



The Greensboro Amateur Radio Association

Feed Line



Providing Amateur Radio news for the Triad

Betty Williams, KC2BFN Editor

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This Month's Program

In case you haven't heard (HA!), Field Day is just days away. For most hams, this is one of the biggest operating events of the year and is akin to an annual family homecoming celebration. Because we're trying to encourage participation, this year our June meeting will be incorporated into Field Day activities at Hagan Stone Park in Pleasant Garden. We realize that many of you may have other Field Day activities planned, but if not, make your way to the park to enjoy some fresh air, a campfire, and maybe make a few contacts along the way. The club President, Cameron AJ4TW will call the meeting to order sometime Saturday evening, but considering the informality of it, just plan on coming out to lend support and play radio anytime Saturday, June 24 or on Sunday, June 25 before mid-afternoon. We hope to see you there!

Thanks!
Scott

CHINA LAUNCHES SATELLITES CARRYING AMATEUR RADIO TRANSPONDERS – China's CAMSAT has announced that two Amateur Radio payloads piggybacked on the optical remote-sensing microsattellites OVS-1A and OVS-1B were launched on June 15 from the Jiuquan Satellite Launch Center.

(sources: Alan Kung BA1DU/CAMSAT, ARRL website)

NEXT MEETING June 24, 2017

The next meeting of the Greensboro Amateur Radio Association will be held at the Field Day site at Hagan Stone Park on Saturday, June 24, 2017, at the Field Day site.

Centenarian ARRL Member Claiming Oldest Active Radio Amateur Crown

A 105-year-old ARRL member, Cliff Kayhart, W4KKP, of White Rock, South Carolina, is claiming the title of "World's Oldest Operating Ham." No official record of such milestones exists, but ARRL is not aware of any radio amateurs senior to Kayhart, and he is now quite likely the oldest active ham, at least in the US. Early this year, Charlie Hellman, W2RP, died at 106; he also may have been the longest licensed. Hellman outlived the former "oldest US ham," Harry Wolf, W6NKT, by 8 days. Wolf was a couple of weeks shy of turning 108. Kayhart now lives at The Heritage at Lowman Home.



105-year-old Cliff Kayhart, W4KKP, on the air from the W4DFG club station of the Dutch Fork Amateur Radio Group.

"I have had to get help getting set up after moving here from Tennessee," he said in his [QRZ.com profile](#). "Two local clubs, Dutch Fork Amateur Radio Group and Columbia Amateur Radio Club, have been there to help. It has been slow going. They tell me I may be the oldest operating ham." Kayhart is active on 80 meters, as well as other bands. Born in 1911, Kayhart was first licensed in 1937 as W2LFE in New Jersey. He then was W9GNQ before becoming W4KKP. Kayhart's interest in Amateur Radio began in the early 1920s, when he built a crystal radio. After modifying the inductor, he began hearing hams on AM. Read more at www.arrl.org.

The Greensboro Amateur Radio Association

President Cameron Conover, AJ4TW
 Vice-President Scott Toth, KV4UP
 Treasurer Jaimie Restrepo, N4JAI
 Secretary Greg Spencer, KG4UQV
 Financial Chandlee White, KJ4ADX
 Engineering Chair Jesse Lindley, K4AX
 Operations Chair John Strandberg W4DX
 Members-at-Large:
 Chris Thompson, K4HC
 Gregory Ray, K4MHY
Appointed Positions:
 Public Information Officer
 Newsletter Editor
 Betty Williams KC2BFN

ARE YOU BENEFITING FROM THE ARRL WEBSITE?

A few topics to consider:

- Logbook of the World
- International Operating
- Tutorials
- Special Event Stations
- Contests
- QSL Services

Explore the website www.arrl.org and learn something new or refresh something old.

The Feed Line is ©2017 by the Greensboro Amateur Radio Association and published monthly. Our address is P.O. Box 7054, Greensboro, NC 27417. The purpose of the newsletter is to provide the club and prospective members' information about the club and amateur radio in general. Material and information should reach the editor by the first Friday of the month for the next edition of the newsletter. Opinions expressed in "The Feed Line" do not necessarily represent the views of the officers, directors, editor or members of the Greensboro Amateur Radio Association. Material may be reproduced, provided proper credit is given to GARA

GARA Meeting Minutes

Board Meeting Minutes – June 2017

There was no Board Meeting in June.

Regular Meeting Minutes – May 2017

The Greensboro Amateur radio association held their regular monthly meeting on May 22nd, 2017 at Coopers Alehouse located at 415 S. Swing road in Greensboro.

Cameron Conover AJ4TW called the meeting to order at 7:15PM.

Cameron asked that everyone identify themselves.

Cameron gave an update on the 145.150 antenna repair. Cameron said that a climbing crew hired by the city to do maintenance on their equipment straightened up our antenna and retightened the brackets at no charge to GARA.

Scott Toth KV4UP spoke about the D-Star Gateway computer upgrade.

Chan White KJ4ADX said he needs some volunteers to help sell the donated equipment that GARA has. Dave McLin AC4A spoke about the field day planning meeting coming up at 7:00PM on Thursday May 25th 2017 at the Katherine Clay Edwards's library. We discussed some field day plans and what needs to be done. We discussed some locations and settled on Hagen Stone Park.

Tom Bertolino KB1P made a motion to use Hagen Stone Park at the rate of \$360.00 for 3 days/ nights, Greg Ray KK4MHY seconded and the motion passed 14-0. Tom gave the presentation on the history of field day Patrick Moore K2CPR made a motion to adjourn, Dave McLin AC4A seconded all in favor. The meeting ended at 8:16PM

Respectfully submitted by
Greg Spencer KG4UQV
GARA secretary.

ARRL FIELD DAY SITE LOCATOR IS LIVE FOR 2017, PUBLIC SERVICE ANNOUNCEMENTS AVAILABLE (6/24-25) – ARRL Field Day is June 24-25. The Field Day site locator is now up and running, and, to date, around 400 sites already are in the database. To find a Field Day site near you, type in your town and state in the “Location or Call Sign” box at the upper left. Listings also are available by state or Canadian province. To add a site, visit the Add Field Day Station page. The 2017 Field Day public service announcements (PSAs) for event publicity are now available in audio or video formats. For further information, see <http://www.arrl.org/news/arrl-field-day-site-locator-is-live-for-2017-public-service-announcements-available>

(source: ARRL website)

From the President's Shack

President's Shack June 2017

Come to Field Day!

We've worked hard on field day and we sure hope to see you there. There is plenty of room to camp and TONS of shade! This field day the antennas will be the only thing getting sunburned, I hope. I'm looking forward to it, I'm planning on spending the night in a tent to just get away from the real world for a while and play with radios until I can't stand it anymore! It's going to be great!

I want to thank all those who have generously donated used equipment to GARA; it is helping us take care of our repeater equipment. We strive to be good stewards of what we are given and I think that the recent actions of a few of our members deserve a huge number of thanks. Chandlee White, our finance Chair has done a great job organizing the finance committee. I am extremely grateful to Chan, Ed Miller, and Bill Flaherty for all they did to make our recent fund raising a success. You guys went above and beyond for the club and I appreciate that. We do still have more items to sell and we still have more bills rolling in, so if you would like to join the finance committee and help grease the wheels of progress for GARA, get in touch with Chan and let's make some great things happen!

Thanks also to Scott Toth and Jesse Lindley for their early morning run to the repeater site! We had a power outage and the systems did not come back up, thankfully those two dedicated men were there at first light to get things going for us again.

I also must send a huge thank you to David McLin and his field day committee, for putting together what looks like will be a great time this weekend. I can't wait for Saturday morning; it can't come soon enough!

This club is made great by its members, without members who are willing to pitch in and make things happen, we wouldn't be much of a club, so I am extremely grateful to all of our active members who are making it happen. There are so many more than I've listed here, if you see someone doing something to improve our community, please thank them, they deserve it!

73

Cameron, AJ4TW

SPACECRAFT PROBE TO LISTEN FOR ARRL FIELD DAY SIGNALS (6/24-25)

The Enhanced Polar Outflow Probe (e-POP) onboard the Canadian CAScade Smallsat and Ionospheric Polar Explorer (CASSIOPE) satellite will again support Amateur Radio citizen science by listening for signals during ARRL Field Day, June 24-25. For further information, see

<http://www.arrl.org/news/spacecraft-probe-to-listen-for-arrl-field-day-signals>

(source: ARRL website)

FINANCE COMMITTEE REPORT

We have an interim report on our project to sell used equipment that was donated to GARA, to assist the annual budget, beyond the funding we get from dues.

With the help of volunteer Bill Flaherty – W1GY, and the assistance of Pres. Cameron Conover -- AJ4TW and Vice Pres. Scott Toth -- KV4UP, we compiled a spreadsheet listing the items with a suggested (hoped for) price. The potential value we accumulated was more than \$4,000. This spread sheet was then circulated to all GARA members by Email asking for “bids.”

Bill borrowed a van and took some of the choice items to the Winston-Salem Hamfest on Saturday, June 3rd. He did an excellent sales job and between what he collected and the direct sales to GARA members, we added \$791 to our finances. We still have quite a few “interesting & historical” items available.

I am in the process of preparing a revised spread sheet. This will also be re-circulated to the membership before we head to another hamfest.

We are still looking for additional volunteers who would be interested in helping us with this fund-raising project. Please contact Finance Chairman, Chandlee White – KJ4ADX at chandleewhite@gmail.com if you are interested in getting involved.

June Engineering Update

As I write this I just finished packing the car with antennas and gear to take out to the Field Day site at Hagan Stone Park, I'm looking forward to seeing everyone out there this year and I am excited to see how the new site will work out! It's a large area all to ourselves in what I hope will be a low noise spot, and I'll enjoy camping out this year!

VHF 145.150mhz C4FM/FM repeater.

We had a power failure this month that took everything at the site offline for some reason this month. Everything we have is running on three UPS backups, all had to be powered back on manually after the power failure, which unfortunately happened right before the Auxcomm net on a Thursday night. Scott KV4UP and I went out to repeater site the next morning and brought everything back online, but did not see the problem that caused it to happen. Best guess is that when the power came back online at the site, it wasn't brought back online cleanly, causing the UPS supplies to stay off.

Continued page 6

Engineering report continued from page 5

Actual repeater seems to be doing well. We have two VHF repeaters now, and we are running on the original one again. The VHF repeater repair from last month seems to have held up.

Dstar 442.8625 UHF Repeater.

The Dstar repeater did not fair the power failure as well as the VHF machine did. We lost the gateway computer due to data loss and corruption. This was restored back to operation by Steve K4SQI the Dstar "computer guy" as I like to think of him. Steve spent a lot of time restoring the gateway, and installing a second gateway setup on a Dell server that Scott KV4UP has donated to the club to be used if needed. The new computer has the newer G3 Dplus software installed as the older hardware does not support it.

Both Gateways unfortunately do not work. It looks like something may have happened to the controller computer, so a full restore will be done on that soon, when I get past Field Day. The repeater is operational at this time, but unable to fully link. When connected to a user or reflector the controller is not passing audio from them to the repeater. Hopefully we will get it squared away this next week after Field Day.

Jesse K4AX
Engineering Chair

FCC Issues *Notice of Unlicensed Operation* in Public Safety Interference Complaint

The FCC has issued a *Notice of Unlicensed Operation* ([NUO](#)) to a Texas man for causing interference to a VHF public safety communications system in Dallas County. The FCC Enforcement Bureau issued the *Notice* to Bradley C. Pike of Dallas on May 17.

On April 3, agents from the FCC's Dallas Enforcement Bureau Office responded to a complaint from Dallas County Consolidated Services regarding interference to their VHF public safety communications system.



Agents confirmed by direction-finding techniques that VHF emissions coming from Pike's residence were causing the interference. Pike surrendered a radio signal jammer after admitting to agents that he had used the device, the FCC said. The Communications Act not only prohibits intentional interference, but the manufacture, importation, marketing, sale, or operation of devices designed to jam or disrupt wireless communications deliberately.

Pike could face a substantial fine, seizure of radio equipment, and criminal sanctions, including imprisonment, the FCC said. Pike was given 30 days to respond to the *Notice*.

Look Who Passed

Every month on the second Saturday, except in March when it is the third Saturday, W4VEC holds a testing session for those who live in the area. This provides an opportunity for individuals to be able to test for their amateur radio license or upgrade. Thanks to David Macchiarolo, AJ4TF, and his team of volunteer examiners for taking time out of their busy schedules each month to help new or upgraded hams in our area.

Next month's testing session will be on July 8th at Hinshaw United Methodist Church, 4501 High Point Road, Greensboro, 27407, at 9am. While walk-ins are welcome contacting the lead VE is preferred. Please contact David Macchiarolo, AJ4TF, email aj4tf@arrl.net, phone (cell), 336-420-9424.

If you cannot make it to this test session, W4VEC holds a second test every month in this area. Test sessions are held at 10am on the last Saturday of each month at the Red Cross High Point Chapter, 815 Phillips Ave., High Point, NC 277262. Walk-ins are welcome. Contact information is David Macchiarolo, AJ4TF, email aj4tf@arrl.net, phone (cell), 336-420-9424.

Results from May 27, 2017 VE Session High Point, NC

Not pictured: Sean W. Dugan, Fayetteville, NC Earned Technician
 Kenneth C. McSheehan, KN4DGI, Salisbury, NC Earned Extra



MARTI CALOCA, JUAN M
 KN4CXY, High Point, NC
 Earned General

Results from VE Session, Greensboro, June 2017



Samuel Biagioli, Jamestown, NC
 Earned Technician



John Cooper, Lexington, NC
 KM4UHT Earned General



Stacey Macarthur, Kernersville, NC
 WILLO Earned General

Additional Countries Gain Bands at 5 MHz

Radio amateurs in the United Arab Emirates (UAE) are among the latest to gain access to a 60-meter band. The allocation is 5,351.5-5,366.5 kHz at a maximum power of 15 W EIRP. Malta also has opened a 60-meter band for its Amateur Radio licensees. The island's telecoms regulator, the Malta Communications Authority, published an updated National Frequency Plan in April that includes the WRC-15 secondary Amateur Radio allocation of 5,351.5-5,366.5 kHz at a maximum



power of 15 W EIRP. Panama came on board with the same allocation in December.

The Netherlands telecoms regulator Agentschap Telecom (AT) has added a 60-meter band of 5,351.5-5,366.5 kHz to its frequency plan for Bonaire, Sint Eustatius, and Saba. Eligible licensees may run up to 25 W EIRP.

Radio Amateurs in Poland will soon have access to 5,351.5-5,366.5 kHz with 15 W EIRP. Mexico's telecommunications regulator IFT has approved Amateur Radio use of 5,351.5-5366.5 kHz at up to 20 W EIRP.

Iceland's telecommunication authority PTA has extended *experimental* license privileges for radio amateurs in the 5 MHz band until December 31, 2017. The privileges are for 5,260-5,410 kHz, with 100 W EIRP, CW, USB, PSK31, and other digital modes. Currently 25 licensees in Iceland have experimental licenses to operate on 60 meters.

In Hungary, the HG7BHB beacon on 5,352.5 kHz has been shut down. Established in 2015 by Hungary's IARU member society MRASZ, the beacon went out of order in February. A substantial increase in activity near its frequency and the lack of a suitable alternative frequency led to the decision to switch it off altogether.

Meanwhile, Steve Kölcsey, HA0DU, has reported that temporary Amateur Radio licenses permitting 5 MHz operation in Hungary have expired, and there has been no 60-meter operation since May 1. -- *Thanks to the 5 MHz Newsletter via Paul Gaskell, G4MWO, Southgate Amateur Radio News*

UPCOMING HAMFESTS AND CONVENTIONS

- ✓ July 8: Firecracker Hamfest, Rowan Amateur Radio Society, Salisbury, NC, <http://www.rowanars.org/firecracker-hamfest/>
- ✓ July 15: Mid-Summer SWAPFEST, Cary Amateur Radio Club, Cary, NC, <http://www.qsl.net/n4nc/>
- ✓ July 29: WCARS Hamfest 2017, Western Carolina Amateur Radio Society, Waynesville, NC, <http://wcars.org/>
- ✓ August 5: 20th Annual Catawba Valley Hamfest, McDowell Amateur Radio Association, Morganton, NC, <http://www.cvhamfest.com>
- ✓ August 12: 19th Annual Cape Fear Amateur Radio Society Swapfest, Cape Fear Amateur Radio Society, Fayetteville, NC, <http://www.cfarsnc.org>
- ✓ September 1-3: 61st Annual Shelby Hamfest/ARRL North Carolina State Convention, Shelby Amateur Radio Club, Shelby, NC, <http://www.shelbyhamfest.org> It is not too early to apply for ARRL-affiliation of your club's upcoming hamfest! For more information, see <http://www.arrl.org/arrl-sanctioned-events> (source: ARRL website)

SPECIAL EVENT STATIONS

- ✓ August 3-6: 20th Anniversary Catawba Valley Hamfest, 2300Z-2100Z, W4R, Morganton, NC. Catawba Valley Hamfest Association. 28.400 14.250 7.200 3.840. QSL. Tom Land, 4515 Diamond St, Hudson, NC 28638. Some CW in the Novice/Tech portions of each band. Possibly some digital and SSTV too.
- ✓ May operate on VHF frequencies also, CW and Voice. www.cvhamfest.com Special Event Station listings in the NC Section newsletter are based on what appears on the ARRL website, see <http://www.arrl.org/special-event-stations> (source: ARRL website)

Amateur Radio Mesh Network Brought into Mix as Volunteers

Assist in South African Fire Disaster: An intense winter storm and severe drought in South Africa's Western Cape region earlier this month resulted in devastating fires that ravaged parts of the Southern Cape Area, with the city of Knysna being the worst affected. Some fires were reported still burning, but contained, this week after winds subsided over the weekend. Johan Terblanche, ZS1I, in Mossel Bay, who administers the Amateur Radio Emergency Data Network ([AREDN](http://www.aredn.org)) Mossel Bay Mesh Network, said the call for volunteers went out on June 8, after cellphone, internet, and landline telephone service was disrupted in many areas. A half-dozen volunteers reported, an emergency net was activated, and message traffic was handled via the AREDN, as well as on HF, VHF, and UHF. Disaster communication links remained active until normal telecommunication service was restored on June 11, but the AREDN remained on high alert, Terblanche said. The fire disaster resulted in several fatalities, the destruction of more than 430 dwellings, and thousands of evacuees remain displaced. Disaster relief efforts continue. -- *Thanks to Johan Terblanche, ZS1I, via Southgate Amateur Radio News*



W4DXCC DX AND CONTEST CONVENTION REGISTRATION NOW OPEN (9/22-23) –

Registration now is open for the 2017 W4DXCC DX and Contest Convention, the Southeast's largest and most popular DX and contesting event, September 22-23, at the MainStay Suites in Pigeon Forge, Tennessee.

The convention will feature presenters speaking on DX and contesting, equipment manufacturers – on hand to demonstrate new products and answer questions face to face, and a banquet. This year's event will continue the Ham Radio Bootcamp to mentor newcomers and experienced hams alike on station and antenna construction, operating, digital modes, DXing, and contesting.

The convention website has full details. – Thanks to Dave Anderson, K4SV. For further information, see <http://www.arrl.org/news/w4dxcc-dx-and-contest-convention-registration-now-open> (source: K4SV, ARRL website)

Calendar of Events

- Jun 24-25 Field Day Hagan Stone Park, Group Camping Area, Sites 1 and 2, talk-in 145.150 repeater
- Jun 24 GARA General Meeting at Field Day
- Jun 24 No VE Session this month at Red Cross Building, High Point
- Jul 8 VE Session (Hinshaw United Methodist Church, Greensboro)
- Jul 8 Firecracker Hamfest (Salisbury, NC, <http://www.rowanars.org/firecracker-hamfest/>)
- Jul 10 GARA Board Meeting
- Jul 15 Operation Red Sleigh Hams needed contact Nathan Jackson, at k4nwg@triad.rr.com
- Jul 15 Mid-Summer SWAPFEST (Cary, NC, <http://www.qsl.net/n4nc>)
- Jul 24 GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
- Jul 29 VE Session (Red Cross Building, High Point)
- Jul 29 WCARS Hamfest (Waynesville, NC <http://wcars.org/>)
- Aug 5 20th Annual Catawba Valley Hamfest (Morganton, NC <http://www.cvhamfest.com>)
- Aug 12 VE Session (Hinshaw United Methodist Church, Greensboro)
- Aug 12 19th Annual Cape Fear Amateur Radio Society Swapfest (Fayetteville, <http://www.cfarsnc.org>)
- Aug 14 GARA Board Meeting
- Aug 26 VE Session (Red Cross Building, High Point)
- Aug 28 GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
- Sep 1 North Carolina State Convention (Shelby, NC <http://www.shelbyhamfest.org>)
- Sep 9 VE Session (Hinshaw United Methodist Church, Greensboro)
- Sep 11 GARA Board Meeting
- Sep 25 GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
- Sep 30 VE Session (Red Cross Building, High Point)
- Oct 9 GARA Board Meeting
- Oct 14 VE Session (Hinshaw United Methodist Church, Greensboro)
- Oct 23 GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
- Oct 28 VE Session (Red Cross Building, High Point)
- Nov 11 VE Session (Hinshaw United Methodist Church, Greensboro)
- Nov 13 GARA Board Meeting
- Nov 25 VE Session (Red Cross Building, High Point)
- Nov 27 GARA's Election (Cooper's Ale House in Salon "B", Greensboro)
- Dec 9 VE Session (Hinshaw United Methodist Church, Greensboro)
- Dec 11 GARA Board Meeting (transition meeting)
- Dec ? Area Ham Christmas (holiday) Party TBA
- Dec 25 No GARA General Meeting this month
- Dec 30 VE Session (Red Cross Building, High Point)
- Jan 8 GARA Board Meeting
- Jan 13 VE Session (Hinshaw United Methodist Church, Greensboro)
- Jan 22 GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
- Jan 27 VE Session (Red Cross Building, High Point)

The purpose of this calendar to provide information on events in and around our area that might be of interest to our readers. As you might expect, there are many more events (public service, hamfests, flea markets, etc.) taking place in North Carolina and around the Greater Greensboro Area. If you know of an event that would be of interest to our readers, please contact Tom, KB1P at kb1p@arrl.net.

Area Happenings

FOURTH MONDAY – at 6:30 pm, the Greensboro Amateur Radio Association have their regular monthly meeting at Cooper's Ale House, 415 S. Swing Rd., Greensboro, NC 27410. Please plan to gather at 6:30 pm for dinner. The meeting is scheduled to start at 7:15 pm

CLUB NETS:

SUNDAYS – at 8:30 pm, the Technical Forum on the 145.150;- at 9pm, the GARA News and Information Net. This net features News Line and is on the 145.150, W4GSO repeater. Patrick Moore K2CPR is always looking for net controls. Contact him if you would like to help.

TUESDAYS – at 8:30pm The Triad SkyWarn Net meets on the 147.225, K4ITL repeater, no tone required.

TUESDAYS – at 9pm, the D-STAR Net meets on 442.8625 (W4GSO B and Reflector 54C)

WEDNESDAYS – at 8:45pm, The Guilford Amateur Society Rag Chew Net holds their weekly net on the 145.250, W4GG repeater with an 88.5 Hz. tone. Jim Hightower, W4JLH is the net control.

THURSDAYS – at 9pm, The Guilford County ARES Net meets on the 145.150 repeater (100 Hz. tone).

OTHER ACTIVITIES:

FIRST MONDAY – The Guilford County A.R.E.S. monthly meeting is held at 1002 Meadowood St. off W. Wendover Ave, in the EMS building, beginning at 7pm.

THIRD MONDAY – at 6:15pm The Guilford Amateur Society holds their monthly meeting at Tex & Shirley's Restaurant in Friendly Shopping Center. Eat at 6:15pm and the business meeting begins at 7pm.

THURSDAY – at 11:15am, Greensboro Hams get together for lunch. Thursday lunch group is meeting at the K&W Cafeteria, 300 Forum VI Mall at Friendly Shopping Center. Talk-in is on the 145.150, W4GSO repeater with a 100 Hz. tone.

EVERY FRIDAY – at 8pm (approximately) Greensboro Hams get together for coffee at Starbucks at Edney Ridge Rd.

GARA REPEATERS

145.150 MHz - offset, 100 Hz. tone

442.8625 MHz. + offset, Digital D-Star

**The
W4VEC
Testing Schedule
June 2017 to .Sep.2017**

July 8, 2017

Aug. 12, 2017

Sep. 9, 2017

Oct. 14, 2017

Location: Hinshaw United Methodist Church, 4501 High Point Road, Greensboro, NC
Time: 9:00am

Contact: David Macchiarolo
Phone: 336-420-9424
E-mail: aj4tf@arrl.net



Greensboro Amateur Radio Association

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