



*North Fulton  
Amateur Radio League  
NFARL eNEWS*

*November 2020*

*Over 40 Years Promoting  
Service | Friendship | Education | Fun*

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



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***Extra! Extra! Extra! - Bob Bruninga, WB4APR, to speak at  
NFARL November 2020 Club Meeting***

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Do you know how your energy choices affect your ham radio experiences? Do you consider your energy choices as you build and use your ham radio asset base? What size "energy pie" do you utilize in your lifestyle and how is it sliced? These are interesting questions to ponder, particularly as the nCoV pandemic has resulted in societal behavioral changes significant enough to cause macro level technology and market shifts. On Tuesday, November 17, 2020, North Fulton Amateur Radio League will host **Mr. Bob Bruninga, WB4APR**, as he discusses Energy Alternatives. Come to the meeting and listen to Bob as he talks about how his interests in energy choices, ham radio, and other related subjects interact. You're bound to take away key points to consider in your own future decision-making involving hardware and process investments that require energy to function.

Bob has been a ham since 1963. Bob's interest in field and portable operations have always been exciting for him. As a young ham, he wound his first generator for camping and ham radio. In his time at Georgia Tech, his senior project was building an electric car from an old VW chassis and an airplane starter motor. A Navy career followed, with most of his ham radio activity on 2 meters. This is where he got interested in packet radio and developed APRS in 1993 to make it easy to exchange information at field and emergency response events. Now, 27 years later, APRS is alive and well and Bob has returned to his interest in field operations, in particular emergency power. His home is all solar powered and his family drives electric cars. Each car has a simple, cheap inverter to power field operations or the house during grid outages. From this experience he recently wrote the ARRL book "Energy Choices for the Radio Amateur" on these topics. Read more about Bob on his QRZ page <https://www.qrz.com/db/WB4APR%22%20/>.

Our November club meeting will be held virtually via Zoom. You'll need to use the meeting invitation to access Zoom and attend. We'll publish the invitation info on our Groups.io "reflector" early the week of November 15, 2020- **so be on the lookout!** Our reflector can be accessed at <https://nfarl.groups.io/g/main> and from there you can access the "Messages" to locate the meeting information.

Please join us on November 17, 2020 for Bob Bruninga's discussion. Our meeting agenda begins with an open social ½ hour at 7:00 PM EST. We start our administrative / business matters meeting at 7:30 PM and turn the spotlight to our guest speaker before 8 PM. Please make an attempt to join us by 7:30 so you're able to successfully access the meeting before the presentation begins. We look forward to seeing you there!

## ***President's Corner / John Norris, N4IHV***

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It is hard for me to believe we are nearly at Thanksgiving. I hope everyone has an excellent Thanksgiving celebration. We are so very fortunate to live in these United States of America. We are witness to so many new innovations in science and technology and the freedom to enjoy them.

I hope you are enjoying the November CW Month. Be sure and contact Jim, W4QO, and participate with him. I just read the October issue of CQ magazine and it has a well written article about the NFARL Morse Code Practice Kit. I expect Jim and his group will be very busy in the near future filling all of the orders as a result of this article. Well done Joe Eisenberg, K0NEB.

I was very happy to have a whole house generator during the recent storm. It finally earned its keep. The storm took down my OCF Dipole and I had to put it back into the sky. I convinced my XYL to be my helper and we accomplished the task. Warren, KD4Z, and I checked the SWR and it turned out well. Hopefully everyone else had no damage or if so, was able to make repairs.

We will continue having our meetings by Zoom and hope more people enjoy them. It is our plan to have a very special Zoom meeting in December. We are giving away five \$25 gift cards to randomly selected NFARL members. You will have to be on Zoom to win. Be prepared to share any special 2020 stories during the meeting. It should be a lot of fun, don't miss it.

Thanks to those members who have worked on the connector organization. We will have them ready and available by our in person meetings.

NFARL is continuing to grow even during this experience of Covid pandemic. We are so fortunate to have such wonderful members who are always ready to share and help. A positive energy is released when we make everyone around us feel welcome and help them without judgement of skill level. That is **NFARL**.

Thanks,  
John Norris, NFARL President  
N4IHV

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## ***GARS 2021 Tech Fest Cancelled / Mike Riley KN4OAK***

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Thursday we received notice of another cancellation stemming from the Covid-19 pandemic. Glen Wendt W3WWT informed us that the Gwinnett Amateur Radio Society had cancelled the GARS Techfest scheduled for January 16, 2021. While we understand the rationale behind the cancellation, we are sorry to see this occur. GARS Techfest has been a great event for the NFARL to participate in. We understand the rationale for cancellation, but are looking forward to participating in 2022! Thanks Glen!

When Linda, WA9HJS, and Gary Adams, K9EUD were married on March 11, 1967, they had a small "hamfest" wedding. The father of the bride is WA9HIO, best man K9KZP, brother of the bride WA9HGH and sister WA9RTI. *Keep it all in the family...*

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## **NFARL Scores on Donated Connectors / Mike Riley KN4OAK**

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A couple of months ago John N4IHV, announced NFARL had received a donation of a large sum of surplus RF connectors from a local business. The donation was made because the business entity switched to a completely different business model and did not need or want the connector inventory. A great opportunity for NFARL, all we need to do is to figure out what to do with the material.

Well, the good thing is that the NFARL Board of Directors is working on the long-term plans (if you've got any ideas you'd like to share, please feel free to email them to John N4IHV at <mailto:president@nfarl.org>, or to any of the other Board members). The other good thing is- we know what needs to be accomplished in the short-term. Sorting, counting and organizing the connector inventory in order to accurately determine what we've received. Both of these initiatives are presently underway.

Several club members got together at John N4IHV's QTH and began the sorting process in early November. Within three hours the crew have sorted nearly three large bins of various BNC style connectors. This event occurred following a Hungry Hams Lunch and was an interesting way to support the club and learn a little about the differences in connector styles and manufacturer brands. While most non-ham members of the general population would consider the need to understand the difference between a 75Ω and 50Ω connector a slight waste of viable memory storage, it caused me to pause and consider some transmission line theory I long ago placed into a portion of that memory. Another observation I made is "there are sure a lot of RF connectors that exist where the designation does not end in "9".

We're planning to hold another sorting event before the middle of December. Please consider joining us if you've got the time and capability to help. We'll announce the date and time via a message on the Group.io reflector, so be on the lookout.

In the meantime, take a look at these samples of our RF BNC connector collection and let us know what they are. You can email your response to [enews@NFARL.org](mailto:enews@NFARL.org).



## ***Ten ways to have the most fun in Ham Radio / Jim Stafford, W4QO***

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When non hams, who are looking at getting their ham licenses, ask me what they should do, I give them this list of what I think are the 10 things to increase their ham radio FUN!! I'll write this as if I'm speaking to YOU, the prospective ham. If you are already a TECH and tired of those 2M repeaters, you may skip step #2, but do NOT skip the others!

### **1. Get a used HF rig – a \$200 transceiver from eBay**

Of course, everyone gets a cheapie 2M transceiver to listen on a local 2M repeater. Here's a tip: You'll soon find that the 2M repeater is a good way to say hi to your friends and I suspect you'll grow tired of it as your main "ham radio" very quickly. Get an HF rig! I was browsing around eBay today and saw several digital readout solid state rigs for under \$200. Granted they are 25 years old and the displays look like NIXIE tubes but there they are. I recommend this because you can use them to make contacts when you get your license but more importantly, it becomes a piece of test equipment for when you build your first transceiver (see step #6). Most of these solid state rigs are easy to tune and go down to 5 watts, of course! At that level of power, you'll be able to join that great bunch of folks who operate QRP. And short of buying a transceiver, if you talk real nice to a ham whose has been having all this fun for 10 or 20 years, you'll find they probably have a rig they will loan you, some permanently!

### **2. Listen/Study/Get your license/call sign (2x3)**

With the HF rig above (which you could sell for what you have in it if you decide this FUN isn't for you), you can begin to listen to the bands and get a "feel" for how to operate. You'll also be able to begin to copy code, even W1AW code practice on 7047.5 KHz. The first thing you should do in studying for your TECH license is get the FREE downloadable No Nonsense Study Guide from KB6NU (<https://www.kb6nu.com/study-guides/>) Among the many sites with practice tests, I recommend the <https://hamstudy.org/> site. If you need some big help, get the ARRL license manual. Soon you'll take the test and get your 2x3 call sign. Oh, you might also check with your local radio club (such as nfarl.org) and they may have a mentor to help you. Check out this approach to getting your ticket: [https://nfarl.org/hamCram/ham\\_study\\_JAN15-2019.pdf](https://nfarl.org/hamCram/ham_study_JAN15-2019.pdf) And with that HF rig, check 10M!

### **3. Learn the code (CW) –get your General (1x3)**

Now you could just repeat #2 and study for the General test. And yes, you need to do that to have the MOST fun in ham radio but you'll miss out on a lot of fun if you don't learn the Morse code (though CW is NOT required for the General or any other ham radio license). There are so many programs you can use to learn the code from the internet that it will make your head spin. I like the CW PLAYER program but if you have something to play MP3s, do not miss out on the K7QO code course. All these may be found with the Google button.

And remember, you can use your tech license on the CW bands down there on say 40 meters with that OLDIE rig you got on eBay! Don't worry that you don't go very fast. Most will slow down for you and if you check with the SKCC, they have frequencies where they encourage slow CW. (SKCC is the Straight Key Century Club. Membership is free. <https://www.skccgroup.com/> ). It's always easier to send than receive, so use that key to send even if it's only to yourself. The real secret to learning CW is to practice every day. You can learn it all in a couple weeks if you do.

*Continued on page 5-*

One more point – remember those QRP nuts? They tend to run much slower CW and you don't have to run QRP to talk to one of them. For SKCC, look 50 kHz from band edge. There are lists of QRP calling frequencies at multiple sites on the web but start with 7.030. Somewhere in here, you'll take and pass the General test but stay away from the mic a few more weeks if at all possible. And while you're at it, get yourself one of those old time call signs that used to be reserved for higher classed licensees. Yes, you could get one of these when you are a new TECH, but why not make it a reward for upgrading to General? What I mean is get a 1x3 call with your General. And please get one with a number from your call area (in our case "4"). Maybe you can just drop the second letter of the first call sign you received or maybe you can get your initials.

### **4. Get your QSL card – cheapqsl.com (\$12)**

Now when you get that Tech license you could order some QSLs or you could make them with John, WA8RCR's QSL Maker program since you'll be getting a new 1x3 call sign soon. These can be personalized and the program is FREE. But when/if you get a new call sign, check out the huge number of QSL printers out there, but for the buck (and for service), I don't think you can beat cheap QSLs and Sue/Hal. The price is right and they have some "cool" designs. Use these like business cards when you go to ham club meetings, ham fests, etc. They are also good to hand to a non ham who sees your call sign license plate.

### **5. Make a CW contact, then 10, then 100 (SKCC)**

Somewhere in around step #2, start making contacts – CW that is. Write down on a card strings of what you would send such as MY QTH IS... MY ANTENNA IS... Just about anything you can think of that you would want to send. I WORK FOR... I HAVE 6 KIDS... you get the idea. Once you make one QSO, make 10, etc. You might want to join SKCC (a FREE one). And bookmark the SKCC website: <https://www.skccgroup.com/>. They are very helpful. You could also post some questions at the QRP Forum on the [qrparci.groups.io](http://qrparci.groups.io). You've probably joined North GA QRP club by now: [nogaqrp.org](http://nogaqrp.org) or [nogaqrp.groups.io](http://nogaqrp.groups.io)

### **6. Build your own (QRP) rig**

Now here is what separates the adults from the children! Very few hams have actually built and operated their own transceiver. There are few thrills that exceed the sound of that transceiver when you turn it on and hear that signal coming through, unless it's hearing someone come back to your signal when you call them on a rig you built! Right now the hottest QRP kit is the QCX+ from <https://qrp-labs.com/qcxp>. It's only \$55 for a single band full transceiver kit. We're talking QRP here. Think of it – the power of one of those screw-in Christmas tree light bulbs and using it to talk to someone in the next state or across the world!

### **7. Go for an award – WAS, WAC, collecting QSLs**

Yes, there are thousands of awards out there. It is also quite a thrill to get a QSL in the mailbox. Just collecting the QSLs is fun. I used to put them on the wall with a thumbtack but that was before I owned my own house! Get one of those Worked All States maps and yes, color it in when you work a state. If you have kids in the early grades, they will enjoy helping you on this. If you get frustrated getting return QSLs (I know, it's hard to believe that all hams do not send cards for all contacts), you can get awards from QRP ARCI without cards BUT you have to have made the QSOs at the QRP level (5w CW, 10w SSB). *Continued on page 6-*

**8. Enter a contest – Spartan Sprint, QRP ARCI Party, Weekend Sprint, State QSO Parties**

Now all may not agree with this one but you should try it. By now your CW will be a bit faster, but the QRP contests also are slower and less pressure. One that is a lot of fun is the Spartan Sprint – the first Monday of each month. Also, the NAQC Club runs a different contest each month so give it a go, as the Brits say. SKCC has the Weekend Sprintathon once a month. You may find you like it and it's a good way to pick up those states and countries.

**9. Build your antenna & go TO THE FIELD**

Of course, you will have had to build an antenna sometime up there around Step #2 but this one is listed here because it is FUN to try different antennas when you take you radio outside and operate. There is nothing like the smell of the outdoors while you are operating. You can do it impromptu or you can do it with a group such as Field Day which comes up in late June. And while I'm on it – DO NOT, I repeat, DO NOT buy a wire antenna! You'll spend like 5 to 10 times as much as the parts you use and they are fun to build. Now for your "base" station, you'll probably want to make the antenna pretty substantial but for those field antennas, they can be pretty flimsy and still work so they can be fun to experiment with. You say you live in a deed restricted location, well, antenna experimentation is the thing for you. They are called stealth antennas, so don't give up. And don't forget you can always go "to the field" to do your operating. And of course, there's mobile HF!

**10. Upgrade to Extra Class - (1x2 or 2x1)**

By now you know how to do this – so what's your excuse? And if you're diligent, you can even get yourself an EXTRA class call sign (1x2 or 2x1)!

So that's about it. From here you can fill in the next 10 bullets. How about all the varied aspects of ham radio from digital to satellites to public service to give you years of thrills? But whatever you do, don't overlook the fun of CW. Like Ward Silver, W0AX, said in a recent op ed on the subject, "just because they invented cameras doesn't mean people stopped painting!" Just because you don't have to pass a CW exam in today's amateur radio tests, doesn't mean you can't (or shouldn't) learn CW and enjoy the fun right along with QRP. That's my opinion.

Not sure you agree with all this piece, write a letter/email to the editor: [enews@nfarl.org](mailto:enews@nfarl.org) and get your thoughts into the next NFARL eNEWS newsletter.

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***Strays***

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North Fulton ARL eNEWS February 23, 2007– The Amateur Radio Service Part 97 Rules were modified according to the FCC's Report and Order in the "Morse Code Proceeding," WT Docket 05-235. Beginning on that date, applicants for a General or Amateur Extra class Amateur Radio license no longer will have to demonstrate proficiency in Morse code. They'll just have to pass the applicable written examination. Publication of the new rules in the January 24 Federal Register started a 30-day countdown for the new rules to become effective. Deletion of the Morse requirement -- still a matter of controversy within the amateur community -- is a landmark in Amateur Radio history.

## ***20 for 20 at November VE Session / Wes Lamboley, W3WL***

Congratulations to our twenty (20) test takers this past Saturday! They went for 20 for 20. Eleven were new licensees getting their Technician license, the rest were upgrades. Many, many thanks to Slope's Barbecue and owner Bob White for expanding the test taking area within the restaurant. Please do stop by and get some barbecue as a way of thanking Bob and his staff for all they do for ham radio. Also, kudos to Ian Kahn and his team of Volunteer Examiners for another successful and efficiently run test session.

Some interesting comments were noted from the examinees. They included several form folks that had been interested in ham radio since childhood, but now were finally finding time to pursue their dream of getting a license! Two were members of the Ground Observer Corps and had heard about ham radio there. Several wanted to use ham radio when hiking and/or camping. One couple had decided to get their licenses together just to learn something new! Many were interested in emergency communications, with one person telling us a ham license was required for her Response Team certification. One member convinced his 12 year old son that if he wanted to play with dad's toys he would need to get his license. So the son did! It is always pleasing to hear all the myriad

reasons for pursuing our fabulous hobby. A truly great day for ham radio and the beginning of a new adventure for many!



Below: VE Steve AB4TT checks results on a completed test



Above and right: Test candidates & VE's had plenty of space to get the job done thanks to Mr. Bob White and Slope's staff



**NFARL**  
**November 2020 VE Test Session**  
**Candidates and Results**

<b>Name</b>	<b>Call</b>	<b>Test Level Passed</b>
Richard Monti	N2SSJ	Relicensed to General
Jeanne Monti	Pending	Tech
Nina Kozlova	Pending	Tech
Mark D. Schulze	KO4IFY	General
Craig D. Cuttner	KB1YYE	Extra
James R. Neathery	KO4HHO	General
Scott T. Burgett	KO4HHM	General
Samuel Mejia	Pending	Tech
Kent G. Morehouse	KD4IHV	General
Edwin B. Sims	N4UKW	General
Courtney R. Bishop	Pending	Tech
Michael Yaun	Pending	Tech
Cecil Johnson, Jr.	Pending	Tech
Kevin Swan	Pending	Tech
Sebastian Ulffe	Pending	Tech
Edmund Kim	Pending	Tech and General
Clifford Gott	Pending	Tech
Manuel Puentas	W4QBA	General
David Gearheart	Pending	Tech
Douglas H. Bishop	Pending	Tech



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## ***November is CW Emphasis Month! / De Jim Stafford, W4QO***

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**November is CW!** An emphasis aimed at this cool language!

In early November 2020, our president, John N4IHV, posted a message on the NFARL reflector announcing this emphasis. W4QO, me, is coordinating and there is something for any of these groups who want to learn or improve their CW.

**1. There are now a small group of members who are “learning the code”** and will do so by the end of the month, especially if they practice for 30 minutes per day for the month. Yes, that’s a lot but we help you learn this language with only 46 words – 26 letters, 10 numbers, and 10 other things like commas. If you find your self in this category, then be sure to join us in the Thursday evening CW-CHAT. You can find the details on how to join the group on a reflector [nfarl.groups.io](http://nfarl.groups.io) It’s at 8PM each Thursday.

**2. For those who already know some the code but are very slow-** For these members who can get on HF, they are encouraged to join the SKCC group and to start making contacts with those group members. [skccgroup.com](http://skccgroup.com) If you know code, you should also make moves in this direction.

**3. For those who are pretty good at code, say around 18 wpm-** we want to help you go faster. One way is to enter CW contests. The exchanges are very simple and we have ways to help you. For example, we had 5 members who entered the ARRL November Sweepstakes (SS) on the first weekend of this month. We all did not do it to “win” but to just have fun. You can see the results of these 5 in the box. Let’s also have a bunch of us enter the CQ WW DX (CW) contest the weekend after Thanksgiving. We’d encourage for you to send in your scores (you don’t have to) and add North Fulton ARL as your club.

Some things I’d like to call to your attention. First, is the CW OPs CW classes. There are 4 levels and you can find more about this at <https://cwops.org/cw-academy/> The second is a referral to the Long Island CW club. This new fast growing group has a plethora of classes for all levels of CW attainment. For more info: <https://longislandcwclub.org/cw-online-classes/>

And if there is ANYTHING that I or other “Elmers” in the club can do to help you on your quest, please let us know. You can reach me at [cw@w4qo.com](mailto:cw@w4qo.com) So keep on pounding the brass!

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### ***Did You Know?***

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The comment period for the FCC’s proposed new Amateur Radio license fees CLOSES November 16, 2020. If you are concerned about the financial burden on young people, applicants with limited income or if you have other concerns, NOW IS THE TIME TO ACT!

To ACT, to RESPOND, Go here:

<https://drive.google.com/file/d/1PnKqUQQDgEuUQyCB6LYTAVsIASUM5FJI/view?usp=sharing>

## **Extra Extra! / From the Extra Class Question Pool**

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



**E7A05 — Which of the following is a circuit that continuously alternates between two states without an external clock?**

- A. Monostable multivibrator
- B. J-K flip-flop
- C. T flip-flop
- D. Astable multivibrator

*See answer on the last page!*

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Studying for your Amateur Extra-class license?

The 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](#).

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](#).

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## **WANTED! eNEWS EDITOR! / From Mike Riley, KN4OAK**

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*North Fulton Amateur Radio League is look for someone willing and capable of serving as the Editor / Publisher of **NFARL eNEWS**.*

NFARL is looking for someone to volunteer their time to publish the NFARL eNEWS each month. The document is assembled from articles and information submitted by members volunteering to do so. Presently the document is assembled and "published" using Microsoft Publisher 2013. However, the successful candidate can choose their choice of preferred software and operating platform. The Editor relies on volunteer assistance to proof-read the final version before it is released to the Webmaster for posting on the NFARL website and distribution through automated mailing.

Contact Mike Riley at [KN4OAK@nfarl.org](mailto:KN4OAK@nfarl.org) for info or to volunteer as Editor.

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## Contest Corner

From: <https://contestcalendar.com/contestcal.html>

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- K1USN Slow Speed Test 0000Z-0100Z, Nov 16 <http://www.k1usn.com/sst.html>
- Worldwide Sideband Activity Contest 0100Z-0159Z, Nov 17, 2020 <https://wwsac.com/rules.html>
- CWops Mini-CWT Test 1300Z-1400Z, Nov 18 <https://cwops.org/cwops-tests/>  
1900Z-2000Z, Nov 18  
0300Z-0400Z, Nov 19
- ARRL Sweepstakes Contest, SSB 2100Z, Nov 21 to 0300Z, Nov 23 <http://www.arrl.org/sweepstakes>
- K1USN Slow Speed Test 0000Z-0100Z, Nov 23 <http://www.k1usn.com/sst.html>
- CWops Mini-CWT Test 1300Z-1400Z, Nov 25 <https://cwops.org/cwops-tests/>
- ARRL Sweepstakes Contest, SSB 2100Z, Nov 21 to 0300Z, Nov 23 <http://www.arrl.org/sweepstakes>
- K1USN Slow Speed Test 0000Z-0100Z, Nov 23 <http://www.k1usn.com/sst.html>
- Worldwide Sideband Activity Contest 0100Z-0159Z, Nov 24, 2020 <https://wwsac.com/rules.html>
- SKCC Sprint 0000Z-0200Z, Nov 25 [http://www.skccgroup.com/operating\\_activities/weekday\\_sprint/](http://www.skccgroup.com/operating_activities/weekday_sprint/)
- CWops Mini-CWT Test 1300Z-1400Z, Nov 25 <https://cwops.org/cwops-tests/>  
1900Z-2000Z, Nov 25
- UKEICC 80m Contest 2000Z-2100Z, Nov 25 <https://www.ukeicc.com/80m-rules.php>
- CWops Mini-CWT Test 0300Z-0400Z, Nov 26 <https://cwops.org/cwops-tests/>
- RSGB 80m Autumn Series, CW 2000Z-2130Z, Nov 26 <https://www.rsgbcc.org/hf/rules/2020/rautumn.shtml>
- NCCC Sprint 0230Z-0300Z, Nov 27 <http://www.ncccsprint.com/rules.html>
- CQ Worldwide DX Contest, CW 0000Z, Nov 28 to 2400Z, Nov 29 <http://www.cqww.com/rules.htm>
- ARRL EME Contest 0000Z, Nov 28 to 2359Z, Nov 29 <http://www.arrl.org/eme-contest>
- K1USN Slow Speed Test 0000Z-0100Z, Nov 30 <http://www.k1usn.com/sst.html>
- QCX Challenge 1300Z-1400Z, Nov 30, 2020 <http://www.qrp-labs.com/party.html>  
1900Z-2000Z, Nov 30, 2020  
0300Z-0400Z, Dec 1, 2020
- Worldwide Sideband Activity Contest 0100Z-0159Z, Dec 1, 2020 <https://wwsac.com/rules.html>
- QRP Fox Hunt, 20M, 40M 0200Z-0330Z, Dec 2 [http://www.qrpfoxhunt.org/winter\\_rules.htm](http://www.qrpfoxhunt.org/winter_rules.htm)
- QRP Fox Hunt, 80M 0200Z-0330Z, Dec 4 [http://www.qrpfoxhunt.org/winter\\_rules.htm](http://www.qrpfoxhunt.org/winter_rules.htm)
- Phone Fray 0230Z-0300Z, Dec 2, 2020 [http://www.perluma.com/Phone Fray Contest Rules.pdf](http://www.perluma.com/Phone_Fray_Contest_Rules.pdf)
- CWops Mini-CWT Test 1300Z-1400Z, Dec 2 <https://cwops.org/cwops-tests/>  
1900Z-2000Z, Dec 2  
0300Z-0400Z, Dec 3
- NRAU 10m Activity Contest 1800Z-1900Z, Dec 3 (CW) <https://nrricontest.no/index.php/nrri-contests/nrau-nac/10m/nrau-nac-10m-english-rules/278-nrau-nac-10m-english-rules.html>  
1900Z-2000Z, Dec 3 (SSB)  
2000Z-2100Z, Dec 3 (FM)  
2100Z-2200Z, Dec 3 (Dig)
- NCCC Sprint 0230Z-0300Z, Dec 4, 2020 <http://www.ncccsprint.com/rules.html>
- ARRL 160-Meter Contest 2200Z, Dec 4 to 1600Z, Dec 6, 2020 <http://www.arrl.org/160-meter>

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## ***NFARL Upcoming Events and Dates***

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- **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](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 *Call to verify operations*  
***Dining Room now OPEN with COVID-19 Restrictions. Get Take Out if you can't stay!***
- **Every Thursday — YL OP 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 Saturday — Royal Order of the Olde Geezers Breakfast** - 9 AM  
Location: Reveille Café, 2960 Shallowford Road, Marietta, GA 30066  
(770) 971-6800 *Call to verify operations*  
***Dining Room now OPEN with COVID-19 Restrictions.***
- **Second Tuesday — NFARES Meeting** - December 8, 2020 ***Online meetings only until COVID-19 Restrictions Lifted.*** Check [NFARES.org](https://www.nfares.org) for more information.
- **Second Saturday – VE Testing - NFARL December 12, 2020 session: Logistics planning underway. COVID-19 Restrictions in place. By reservation only.** See the ["Test Sessions"](#) web page and [NV4C's message](#) on the NFARL Groups.io reflector for details & registration process.  
Contact Ian at [nv4c.ian@gmail.com](mailto:nv4c.ian@gmail.com) for questions / concerns.
- **Spalding Amateur Radio Club Video Supervised Virtual VE Exam**- Go Here and Review Info <https://k4cxs-scarc.wixsite.com/k4cxs>
- **Third Tuesday — NFARL Club Meeting** - November 17, 2020, 7:30 PM  
***Online meetings only until COVID-19 Restrictions Lifted***  
— ***November 2020 Topic:*** Bob Bruninga WB4APR, will discuss Alternative Energy Choices
- **Fourth Tuesday – NFARL Executive Team Meeting** - November 24, 2020, 7:00 PM  
***Online meetings only until COVID-19 Restrictions Lifted***  
— monitor website and NFARL Groups.io reflector for updates.



## Contact Us

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President	John Norris N4IHV	<a href="mailto:President@nfarl.org">President@nfarl.org</a>
Vice President	Jim Kauffman W4IU	<a href="mailto:VicePresident@nfarl.org">VicePresident@nfarl.org</a>
Secretary	Martha Muir W4MSA	<a href="mailto:Secretary@nfarl.org">Secretary@nfarl.org</a>
Treasurer	John Tramontanis N4TOL	<a href="mailto:Treasurer@nfarl.org">Treasurer@nfarl.org</a>
Activities Chair	Mike Riley KN4OAK	<a href="mailto:Activities@nfarl.org">Activities@nfarl.org</a>
Membership Chair	Wes Lamboley W3WL	<a href="mailto:Membership@nfarl.org">Membership@nfarl.org</a>
Past President	Daryl Young K4RGK	<a href="mailto:PastPresident@nfarl.org">PastPresident@nfarl.org</a>
Mentors / Elmers	Chuck Catledge AE4CW	<a href="mailto:Elmers@nfarl.org">Elmers@nfarl.org</a>
Field Day Chair	Mike Riley KN4OAK	<a href="mailto:FieldDay@nfarl.org">FieldDay@nfarl.org</a>
Scout Coordinator	Jon Wittlin K4WIT	<a href="mailto:k4wit@nfarl.org">k4wit@nfarl.org</a>
ARES Liaison and Community Relations	Jim Paine N4SEC	<a href="mailto:n4sec@nfarl.org">n4sec@nfarl.org</a>
Repeater Operations	Mike Roden W5JR	<a href="mailto:Repeaters@nfarl.org">Repeaters@nfarl.org</a>
Webmaster	Bill Cobb K4YJJ	<a href="mailto:Webmaster@nfarl.org">Webmaster@nfarl.org</a>
eNews Team	Help Wanted!!	<a href="mailto:enews@nfarl.org">enews@nfarl.org</a>

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## **North Fulton Amateur Radio League**

P.O. Box 1741  
Roswell, GA 30077

[nfarl.org](http://nfarl.org)

eNews can be located online at:  
<https://www.nfarl.org/enews/eNewsIndex.html>

## 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: D (question E7A05)**

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