

	<p>North Fulton Amateur Radio League NFARL eNEWS</p> <p>July 2020</p> <p>Over 40 Years Promoting Service Friendship Education Fun</p> <p>www.nfarl.org</p>	
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President's Corner / John Norris, N4IHV

Looks like Zoom is our new main meeting connection. We do not have a definitive date from Alpharetta about opening the Alpharetta Adult Activity Center. They stated it would be the last Government Facility to open. We were fortunate to have Bob White of Slope's BBQ allow us to have our Hungry Hams lunches and VE sessions in his restaurant. We have given him a framed recognition document and NFARL Phone Charger for his kindness.

Field Day 2020 was a real success and was well managed by Mike Riley, KN4OAK. Thanks Mike. We had excellent participation and lots of fun. We are looking forward to our next adventure to be in person.

I am sure projects are underway and more are being added. We are going to be in shock when this Virus issue is no longer front page. I did not realize how many home projects my YL could find for me to accomplish. Play projects have turned into real work. YIKES!

Everyone continue to be diligent and safe during this time. Looking forward to seeing you at our Zoom meetings on the third Tuesday of each month.

Thanks,

John Norris, President

Congratulations to Our New / Upgraded NFARL Members

Congratulations and welcome to North Fulton Amateur Radio League. We're glad you've joined us and look forward to supporting you and hearing you on the air during your Amateur Radio endeavors!

June 2020		July 2020	
Jack McElroy	KM4ZIA	Arif Ogan	KO4BSS
Craig Miller	KO4EKL	Paul Ajamian	KM4WVW
William Trammell	KO4BND	Marcia Bennett	KO4FGI
John Moelter	KO4EIR	Lydia Bennett	KO4FGH
Douglas Miller	KC4ENL	Adam Kiesche	KO4FGF
Marius Lizunas	KN4EKX	Issac Kiesche	KO4FGG
		Tom Kutz	KN4ZUQ
		Kim Caldwell	KO4FGJ

On the Air! / Jim Stafford, W4QO

We've all heard this term a lot. At Field Day, it's Get OTA to find ways to entice newcomers to join us and yes, GOTA! And the term is used generically for every contest such as Georgia QSO Party. But there is appearing more and more these days in a two specific ways – Summits and Parks.

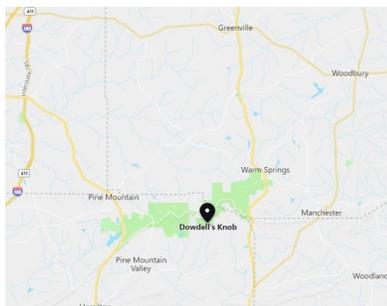
Summits has been running strong for several years now and you guessed it, NFARL members have played significantly in this effort. First, Christian Kurtz, AK7VV, when he lived in Roswell and a member of the club, analyzed every mountain in Georgia and classified it according to SOTA rules. Gave all of them a number and entered into a database. Quite an undertaking. He also activated several "summits". Then there is Kevin Kleinfelter, K4KPK, who as a club member and Georgia SOTA coordinator, is probably one of the more energetic SOTA "hoppers". Kevin has a nice site... <http://k4kpk.com/sota-serial-ebook>. I believe he has hiked every category 10 (the highest) summits in Georgia and made contacts from each. These folks are considered "Activators". But there are also "Chasers". Our own Chris Caldwell, W4CCH, while making contacts from the comfort of his shack has accumulated over 1000 points to become a bona fide SLOTH with a certificate to prove it.



What are some sites to explore? There are many; just google 'Summits on the Air'. Here are some I keep bookmarked: <https://sotawatch.sota.org.uk/>, <https://www.sota.org.uk/> and <https://www.sotamaps.org/>. On the last one, choose as Association: W4G. This will show you the zones in GA. Then choose Region: W4G/CE. This will show that there are only 4 summits in our area that qualify. Look at CE-004... Dowdell Knob in the lower left corner of our region. It's been activated 19 times. Only a "1 pointer" it's quite easy. So why not be an activator and take your gear! If you click the title of the picture that pops up, it will take you to this site... <https://summits.sota.org.uk/summit/W4G/CE-004>. It will show you that notable K2UFT, Dick, from Dunwoody was the first activation back on October 13, 2012! Keep looking around. You find that club member, Dana, KN4BEV, activated it on July 7, 2018!



This statue of FDR (left) is at Dowdell's Knob .



Dowdell's Knob near Columbus, GA

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On the Air! / Continued from Page 2...

To see who is "on the air" go to the site... <https://sotawatch.sota.org.uk/> and you'll see the spots of "who is on the air". I wish there was a way to filter to US activations but I have not found it. You can see who is on and who is ALERTing you that they will be on later that day. The ALERTS are filtered to the USA by entering a "W" in that box.



But wait there's more! It seems that the Parks On The Air (POTA) has taken the air waves by storm in the past couple years. Every state and national park in the US has adopted the numbering system that has a K followed by 4 digits. To get started go to <https://parksontheair.com/rules/>. This whole idea flowed out of the great NPOTA event a couple years back with the National Parks and extended to also include State Parks. You'll be amazed at how many parks <https://pota.us/#/map> there are in this program. Just go to the MAP section of the world you want and ZOOM in! There are dozens in Georgia. Now, to find out what is "on the air" go to...

<https://pota.us/#/activations>. As I type this, there are 11 parks in the US activated. Nose around these sites and why not "take to the field/park"? Here is the link to a FAQ page... <https://parksontheair.com/faq/>. There are several YouTube videos. There is also a Facebook group: <https://www.facebook.com/groups/parksontheair/>. This whole POTA is very active. Why not take a chance and do a POTA?

Jim Popovich WB8CPG, at an activation somewhere cold enough for snow... Go see Jim's QRZ page to learn about his POTA awards



Name This Ham

How well do you know your fellow members of NFARL?

Name this ham.

This member of NFARL has spent all of his life in DeKalb and Fulton Counties.

Speaking of being local, he was born at Emory Hospital. Growing up, his father's interest in CW, building circuit boards, and other electronics projects became his interests, though neither earned a ham license at the time. Now retired, industrial automation and designing control systems were the focus of his career.

His initial interest in ham radio was emergency communications and being helpful to the community. A couple of years into his new hobby, another NFARL ham was selling equipment related to satellite activities and he did the deal. This ham dove in and satellite communication became his new focus. He has earned VUCC for making at least 100 confirmed contacts, given for contact with a minimum number of Maidenhead grid locators per band .

He is now actively involved in ARISS activities and serves as an ARISS Technical Mentor. This ham and his lovely wife, who became a ham after being fascinated with what he was doing in the hobby, spent their 20th wedding anniversary helping a local school with their ARISS Radio Contact.

Unlike some of the other hams featured in these 'Name the Ham' articles, this ham has been a licensed ham for under a decade. In that short time, he has served as the vice president and activities chairman for NFARL, among other things. Busy, busy, busy.

Speaking of busy, name this ham, a former president of NFARL, who was part of a three person team that earned over 200,000 points in this April's GA QSO Party.

Who is this great member of NFARL? Confirm your answer on page 7 of this newsletter.

Navajo Code Talkers Special Event / Terry Joyner, W4YBV

One of my favorite Special Event Stations will be on the air next month. The event runs 0000Z August 11, 2020 —0000Z August 15, 2020. It's the **(N7C) NAVAJO CODE TALKERS SPECIAL EVENT** from Lukachukai, Navajo Nation, AZ. This event commemorates the Navajo Code Talkers of WWII South Pacific. They have great QSL cards and a certificate available for USD \$5.00

You have several days to work them on 14.265 MHz, 7.265 MHz, & 18.133MHz. (SSB). Check it out. You can visit **N7C** or Herbert Goodluck, **N7HG** on QRZ for more information. You can read more about the Navajo Code Talkers at these links; [Navajo Code Talkers: Last of the living WWII heroes](#), [Navajo Code Talkers](#), [H.R. 4527 \(106th\)](#), and [Navajo Code Talkers WWII Fact Sheet](#).

Good luck

Terry, W4YBV

NFARL's VE Team is Back! / Martha Muir, W4MSA

NFARL's VE team is back in the business of giving license exams to hams and wanna-be hams in the metro Atlanta area. Thanks to Bob White, owner of Slope's Barbeque, we were able use their dining room area as our testing site for both our June and July test sessions.

In June, eight candidates and five VEs, plus a special dual titled VE sitting outside, met at Slope's on Woodstock Road in Roswell before the restaurant opened for business. The amazing aromas in the air let us know the staff was hard at work getting items ready for that day's guests.

A spectrum of candidates quickly claimed the 8 slots Ian made available for this first test session in this time of the corona virus and restrictions. NFARL's last VE session was held in February. NFARL's usual VE location is the Alpharetta Adult Activity Center but the city of Alpharetta has closed that center and is not likely to open it up for NFARL and others to use until late in the summer, if then. Again, Bob was very kind to let us hold the VE session in his facility.

Some of the candidates came from areas outside the usual NFARL range including the far south side of Atlanta. The pent up demand for testing is there. About half of the candidates were trying to beat the change in the Extra exam question pool scheduled for the end of June. Some were just starting out in the hobby trying to earn their Tech license. A couple of General licenses were earned, too.

Ian NV4C was the VEC of this session. VEs were Steve KS4KJ, Lane KB4KHQ, Mike N4MEP, and Martha W4MSA. Sitting outside on the patio was VE and NFARL membership chairman Wes W3WL. Wes spoke with all of the candidates as each walked out of the door, giving the successful candidates their certificates for a year of membership in NFARL, and talking with them about what NFARL has to offer them. This personal chat hopefully sets the stage for a rewarding experience with NFARL.



June VE Team

Continued on next page



June Social distanced testing

At the July VE session, once again, we had the full slate of 8 candidates. Also once again, social distancing was in place as you can see in the photos. All candidates, including one father and son team and a mother and daughter team, passed their exams and one passed his General and Extra exams.

The VEs for this session included VEC Ian NV4C, Lane KB4KHQ, Steve KS4KJ, John W4TXA, and Martha W4MSA. Wes W3WL, NFARL Membership Chairman was in position outside on the patio ready to talk with the successful candidates about NFARL. NFARL President John N4IHV joined Wes on the patio and spoke with the new or upgraded hams. The activity and conversations on the patio – social distanced and masked – was the closest thing to a club meeting in a long time.



Socially distanced testing in July

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NFARL's VE Team is Back! / Continued from page 6...

As you will read in a separate article, Wes and John presented Slope's owner Bob White with a letter of thanks and a NFARL emblazoned charging unit to let him **know how much we** appreciate what he and Slope's does for NFARL.



In these pandemic days – with masks and social distancing and concerns about touching things – candidates at our test sessions have many things to be concerned about ON TOP of knowing the material for their tests and yet they come. The limited testing slots that Ian offers are spoken for moments after they become available.

Thanks to Bob and the other folks at Slope's, we get to continue welcoming new hams to the

hobby.. The August VE session will be held on August 8 but the times have changed. Candidates should meet at Slope's by 8:30 AM. See the NFARL website for more information and to reserve one of the limited testing slots.

Name This Ham (Continued from Page 4...)



**Daryl
K4RGK**



Bob White takes the "someday" out of NFARL license exams!

/ Wes Lamboley, W3WL

To the extent at which the Communities served by
North Fulton Amateur Radio League
support it in the endeavors below, the Club hereby sincerely thanks

Bob White and *the Slope's BBQ Staff*
for hosting events during the nCoV19 pandemic
NFARL HUNGRY HAMS LUNCH

AND

VE AMATEUR RADIO LICENSE TEST SESSIONS

Thus begins a citation presented to Bob White following the July VE session by NFARL president John N4IHV.

With the virus shutting down our usual location at the Alpharetta Adult Recreation Center and the many folks wanting to take the amateur exam tests, Ian NV4C, and his VE Team have had to say "Someday – when the Activity Center reopens we will resume testing". However, when our longtime friend of ham radio and owner of **Slope's Barbecue** reopened the restaurant, Martha Muir W4MSA, and member of Ian's Team thought – "I wonder if Bob would allow us to test at **Slope's** before they open on Saturday?" Martha passed the idea on to John Norris N4IHV, and NFARL Pres John called Bob and Bob replied "sure" before John got the words out of his mouth!

So far, Ian and the Team have held two test sessions on the regular second Saturday of the month test days, with the session on July 11 yielding 8 for 8 test taker successes!

The VE testing at **Slope's** is expected to continue into the future until the Adult Activity Center reopens, but we are limited to 8 test takers, reservations must be made ahead of time and the sessions begin promptly at 8:30 AM with no walk-ins permitted. (see "Test Sessions) on the NFARL website (nfarl.org) for more information).

In the picture, John Norris presents Bob White a heartfelt token of our appreciation to **Slope's Barbecue** and their support of Amateur Radio in the community.



My DIY G5RV Antenna / Fred Ackley, W4FRA

Since I got my first ticket in 2012, I had been content to live in the ARES world of VHF and UHF. My first ham radio was (is) a Yaesu dual band mobile which now sits in my shack, replaced by pair of TYT TH-7800s in two cars. Following the Yaesu purchase came a string cheap Baofeng HTs. But eventually peer pressure drove me to go for my General ticket and Grant Register pounded me to buy his surplus Yaesu FT-450 HF rig (complete with tuner and a Signalink.).

So having acquired the radio, I clearly needed an antenna. Cheap guy that I am (like many most of us), I decided the best thing to do was to build an all-band antenna. So, finding parts around the house and advice from Club members I set out to build my own version of the G5RV.

Starting with what was on hand, I found the following:

- Stranded 18 gauge wire
- Two small cable clamps
- Two small chain links
- A pass through connector (feed line to ladder line connection)
- Lots of RG6 cable for the feed line

What I determined as needing to buy:

- Two dog bone insulators
- A small sheet of clear Lexan polycarbonate sheet
- Ladder line (36')
- Two rolls of Paracord

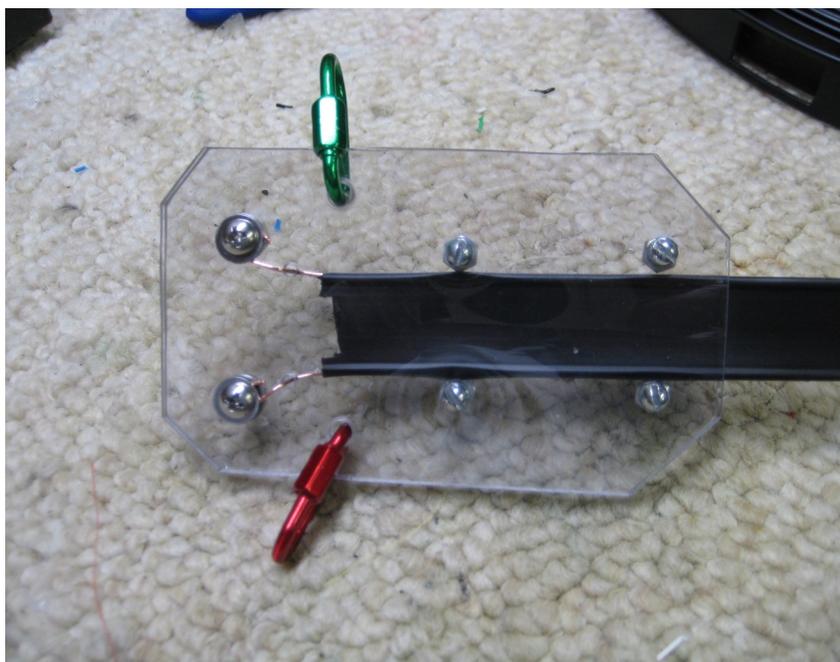
Starting with the Lexan, I laid out the pattern for the antenna center piece plates. I used two mirror image plates, sandwiched them together, and drilled holes through both plates.



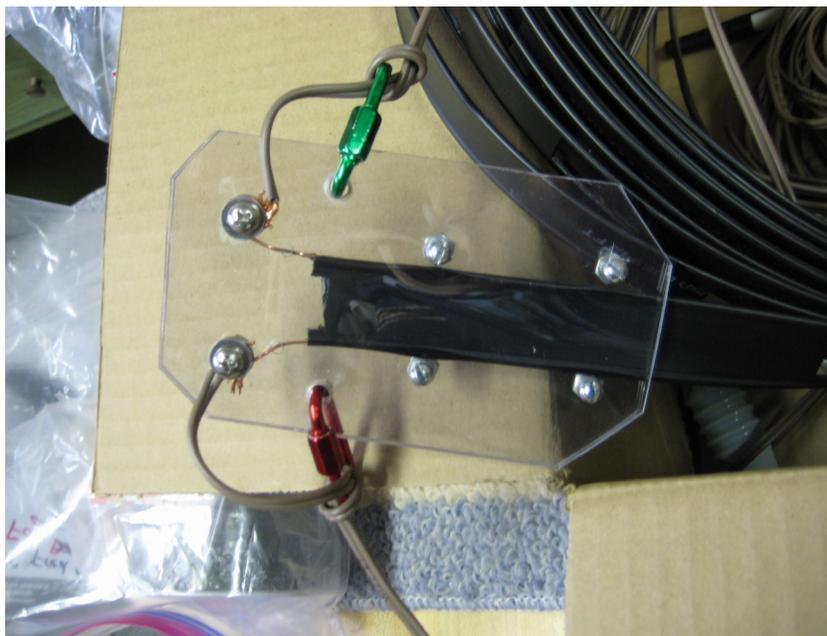
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My DIY G5RV Antenna / Continued from Page 9...

Then I began adding the parts. The two plastic pieces are put together with the ladder line running up the middle. The ladder line is squashed between the two matching pieces of plastic. The wires come back out from small holes just below the two stainless bolts at the top where the wires terminate. The two small links are attached to the outer edges of the plastic base. The bolts on either side of the ladder line are to give a good squeeze to the ladder line, holding it in place. I eventually added a small bolt all the way through the middle of the ladder line, just to be positive that it cannot possibly pull out.



Fifty one feet of antenna wire was knotted on to each link of the center piece. The wire ends were stripped and twisted together to make a single conductor. Those wires were then terminated to the same bolts as the ladder line.



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My DIY G5RV Antenna / Continued from Page 10...

The other end of the two 51 foot antenna wires were attached to the dog-bone insulators and clamped with wire cable clamps.

The feed line end of the ladder line was run into the white block connector along with the stripped end of the coax feed line- no balun is used. To take strain off the feedline connection I drilled a hole in the center of the ladder line and secured the parts with cable ties. The feed line was taped with self-sealing tape and it, along with the upper antenna connections, were then waterproofed with spray rubber.



The antenna has come down once due to high winds sawing through the Paracord hoist lines, but the antenna was not damaged at all. With fantastic help from Garry Brass AK4NA, this time we put it up using the pulley and weight method. So, no more sawing on the hoist lines and no need for sag in the antenna. Good thing about the sag because with 36 feet of ladder line it sits only a few inches off my roof.

The antenna has been up for nearly 6 months and continues to work amazing well, despite the 75 ohm feed line and arbitrary ladder line length. With the LDG 100 Pro II tuner it works on everything except 160m. So far I'm only doing SSB, but have talked to several countries in Europe, South America, Canada, the Caribbean and even New Zealand. I even managed to get a Club First Place in the Georgia QSO party running QRP!

Total cost for parts not on hand:

- Ladder line - \$17
- Lexan \$5
- Dog-bone insulators \$1 each
- Two rolls of Paracord , 300 Meters each - \$25 -both (would have needed that for any antenna)
- Pulley and 8 lb. weight donated by Garry Brass 😊 AK4NA (Thanks Garry!!)

73, Fred W4FRA

2020 Field Day Reflection / John Tramontanis, N4TOL

Summary:

Station: N4TOL
Class: 1D LP
QTH: GA
Club: North Fulton ARL

Comments:

Icom IC-7600 @ 100 watts
HOA wire

Band	CW Qs	Ph Qs	Dig Qs
80	33	12	
40	49	50	
20	129	98	
15	63	28	
10	26	12	
Totals	300	200	0

Total Score = 800

I thought Field Day this year would be uneventful, operating from the comfort of the home shack with commercial power, but it turned out to have some of the unpredictability of a regular Field Day. Thunderstorms prevailed during the late afternoon on Saturday and I had to unplug and temporarily cease operating. Then early Saturday evening a local power outage rebooted the entire house during operation.

When the lights, radio, and computers came back on, my logging program (N3FJP) was behaving erratically. I would log a contact and all the contacts in the log to that point would clear. However, the program was keeping the contact, I just needed to reload the data file each time this happened. Sometimes it would happen after a single contact, and sometimes I could run up to 10 contacts or so before it would clear. Not only was this slowing my rate, but it was a bit unsettling, as I wasn't sure if at some point when the data cleared, the next reload may fail.

I decided to pause operating (even though this was prime time) and download a new instance of the program on my laptop computer and bring the data file over. However, the problem was still there, as it turned out, the data file was fouled up. I chose to soldier on, utilizing the laptop situated to my left (see photo), as I had transferred all peripherals, K1EL device, and rig interfaces, to the spare machine at this point. Although valuable time was lost, the program was still resetting sporadically and emptying the data records each time.



Fortunately, the program was still saving the records, so I had to repeat the process of reloading the file each time this happened, and hope they would not vanish for good. This certainly impacted trying to run a frequency, but at least I was not losing data, and still in the game. This worked, at least for the remainder of the event.

As it turned out, I was able to rectify the data issue by exporting the data file to an "ADI" format and then importing back in to the program as a new log. Unfortunately, I did not think of this simple fix until Sunday evening.

We always learn from Field Day and this was no exception. I learned that I have been procrastinating too long for installing a UPS for my shack computer, and that bit me. I learned that trying to think of more simple solutions to a problem in the heat of battle can help (I thought I had - but the ADI file solution was so simple, but thought of too late). I learned that spending

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2020 Field Day Reflection / Continued from Page 12...

most of Saturday night on Field Day in my own bed is much more comfortable than sleeping in my Buick next to the rumbling generator at the NFARL site. Finally, I learned (or confirmed once again) that you can't hide, Murphy will find you!

All in all, it was fun event to operate as the bands were quite busy, but it was an awkward feeling calling CQ Field Day surrounded by the comforts of home. I managed 500 contacts, 300 CW and 200 SSB, and worked 43 states. However, I really prefer a Field Day with a large gathering enjoying a summer barbeque, and hanging out all night under a tent with my fellow hams. I will be ready for that next year.

73,
John Tramontanis N4TOL

U.S. Islands W/VE Island QSO Party / Mike Riley, KN4OAK

The U.S Islands Awards Program (USI) celebrates its 26th year during 2020. In the past, NFARL members have enjoyed many activation and chaser activities. I've heard tales of a "Suwannee River" event, but that's a story best left for others to tell. I think the most recent USI event the Club had was pretty exciting. We got to test wind-loading on antennae and portable temporary sun shelters. Those of you who were there and dislike thunderstorms may or may not agree...

Anyway, NFARL can again partake in the USI W/VE Island QSO Party this year. The USI team has changed the date from August 22, 2020 to August 29, 2020. There are three "categories" for operations to choose from. You can review the 2020 W/VE Island QSO Party Rules by clicking [here](#). The August 29th date gives us about six weeks to figure out what we might want to do given the ongoing nCoV19 pandemic.

Terry Joyner W4YBV, has recommended we consider a small team that utilizes social distancing best practices if we choose to operate in the "Island Expedition" category. This means mask, bring your own food and beverage, travel in groups of 1-3, follow CDC guidelines, etc. It will also require us to determine the "Expedition Location". We've begun investigating West Bank Park and other area sites, but want to understand how many Club members are willing to participate in an "expedition" before we make any reservation commitments. So, if you're interested, capable (physically & health / safety wise), and willing to commit to participating in a small group event (a dozen members +/-) on August 29, 2020 then **ACTION is Required!** Send Mike KN4OAK an email before July 31, 2020 indicating you're interested and want to participate using this link ([click here](#)).

In 2020 there are two operating categories identified as "W/VE Island Fixed" and "Non-Island".

- W/VE Island Fixed: *"For single or multi-operator stations with resident amateur operators with an established, fixed, home-QTH station."*
- Non-Island: *"For fixed, portable or mobile stations within 49 US states (KH6 and Puerto Rico would be a fixed/permanent island entry), Canada and all DX, where the station is not located on a qualified W/VE island."*

Does this look familiar? Remember Field Day? These options enable those who aren't / won't venture on an Expedition or operate as a Rover with the ability to participate. So— please consider participating! More information will be provided on the Reflector during the next two weeks.

73, Mike KN4OAK

Extra Extra! / From the Extra Class Question Pool

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



E9C02

What is the radiation pattern of two 1/4-wavelength vertical antennas spaced 1/4-wavelength apart and fed 90 degrees out of phase?

- A. Cardioid
- B. Omni-directional
- C. A figure-8 end-fire along the axis of the array
- D. A figure-8 broadside to the axis of the array

See answer on the last page!

Studying for your Amateur Extra-class license?
The [current question pool](#) is effective through June 30, 2024

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](#).

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

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

- Batavia FT8 Contest 0000Z, Aug 1 to 2359Z, Aug 2 <https://batavia-ft8.com/>
- 10-10 Int. Summer Contest, SSB 0001Z, Aug 1 to 2359Z, Aug 2 <https://www.ten-ten.org/index.php/activity/2013-07-22-20-26-48/qso-party-rules>
- ARRL 222 MHz and Up Distance Contest 1800Z, Aug 1 to 1800Z, Aug 2 <http://www.arrl.org/222-mhz-and-up-distance-contest>
- North American QSO Party, CW 1800Z, Aug 1 to 0559Z, Aug 2 <http://www.ncjweb.com/NAQP-Rules.pdf>
- Maryland-DC QSO Party 1400Z, Aug 8 to 0400Z, Aug 9 <https://w3vpr.org/mdcqsop/>
- Worldwide Sideband Activity Contest 0100Z-0159Z, Aug 11 <https://wwsac.com/rules.html>
- ARRL 10 GHz and Up Contest 0600 local, Aug 15 to 2400 local, Aug 16 <http://www.arrl.org/10-ghz-up>
- North American QSO Party, SSB 1800Z, Aug 15 to 0559Z, Aug 16 <http://www.ncjweb.com/NAQP-Rules.pdf>

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 *Call to verify operations*
Dining Room now OPEN with COVID-19 Restrictions.

- **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** - August 14, 2020 ***Online meetings only until COVID-19 Restrictions Lifted.*** Check NFARES.org for more information.
- **Second Saturday – VE Testing - NFARL August 8, 2020 session: ***COVID-19 Restrictions in place. By reservation only. Slopes BBQ 8:30-10:30AM.***** See [NV4C's message](#) on the NFARL reflector for details & registration process.
Note the time change and process updates.
 - Registration will open on Friday, July 24, 2020, at 5:00 PM ET. No registrations will be accepted before that time. We have a maximum of eight (8) candidate seats available.
 - Registration will close on Wednesday, August 5, at 11:59 PM ET. No registrations will be accepted after that time.Contact Ian at 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** - July 21, 2020, 7:30 PM
Online meetings only until COVID-19 Restrictions Lifted
— ***July 2020 Topic:*** Dr. Gordon Gibby KX4Z will be our Speaker; his presentation will be on the Open Source Ventilator Project.
- **Fourth Tuesday – NFARL Executive Team Meeting** - July 28, 2020, 7:00 PM
Online meetings only until COVID-19 Restrictions Lifted
— monitor website and NFARL GroupsIO reflector for updates.
- **August 29, 2020 – Hold for U.S. Islands Event!**

Contact Us

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

North Fulton Amateur Radio League

P.O. Box 1741
Roswell, GA 30077

nfarl.org

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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 Callsigns: NF4GA and K4JJ

Extra Extra answer: A (question E9C02)

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