



North Fulton Amateur Radio League NFARL eNEWS

September 2017

*Celebrating 40 Years
Service | Friendship | Education | Fun*

www.nfarl.org



President's Message / Mark Schumann, KK4FOF

The 2017 Hurricane season has been active with two hurricanes impacting the United States and three storms churning in the Atlantic Ocean. Hurricane Irma affected our friends in Florida and South Georgia and of course local hams answered the call to provide emergency communications.

Closer to home North Fulton Amateur Radio Emergency Services (NFARES) at the direction of NFARL's own Mike Cohen AD4MC activated to provide emergency communication with Sandy Springs Emergency Services. With tropical depression Maria expected to become a hurricane this weekend and likely to strike the United States next week, it is time to prepare your radio equipment, monitor the National Hurricane Center for the latest projections and the NFARL reflector for communications from NFARES.

The NFARL US Islands team led by Terry Joyner, W4YBV, competed in the W/VE Island Party on August 26th at Lake Lanier Islands. It was a hot day and Terry and team were working contacts under poor conditions in the parking lot above the Water Park. When I visited, Daryl Young, K4RGK and Lori Young, K4UPI were operating on 40M from their van while Terry and team were operating 20M from Terry's truck all using mobile "Hamstick" style antennas. When I spoke to Terry Saturday afternoon, I understand that their QSO rate was on par or slightly ahead of 2016. I look forward to an update from Terry in the coming days and a final score in the next month.

NFARL has a history of supporting youth activities in Ham Radio, Science, Technology, Engineering and Math (STEM). Whether it's our involvement sponsoring youth events at HamFests, work with Boy and Girl Scouts, HamCrams, the youth station at Mill Springs Academy or HamJam, NFARL continues to be involved in mentoring the next generation of Ham Radio operators.

Neil Foster, N4FN recently provided the NFARL Board of Directors with an update on his work with the Fulton County "FAST" school on Crabapple Road. From the Fulton Academy of Science and Technology website, *"FAST is a Fulton County Public Charter School offering grades K-7. Our objective is to provide an education based on design thinking and problem-solving with an emphasis on science, technology, engineering and mathematics (STEM) to children in our diverse community."* Neil has worked with the school's leadership to conduct weekly after school

(Continued on page 2)

(Continued from page 1)

sessions with the students providing hands on experimentation. Neil will share and provide a brief update at a future club meeting.

HamJam will take place this year on November 11th at Mill Springs Academy. The HamJam team has been hard at work scheduling and confirming three world class speakers, securing raffle prizes and managing logistics. HamJam has grown to be one of Ham Radio's premier events. This year Tom Gallagher, NY2RF, the ARRL CEO will kick off HamJam 2017 with a short address to the conference attendees via Skype. All HamJam raffle proceeds are used for youth education, scholarships, materials, and activities ONLY! Raffle tickets are \$5 donation per ticket or 5 tickets for \$20. Tickets may be purchased at NFARL club meetings, on the NFARL Mart, from any NFARL executive team member or at the HamJam event.

New for 2017, you are not required to be present to win any raffle prize. For more information visit HAMJAM.INFO

The next NFARL club meeting is Tuesday, September 19th and our presentation will be a double header! Our first speaker is Mike Cohen, AD4MC who will be presenting "Setting Up & Using the New & Improved FT8 Digital Mode". Our second speaker is Jim Stafford, W4QO presenting "Antennas, Ideas & Tips".

I look forward to seeing everyone at the September meeting!

Thanks,

Mark



The banner features a dark blue background with white and yellow text. On the left is the logo for the North Fulton Amateur Radio League, which includes a radio tower and the text "NORTH FULTON AMATEUR RADIO LEAGUE" and "1959". In the center, the text reads "HAMJAM 2017" in large white letters, followed by "It's All About Youth!" in a smaller white font. Below this, the date and time "Saturday, November 11, 2017 8:00 - 1:00pm" and the location "Mill Springs Academy, 13660 New Providence Road, Alpharetta" are listed in white. On the right side of the banner is the ARRL logo, a yellow diamond shape containing the letters "A", "R", "R", "L" and a stylized antenna symbol.

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!
- **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 "how to".
- **Every Wednesday — Hungry Hams Lunch Bunch** - 11:15 AM
Slope's BBQ, 34 East Crossville Road, Roswell.
- **Every Thursday — YL Net** – 8:00 PM - 145.47 MHz (-) PL 100
Check NFARL Nets [website](#) for "how to."
OM's (guys) are welcome to listen in to this YL net.
Great opportunity to get your YL's on the radio!
- **Every Saturday — Royal Order of the Olde Geezers (ROOG) Lodge No. 1**
9:00 AM - Reveille Café, 2960 Shallowford Road, Marietta (at Sandy Plains and Shallowford). Everyone is welcome: You don't have to be "old" or a "geezer" to join this breakfast get-together.
- **Second Tuesday — NFARES Meeting** - 7:00 PM - 9:00 PM
Fellowship Bible Church, 480 W. Crossville Road, Roswell.
Check [NFARES.net](#) for more information.
- **Third Tuesday — NFARL Club Meeting** - **September 19, 2017**, 7:30 PM.
Pre-meeting activities begin at 7:00PM.
Location: [Alpharetta Adult Activity Center at North Park](#)
13450 Cogburn Road, Alpharetta, GA 30004
Programs:

Mike Cohen, AD4MC presents
"Setting Up & Using the New & Improved FT8 Digital Mode"

Jim Stafford, W4QO presents
"Antennas, Ideas & Tips"
- **Fourth Tuesday – NFARL Executive Team Meeting**
September 26, 2017, 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.

HamJam 2017 - Speaker Spotlight / Wes Lamboley, W3WL

We have three highly interesting speakers for our event this year. Last month I highlighted Ward Silver, NOAX; the previous month Bob Schmieder, KK6EK was highlighted. This month features not one, but three speakers, all from the ARRL.

Our event will be kicked off by Tom Gallagher, NY2RF.

Tom is the new CEO for the League and will be speaking to us from League Headquarters via SKYPE. He has taken a keen interest in our event and would be here personally but for the ARRL Finance meeting. Tom is going to duck out of the meeting and chat with us for a bit. Tom's bio is most interesting and you can learn more details about our new CEO by following this link <http://www.arrl.org/news/tom-gallagher-ny2rf-will-succeed-david-sumner-k1zz-as-arrl-ceo> -most impressive!



Dan Henderson, N1ND

The second speaker from the League is Dan Henderson, N1ND.

Dan is the Assistant Secretary for the ARRL, and is also the ARRL Regulatory Information Manager. He acts as Staff Liaison for the ARRL Legislative Action Program and has degrees in History, Education and Political Science. He is an avid supporter of Notre Dame Football, hence the N1ND call sign. Best not to mention anything about UGA in his presence this year.

The third person from the League is Daniel Davis.

Daniel has yet to get his license, but will have it by HamJam time. Daniel recently joined the League as a member of the ARRL Foundation, the body within the League that manages the Second Century endowment, and has already made a positive impact on legislative matters affecting the League. Both Dan and Tom want

Daniel to take part in our event and witness what the League feels is a very worthwhile undertaking in supporting Youth Education, Scholarship and Activities.

The theme of the ARRL presentation is "Movers and Makers- Reaching the Next Generation of Amateurs". The League has spent much time and effort in analyzing the current state of amateur radio and the reasons why we are an aging population with few newcomers, no matter their age. The League has come up with a plan to increase our numbers in a meaningful way; be sure to mark your calendar for November 11 and attend this important talk that affects us all!

And – for the most recent information about HamJam and prizes continue to check hamjam.info.

Of Hurricanes & Mtn. Top VHF Contesting / John Kludt, K4SQC

Living in a covenant restricted neighborhood and enjoying VHF and UHF contesting usually do not mix very well. Enter the FourLanders VHF Contest Group. I started "going to the mountain" with them several years ago and through a series of events ended up as the 6 meter band captain. I have written about this group before but to quickly review, during contests we always run 500 – 1000 watts into stacked beams all bands from 50 MHz to 432 MHz. We can also run all the microwave bands between 902 MHz and 10 GHz. Needless to say we are a pretty serious contesting group, callsign W4NH, Whiskey Four Never Hungry. We eat pretty well too during contests!

This year's contest fell on the weekend of September 8-9. Our contest site is the Mile High Camp Ground at 5,280 feet ASL off the Blue Ridge Parkway just outside of Maggie Valley, NC. Getting there involves a convoy of seven trailers hauling everything from trailers for operating positions to antenna towers to generators. The generator is the same 15KW diesel generator owned by Brian McCarthy, NX9O, that NFARL uses for Field Day. The week before September 8-9 was a little distracting with Hurricane Irma. Emails were back and forth should we go or should we just stay in Dhlonega at the QTH of Bob Lear, W4ZST. We always do the January contest from Bob's QTH so we know it is okay. But the mountain is better as it gets us higher and that much closer to the treasure trove of grids that is the northeast and the Ohio valley. To go or not to go? Predictions of Irma were slipping out into the next week. Maybe we can get in and out before it ever hits. What is all of this stuff about gas lines and shortages? Johnny, K4SQC, hauls Great White, the biggest operating trailer behind an 8.1 liter gas powered ¾ ton truck. Now he can and has passed people going up the grade outside of Franklin, NC, but it is unclear as to which is moving quicker, the speedometer or the gas gauge. Refueling twice during the round trip is a must.

To go or not to go? As noted we are a serious group and contest bravado finally overcame good judgment - we are going! We arrived Friday afternoon as is our routine and in short order the all antennas were up on their towers and the stations were semi- operational. When we checked in the camp ground manager informed us the National Park Service was "thinking" that maybe they would have to close the Blue Ridge Parkway. Phooey! But, hey, they were just "thinking" about it. The contest started at 1400 Local on Saturday and we were off to the races. There was some conjecture as to what a high pressure system next to the profound low that is a hurricane would do to propagation. The empirical answer was there wasn't any! For those of you not used to VHF/UHF weak signal work we watch the weather maybe even more closely than we watch the solar indices but that is a different story.

All of the bands were dead. Enter FT8 and MSK441 that gave us over 30 grids squares on what seemed to be a dead 6 meter band. Our 432 system has AZ/EL capabilities and JT65B gave us five more grids via moon bounce. So we soldiered on through Saturday night and the wee hours of Sunday. And then at 0800 hrs on Sunday we got the news – the National Park Service is closing the Blue Ridge Parkway and we need to be out of the camp ground as soon as possible. Now you don't take down four antennas and towers and pack four KW stations in a few minutes. We decided to take down stations in reverse order of their potential contribution to the score leaving 6 meters to last. With a lot of work we were secured and packed and ready to bug out by 1500 hrs. We were the last folks out of the camp ground. Total operating time out of a 30 hours contest: 18 to 22 hours or so depending on the station. By all reports we missed a great 2 meter opening to the NE and NW Sunday afternoon. Rats!

(Continued from page 5)

The trip home was uneventful. Gas was not an issue probably because we were off the heavily traveled evacuation routes. In retrospect it was a good thing that we left when we did, even though some thought the Park Service was crazy, because we were driving home into the storm. The campground got pretty well smacked and things got pretty tense in Dahlonega as the early week unfolded. Normally we would have been coming home on Monday and that would not have been pretty.

Our score will be not very impressive this go round. One saving grace is this is the first and probably the only time 70 cm can claim more grid squares than 2 meters! We got really good at setting up and taking down our antennas and stations. And we learned that the National Park Service at least on occasion does know what it is doing.

Another FourLanders adventure in the books. Planning is underway for the January VHF contest. And we will stay in Dahlonega. Then there is June 2018.....

North Fulton ARES Update / Grant Register, KK4PCR

We are preparing for our Simulated Emergency Test (SET), which will take place on October 21st from 8:00 AM until 12:00 EDT. We are asking for volunteers to help at the various fire stations, hospitals, emergency operation center and "virtual" shelters within the North Fulton Area.

The general procedure for the event is to check in via voice on RF as requested by the net control station, followed by a series of RF traffic signs using both voice and digital transmissions. This provides an opportunity for the amateur radio volunteers to test their skills with their specific hardware and software.



We will be using FLDIGI (MT63-2000L) for the digital transmissions. We find it most productive to bring your personal laptop to the locations and operate using "acoustic coupling" with the radio provided at the specific location. You will operate and respond following requests from the net control station, however being a test, you may embellish the event by injecting your own personal simulated conditions at your location. Common traffic usually involves request about availability of equipment and personnel, but could be anything. The recent events of storms Harvey and Irma might give you some ideas or considerations.

Please go to the "ARRL" website, in the upper right corner search box type in "SET" to get more details about the SET.

NFARES can obtain SET bonus points by participating in the ARRL Centennial QSO Party. Read more about this at the above website.

We will talk about the SET at upcoming North Fulton ARES meetings, and we will be sending out emails soon regarding the SET.

Grant Register - KK4PCR (Emergency Coordinator - Acting)

Did Someone Say "QSO Party"?!?!? / Nathan Wood, K4NHW



On the cover of the August 2017 QST was the announcement of the Solar Eclipse QSO party (SEQP)! For someone who enjoys portable activations and contesting style operations, this definitely caught my eye. What better excuse to take radio equipment outside and operate in such an event than this.

For those who aren't familiar with the SEQP, it was an 8-hour operating event on August 21, 2017 sponsored by the ARRL and HamSCI (Ham Radio Science Citizen Investigation) to provide a large amount of data to study the effects of the solar eclipse on the ionosphere. For more information, visit <http://hamsci.org/seqp>

This year's eclipse, the first coast to coast total eclipse since 1918, had been talked about for a LONG time! I even added it to my calendar for a while as to not miss it! Little did I expect that it would become a sensationalized event that would impact a random Monday in August! But among all of the warnings of overbooked campgrounds, horrific traffic patterns and the scandal of fake eclipse glasses, the idea of the QSO party was overwhelmingly tempting! With that, I reached out to a fellow ham, Tim, WK4U, to see if he would be interested in joining me on this project. He eagerly agreed.

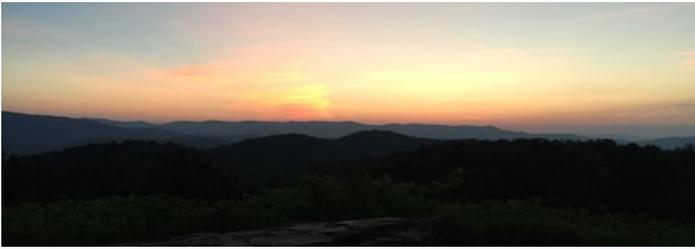
We researched the details of the event and started formulating our plans around the rules and bonus points! For the site, we chose a spot in the northwest corner of Gilmer County between Ellijay and Chatsworth. Although not in the path of totality, we were forecasted to see a 99.7% blockage of the sun! It was a public overlook located on top of Fort Mountain. The spot is owned and maintained by the US Forest Service. It sits at 2250' ASL with a panoramic view of the Chattahoochee National Forest. At the top of a 110 yard uphill hike with a change of 60 feet in elevation, there is a rustic stone platform that was built by the forest service in the 1960's. We carried all of our gear to the top and setup 2 HF stations; one CW and the other digital/SSB. Our other gear included a screened canopy, a table, chairs, a generator, wire antennas and food and drinks.

In anticipation of traffic and concerns of other people beating us to our spot, we made our way to Ellijay the night before to put us much closer to the venue. Bright and early Monday morning, we headed up to the overlook before dawn. On the way, we stopped for breakfast at a local spot (Mr. P's) to find that they were also taking advantage of the eclipse with a shameless marketing plug on their menu. You really can't beat a homemade biscuit from a local establishment, especially in small towns like Ellijay! (If you haven't had a burger at Mr. P's in Ellijay, it's worth checking out!)



(Continued on page 8)

(Continued from page 7)



We arrived at our spot right at daybreak to find that we were indeed the first ones there! Our work was cut out for us since we had less than 3 hours to get all of our gear to the top of the hill and setup before 1000 hrs local. It took about 5-6 trips of both operators to drag equipment up in boxes and bags up the relentless 110 yard incline.

After a few trips, we did take a moment to enjoy the sunrise at the top. What a view and a great excuse for a break! When 10 am came around, we were completely set up and at our positions to start on time! CQ SEQP N4N EM74qs

Tim, being the CW genius that he is, was tapping out his Morse code and I was on digital. The exchange for this event was simple; callsign, RS(T) and grid square! There wasn't a better digital mode for this event than the new FT8 by WSJT-X! All of the required exchange is already included in their automatically generated messages; Even the signal report is in dB! AND one QSO takes just over a minute to complete. Unfortunately Tim was having an unexpected issue on CW; not many people knew their grid square or understood the request for their grid. Many ops were sending their ARRL section instead of their 4 or 6 character grid. And of course, any incomplete exchange couldn't be logged.



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As expected, we did have some visitors throughout the day. We had a yoga participant for sunrise and sunset, a feral K-9 that hung around for most of the day and 20-30 eclipse viewers of all ages that came and went with the eclipse. One pleasant surprise was a guy who brought up a professional self-tracking telescope

with the appropriate solar filters! He set up just outside of our operating tent! We traded some viewing time for use of an 110v outlet! Even before the eclipse started, the crystal clear view of the sunspots was amazing! Very similar to what you would see on solarham.net, but LIVE! Then as the eclipse started, the telescope view was far better than any filtered glasses could provide! In addition, it was good to see families outside interested in nature and coming out to see, what was for most, a once in a lifetime event. We met several people there that were obviously curious of our setup. It was a great opportunity to share amateur radio with the general public!



The official QSO party didn't end until 1800 hrs local time. We finished off the event mixing in some SSB. Even scoring half the points per QSO than digital or CW, it was always fun making those voice contacts!

(Continued on page 9)

(Continued from page 8)



After all logs were backed up and secured, we didn't waste any time packing up and moving out. It took us about the same time to pack up as it did to setup. We closed the tailgate of the truck right at sunset and another event was in the books!

Overall, it was a good experience. All of our equipment worked extremely well with no significant issues. Even the two OCF dipoles that were hung up parallel to one another only separated by 50 feet didn't present any interference to one another! We were even able to operate 40 and 15 meters simultaneously!

In the end, N4N put 239 Q's in the logbook. We made several other contacts but couldn't log them since we didn't have a valid 4 or 6 character grid square.

From our vantage point, we're not sure that we noticed any dramatic differences in propagation during the eclipse. Any observations that we did make just were not consistent enough to make a conclusion. It will be interesting to find out what results HamSCI comes up with after all of the data is collected and tabulated.



As far as the eclipse itself, at 99.7% blockage, it got noticeably darker but not as dark as either one of us expected. It did, however, get dark enough to turn on the clearance lights on the top of nearby towers. A few of those were easily viewed from our vantage point. Even hours after the eclipse was over, we still encountered some traffic southbound on Hwy 515 between Ellijay and Jasper. It was all sheer volume and wide open once we hit I-575.



I thought the elaborate CW paddle was a little excessive for a portable station... but that's none of my business!

– K4NHW

NFARL - ARRL VE Testing / Ian Kahn, KM4IK

Did you know NFARL has a VE team? If you are newer to amateur radio and NFARL, you may have tested with us. However, not everyone in the club may be aware we're here and working hard to help people earn their Technician, or upgrade to their General or Amateur Extra licenses. There are nearly 30 club members on our team, volunteering their time and effort throughout the year to our worthwhile cause. We are an ARRL VE team and give exams the second Saturday of every month, at Alpharetta North Park. And, our exam sessions are VERY popular! To date in 2017 alone, we tested 95 candidates and awarded 77 new elements, broken out as follows:

- Technician - 41 new elements awarded
- General - 26 new elements awarded
- Amateur Extra - 10 new elements awarded

Are you interested in giving back to the hobby, but don't know how? At a point in your life where you may not have a lot of free time, due to family and work obligations? Becoming a NFARL VE may be just the opportunity for you! We are always looking for new volunteers to join our happy little family. It is very easy to become certified as an ARRL VE. Visit the VE section of the ARRL web site, at <http://www.arrl.org/become-an-arrl-ve>. From here, download the VE manual and the "quiz". Read through the manual, filling in the "quiz" as you go. Send the paperwork back to the ARRL, and a few weeks later you, too, will be a VE! If you have questions, or would like more information, reach out to Ian Kahn, KM4IK, at km4ik.ian@gmail.com.

Offering

Slightly used Diamond X510 Dual Band "sectional" antenna.



The owner has proudly stated:

"It's only been through one
Hurricane"

Interested parties please contact eNews@nfarl.org

All Long-Wires Are Not Created Equal / John Kludt, K4SQC

For the past several years I have enjoyed an inverted L as my primary HF antenna. It was almost invisible and with an SGC tuner at the base worked on a number of bands. While surveying the damage post Hurricane Irma on Wednesday I discovered that Irma had taken an affinity to my antenna and, alas, the inverted L was no more. Interestingly the wire had failed about 3 inches from the far insulator.

QCWA Chapter 49 has a net on 3.860 LSB every Saturday morning at 0900 hrs local that I like to attend. By the way, you do not need to be a QCWA member to attend (info at www.qcwa.org), so if you can get on 75 meters please consider joining us. But I digress. I do have a 75 meter "Z" in my attic and it does work but the outside antenna worked better. Why a "Z"? It turns out that most of the radiated energy from a dipole comes from the middle third of the antenna. That leaves some room to be creative with the ends of the antenna. My 75 meter dipole runs kitty-corner across the length of the attic. The next portions of the antenna then run in opposite directions across the width of the attic. What is left then doubles back along the sides of the attic – a "Z".

Part of the magic of my inverted L was the ground plane I installed. I bought a huge roll of wire at Lowes and a bunch of garden staples. Doing the work in the fall several years ago, I cut the then dormant grass as low as the mower would go. Thirty-two radials as long as I could make them in a 360 degree circle then followed. The shortest radial is 8 feet long and the longest is 150 feet long. I just ran each radial until I met an unmovable obstacle and cut it off there. Theory is great and sometimes you just need to do what you need to do. By the end of the first year all the grass had overgrown all of the radials. Needless to say the back yard has not been core aerated for a few years now!

So I had a radial system in place and a tuner installed and still working where the Inverted L used to come down at the base of an 85 foot tall pine tree. I decided to replace the "L" with a simple wire vertical, actually a random or long-wire run vertically. So, how long should it be? It turns out that in this case the dictum "As much wire as possible as high as possible" isn't quite right. If a random length long wire turns out by chance to be resonate on a ham band it will present an extremely high impedance to the tuner, so high that the tuner cannot usually achieve a matching solution. If you Goggle "long wire antenna lengths to avoid" you will find a number of websites to check. Some enterprising hams have done the hard work of plugging in the center frequency of all of the ham bands and then letting a computer churn out a list of lengths to avoid and lengths that work well – lengths that are not resonant on any ham band. Each site gives a little different answer but they are all within a foot of each other.

Good lengths include 59 feet, 70 feet, 85 feet, 90 feet and 135 feet. For those of you with really tall trees or very large lots one site gives good lengths out to 500 feet! For my setting 70 feet seemed just about right. A couple of shots with a tennis ball launcher and the rope was in place. I had 100 feet of Wireman stealth antenna wire left over from a different project. It was cut to 71 feet to allow for the attachment of some insulators and in short order K4SQC was back on the air with a very stealthy outdoor antenna. The tuner is very happy, happier than it was with the inverted L, and on the air reports are excellent. So a happy ending to an otherwise sad tale of antenna loss in a really big "blow".

W/VE Island QSO Party

I would like to personally thank John Norris N4IHV, Daryl Young K4RGK, Lori Young K4UPI and Jim Paine N4SEC for coming out and making this year's US Island QSO party a success.

Our scores will be higher this year, A large number of islands were on the air for the QSO party this time. Hawaii was having it's state QSO party and we made two island to island contacts. Not bad for a FT 957 and a Hamstick from lake Lanier!

We also made a number of DX contacts including Malta, Slovenia, Bulgaria, Italy, Germany, Canada and Belize. Last year's score was 6314 points and this year it looks like we will be around 8385 points. We should know around the first of October how we did.



This was our 24th NFARL club Island activation so far this year. We have 16 islands to go to meet our goal of 40 this year. (40 Islands for our 40th Anniversary!)

Any club members that may be going on any trips, please check to see if a US Island program island is near your route or destination. You will help our club by activating an island, and you are sure to have fun in the process!

There is still time to be a part of our anniversary contest this year!

Terry, W4YBV





HAMJAM 2017

It's All About Youth!

Saturday - November 11, 2017- 8:00am - 1:00pm VE Session: 8 AM
Mill Springs Academy (WA4MSA) - 13660 New Providence Road - Alpharetta, Georgia 30004

Presented by the North Fulton Amateur Radio League

Endorsed by

SouthEastern DX Club Alford Memorial Radio Club Cherokee Amateur Radio Society Atlanta Radio Club
North Georgia QRP Club Chattanooga Amateur Radio Club Silver Comet Radio Club
Gwinnett Amateur Radio Society Sawnee Amateur Radio Society Kennehoochee ARC

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Vibroplex - The Daily DX - The DX Magazine - Array Solutions - MFJ - Diamond Antenna - LNR Precision -
CQ Magazine - DX Engineering - Ham Radio Outlet - ACK Radio

NFARL and our sponsors are pleased to present an event to raise funds that will be used to encourage youth to get involved in Amateur Radio and its related STEM education activities.

The event is open to all and it is **FREE** to attend, thanks to our sponsors and your generosity in **purchasing raffle tickets**. Raffle prizes now total over \$5000, including HF transceivers!

Bringing World Class Speakers to Atlanta since 2009!

And we are now pleased to announce that **Tom Gallagher, NY2RF, ARRL CEO**, will be kicking off **HamJam 2017** with a short address to conference attendees via Skype.

Presentations begin at 9AM and this year's speakers include:

Ward Silver N0AX, Kansas City, author of numerous amateur radio books and articles, including the ARRL Handbook and Ham Radio for Dummies. He was the Dayton Hamvention Amateur of the Year in 2008. Ward will be speaking on "**Radiosport – Your Ham Radio Fitness Center.**"

Bob Schmieder, KK6EK, Walnut Creek, CA, participated in (and led many) 16 Dxpeditions over the years. He led the 2017 Expedition of the Year to VK0EK, Heard Island. Bob will share his thoughts on "**The Future of DX.**" Professionally, he is a research physicist, with about 100 publications and 4 patents.

Dan Henderson, N1ND, and **Daniel Davis**, a member of the Board of Directors of the ARRL Foundation round out our speakers. Dan Henderson is the Manager of regulatory Information and Staff Liaison to the ARRL Legislative Action Program. Dan and Daniel will be speaking on "**Movers and Makers – Reaching the Next Generation of Amateurs.**" From Hartford, CT

Raffle tickets are available for a \$5 donation per ticket or (5 tickets for \$20) and will be available at the Stone Mountain HamFest, at many endorsing clubs' meetings, and even at HamJam itself.

You may also purchase tickets at the NFARL online Mart. Go to nfarl.org to purchase.

You need not be present to win raffle prizes.

HamJam Benefits Youth Programs! 100% of net proceeds from HamJam apply to NFARL youth, education, scholarships, materials, and STEM activities ONLY!

Support HamJam and Youth Programs today by purchasing your raffle tickets.

Check details and current list of raffle prizes at www.hamjam.info

Contact Us

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Club Repeaters

Frequency—Description	P.L. Tone	Location
145.470 (-) EchoLink Node 56086 NF4GA-R	100 Hz	Sweat Mountain
147.060 (+) Primary ARES Repeater	100 Hz	Roswell Water Tower
224.620 (-) Joint Venture with MATPARC	100 Hz	Sweat Mountain
443.150 (+)	No Tone	Roswell Water Tower
444.475 (+)	100 Hz	Sweat Mountain
927.0125 (-)	146.2 Hz	Sweat Mountain

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