



The Greensboro Amateur Radio Association

# Feed Line



Providing Amateur Radio news for the Triad

Betty Williams , KC2BFN Editor

[www.w4gso.org](http://www.w4gso.org)[info@w4gso.org](mailto:info@w4gso.org)

## This Month's Program

Last month we heard from Kenny, KK4HAO about a new NTS traffic net that has officially started every night at 7:30pm on the W4GSO 145.15 repeater. Kenny would love to have anyone who is interested check into the net. You won't be obligated to pass traffic, but it would be good to have a strong showing of support for this important service. Please try to check in if you're able. Formal training to become a traffic handler will be scheduled soon.

This month's presentation will be related to the one in August. At that meeting, I talked about simple networking concepts to help you understand how to connect your digital devices to the internet and to each other. A number of questions were raised during the presentation, many revolving around Wi-Fi, wireless connectivity, etc.

Thankfully we have a Wi-Fi expert in our midst and he is going to teach us all how to understand what our Wi-Fi is doing and how to make it better. Jonathan Davis, KM4UOB will teach us how to make the most of our home Wi-Fi including RF and physical issues and concepts related to it. You're not going to want to miss this meeting. We'll see you Monday, October 23 at Cooper's Ale House!

Thanks!  
Scott

### IN CASE YOU MISSED IT:

GAS is holding their weekly Rag Chew net on 145.150 W4GSO until further notice.

The 145.250 machine has been down for a while.

### NEXT MEETING October 23, 2017

The next meeting of the Greensboro Amateur Radio Association will be held at the Cooper's Ale House on Swing Road in Greensboro on Oct. 23, 2017. The program will be Wi-Fi connectivity presented by Jonathan Davis, KM4UOB.

## QST UPDATE

### What is a digital edition?

The digital edition of *QST* is an electronic form of the journal. All ARRL members have access to the digital edition of *QST*...a way to read and interact with the current issue of *QST* anytime, anywhere. Each issue includes unique, digital-edition-only content such as video, audio features and extra content. Members can also access the digital archive for access to previous issues.

### How do I access the digital edition?

*QST* can be read online or downloaded onto some devices. Members must have a valid ARRL website login to access this benefit. You can always find a link to the current digital edition and archives at [www.arrl.org/qst](http://www.arrl.org/qst). The web version is optimized to automatically recognize most mobile devices, tablets and e-book readers. Apple iOS device users (iPhone, iPad and iPod touch), Android device users, and Kindle Fire users can also access the digital edition from a dedicated *QST* app. The app is free in [Apple's App Store](#) the [Google Play Store](#), and the [Amazon App Store](#), or search for "QST". When prompted to sign into the digital edition, use your ARRL website registration username and password. Not registered? Go to [www.arrl.org/myarrl](http://www.arrl.org/myarrl).

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### Connect with ARRL

Stay posted on the latest Amateur Radio news, events, photos, and videos through Facebook, Twitter, Instagram and YouTube.



### 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](http://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 – October 2017**

**There was no Board meeting in October.**

## **Regular Meeting Minutes – September 2017**

The Greensboro Amateur radio association held their regular monthly meeting on September 25<sup>th</sup> 2017 at Coopers Alehouse located at 415 S. Swing Road in Greensboro.

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

Cameron said that the club made \$600.00 from selling donated equipment at the Shelby hamfest. Chan White KJ4ADX said we still have some items left for sale. Contact Chan if you would like more information.

Cameron asked for two volunteers to be on the nominating committee.

Scott Toth N4DL said he is recruiting net control operators for the Sunday evening nets, Please contact Scott if you can help.

Scott also spoke about the multi-mode digital net coming up on Thursday. Scott also said the engineering report is in the feed line and on the GARA website.

Cameron asked that everyone identify themselves.

Scott introduced Kenny Grabarczyk KK4HAO who gave the presentation on the National Traffic System. Cameron Conover AJ4TW made a motion to allow the Piedmont Triad Traffic net to use the 145.150 repeater for one hour daily at 7:30PM. Bill Flaherty W1GY seconded and the motion passed with all in favor. Kenny will let us know when the start date is.

Linda Worland KW4UD made a motion to adjourn, Mark Siepak KJ4VSM seconded. The motion passed with all in favor. The meeting ended at 8:30PM

Respectfully submitted by;  
Greg Spencer KG4UQV  
GARA Secretary

# From the President's Shack

October 2017

Elections are coming in November and we need to fill some positions: President, Engineering Chair, and Secretary. Also, John Strandberg has offered to maintain his position as Operations chair if needed, but thinks that there could be another candidate that suits the role. I personally desire to remain as an active part of the Engineering Committee and the Operations Committee going into 2018 but not as a committee chair. We have many committee level positions that are short term or smaller commitment type positions that help the club run smoothly. Each Chairperson has the option to recruit and organize a support group for his or her area of the club's business.

A wonderful example of this is the engineering committee which under Jesse's, K4AX, management has grown and become a very strong team that fully supports all of the needs of the repeater systems that we operate. These systems are very complex and the skills required to manage the whole thing are diverse. We have on the engineering committee all types of specialties, RF, Linux systems, IP Security and protocol management, Repeater Controller programming and scheduling, even down to my level of broom technician everyone on the team fulfills a crucial role in the operation of the W4GSO repeater systems. In this way the chairman of the committee does not need to master a lifetime worth of technical ability just to insure the health of the systems for his or her term. I would love to see all of the other clubs specialties being organized and supported in a similar manner.

Chan, KJ4ADX, has started a committee that covers fundraising activities as Finance Chair that is under his purview. Some people are on that committee and maybe don't realize it, if you helped with the table at Shelby Hamfest, you can consider yourself a member of the 2017 GARA finance committee; we also have one member Ed, AD4YB, who will use his truck to help pick up new donations to the club.

Another one is the Operations Committee. Operations cover just what it sounds like, operating, it has to do with W4GSO's on the air activities as well as eyeball QSO gatherings. This covers nets, Field Day, and other events such as NCQP and gatherings such as open house and the picnic. We have field day coordinator as one very prominent annual position on the operations committee. There are also those who give of their time on a weekly basis in order to insure that the club's nets run on time every time. The committee members are crucial parts of helping the club grow, not only maintain our current resources, but expand to be able to provide more and more services to our community in Guilford County. All of this activity is supported in our bylaws under Article V Section 8 Delegation of duties. Getting involved in the club's activities at the committee level is a great way to help out and get to know more about how the club works and where you might be able to help, so please consider being part of a committee that interests you.

If joining into the management of this wonderful and well established organization sounds good to you, please know that everyone is more than welcome; we cannot do what we do without the members who give their time and support. To this end, it is time to fill two open seats on our most urgent short term committee positions. We need two members to serve on the nomination committee. The only requirement for nominations committee is that you are a member in good standing and that you are not currently holding a position on the board of directors. We need to have nominees to fill these open board positions

by the November club meeting which is our annual election meeting. Please consider spending a few minutes in service to your club as a member of the nominating committee.

I'm looking forward to seeing everyone on Monday night out at Cooper's.

Thank you, 73

Cameron, AJ4TW

# October Engineering Report

No report this month.

## Finance Committee Report

**Finance Committee Report** – We are glad to report that sales of equipment donated to GARA have netted \$720. We still have some items left so see me at the GARA meeting to find out what you missed! Thanks to help from William Flaherty - W1GY, Jesse Lindley - K4AX, and Cameron Conover - AJ4TW.

Chandlee White, Finance Chairman

### *Amateur Radio Satellite Pioneer Patrick J. A. Gowen, G3IOR, SK*

Amateur Radio satellite pioneer Pat Gowen, G3IOR, of Norwich, England, died on August 17 after a lengthy illness. He was 85.

"Pat was passionate about Amateur Radio, amateur satellites, and the environment; he contributed much over his long life to each of these and will be sadly missed," said AMSAT-UK Chair Martin Sweeting, G3YJO.



Gowen was a cofounder of AMSAT-UK and a member of its Board of Directors in 1974. He wrote the satellite column for *Practical Wireless* for many years and was a frequent contributor to *The AMSAT Journal* and *OSCAR News*.

Gowen was the first radio amateur to work DXCC via low-Earth-orbit (LEO) satellites, although his award is #4, because he had to wait for QSLs to arrive. Fluent in Russian, he enjoyed conversing with the cosmonauts aboard the now-defunct Russian *Mir* space station and the ISS. Gowen also was the first to discover the resurrection of the long-dormant AO-7. He also was a prominent HF operator and DXer and a member of the First-Class CW Operators Club. A biochemist, Gowen was retired from the University of East Anglia.

"No mention of Pat would be complete without noting his decades of work in cleaning up the beaches and waters of his beloved Norfolk," Ray Soifer, W2RS, commented. -- *Thanks to AMSAT News Service*

## *Amateur Radio Volunteers in Puerto Rico Meet a Variety of Communication Needs*

The Amateur Radio volunteers who deployed as American Red Cross volunteers to Puerto Rico as part of the "Force of 50" this past weekend have been focusing their efforts where their help is most needed. ARRL CEO Tom Gallagher, NY2RF, said the volunteers, in general, will provide communications for local law enforcement and utility managers, island-to-mainland health-and-welfare traffic, and contact with the island's more remote areas.

ARRL Emergency Preparedness Manager Mike Corey, KI1U, said arriving volunteers initially gathered at the Convention Center in San Juan, which is now serving as Puerto Rico Emergency Management Agency (PREMA) Headquarters. Their first night, a local church offered accommodations, he said, and volunteers slept on pews that had been pushed together.

Since the storm struck Puerto Rico on September 20, ARRL Section Manager Oscar Resto, KP4RF, and other volunteers have staffed VHF and HF nets at the American Red Cross temporary headquarters in San Juan, despite damage to their own homes. The 24/7 net covers nearly two-thirds of the island and has been handling traffic to and from the power company, Autoridad de Energía Eléctrica (Electric Power Authority -- AEE), and state and local authorities. The electric distribution infrastructure suffered extreme storm damage, and only about 9% of customers have power. Twelve team members were assigned to provide communication for engineers involved in repairing power distribution centers.

An Amateur Radio station has been installed and an operator embedded at the Puerto Rico Emergency Operations Center (PREOC). Radio amateurs also were asked to establish VHF communication capabilities at 51 hospitals throughout the island, so they can have direct contact with the EOC.



**ARRL Puerto Rico Section Manager Oscar Resto, KP4RF (right), works with two new "Force of 50" volunteers at Red Cross Headquarters in San Juan.**

Volunteer Val Hotzfeld, NV9L, told ARRL in an October 4 update that the team on the ground has recruited three local hams to handle Amateur Radio communications at hospitals in Jayuya, Humacau, and Caguas. "They were on site and began handling hospital traffic today," she said in her October 4 situation report. "We successfully received and forwarded traffic from three hospitals needing water and fuel."

Puerto Rico volunteers and local hams alike have successfully passed "lots of traffic" to net control, which has been forwarded on to the appropriate agencies. Some examples included getting an oxygen tank to a nursing home resident and insulin to a diabetic youth.

A local radio amateur was recruited to handle hospital communications at Centro Medico. "This is the main hospital on the island and needs communication to handle transfers from the other hospitals and medical centers," she said. The Puerto Rico team has begun checking with hospitals to see which ones have telephone service, before dispatching additional operators.

Hotzfeld said they've received a request from AEE, which operates the precarious Guajataca hydroelectric dam, to deploy another operator to the dam and assist those fixing the channel that delivers water to about 350,000 in the Quebradilla and Isabella area. "We are now also being tasked with doing the same for all the police departments in Puerto Rico," she added. "We are gathering information on roads that are open from the EOC and providing it to the Red Cross for their missions."

The Amateur Radio liaison at the EOC is working with federal officials to co-locate Amateur Radio repeaters on tower sites now being restored to improve communication island-wide. The volunteer team was approached by the Southern Baptist disaster team to discuss the possibility of utilizing a few of their team members who hams to help with communication tasks.

Volunteers Jeremy Dougherty, NS0S, and Bobby Price, KB4ROR, are in Yauco. "We installed our rigs in the fire truck and gave them our handhelds. It left us no other radio for local contact," the pair reported on October 3. They reached out to Marcos Pereda, KP3CA, in Yauco, who loaned the team his FTM-100DR.

They didn't have an antenna that would offer sufficient range, so they improvised, fashioning a "tape measure" five-element Yagi, using supplies from a local hardware store and a coax jumper from their extra HF radio. "We installed everything and made contact with N5TGL and N0CSM, who are 50 miles away, [using] the repeater between us," they said.

There have been problems filling resource requests from remote areas of the island. A message was relayed on *WinLink* by Juan Sepulveda, KP3CR, from volunteer team members in Mayagüez on behalf of Lares Mayor Roberto Pagán, who had put out an urgent call for water for the town of some 5,000.

According to one FEMA official, the White House situation room is extremely pleased and enthusiastic about the service Amateur Radio volunteers are providing in Puerto Rico.

An HF station with *Winlink* capability and a VHF/UHF station have been set up in the FEMA disaster field office, and volunteers have been reporting in by radio from around the island to post situation reports. Four volunteers were positioned to accompany and provide VHF communication at Red Cross distribution centers on a daily basis. Two volunteers also were sent to Culebra Island to establish VHF and HF communication there, the first since the storm.



**"My station will be QRT for a long time," said Alfredo (Al) Velez Ramos, WP3C/NP4DX.**

## *Ham Radio Bridging the Gap in Wildfire-Stricken California*

More than a dozen wildfires in Northern California have damaged or destroyed cellular telephone and internet infrastructure in some areas, and Amateur Radio has helped to fill the communication gap. Mendocino County Sheriff Thomas Allman [told news media](#) on Tuesday, October 10, that damage to cell towers and fiber optic telephone and computer lines had left officials relying on Amateur Radio operators to communicate with area hospitals.

ARRL contacted Robin Carter, a resident of the Willits area in Mendocino County, who confirmed that ham radio operators were, until midweek, stationed at all North County hospitals and large nursing homes, supplementing the county's emergency communication system. She said cell and landline telephone service had been knocked out at her home, along with the fiber optic internet connection, although the family has satellite internet. She said internet service was at least temporarily restored on Wednesday.

Her husband Mike Carter, KC6MGM, a Mendocino County Community Emergency Response Team ([CERT](#)) volunteer, had, until Wednesday, been staffing a station at Howard Memorial Hospital in Willits for 12 hours a day

Radio amateurs also assisted with communication at Ukiah Valley Medical Center in Ukiah; Northbrook Nursing Home in Willits; the Mendocino Coast Hospital in Fort Bragg, and Red Cross shelters at Ukiah High School and Willits High School, Robin Carter said.

The Redwood Complex Fire, the northernmost of the fires, was responsible for the Mendocino County outages. The Atlas Fire in Solano and Napa counties is the largest and most disastrous wildfire. It covers more than 42,300 acres and was only 3% contained as of October 11.

In Sonoma County, Sonoma County Radio Amateurs ([SCRA](#)) has been conducting an ARES Fire Watch Net to relay fire and emergency information on its repeater. Auxiliary Communication Service (ACS) Radio Officer Dan Ethen, WA6CRB, said a controlled [Sonoma County Fire and Emergency Services](#) RACES/ACS net is also active. In Solano County, radio amateurs are reported to be supporting shelter operations.



### **Fires have damaged or destroyed telecommunications infrastructure in California.**

The fast-moving, wind-driven blazes -- 18 large fires in all, according to FEMA -- have driven thousands from their homes, killed at least 2 dozen people, and destroyed more than 1,300 homes. FEMA said the fires cover some 150,000 acres in all. Some towns have been virtually leveled. Most of the wildfires are clustered around Santa Rosa, north of San Francisco. According to FEMA, some 106,000 residents are under mandatory evacuation orders, more than

In Sonoma County, Sonoma County Radio Amateurs ([SCRA](#)) has been conducting an ARES Fire Watch Net to relay fire and emergency information on its repeater. Auxiliary Communication Service (ACS) Radio Officer Dan Ethen, WA6CRB, said a controlled [Sonoma County Fire and Emergency Services](#) RACES/ACS net is also active. In Solano County, radio amateurs are reported to be supporting shelter operations.



36,500 homes are threatened, and 59 Red Cross and independent shelters are open with 5,117 evacuees.

A state of emergency exists in Napa, Sonoma, Butte, Lake, Solano, Mendocino, Nevada, Orange, and Yuba counties. The California Emergency Operations Center is partially activated.

California Department of Forestry and Fire Protection mobile communications centers (MCCs) are equipped with Amateur Radio stations, but it's not known if any hams have been deployed on any MCCs in the field for the current spate of wildfires. (ARRL letter).

### *ARISS Moves One Step Closer to Flying New Amateur Radio Equipment to the ISS*

Amateur Radio on the International Space Station ([ARISS](#)) International Chair Frank Bauer, KA3HDO, announced this week that the program has submitted its Interoperable Radio System (IORS) flight-safety data package to NASA for review. ARISS has been developing the IORS to replace most of the Amateur Radio hardware now on the space station. It is called "interoperable" because it's designed to operate anywhere on the ISS. A NASA flight-safety review in about a month is the next step. Bauer said he was highlighting the accomplishment, because all work on the safety data submission was developed exclusively by ARISS volunteers, rather than NASA or other contractors, as had been done in the past. It also meant a substantial saving to ARISS, which has become more reliant on donations in recent years.



"This is a very major IORS milestone," Bauer said. "We cannot get [the new equipment] to orbit without successfully completing the safety review process and getting our hardware certified for flight."

Bauer said having the work done by volunteers will shorten the timeline involved in getting the new Amateur Radio hardware to the ISS.



He explained that the material turned in for NASA Human Spaceflight Safety Certification covers the first three phases of a four-phase process. The initial steps in the process are aimed at ensuring that NASA understands the design, demonstrating that ARISS understands the potential hazards that the new hardware systems could introduce, and how it has mitigated or prevented them. The final phase will be complete when ARISS has finished all testing and NASA deems the hardware flight worthy. ARISS is hoping that will happen next spring.

**A key development: The ARISS multi-voltage power supply.**

## FEEDLINE

"We will remove the 3 W Ericsson handheld radio system, initially certified for flight in 1999, and the packet module -- both of which have recently had issues," Bauer said, and install a brand-new, specially modified 25 W JVC Kenwood TM-D710GA radio to enable a multitude of new or improved capabilities on the ISS, including voice repeater and better APRS operations."

A key development, Bauer explained, is the multi-voltage power supply (MVPS), which interfaces with multiple electrical outlet connector types on the station and provides a range of power-output capabilities for current and future ARISS operations and Amateur Radio experiments.

ARISS invites [contributions](#) to help cover the expenses of its work. All donations go directly to ARISS.



**Astronaut Mike Fincke, KE5AIT (left), and Cosmonaut Yury Lonchakov with the current Kenwood radio, which will be replaced. [NASA photo]**

## VE Testing

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 November 11th 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](mailto: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](mailto:aj4tf@arrl.net), phone (cell), 336-420-9424.



**David Trachtenberg, N4WWL, Confirmed as Principal Deputy Undersecretary of Defense for Policy:** The US Senate this week confirmed ARRL member David Trachtenberg, N4WWL, of Burke, Virginia, as the next Principal Deputy Under Secretary of Defense for Policy. Trachtenberg, 60, is the president and CEO of Shortwaver Consulting LLC, a national security consultancy. He is National Planning Coordinator and Northeast Division Director for USAF MARS, and is active in the Pentagon Amateur Radio Club ([PARC](#)). Trachtenberg has prior service in several Department of Defense posts, most recently as the Principal Deputy Assistant Secretary of Defense for International Security Policy. Trachtenberg was also a

professional staff member with the House Armed Services Committee. -- *Thanks to Gary Sessums, KC5QCN*

# Calendar of Events

	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 <a href="http://www.jars.net">http://www.jars.net</a> )
Nov 19		JARSFest 2017 (Benson, NC,)
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
Jan 6		Winston-Salem FirstFest (5422 Robinhood Road, Winston-Salem, NC)
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)
Feb 10		VE Session (Hinshaw United Methodist Church, Greensboro)
Feb 12		GARA Board Meeting
Feb 24		VE Session (Red Cross Building, High Point)
Feb 26		GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
Mar 9		North Carolina Section Convention (Charlotte Hamfest) <a href="http://charlottehamfest.org">http://charlottehamfest.org</a>
Mar 10		VE Session (Hinshaw United Methodist Church, Greensboro)
Mar 12		GARA Board Meeting
Mar 26		GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
Mar 31		VE Session (Red Cross Building, High Point)
Mar 31		North Carolina State Convention (Raleigh Hamfest <a href="http://rars.org/hamfest">http://rars.org/hamfest</a> )
Apr 9		GARA Board Meeting
Apr 14		VE Session (Hinshaw United Methodist Church, Greensboro)
Apr 23		GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
Apr 28		VE Session (Red Cross Building, High Point)
May 12		VE Session (Hinshaw United Methodist Church, Greensboro)
May 14		GARA Board Meeting
May 26		VE Session (Red Cross Building, High Point)
May 28		GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
Jun 9		VE Session (Hinshaw United Methodist Church, Greensboro)
Jun 11		GARA Board Meeting
Jun 23-24		Field Day
Jun 25		GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
Jun 30		VE Session (Red Cross Building, High Point)
Jul 9		GARA Board Meeting
Jul 14		VE Session (Hinshaw United Methodist Church, Greensboro)
Jul 16		GARA General Meeting (Cooper's Ale House in Salon "B", Greensboro)
Jul 21		Mid-Summer Swapfest (Cary, NC) <a href="http://www.qsl.net/n4nc/">http://www.qsl.net/n4nc/</a>
Jul 28		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](mailto: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 GARA Sunday evening net. This features a rag chew followed by News and Information including Amateur Radio Newsline. It is on the 145.150, W4GSO repeater. Scott Toth, ND4L and Cameron Conover, AJ4TW are always looking for net controls.

**TUESDAYS** – at 8:30pm The Triad SkyWarnNet 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 145.150, W4GSO repeater until further notice. Jim Hightower, W4JLH is the net control.

**THURSDAYS** – at 9pm, The Guilford County ARES Net meets on the 145.150

**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 Saryhgbbucks at Edney Ridge Rd.

## The W4VEC Testing Schedule

**Nov. 2017 to Feb. 2018**

Nov. 11, 2017

Dec. 9, 2017

Jan. 13, 2018

Feb. 11, 2018

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

repeater (100 Hz. tone).

### GARA REPEATERS

145.150 MHz - offset, 100 Hz. tone

442.8625 MHz. + offset, Digital D-Star



### Greensboro Amateur Radio Association

P.O. Box 39829

Greensboro, NC 27438

[www.w4gso.org](http://www.w4gso.org)

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