

North Fulton Amateur Radio League NFARL eNEWS

May 2022

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May 2022 Meeting Topic— Ted Macklin, K4MPM, FT8 Basics

Use of digital communications platforms and technologies are becoming more mainstream in the RF amateur space. ARRL just announce their "new" International Digital Contest, the inaugural event to be held on June 4-5, 2022. Look at the amateur radio event and contest calendars and you'll see RTTY, PSK31, PSK63, etc. Some modes can be used effectively in a "contest environment" while some don't lend themselves for practical contest operations. You can explore CFR47, Part 97, Rules 97.3(c) and other resources to get a better understanding of the amateur radio modes and emission types. FT8 and FT4 are software programs designed for weak signal type amateur radio communication. As software defined radio technologies expand, it is likely that applications targeting the amateur radio market will do so as well.

WSJT software applications have been available for over twenty years. You can investigate Joe Taylor's web site and the related Groups.io sites for more information. Digital modes used in amateur radio events and contests usually must conform to the event or contest requirement of being capable of handling the exchange format and structure. For example, ARRL Field Day allows use of digital modes capable of handling the exchange information.

Ted Macklin, K4MPM is a proficient FT8 user. Ted will be our guest speaker during the May 2022 NFARL club meeting. Ted will provide some basic information on FT8 and how it and or FT4 can be used in events and contests. If you're not familiar with FT8 or FT4, or are interesting becoming more involved with digital contest modes, this is a great opportunity to get started.

Following Ted's FT8 presentation, we'll be conducting a kit packaging exercise where we'll attempt to package at least fifty NFARL CPO kits. Since the NFARL CPO was introduced during Fall 2019, the club has provided over 400 kits through the Mart and at Hamfests, scholastic events, and other outlets. The proceeds of these sales go to the club's Youth Education and Scholastic Activities fund. Join us to help continue this tool for helping develop CW and soldering skills.

Members and guests will begin to gather at 7:00PM and the business meeting will start at 7:30PM. Our meeting location is:

Preston Ridge Community Center, 3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005.

The meeting will be broadcast on Zoom; join us on Zoom with the following credentials:

<https://us06web.zoom.us/j/89475568724?pwd=cGRxY1dzbUFtaURiL1J1eldPZE5xdz09>

(Meeting ID: 894 7556 8724 Passcode: 828579).

President's Corner / John Norris N4IHV

Warm weather appears to have returned and I welcome it back. I hope everyone going to Dayton has a safe trip and wonderful experience. I can't go this year, but look forward to attending next year. I will have to make up for it by attending as many Ham Fests as possible. It is May and that reminds me of May Day with a May Pole. When I was very young (6th grade) we used stringers and did the May Pole Dance intertwining the stringers around the May Pole. Now we put up verticals with stringers laid out on the ground. A different kind of dance. Spring is definitely the time for antenna installations and trials. We can try all the new launchers and brag of our aim.

NFARL is having their 45th Anniversary at Lake Lanier 5/14/2022. You can find the information on our web page. The Anniversary celebration should be a lot of fun so don't miss it.

Make plans now for our Field Day in June 25-26. We will be setting up the equipment on June 24 and any help will be appreciated. This event is a lot of fun and always a learning experience. We are moving the SSB Station back into the main parking lot and this should be an improvement. We are trying to work out the antenna locations to lessen interference issues.

As a friendly reminder, what you would like for us to plan at our regular club meetings? We want to share the information you desire and it is important for us to hear from you. If there is a technical article you would like to see in the eNEWS, please let us know. Please share any news from your ham experience or projects you are working on because we would love to put in print. That is one way we can get to know you better.

Our in person meeting attendance is steadily going back up and we are happy to see everyone. If you have something to sell or give away, please bring it to one of our meetings. We have tables set up in the back of the room to accommodate that.

Have a wonderful and safe month.

73,

John Norris, President of NFARL

N4IHV

Congratulations May 2022 Candidates! / Wes Lamboley, W3WL

Congratulations are in order to four candidates who passed the Volunteer Examiner's testing for Amateur radio licenses on May 14, 2022. Once again, NFARL expresses gratitude to the VE Team and VEC for administration of the amateur radio license exams. We also thank Slope's BBQ for providing the space to conduct the testing. Thanks to the following Volunteer Examiners; Martha Muir W4MSA, Steve Mays KS4KJ, Lane Watts KB4KHQ, John Reynolds W4TXA, Bill Beguhn NG4H, and Dale Frye KJ4C. Also, thanks to VEC Ian Kahn, NV4C.

Please extend your congratulations to the successful candidates when you see them at the next club meeting or event!

Candidate Name	Test
Scott Miklavcich	Technician
Denys Metelenko	Technician
Glenn Dyke	Technician
Steven Kemp	Technician

73, Wes W3WL

100 Years of Life — 60 Years in Ham Radio



Do you think that ham radio will ever lose its luster and you will simply grow tired of it? I have been a ham for 36 years and there have been many times when I did not have time for it, but to grow tired of it? I'm not so sure.

Several months ago, Jim Milsap, K9APD asked if I would be willing to open my shack and allow a ham now residing in a retirement home to operate for a few hours. Of course, I agreed, and Jim gave me the contact information of Bill, K4FQH. When I contacted Bill, he said his dad, would soon turn 100 years old, and his wish was to operate a radio again. With a back story like that, I was even more excited about meeting him.

Bill and I made the arrangements, and at the appointed time, Bill arrived with his dad, Mike Thomason, K4FQF. Mike was licensed in the early 60s when things were much different than they are today, with our Software Defined Radios and automatic tuners. Yet even though today's radios are different, making contacts remains the same, and Mike had no trouble making a few 80M SSB contacts before switching to 40M CW and making a contact with WB8FMA in WV.



Mike is an impressive man. Even at 100, his grip is still firm, his voice is strong, his mind is sharp, and he has not forgotten his CW. His fist was sure as he began working the paddles with perfect timing. As I said, Mike is an impressive man.

After a few contacts, we settled back and each of us discussed our lives and families, along with recounting many memories about ham radio. After visiting for a while, it was time for Mike and Bill to go as Mike had another birthday celebration to attend.

People are what makes ham radio what it is. I have met some interesting people in the last 36 years, and many had exciting stories to tell, but none compared to my time today with Mike and Bill. We discovered that we have a lot in common, even without ham radio, but it is ham radio that brought us together. Thanks, Mike and Bill for giving me the honor of participating, for a brief while, in your birthday celebration. Happy birthday Mike.

I'll see you down the log. 73!

Don Coltrane, KJ4UC

This article originally appeared in the February 2022 edition of the Georgia on My Mind newsletter. We thank Matthew (Mike) Thomason, K4FQF, and Don Coltrane, KJ4UC for providing it to us and allowing us to reprint it. Special thanks to Mike, K4FQF for sending me the hard copy. After receipt, I dug around to better understand who Mike and his son Bill, K4FQH are. I discovered that Mike had posted a question to the NFARL Groups.io site earlier this year regarding information on WebSDR as a possible RF alternative for someone without access to a true physical RF rig. If you have NFARL Groups.io access, check out Mike's request and the follow-on posts (<https://nfarl.groups.io/g/main/message/33624>). Perhaps you can provide Mike with ideas on options for him to consider.

73, Mike Riley KN4OAK

NFARL 45th Anniversary & US Islands 1DG / Steve Randall, KO4VW

The time has come and gone. For those who weren't able to join us, read more about it here <https://nfarl.org/nfarl-45th-anniversary/>.

This was a really fun time for all with fun, fellowship, Fox hunting, radios and of course food. Many participants brought their gear and project builds to show and let others try it out. Some brought a special recipe to share We brought a couple of FTDX10 radios along with a DX Commander Vertical I tested on CW OPS CWT recently with great results. We also put up a 40 meter End Fed Half wave with capabilities of SSB, Digital, and CW. Everyone was curious to examine what gear others brought along.

We made plenty of QSOs, so we need those of you interested in designing QSL cards for the event to send your design to me at KO4HVW@gmail.com as soon as practical! Our intent is to have them printed in Ukraine.

And by the way, the 45th Anniversary cake disappeared by the time we left! Thanks to all who participated! And thanks to Terry Joyner, W4YBV for the photos below

Steve Randall, KO4VW
Activities Chairman



NFARL 45th Anniversary & US Islands 1DG / continued from previous



NFARL 45th Anniversary & US Islands 1DG / continued from previous



NFARL 45th Anniversary & US Islands 1DG / continued from previous



NFARL 45th Anniversary & US Islands 1DG / continued from previous





If you'd like copies of these, please send an email to enews@nfarl.org

If you have some pictures from the event you'd like to share, please send them to enews@nfarl.org and we'll either add them to the website, place them in the next edition or both!



2022 ARRL Field Day / Steve Randall, K04VW

ARRL Field Day will be June 24-25 this year, as always, the last weekend in June. NFARL will be getting together at Groveway Park in Roswell for this event, while continuing celebration of our 45th year. All factions of our Ham Radio community will come together as one to operate, build scores for the club, and have a great time!!!! NFARL always scores well in this event. Even though its "not a contest" it's important for us to make a good showing and it would be great if we could repeat some of our past performances by scoring at the top. This is also a Public Relations even where we can bring in any and all who might be interested or curious as to what Ham radio is and what NFARL does. It's a chance for us to show the public our operational capabilities. A good pileup always draws a crowd, so we're looking once again to benefit from community participation. This is also a social event and chance to get to know and talk to your fellow Hams. Much has already been going on behind the scenes to get us ready for this, and more information will be forthcoming soon.

We encourage all members and even non-members to take part. There are many ways to contribute. Soon you will see sign-up sheets on the website, and at the club meeting. This is the event you want to invite your friends and relatives to so they can get a first hand look at what Ham Radio is all about. They might even get a chance to operate one of our stations!!!



I will be your NFARL Field Day Chairman this year. Team Captains are being chosen at this time. Two selected at the time of writing are Tom Jacobs, N4NFM for SSB, and Scott Straw, KB4KBS for CW/Digital. Tom will put a great team together too keep the SSB station hot. Scott will do likewise for CW. He's assembling a team we are calling the 'QO" crew as a tribute to W4QO, "Quaker Oats", Jim Stafford.

We will be incorporating Digital modes this year as well. We will also be operating a GOTA station. GOTA is specifically for those operators / guests who are Technicians, Generals and Extras of less than one year, those who have been inactive for two or more years, and unlicensed individuals under the supervision as a licensed mentor.

KR4GK, Daryl Young will be there with the very impressive satellite station. We also get a free VHF station. The chances of 6 Meter opening are definitely improving. Please contact me if you are a 6 Meter guru. This can be done by Technicians.

Lynn Kahn, N4MSK will be the Chair for the picnic again this year which will please everyone. The Picnic Saturday evening is always a highlight, and will be again this year. The Scouts will also be there with their merit badge program. Thanks, Ian, NV4C.

NFARES will also be present. We are planning visits by elected officials and agency representatives which the NFARES team serves.

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2022 ARRL Field Day / continued from previous page

It's important to know the rules for Field Day. Not much has changed from 2021, however a few have been implemented. These changes may have an impact on scoring. We strongly encourage you all to review this year's rules before the event. Check out the rules at <http://www.arrl.org/field-day> at your earliest convenience prior to the June club meeting.

Individual operators may also operate from home and have our scores credited to NFARL. Although this does not replace what we do at the main Field Day site, we encourage all operators to get as many points as they can to add to our overall score.

Much more information is coming soon as more plans are finalized. We will need as many as possible to participate to make this a great event. Signup sheets will be forthcoming. We will need people to help with antenna setup Friday, June 24, 2022, and then complete setup Saturday morning, to operate the stations, to act as greeters and to distribute information, and many other things. With your help we can make this a great Field Day for all.

This will be discussed in the future at our club meetings, Tech Talk, and on Discord. Please join us on those platforms for discussion, and watch the Groups.io for more information. You may contact me on any of our Discord channels, or email KO4HVW@gmail.com.

Thank you in advance for your support!

Steve Randall, KO4VW

NFARL Activities and Field Day Chairman 2022



NFARL Field Day Picnic 2021

The Elser-Mathes Cup

Um, what's an Elser-Mathes Cup and why haven't I heard of it? That was my first reaction on encountering this most curious object. I thought I had hamdom's sacred symbols figured out - the Wouff Hong, the Reddysnitch and even the seldom mentioned Uggerumph. I've been at this for 61 years. Can there be a corporal item I somehow missed?

A future *Around the Shack* column will shine light on our sacred symbols – the ones mentioned above. If those have escaped your notice, you can preempt my future writing by reading about them on various ARRL web pages. Everyone should at least know the Wouff Hong and understand the consequences of getting on the wrong end of one.

I got a kick out of Saturday Night Live not long ago; Elon Musk was the guest host. Michael Che asked him six-ways-to-Sunday what Dogecoin was. Every serious answer Musk gave was met with: Yeah, but what *IS* it? "It's a crypto-currency based on unbreakable algorithms." Yeah man, but what *IS* it? Having run out of technical answers, Musk finally admitted Dogecoin was, in his words, "a hustle." Ah - an insight into crypto-currency from someone who knows it well. You thought crypto-currency was a block-chain whatchamacallit, but Michael Che teased out the correct answer. It's a hustle. I think that's good to know.

Okay, I have the same question about the Elser-Mathes Cup: What *IS* it? I do know it's a carved wooden statue of two bald naked men holding up a bowl with one hand - the other placed on the head of a sitting child. I know that much. But what *IS* it? It dates to 1929 and a guy named Elser is responsible, but that doesn't help with knowing what it is. It's not fictional, it's real. It's depressing to note The Cup has been knocking around the W1AW station for 93 years. Much as I like the place, I would not want to spend 93 years at W1AW.

Back in the day (pre-1929ish), award after award had been offered for advances in "wireless." The term "radio" became a thing around 1920, but everyone including hams were slow to adopt "radio" and kept calling what they did "wireless," to distinguish it from the wire-line telegraph. As fast as awards were dreamt up, records were broken. DXing was off and running. So was contesting. How fast could you relay a message across the US and back? There was an award for that. It was won and that begat a more challenging award. That award was won and that begat another. You get the picture. Radio technology was moving fast in the teens and 20s and hams were in the thick of it.

As an aside, the relayed messages had actual content. They were not *599 over*. Also, given that the transmitters were spark, the correct signal report would have been 592, not 599. That is if the RST system had existed, which it didn't. RST came along in 1936. [Look at all the great information in this column!]

Few of us seem to have considered the ARRL acronym. It's the American, Radio, *Relay League*. It describes what the organization was organizing (um, a relay league) in the days when spark rigs had a range of no more than 500 miles. Relaying was a necessity. There was lots of rivalry around winning the awards and contests for how fast and how far you could relay a message.

So, back to the question at hand – what *IS* that bowl the bald men are holding up? Why, it's the Elser-Mathes Cup! Yes, but what *IS* it?

At the time the cup came into being, Elser was a resident of Manila (the Philippines, not one of the twelve US states that have thirteen towns named Manila; Alabama has two). As the story goes, Elser became friends with one Stanley Mathes, a Navy Lieutenant Commander who was stationed in

Continued on next page—

the Philippines. If you have spent time outside the US you know ex-pats find and befriend each other.

Elser and Mathes were hams although their callsigns do not appear in historical accounts.¹ In conversation they discovered mutual discouragement over the sad state of affairs befalling ham radio awards and challenges. Everything had been won. Regulations were beginning to hamper further advancement. A new award seemed to be in order - one that would be hard to win.

At this point in the story I'd like to introduce a question. Ex-pats are known for bonding in the company of adult beverages. The Philippine Islands have great beer. San Miguel (a light Pilsner, the original pale Pilsner being from the Czech Republic, circa 1842) was the beer of choice in 1929, as it is now. What role did San Miguel play in the creation of the Elser-Mathes cup? Alas we will never know the answer to this important question.

Elser was well traveled. He met Hiram Percy Maxim, "HPM," (that was the actual name of a real person, no kidding) in Hartford, sometime prior to 1929. HPM related his keen interest in the planet Mars—he even possessed a globe of the planet. HPM's Mars-interest left an impression on Elser. It became a topic of conversation with Mathes, perhaps over a few San Miguels.

What is the question to which the answer is: "A major award?" If you've been paying attention you know it's not a leg-lamp, it's the Elser-Mathes Cup! That *IS* what it *IS*. Elser and Mathes were clever. They created an award that was REALLY HARD to win. Something that would gather dust at W1AW for over 90 years (okay, I made that up).

The cup is still available and yours for the taking. The rules are simple. Complete a two-way QSO with someone on Mars and it's yours. The first Earth-Mars QSO wins. The rules require a ham on both ends.

Were Elser and Mathes prescient enough to foresee repeaters and interplanetary exploration via machine? Did they fathom technical improvements in radios and antennas could one day make Earth-Mars QSOs possible without a human on the Mars end? Did they see *marsbounce* on the horizon? Intentionally or not, Elser and Mathes shut the door on non-human interplanetary machinery and on bouncing. You have to show up (on Mars). Did I mention the boys were tired of the award-a-week status quo and wanted an award that was *R-E-A-L-L-Y H-A-R-D* to win?

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NFARL Club Badge Order/ John Tramontanis, N4TOL

There will be an order going out for NFARL club badges on May 23rd.

If you would like to order a badge and have it be included in this batch, please visit the club website (NFARL.org) and click on the "Mart Catalog" tab and drop to "other branded products" and **place your order by the end of day Sunday, March 22nd.**

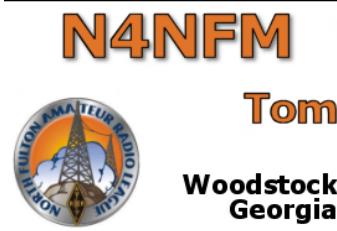
If you have recently ordered a badge on the MART, or at a recent meeting, your badge will already be included in this batch.

This is a good opportunity for our new members to get accessorized and also a good time to update badges for that new vanity call sign.

The badge cost is \$14 and includes shipping to your home address.

The attached sample file shows how your new badge will look (except no border, but with rounded corners).

Thank you,
John N4TOL



Regarding bounce, hams have already accomplished EME (moon) and EVE (Venus). EME (Earth-Mars-Earth) can't be far off. There are two problems however. It won't count for the Elser-Mathes Cup without a ham on both ends and we need an unambiguous acronym.

Well, we have come full circle and it's time for Elon Musk to reenter. Like HPM, Mr. Musk has "a thing" about Mars. Unlike HPM however, he has the resources to do something about it. Musk predicts mankind will first set foot on Mars in 2029. Did he choose the year to coincide with the Elser-Mathes Cup's 100th birthday? If so, he isn't saying.

If Mr. Musk's Mars explorer is a ham (it's doubtful he will go himself) the cup may finally be excavated at W1AW and sent to some lucky soul. Or some unlucky soul, as the rules neither specify nor imply the Mars explorer will ever return. Which end of the QSO gets the award? The Earth end or the Mars end? If Mars, how much will postage be?

Pictured below is the Elser-Mathes Cup. How could any ham not wish to go to Mars, knowing this major award awaits their endeavors? It's not just any major award either. It's two bald naked men holding up a bowl with one hand, with the other on the head of a sitting child.

N4GG



The Elser-Mathes Cup, aka the Bald Men Holding a Bowl Cup.

Suggested reading: QST, December, 2015; *The Past, Present, and Future of the Elser-Mathes Cup*.

1. Neither Elser nor Mathes appear in my copy of *Radio Stations of the United States*, July, 1916. Also, HPM does not appear. In 1916, callsign 1AW was issued to someone named E. G. Ham (not a joke, not mine anyway).

Richards Academy CPO Kit Build/ Tammy Largin

Hello, I'm Tammy Largin. My husband is Bill Largin KN4LDE. I teach at Richards Academy, a private school in Marietta. One of my responsibilities includes conducting an after school life skills development program for upper level students. We use the program to help students get exposed to various skill sets and knowledge that they may find useful as they mature into adults. Soldering, along with knowledge and exposure to electronics and amateur radio seemed like skill areas that would interest my students. My husband Bill suggested that I try using the NFARL CPO Kits as a platform to help accomplish this.

With soldering irons hot, the students of the Life Skills Club at Richards Christian Academy, began their first attempt at soldering components to an electronic board. Mike Riley KN4OAK, was a big help teaching our students about Morse code and ham radio. There were 12 students who learned about how ham radio worked for communication, attempted Morse code (2 have become pretty good) and 8 of them created an oscillator. Mike did a great job speaking in terms the kids understood. At the end about 75% of them were successful in getting their oscillators to work on the first try. Mike donned his repair skills as the others needed a little repair to get their "beep on". Thank you Mike for investing in the next generation of ham ops. We will have you back next year to see if we can't get them to take their technician test. Thanks again Mike!



Extra Extra! / From the Extra Class Question Pool

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



E5A09

How is the Q of an RLC parallel resonant circuit calculated?

- A.) Reactance of either the inductance or capacitance divided by the resistance
- B.) Reactance of either the inductance or capacitance multiplied by the resistance
- C.) Resistance divided by the reactance of either the inductance or capacitance
- D.) Reactance of the inductance multiplied by the reactance of the capacitance

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 will be 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

Contest Name	Time & Date
+ QRP ARCI Hootowl Sprint	0000Z-0100Z, May 23
+ SKCC Sprint	0000Z-0200Z, May 25
+ CQ WW WPX Contest, CW	0000Z, May 28 to 2359Z, May 29
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Jun 2 and 0200Z-0300Z, Jun 3
+ Kentucky QSO Party	1300Z, June 4 to 0100Z, Jun 5
+ ARRL Inter. Digital Contest	1800Z, Jun 4 to 2400Z, Jun 5
+ ARRL June VHF Contest	1800Z, Jun 11 to 0259Z, Jun 13

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

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
- **Every Saturday — Royal Order of the Olde Geezers "Breakfast"** -
This informal breakfast group on Saturday mornings is **NOT MEETING IN PERSON** during the COVID issue. A notice will be made when in-person meetings commence again.
- **Second Tuesday — NFARES Meeting - June 14, 2022** **Presently- Online meetings only.** Check NFARES.org for more information.
- **Second Saturday — VE Testing - NFARL June 11, 2022 session:**
By reservation only. See the "Test Sessions" web page for details & registration process. Contact Ian at nv4c.ian@gmail.com for questions / concerns / reservations.
- **Third Tuesday— NFARL Club Meeting** - May 17, 2022, 7:30 PM
Live meeting! Preston Ridge Community Center - Zoom Included!
—May 2022 Meeting: "FT8 Basics" & NFARL CPO Kit Packaging (see Page 1)
Door opens at 7 PM for Social Networking. Meeting begins at 7:30 PM
- **2022 SASQ Tallest Southeastern Summits** — May 21, 2022 *Be a Hunter/Chaser!*
<https://jesarge.wixsite.com/sasq/special>
- **Fourth Tuesday — NFARL Executive Team Meeting** - May 24, 2022, 7:00 PM.
Online meeting only — monitor website and NFARL Groups.io reflector for updates.
- **ATLANTA HAMFESTIVAL** — June 4, 2022, Jim R. Miller Park, 2245 Callaway Road SW, Marietta, GA 30008 <https://www.atlantaradioclub.org/atlanta-hamfestival.html>
- **2022 ARRL Field Day** — June 25-26, 2022 Groveway Community Park, Roswell, GA
You don't want to miss this event! (See Page for more info) <http://www.arrl.org/field-day>

Contact Us

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North Fulton Amateur Radio League

P.O. Box 1741
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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 E5A09)

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