officer elections, Stone Mountain Hamfest, "HamJam", and our annual Holiday Party. In addition to these and the routinely scheduled activities, we'd like to ask you to let us know of any special assistance projects or help that we could provide to a ham in our community. Pause for a few moments and ask yourself if you can identify anyone who could benefit from some assistance regarding their amateur radio environment. Perhaps it is help rehanging an antenna, fixing an equipment issue, selling or procuring some gear, or studying for their next license exam. Drop me an email or let me know at the meeting, about what you think we might be able to use our club resources to help with.

Speaking of club officer elections, are you willing to consider a position on the club's Executive Committee or as an officer? These are experiences that offer you opportunities to share your skills and knowledge with others to learn, solve problems, and enjoy activities in amateur radio, community service, and associated technical aspects they involve. Take a look at the North Fulton Amateur Radio League Bylaws at https://nfarl.org/bylaws/NFARL_ByLaws_Rev_6.3b_May_18_2021.pdf and explore Sections III and IV to learn details about the officer and board member roles. Your participation in the club operations is what makes the club stand out as great organization to be associated with.

73,

Mike KN4OAK

Congratulations to Successful VE Candidates!/ Wes Lamboley, W3WL

June 8, 2024 turned out to be a successful day for the three candidates taking their Amateur Extra class radio license exams. All three passed their test and received their license upgrades!

<u>Candidate Name</u>	<u>Call Sign</u>	<u>Test Passed</u>
Tom Wessels	KA4NXD	Amateur Extra
Tyler Kesterson	KQ4RKU	Amateur Extra
David Kobliska	KO4HRN	Amateur Extra

Our Thank again, to the VE Team and to the North Fulton ARES Team for providing their support to the testing and licensing program. Once again their expertise is recognized and appreciated!

Please congratulate these Amateur Extra license level hams when you you meet them next! All three are NFARL club members and we proudly thank them for their interest and commitment to Amateur radio.

73,
Wes W3WL

NFARL Receives RTL-SDR Blog V4 Dongle/ Wes Lamboley, W3WL

Don Paluga, KQ4PCR became a licensed ham at the end of February 2024. Don upgraded to General class in April 2024 accelerated his exploration into the Amateur Radio realm with vigor, to say the least. Don played a major role in our GOTA and SSB operations during 2024 ARRL Field Day, and from what we observe, enjoyed it immensely. Way to go Don! We're glad we were able to help you get started on your journey into the RF universe.

Prior to obtaining his Amateur Radio license, Don took steps to begin his trek into radio by purchasing an RTL-SDR Blog V4 dongle kit with the dipoles. After receiving and reviewing the kit in detail, he decide instead to switch tracks and get his license so he better enjoy the capability of RF communication. So the kit was set aside until a recent conversation during the 7/1/2024 NFARL Tech Talk net. KN4OAK commented during the net that NFARL was considering the use of SDR "kits" as a tool in it's YESA activities and asked if anyone in the net had any experience with SDR kits. Don offered to bring his V4 dongle to Hungry Hams so we could review and discuss possible options. Don presented the kit at the lunch gathering, proclaiming it as a donation to the club for use in its Youth, Education and Scholarship Activities. Thank you Don!



Mag Loop Project/ Steve Randall, K04VW

After hearing so much and being curious about Magnetic Loop antennas I decided to try building one. I had some 7/8 copper tubing left over from an AC install here at home. I found a plan for a 3D printed mount but it was made to fit much smaller tubing. I was able to "remake" it using several programs to fit my setup. Getting the thing round was quite a challenge and all done by hand. It actually looks pretty nice, and came out close to 4 ft diameter. I had recently upgraded my rotor for my HexBeam so I decided to use the rotor that was used there. This was installed on a speaker stand for testing.



Since I was going for cheap, I ordered a MLA-30+ preamp and bias tee setup. Upon arrival, I swapped the SMA connector out with a BNC which was better suited to the RG6 Quad Shield left over from another project. With wiring run and everything connected it was time for testing. I was especially interested to see if it would lower the noise on 80 and 160 during the summer.

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The results were quite disappointing when compared to my other antennas. The signal to noise ratio and signal strength were worse than my other antennas. I thought this might be because of the cheap preamp so I ordered one from SDR-Kits made by Cross Country Wireless. It received quite a few positive reviews. After installing the new preamp and bias tee it was again time for testing. The results were no better, maybe a little worse. I went back to the MLA-30+. Testing was compared to another factory built loop Ted, K4MPM was testing. His signal reports and results were similar to mine.

I did find a use for it though. I've been using it for differential receive for the CW tests. My main antenna is in the left ear and the receiver with the Mag Loop in the right, and the antenna set to the opposite direction of my main antenna. What I discovered was when the QSB fading happens while trying to copy weaker stations, sometimes the signal would shift to the right ear when disappearing from the left. This allowed me to copy some call signs and exchanges without asking for a repeat.



There are several uses for this antenna. For me the best is using for differential receive with my FTDX101MP. The stereo effect can actually be pleasing. On its own I would have not much use for it. The main use for these is to be able to null out a strong local noise because of it's sharp null. I don't have that to deal with here luckily. It would probably be OK for a SWL antenna for small lots or confines spaces, even inside. The nice ones are very expensive and I'm happy I was able to make one without breaking the bank. It seems to have similar performance to the commercial models. It does pick up quite a few signals, but for a Ham like me that loves to pull that weak station out of the mud, it is of limited usefulness.

Sometimes our projects work out great and sometimes the results are disappointing like this one. Even so, I'm glad I did it as the knowledge gained was well worth the time and money spent on it. If you are thinking about paying big bucks for one of these I would pass unless you have a terrible noise coming from one direction only that needs to be nulled out as much as possible.

73,
Steve K04VW

Preparation for Field Day Operations /Dave Bisciotti, KO4USA

OVERVIEW

As the teams prepared for Field Day 2024, I had proposed that we use an ICOM 7300 at the Phone Station. Some members of the Field Day team conveyed they believed the radio would not work well in the multi-radio, tight operational environment NFARL sets up to run Field Day. We needed to test the rigs and quantify the results. So, on Friday, after setting up the loop antennas, Ted (K4MPM), Mark (WA1NIP) and I (KO4USA) ran several tests. Here is a condensed version of our testing.

Radios Tested: ICOM 7300 and the Yaesu FTDX10

PROCESS

We initially set up the ICOM at the Phone Station and the Yaesu at the GOTA Tent Station. Both transceivers were connected to the horizontal loops hung over their respective soccer fields.

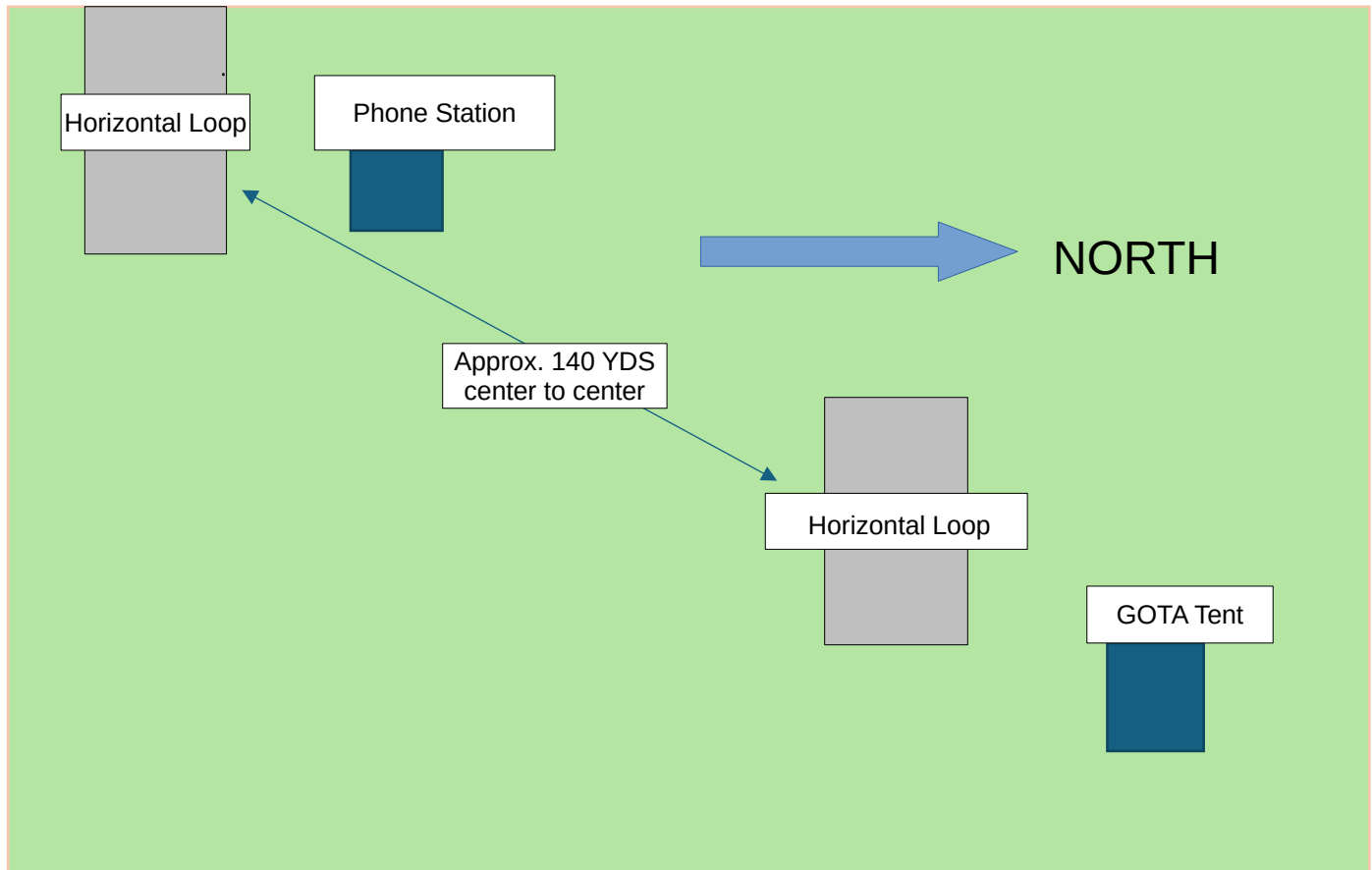
First, we tested for *In-Band Interference* on 80 Meters.

- Starting at 3.7 MHz, we noted the S meter for a baseline noise level with neither transmitting.
 - Result - **We Observed 2-3 "S" Units**
- Next, we tuned the Yaesu to 3.72 (up 20 KHz) and transmitted SSB on the ICOM at 3.7 MHz.
 - Result - We observed the Yaesu's "S" meter read S9 + 30 (Not Good!)
- Next, we had the Yaesu transmit and the ICOM receive
 - Result - **We observed S9 + 30 on the ICOM (also Not Good)**

Next, we wanted to test *Cross – Band Interference* 80 Meters to 40 Meters

- Setting the ICOM to 3.7 MHz and the Yaesu to 14.250 MHz we noted the S meter for a baseline noise level
 - Result – **With both units "listening" we observed 2-3 "S" Units**
- Next, we transmitted SSB on the ICOM set to 3.7 MHz and received on the Yaesu set to 14.250 MHz.
 - Result - **We observed the Yaesu's "S" meter move up 1-2 "S" Units. The Bandscope did display a rising noise level.**
- Next, keeping the radios on their same frequencies, we had the Yaesu transmit and the ICOM receive
 - Result - **We observed the "S" meter rise 1-2 S Units and the band scope displayed an increasing noise level.**

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Next -Switch to "Like" Radios - Yaesu to Yaesu

Replacing the ICOM 7300 with another Yaesu FTDX10, we repeated the testing. The In-band testing showed only minor interference (only 1-2 "S" units increase). The Cross Band testing interference was negligible.

CONCLUSION

The Superheterodyne design of the Yaesu receiver may make the radio better suited for close, multi-radio operational environments. I assume that the ICOM SDR design allows a much wider bandwidth into the front end of the receiver and with RX signal levels so high, it couldn't reject the signal without reducing the RF Gain. We ended up using the Yaesu FTDX10s at the Phone and GOTA stations based on the test observations. No interference issues causing operational station malfunction were observed during Field Day 2024. Lesson Learned!

73,

Dave KO4USA

Atlanta Hamfest 2024 /Mike Riley, KN4OAK

June 1st saw the Atlanta Hamfest once again. The event took place at Jim R. Miller Park, Marietta, GA. The park is a nice facility and the event was laid back and comfortable. NFARL had a few guests stop by . We had a CPO Kit Build, sold a lot of SK and other stuff in our inventory, chatted with a number of other hams, and had some members participate in the forums.

Here's some pictures we captured.



Audrey, KM4BUN, Izzy, KQ4JRR, Kayla, KQ4SPB & Jack KM4ZIA

John, N4TOL & Wes, W3WL



Bill, N4BTB & John, AA4AN



Tyler, KQ4RKU & Fred, W4FRA working on a CPO Kit

Around the Shack de N4GG

July, 2024

Facebook – A Ham Radio Resource No Kidding

Yes, Facebook. The topic of Facebook comes up occasionally in my conversations with hams. While I'm not evangelical, I'm also not bashful about mentioning how Facebook has become a valuable resource for ham-related information. I encourage people to check it out.

There are *a lot* of hams active on Facebook. There are also many who are not, for a variety of reasons. Reasons I've heard include:

- I don't have the time.
- Isn't that for a younger crowd?
- I don't use social media.
- I tried it years ago, it's not for me.
- It's a security risk.
- It's probably difficult to learn.
- I'll be opening myself up to ridicule and trash-talk.
- Etc. Add your reason here.

The majority of concerns are unfounded. If you tried Facebook years ago and moved on; things have changed while you were away. Facebook has matured. It *was* where kids went to share gossip. That's over. Kids still do that, but they've moved from Facebook to other social media platforms. Kids eschew Facebook. "That's for my parents."

There are two areas where Facebook provides useful ham-related information. The first is via interaction with companies and organizations. The second is via the dialog found in "groups."

Most ham-related companies and organizations have a presence on Facebook. Some no longer have a presence anywhere else. Hosting and maintaining a website is expensive; many small companies (not just ham radio companies) have shuttered their websites and reach their customers via Facebook. A company can post any information it wants there for free and in real time. As with personal posting, company postings are open to comment. Useful dialog occurs between users of the products and the company, and between one user and another. Facebook is a two-way medium.

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Here are a few of the companies/organizations I pay close attention to, with the number of followers each has in parenthesis. Begali Keys (2,700), Vibroplex (2,700), Yaesu (33,000), Ham Radio Outlet (20,000), the Grand Tour (195,000), GM (833,000), and the ARRL (98,000). The number of followers understates the amount of readership these organizations have. More people read the mail than "follow."

The second area where Facebook provides a wealth of information is in "groups." A group is simply a subject-specific place where participants can read the mail and join the conversation if they wish. Anyone can start a group. Once started, others can join (or un-join) with a mouse click. A group can be followed without joining – in fact without even signing up for Facebook (more on that below).

Here is a list of the groups I'm in, in no particular order:

- Old Tube Radios Group
- Begali Keys
- Amateur Radio Expeditions
- Ftdx10
- Silver Comet Amateur Radio Society
- Amateur Radio Meteor Scatter
- 1500 Watts and a Wire
- ARRL Field Day
- Yaesu Ftdx101D/MP & Ftdx10 Users Group
- Parks On the Air
- Vintage Amateur Radio Equipment (boat anchors)
- Potomac Valley Radio Club (PVRC) – Amateur Radio Contesting
- CWOPS
- NFARL
- Begali Morse keys group
- 3830 Contest Scores
- Vintage Tube Radios
- The Heathkit Radio Club
- CW Bugs, Keys and Paddles
- Wire Antennas for Amateur Radio
- Friendly Amateur Radio Elmers
- Making Amplifiers for Amateur Radio
- FT8 Digital Mode Club
- Baluns, Ununs, Tuners and Filters
- Vintage Amateur Radio Stations
- Antique Radios, Restoration, Love and Repair.
- Crystal Radio DX Group
- Ham Radio Information (News, Contesting, Dxing, Equipment...)
- Amplifier Building and Home Brewing
- FISTS CW Club

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- Ham Radio for Sale and Swap (Discussion)
- Raingutter Ham Radio Antennas
- Old Tube Radios Group
- DX News
- K9AY Telegraph
- Stealth Amateur Radio
- Team WX3B
- The Real Bakelite and Antique Radio Page
- The Spurious Emissions Band
- Random longwire antennas for ham radio
- Amateur Radio longwave DXing
- Heathkit Owners Group
- INDXA
- Real End Fed Half Wave Antennas
- Old and Vintage Radios
- SolderSmoke
- Amateur Radio Newsline
- Vacuum Tubes/Valves
- Heathkit Products
- Radio Telegraph Operators
- Straight Key Century Club

Well that's a surprise. I had no idea the list would be this long. This list of groups reflects my ham radio interests. You can tell I'm into CW and nostalgia. Meanwhile, there are lots and lots of ham-related groups I've not joined. Examples include the groups for APRS, EMCOMM, various nets, various clubs, UHF/SHF, etc. Also, I pay attention to - but haven't joined - a few groups that are not ham-related. Two of those are the James Web Space Telescope group and the Hubble Telescope group.

My list of followed groups might seem daunting and time consuming. It's not. I average about 20 minutes a day on Facebook, mostly at night when my energy level is in decline. Some groups are active, others less so. I don't keep up with any of the groups I'm in. I don't read every post. I drop in when I feel like it.

My favorite groups include those discussing antennas, Heathkits, vintage gear and the Elmers group. I enjoy answering beginners' questions posted to the "Friendly Amateur Radio Elmering" group. There are lots of beginner questions there and lots of us who enjoy answering them. I've explained SWR at least a dozen times – that's okay. Besides being fun, making the hobby accessible and understandable *is required* to bring in newcomers. Where do potential new hams hang out? On internet sites like Facebook.

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Around the Shack / Hal Kennedy, N4GG --continued from previous page

Here are my thoughts on peoples' concerns. First, it's free and it's easy to create an account. There is no appreciable learning curve. I will ask you to take my word for that, but please know, also, that there are 3.1 billion Facebook accounts. That's 40% of the world's population. How hard can it be?

I have no security concerns. None. To open an account you create a login ID and password, create a screen name, and supply an email address. That's it. There is optional information you can enter, but don't enter it if you have concerns. Nobody can "find out your information" if you don't supply any. Facebook does not send mail to your personal email account – none. You can prevent others from seeing your email address by setting it to "private."

With the exception of what the companies and organizations post, you should run what you see on Facebook through your "internet filter." I have not seen wrong information intentionally posted to the ham-related groups, but I have seen occasional misinformation. Gray-area questions such as "is a quad better than a Yagi" will bring opinions, but that's no different than at a club meeting or a hamfest.

Try Facebook without creating an account. Go to www.facebook.com and look around. See if it's for you.

73,
Hal N4GG

Extra Extra! / From the Extra Class Question Pool

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

E8D04

What is the primary effect of extremely short rise or fall time on a CW signal?

- A. More difficult to copy
- B. The generation of RF harmonics
- C. The generation of key clicks
- D. More difficult to tune

See answer on the last page!



The new Amateur Extra-class license examination question pool, effective from July 1, 2024, through June 30, 2028, 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](#).

Contest Corner

These are some contests and events besides the "routine K1USN, CWops, and other organizational events" scheduled to occur the near future . Hover over the + sign & press **CTRL+click** to go to the contest web site

Contest Name	Time & Date
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Jul 4 and 0200Z-0300Z, Jul 5
+ Marconi Memorial HF Contest	1400Z, Jul 6 to 1400Z, Jul 7
+ PODXS 070 Club 40m Firecracker Sprint	2000Z, Jul 6 to 2000Z, Jul 7
+ SKCC Weekend Sprintathon	1200Z, Jul 13 to 2400Z, Jul 14
+ IARU HF World Championship	1200Z, Jul 13 to 1200Z, Jul 14
+ QRP ARCI Summer Homebrew Sprint	2000Z-2300Z, Jul 14
+ 4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Jul 15
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Jul 18 and 0200Z-0300Z, Jul 19
+ NAQCC CW Sprint	0030Z-0230Z, Jul 18
+ Maidenhead Mayhem Contest	0000Z, Jul 20 to 2359Z, Jul 28
+ LABRE DX Contest	0000Z, Jul 20 to 2359Z, Jul 21
+ YOTA Contest	1000Z-2159Z, Jul 20
+ CQ Worldwide VHF Contest	1800Z, Jul 20 to 2100Z, Jul 21
+ North American QSO Party, RTTY	1800Z, Jul 20 to 0559Z, Jul 21
+ Run for the Bacon QRP Contest	2300Z, Jul 21 to 0100Z, Jul 22
+ SKCC Sprint	0000Z-0200Z, Jul 24
+ RSGB 80m Club Championship, Data	1900Z-2030Z, Jul 25
+ MARAC US Counties QSO Party	0000Z, Jul 27 to 2400Z, Jul 28
+ Alabama QSO Party	1500Z, Jul 27 to 0300Z, Jul 28
+ ARS Flight of the Bumblebees	1700Z-2100Z, Jul 28
+ QCX Challenge	1300Z-1400Z, Jul 29
+ QCX Challenge	1900Z-2000Z, Jul 29
+ QCX Challenge	0300Z-0400Z, Jul 30
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Aug 1 and 0200Z-0300Z, Aug 2
+ Batavia FT8 Contest	0000Z, Aug 3 to 2359Z, Aug 4
+ 10-10 Int. Summer Contest, SSB	0001Z, Aug 3 to 2359Z, Aug 4
+ WAB 144 MHz Low Power Phone	1400Z-1800Z, Aug 3
+ North American QSO Party, CW	1800Z, Aug 3 to 1800Z, Aug 4
+ ARRL 222 MHz and Up Distance Contest	1800Z, Aug 3 to 1800Z, Aug 4

NFARL Upcoming Events and Dates

Every Sunday — NFARES net - 8:30 PM - 147.06 MHz (+) PL 100

All licensed hams are welcome, you do not need to be an ARES member!
Check 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 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

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.

1st & 3rd Thursday-- FUN NET (DIGITAL) THURSDAYS Check-ins start @ 8:00pm to the repeater or Echolink. 147.060 (+) PL 100 Hz 443.150 (+) PL 100Hz (Alternate repeater)
EchoLink N4SBD-R, Node: 522043

Second Tuesday — NFARES Meeting – July 9, 2024 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 July 13, 2024 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 – July 23, 2024, 7:00 PM Online meeting only — monitor website and NFARL Groups.io reflector for updates.

NFARL Club Meeting— Tuesday, July 16, 2024 — 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. See page 1.

Huntsville Hamfest -- August 17 & 18, 2024, Hours: Saturday 9 AM — 4:30 PM, Sunday 9 AM — 3 PM, [Von Braun Center South Hall, 700 Monroe St SW, Huntsville, AL 35801](#)

Contact Us

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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: C (question E8D04)

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