Join Us for Our July Club Meeting!

Our speaker is David Cripe, NM0S, of Mt. Vernon, IA. Dave holds a Amateur Extra radio license and has been a licensed Ham since 1981. He is currently an engineer at Collins Aerospace in Cedar Rapids, IA. Dave will join us via Skype to present:


This is an account of the tumultuous US Navy Greenland Expedition of 1925, in which a set of circumstances brought together:

- John Reinartz, the noted radio engineer
- Eugene McDonald, founder of Zenith Radio
- Donald MacMillan, famed arctic explorer
- Richard Byrd, Navy aviator
- Art Collins, teenaged budding radio enthusiast and future founder of Collins Radio

The events of this historic summer changed the radio industry forever!

NFARL’s meeting is held at the Alpharetta Adult Activity Center at North Park, 13450 Cogburn Rd., Alpharetta 30004.

Our meeting on Tuesday July 16 begins at 7:30 PM, but join us for an informal pre-meeting gathering starting at 7:00 PM. We will also have a mini fox hunt prior to the meeting on the park property starting at 6:30 - 6:45 PM.
Another year of 13 Colonies is in the books! This year, Georgia was represented by 16 operators across the state. The following operators made contacts as K2G:

- Winford Barnes, W8XC
- Dan Cisson, N4GNR
- Mark Coleman, KJ4YM
- Bob Hensey, K4VBM
- Mike Hoing, NN9DD
- Don Howerton, WA4OKJ
- RJ Hubbard, WF4W
- Ian Kahn, NV4C
- Jason Kitchens, KV4TE
- John Laney III, K4BAI
- Tim Lemmon, WK4U
- Steve Mays, KS4KJ
- Rob Momon, N4VPI
- David Probst, ND4K
- Bob Wilson, N4XU
- Nathan H. Wood, K4NHW

As of July 9, our scores have been submitted to the event coordinator but the final results have not been released. As far as Georgia’s contribution, we made 13,006 QSO’s! This set a record for the number of Q’s ever submitted from K2G in the 11 years of the event! Once the results are released, I’ll distribute them on the NFARL email reflector (Note: page 8 shows how to sign up for emails on Groups.io)

For more information on the 13 Colonies Special Event, visit www.13colonies.net. You can check out the info for the various colonies and their QSL info if you plan to send in for a QSL card!

To receive a K2G card, send your QSL info along with a SASE to:
K4NHW
PO Box 2383
Powder Springs, GA 30127

If you missed operating in the event this year, we are already planning for 2020! Mark your calendars for July 1 - 7, 2020 to get your clean sweep!

Nathan H. Wood, K4NHW
13 Colonies State Manager for Georgia (K2G)

Did you know?
Georgia was the last of the 13 colonies. Its charter was granted to General James Oglethorpe on April 21, 1732 by George II, for whom the colony was named. Its land included what is now Georgia, Alabama, and Mississippi.
Field Day Feast / Martha Muir, W4MSA

Did you notice? Even though they weren’t there for their biggest ‘job’ during Field Day, Lynn Kahn N4MSK and Ian Kahn NV4C made sure that the Saturday night feast came off smoothly, with everyone leaving well fed and satisfied. How is this possible?

Officially, Lynn is in charge of the food for all the meals and snacks during Field Day and Ian is her sous chef/right hand man. Their work at this task begins well before Field Day – inventorying the supplies left over from the previous year, surveying NFARL members to get an idea of how many people will be attending the feast and what side item they will be bringing, and then shopping and ordering all the new items that will be needed to supplement it all. But wait, there’s more!

The club’s storage bins are organized and labeled for content. Ice chests are borrowed. Tables in the park shelter are arranged. Snacks are put out on those tables. Drinks are sorted and placed in the labeled ice chests – sugary drinks, water, sugar free drinks. And then there are the multiple runs for ice. With weather as hot as we had for this year’s Field Day, keeping the drinks and items to be grilled cold required nearly 400 pounds of ice – not all at one time, of course – hence the multiple runs for ice.

Without a doubt, Field Day is all about merging the club’s talents to make tons of radio contacts, but the food services provided by Lynn and Ian allowed the NFARL family and friends to partake in the Saturday night feast and other nibbling opportunities while enjoying tons of people-to-people, friend-to-friend contacts. And they pulled this off despite having a family conflict that kept them away from all but the cleanup time of Saturday night’s feast. How well organized must Lynn’s plans have been, how organized must all the materials related to the feeding of the NFARL crowd have been that the Kahn family could step away to take care of family obligations yet the needs, wants, and bellies of the feast participants were more than satisfied.

Thank you, Lynn. Thank you, Ian. Thanks also to Steve Knittel, AB4TT, for making the run to get the Spiced Right barbeque and Bill Cobb, K4YJJ, for grilling up all the hot dogs and hamburgers.

Thanks, too, to John Norris, N4IHV, and all the others involved in planning and carrying out the plans for this year’s Field Day. Big, complex operations – the actual radio work of it or the smooth as silk food operations- are the result of a lot of behind the scenes work. My thanks to those who got the jobs done.

Editor’s note: Thanks also to author Martha Muir, W4MSA, for preparing a wonderful Sunday breakfast of pancakes and bacon for the overnight and early morning operators!

Club Library

If you have attended a club meeting (and we hope you have!), you’ve likely seen the book cabinet on the right side of the room. Check it out and then check out a book!

Have amateur radio books that could be of use to others in the club? Send our club librarian Reed Fisher, W2CQH, a note at library@nfarl.org.
The Gwinnett Amateur Radio Society (GARS) is sponsoring a HamCram Technician License Class on **Saturday, July 20 and 27, 2019** in Lawrenceville, GA. They will be using the [hamradioschool.com](http://hamradioschool.com) study materials.

The first Saturday will be 8:00 AM to 4:00 PM, and the second Saturday will be 8:00 AM until finished with the test session. A $25.00 fee will cover lunches both Saturdays and testing. This exam session is a closed session only available to those students who sign up for the class.

Please visit [http://gars.org/](http://gars.org/) for more information and to pre-register for the class.

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**Contest Corner**

- **7/13/19 to 7/14/19** **IARU HF Championship** — Contact as many other amateurs, especially IARU member society HQ stations, around the world as possible using the 160, 80, 40, 20, 15 and 10 meter bands. For more information: [http://www.arrl.org/iaru-hf-championship](http://www.arrl.org/iaru-hf-championship)

- **8/1/19 to 9/1/19** **World Wide Digi DX Contest** — This new contest taps into the excitement being generated by the new digital modes pioneered by Joe Taylor K1JT and the WSJT-X development team. The contest will occur over 24 hours using the FT4 and FT8 modes on the 160, 80, 40, 20, 15, and 10-meter bands. For more information: [https://ww-digi.com](https://ww-digi.com)

- **8/3/19 to 8/4/19** **222 MHz and Up Distance Contest** — Work as many stations as possible on the 222 MHz through 241 GHz bands using any allowable mode. For more information: [http://www.arrl.org/222-mhz-and-up-distance-contest](http://www.arrl.org/222-mhz-and-up-distance-contest)

Fun 2019 ARRL June VHF Contest / Bob Hensey, K4VBM

I spent the second weekend of June in Dahlonega at the QTH of Bob Lear, W4ZST, home of the FourLanders Contest Club, W4NH (Whiskey Four Never Hungry), along with a number of other hams who enjoy bouncing signals off the moon and meteors among other things (well, yes we eat well, too!) to participate in the ARRL June VHF contest. Here’s a link to the FourLanders Facebook page.

This year, there were stations for 6m, 2m, 70cm, and 220cm. Each station had a kilowatt amplifier as well as a Yagi antenna array on a mobile tower mounted on a trailer. Some stations also had one or more omni antennas on a mast. The goal was to make as many QSOs as possible during the contest collecting as many new Grid Squares as possible (the exchange/multipliers) achieving a high point score, and you could work a call sign only once per band (any mode).

I operated FT8 digital mode on the 2m and 6m stations. Amazingly, 6m had some very nice openings and I was able to make contacts with some DX stations like Bermuda and Canary Islands, and between myself and the other operators on 6m we managed to attain VUCC just for the FT8 mode by the end of the contest. Of course there were also some SSB and CW QSOs made on the 6m station. I tried the 6m omni antennas for a while when I was operating but settled on the Yagi array due to the better gain, and enjoyed swinging the array with the rotor to point at a station I was trying to contact or generally in the direction where the online propagation maps said the QSOs were occurring. Great fun!

Whenever the moon rose and was above the horizon, it was fun to watch the 2m, 432 and 220 stations attempt to make contacts by bouncing signals off the moon. Some cool DX contacts were made as well as some domestic ones. Also, some meteor scatter contacts were attempted. The Moonbounce or EME as it is called (Earth-Moon-Earth) takes a lot of power and a sensitive antenna array pointed in the proper direction (computer tracking) to make it all possible and can be done using CW and WSJT software for digital modes.

A highlight for me was when Ron Rogers, WW8RR, demonstrated his set-up to remote the head of his IC-7100 radio (I have the same radio) over the internet using a pair of RRC-1258Mklls units. After connecting to the wifi at the contest club station, he proceeded to turn on his radio and show how he could do pretty much anything as if he was at home. The head just plugs into the unit which communicates with its brother unit over the internet passing all the signals that travel over the cable that would normally connect the head to the base unit – pretty cool! I just added that to my wish list!

It was a really enjoyable weekend where we exchanged a lot of ham radio info, had fun operating, saw old friends and made new ones, and of course ate some really great food (the best brisket I have eaten)! The Fourlanders always welcome anyone who would like to be there and experience the fun and excitement of VHF contesting. The next contest is September 14-16, and the Fourlanders will travel to the Mile High Campground in North Carolina pulling their trailers and campers for another weekend of fun.
Coming Soon: New Apparel on the Mart! / Daryl Young, K4RGK

We will soon have new NFARL T-shirts on the NFARL Mart!

These T-shirts are Haynes Beefy-T's, 100% ring spun 6.1 oz. cotton.

They are white with NFARL green lettering on the back. It is a direct printing method so it should be cooler than a screen printed shirt, and our logo looks fantastic!

Visit the NFARL mart here: http://www.nfarl.org/mart/index.php

Front:

Back:

Extra Extra! / From the Extra Class Question Pool

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

E1D02 — What is the amateur satellite service?

A) A radio navigation service using satellites for the purpose of self training, intercommunication and technical studies carried out by amateurs

B) A spacecraft launching service for amateur-built satellites

C) A radio communications service using amateur radio stations on satellites

D) A radio communications service using stations on Earth satellites for public service broadcast

See answer on the last page!
On Sunday June 30, North Fulton ARES supported the GA 400 Century Bike Ride where more than 1,900 cyclists enjoyed rides ranging from 9 to 100 miles. This included a ride down GA 400 in Sandy Springs from Holcomb Bridge Rd to Northridge Rd. while police closed the highway to traffic for 30 minutes.

Three teams of amateur radio operators supported the event.

**Net control** was located within sight of the start/finish line and was in constant contact event director Eric Broadwell. There were four staff members at net control: Grant Register, KK4PCR, John Snellen, AI4RT, Fred Ackley, KK4JYO, and Mike Lozano, KF4UPO.

Part of the net control station was powered using a 100 watt photovoltaic panel coupled to a 60 amp-hour battery. This configuration provided constant communication with all the rest stops and motorcyclists. A small gasoline generator provided power for cooling fans.

Three **motorcycle hams** volunteered to follow the leading pack of cyclists as well as the stragglers to report their location and any assistance needed. Net control followed their location using APRS and Google Maps. Tim Romashko, K4RA (tactical call sign “Mike Alpha”), Joe Mezzatesta, W4MEZ (“Mike Bravo”), and Scott Wegener, KM4JXE (“Mike Charlie”) each logged 150+ miles during the event. Special thanks to Joe who started and ended his day with a long ride from and to his QTH in Sharpsburg, GA.

A dozen **rest stop hams** arrived at their respective sites about 45 minutes prior to the expected arrival of the first cyclists. They met with the rest stop coordinators and explained that we would provide backup communications to the race coordinator at the Start/Finish line as well as other rest stops. The team included:

Fred Ackley, KK4JYO  
Gary Brass, AK4NA  
Bob Cox, K9RXC  
Donna Cox, KD9SKY  
Steven Hull, KW4HQ  
Jim Kauffman, W4IU  
Steve Knittel, AB4TT  
Bill Largin, KN4DLE  
Richard Lutz, KD4SEV  
Colby Pete, KN4KSE  
Diane Pete, KN4KSD  
Mark Weber, KK4VQJ

Radio traffic passed between the three teams included reports of cyclist locations, accidents, health issues, mechanical issues, and movement of supplies (ice, water and food).

The event wrapped up around 5 PM as the last of the 100-mile cyclists passed the finish line back on Holcomb Bridge Rd. North Fulton ARES was happy to support this event as part of its mission to provide support for our community.
NFARL has two mailing lists that will keep you connected with all of the club activities and news. We invite you to get connected by visiting the NFARL website: www.NFARL.org

How to subscribe to the monthly eNews publication:

- On the left side of the NFARL home page, click on eNews
- When the page loads, click on eNews Mailing List
- Click on the link to subscribe to our eNews mailing list
- Fill in the form and click on subscribe

How to subscribe to the Groups.io group email list:

- On the left side of the NFARL home page, click on Groups.io
- When the page loads, enter your Email Address
- Click on Confirm Email Address
- You will receive an email to confirm your email address; be sure to respond to this email to activate your membership in NFARL Groups
- Notes:
  ◊ You can also register using Facebook or Google ID’s
  ◊ You can set your preferences to receive emails individually or a digest of all postings

If you have any problem or questions on these steps, please email me at WB4CVB@nfarl.org.

Steve Kemp, WB4CVB
**NFARL Ham Highlight!**

Get to know some of our newer and more established hams!

**Ryan Archibald, KN4FYZ**
Sandy Springs, GA

I think I had known amateur radio was a thing for a long time, but I didn’t really look into the hobby until I started studying for the Technician test. I have an older 4Runner that I like to take off-roading and a friend of mine, who also likes off-roading, told me that there were some cheap HTs on the market that worked far better than similar family style walkie talkies for truck to truck communications, but you have to have a license to use them. He said he was thinking of getting licensed so I decided I would get licensed as well.

As I studied, I became aware of the breadth of the hobby and interested in more aspects of it than just mobile communications. The idea that you could contact people around the world using just a long wire as an antenna was fascinating. Also, I am an engineer by profession, so I picked up a lot of the technical material relatively quickly. I passed the Tech and General tests at a NFARL test session in September 2017. I also got a cheap HT in preparation for an off-roading trip in the North Georgia Mountains around the same time. I went on the trip, but my friend didn’t ever get his license, so I didn’t use the radio. With no immediate use in sight and lots of other hobbies, I didn’t actually use my license until the beginning of this year.

I started attending the NFARL meetings around February 2019. The members of NFARL are great; friendly, welcoming, and knowledgeable. At my first meeting Grant Register, KK4PCR, introduced himself and told me about the NFARES group. Similarly, at another meeting Jim Stafford, W4QO, invited me to his shack. I ended up a member of the W4QO Georgia QSO party team and actually made my first HF contacts from his shack during the contest. When I got to Jim’s house, he was just finishing helping a young man with the rookie roundup. Once that was over Jim showed me how to use the CQ recording playback function on his KX2 and left to go make lunch. I worked my first 30-45 minutes solo in his shack and made 12-15 contacts.

At this point I knew I wanted to start building my own shack so I could get on HF and more reliably get on the local nets (including Tech Talk). I bought Grant’s used 2m mobile radio and built a ¼ wave ground plane antenna to run it. Building the antenna was the first time I used a soldering iron. Coincidentally, at the same NFARL meeting I picked up the radio from, the club was selling a used power supply. NFARL really is an amazing resource. I used the groups.io reflector for reviews on Anderson Powerpole connectors and crimpers and Neil Foster, N4FN, kindly schooled me on everything Anderson Powerpole and sold me his extra set of crimpers. I thought about going the used route for an HF transceiver as well, with many available through the club, but with my interest in digital, the ease of operation, and the value, I decided to just buy an IC-7300 and build a 40m dipole.
Ham Highlight (continued)

I participated in my first field day this year and hope to join in many more club activities in the future. I had a great time setting up antennas and working the 10pm – 2am shift at the SSB station during field day. I overlapped with Steven Mays, KS4KJ, on the phone station and picked up a lot of useful operating techniques just from watching and listening to him work contacts.

I’m currently working on putting a stealthy end fed half wave antenna up outside my house and improving my station grounding by installing an 8 foot grounding rod. In the future I would like to learn Morse code (to make use of the lower portions of the bands) and help with more NFARES events. I am also considering studying for the Amateur Extra test.

Outside of radio I like to spend time with my wife, Kaitlyn, and 8 month old son, Ethan. I play adult league soccer (Silverbacks Park) and ultimate frisbee (AFDC). I played on the Atlanta Hustle, the city’s professional ultimate team, until we had our son. I also like to work on cars. As mentioned above I have an older 4Runner which I take off-roading. I also have a classic English mini (1981 Austin 1000) which provides me with a constant influx of fun and repairs.

NFARES Spots for Fireworks Event / Mike Cohen, AD4MC

Sandy Springs held its seventh annual Fireworks Event on July 4 and for the seventh consecutive year, NFARES was there to help.

This is a "tough" assignment... at least it was for me the previous years. We are stationed on the top levels of the parking decks and other ground locations in the Sandy Springs Concourse area. Our task is to spot and report by radio any out-of-blast-area hot embers that could start fires when they land on the ground or other buildings.

What make this "tough" is that when everyone else is looking up at the fireworks, we are supposed to be looking down. I must admit that I couldn't help myself from looking up at the fantastic show. That's why it's good to have enough spotters at each location so that the task can be alternately shared with one (or more) looking down while another is "allowed" to look up.

This year, we again teamed up with the Sandy Springs Fire Corps (SSFC) and had a total of 30 volunteers, including 17 amateur radio operators, seven SSFC volunteers plus friends and family "helpers".

As many of us have been experiencing lately, ham radio support for public service events is a lot of fun. Well...helping with a fireworks show is a really super lot of fun.
On Saturday June 29, a small but mighty group of fox hunters gathered for a fun morning of hunting hidden radio transmitters. The two hunts were designed and led by Tim Lemmon, W4KU.

The group gathered at 8:30 AM and spent about 30 minutes providing training to beginners, and the hunts began at 9:00 AM. Both foxes were found and prizes were awarded at 1 PM.

The beginner hunt was won by Bret Deschene, K4OTO, and the advanced hunt was won by Jim Sorenson, KA4IIA.

We will have a "mini fox hunt" before the Tuesday 7/16 club meeting. We'll start the hunt about 6:30 - 6:45 but folks can come hunt when they want to, up until about 7:15. This will be a short "foot" hunt on the park property.

The DX Code of Conduct

1. I will listen, and listen, and then listen again before calling.
2. I will only call if I can copy the DX station properly.
3. I will not trust the DX cluster and will be sure of the DX station's call sign before calling.
4. I will not interfere with the DX station nor anyone calling and will never tune up on the DX frequency or in the QSX slot.
5. I will wait for the DX station to end a contact before I call.
6. I will always send my full call sign.
7. I will call and then listen for a reasonable interval. I will not call continuously.
8. I will not transmit when the DX operator calls another call sign, not mine.
9. I will not transmit when the DX operator queries a call sign not like mine.
10. I will not transmit when the DX station requests geographic areas other than mine.
11. When the DX operator calls me, I will not repeat my call sign unless I think he/she has copied it incorrectly.
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 but Internet is not required to join the net. Check NFARL Nets website for more information and “how to”.

- **Every Wednesday — Hungry Hams Lunch Bunch** - 11:15 AM
  Location: Slope’s BBQ, 34 East Crossville Road, Roswell, GA 30075
  Meet with your fellow club members every Wednesday!

- **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
  You don’t need to be old or a geezer to join this breakfast get-together, everyone is welcome!

- **Second Tuesday — NFARES Meeting** - August 13, 2019, 7:00 PM - 9:00 PM
  Location: Fellowship Bible Church, 480 W. Crossville Road, Roswell, GA 30075
  Check NFARES.org for more information.

- **Second Saturday — VE Testing** - July 13, 2019, 10:00 AM
  Location: Alpharetta Adult Activity Center at North Park
  13450 Cogburn Road, Alpharetta, GA 30004
  NFARL provides amateur (ham) radio test sessions on the second Saturday of each month. All exam modules are offered at all sessions. Walk-ins are welcome, no appointment is necessary. Please check our website for more information.

- **Third Tuesday — NFARL Club Meeting** - July 16, 2019, 7:30 PM
  Pre-meeting activities begin at 7:00 PM
  Location: Alpharetta Adult Activity Center at North Park
  13450 Cogburn Road, Alpharetta, GA 30004
  **July topic: "Reinartz and the Radio Boys" presented by David Cripe, NM0S**
  Mini Fox Hunt prior to the meeting! This hunt will be a short “foot” hunt on the park property. We'll start at 6:30 - 6:45 PM but folks can come hunt when they want to, up until about 7:15 PM.

- **Fourth Tuesday — NFARL Executive Team Meeting** - July 23, 2019, 7:00 PM
  Location: Arbor Terrace at Crabapple, 12200 Crabapple Road, Alpharetta, GA 30004
  Meetings are open to all NFARL members. Space is available on a first arrival basis. Please contact the President to ensure available space.

- **Islands QSO Party and Summer Picnic** — August 24, 8 AM—10 PM rain or shine!
  West Bank Island on Lake Lanier. RSVP for the picnic (held at Noon) by Wednesday August 21 by emailing Bob Hensey, k4vbm@nfarl.org. More event details are here.
**Contact Us**

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<th>Position</th>
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<td>Daryl Young K4RGK</td>
<td><a href="mailto:President@nfarl.org">President@nfarl.org</a></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Secretary</td>
<td>Martha Muir W4MSA</td>
<td><a href="mailto:Secretary@nfarl.org">Secretary@nfarl.org</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Fred Moore N4CLA</td>
<td><a href="mailto:Treasurer@nfarl.org">Treasurer@nfarl.org</a></td>
</tr>
<tr>
<td>Activities Chair</td>
<td>Bob Hensey K4VBM</td>
<td><a href="mailto:Activities@nfarl.org">Activities@nfarl.org</a></td>
</tr>
<tr>
<td>Membership Chair</td>
<td>Steve Kemp WB4CVB</td>
<td><a href="mailto:Membership@nfarl.org">Membership@nfarl.org</a></td>
</tr>
<tr>
<td>Past President</td>
<td>Mark Schumann KK4FOF</td>
<td><a href="mailto:PastPresident@nfarl.org">PastPresident@nfarl.org</a></td>
</tr>
<tr>
<td>Mentors / Elmers</td>
<td>Chuck Catledge AE4CW</td>
<td><a href="mailto:Elmers@nfarl.org">Elmers@nfarl.org</a></td>
</tr>
<tr>
<td>Field Day Chair</td>
<td>John Norris N4IHV</td>
<td><a href="mailto:FieldDay@nfarl.org">FieldDay@nfarl.org</a></td>
</tr>
<tr>
<td>Scout Coordinator</td>
<td>Jon Wittlin K4WIT</td>
<td><a href="mailto:k4wit@nfarl.org">k4wit@nfarl.org</a></td>
</tr>
<tr>
<td>ARES Liaison and Community Relations</td>
<td>Jim Paine N4SEC</td>
<td><a href="mailto:n4sec@nfarl.org">n4sec@nfarl.org</a></td>
</tr>
<tr>
<td>Repeater Operations</td>
<td>Mike Roden W5JR</td>
<td><a href="mailto:Repeaters@nfarl.org">Repeaters@nfarl.org</a></td>
</tr>
<tr>
<td>WebMaster</td>
<td>Bill Cobb K4YJJ</td>
<td><a href="mailto:Webmaster@nfarl.org">Webmaster@nfarl.org</a></td>
</tr>
<tr>
<td>NFARL eNews Team</td>
<td>Diane Pete - KN4KSD, Daryl Young - K4RGK</td>
<td><a href="mailto:enews@nfarl.org">enews@nfarl.org</a></td>
</tr>
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**North Fulton Amateur Radio League**

P.O. Box 1741  
Roswell, GA 30077

nfarl.org

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

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<td>146.2 Hz</td>
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* Currently off the air

Club Callsigns: NF4GA and K4JJ

Extra Extra answer: C (question E1D02)

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