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The Greensboro Amateur Radio Association

Feed Line

Providing Amateur Radio news for the Triad



Volume 18, No. 7

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GARA D-Star Gateway Closer To Reality

by Will Ravenel, AI4VE

GARA is one step closer to having a D-Star gateway on the 442.8625 MHz repeater. Last month Arch, KT4AT, made available an ICOM D-Star controller, an ICOM 2m D-Star repeater, a Linux server, a router, and a registered copy of the ICOM Gateway control software. The hardware was set up at Will Ravenel's house where he and Greg Cohoon, KJ4AED, GARA's designated D-Star Gateway co-administrators installed the ICOM software and D+ enhancements, configured the server interfaces, and registered the gateway with the K5TIT trust server for a W4GSO test repeater on 145.16. This means that for a brief period after Field Day there was a working W4GSO 2m D-Star repeater and gateway capable of linking to other D-Star repeaters and reflectors around the world.

After a few days of operation the hardware was shut down and returned to Arch who will use the system to test his D-Controller hardware and software interfaced to a registered D-Star gateway. This is a necessary step before the server can be installed with GARA's 442.8625

MHz D-Star repeater and placed in service as GARA's D-STAR internet gateway connection to the rest of the world. This exciting new capability should be available this fall.

For those without a D-Star radio and who have not kept up with the rapidly growing D-Star capability, here is a brief summary of the technology and some of it's capabilities:

D-Star is an open standard for digital voice and data transmission on VHF, UHF, and microwave bands developed by the Japan Amateur Radio League (JARL) and corporations (primarily ICOM) with additional financial support from the Japanese government. So far only ICOM produces commercial radio equipment that is D-Star capable.

D-Star Digital Voice (DV) modes are encoded as a 3600 bits/sec data stream using proprietary AMBE encoding with an additional 1200 bits/sec data path on the 2m, 70cm, and 23cm (1.2 GHz) bands. A high speed Digital Data (DD) mode is also available on the 1.2 GHz band for 128 kbits/sec data transmission.

A D-Star repeater consists of a D-Star Controller and at least one repeater module for voice and data transmission. ICOM repeater modules are available for the 2m, 70 cm, and 23cm (1.2 GHz) bands. The controller is required for all D-Star repeaters. It's function is to route the signals between the repeater modules, implement control functions, and to provide network connectivity to the

internet so that D-Star compatible voice and data can be routed between repeaters using callsigns much like a cellular phone network routes calls.

To implement the internet connectivity that enables communications between remote repeaters requires that a computer server with internet access be interfaced to the D-Star controller, that the appropriate software be installed, and that the resulting D-Star Gateway be registered with the K5TIT (Texas Interconnect Team) Trust Server. The K5TIT trust server maintains a database of all registered D-Star repeaters, gateways, and users so that signal routing using amateur callsigns can work.

A D-Star Gateway connection permits users to link the local repeater with any other repeater in the world that also has an active gateway. There are currently about 9100 D-Star users (up from about 3000 one year ago) and about 450 D-Star Gateways (up from about 200 one year ago) registered with the K5TIT trust server. A local repeater can be linked to any of these by a registered user.

D plus is a program that expands the capabilities provided by the ICOM D-Star Controller software. It was written by a US ham and permits more robust linking, including links to Reflectors. A Reflector is a computer based conference bridge for D-Star that can enable many repeaters to share communications at the same time. Linking to a D-Star reflector greatly expands the participation pool for nets or ragchews. For example, the Southeastern

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NEXT MEETING July 27

The next meeting of the Greensboro Amateur Radio Assoc. will be July 27, at the Golden Corral Steak House, 4404 Landview Dr, Greensboro, NC 27407, off Wendover Ave. near Sam's Club.

GARA Meeting Minutes



Regular Meeting Minutes May 25, 2009

The monthly meeting was held June 29. The meeting was called to order at 7:15 by Chris Thompson, K4HC.

The meeting started with a round of introductions of everyone and the minutes were approved as published. There were a total of 18 members present and 6 visitors.

Business:

Ernie Wall, NC4EW: All bills paid and checkbook balanced.

Al Allred, K4ZKQ: Finances are better than forecast.

Roy Smith, N4BYU: The bike ride at Belews Lake went good and he thanked all volunteers.

Will Ravenel, AI4VE: The D-Star equipment loaned from Arch, KT4AT, is in his possession and will be registered with the gateway server K5TIT and then returned to Arch for final testing of the Gateway function that Arch is building into the D-Star controller for our 440 machine. We discussed the DSL Speed requirement for the Internet access the gateway will require. Roy made a motion to go ahead and get the DSL installed at the repeater site. Dave, KN4ZO, seconded and the motion carried.

Tom Forrest, N4GVK: Mt Mitchell repeater issue was a major miscommunication and has been resolved. All repeaters will stay in place and continue to operate but new contracts between repeater owners and Blue Ridge Broadcasting will be drawn up. Please do not send any more letters. Chris said to be polite when discussing issues with someone and always engage brain before operating mouth or pressing send. Tom also said that he has 1000 new revised GARA brochures to hand out, See Tom if you would like some.

Roy Smith said that Michael Lewis, WA4KE, has retired as the NC reporter for SERA and will be succeeded by our own Tom Forrest, N4GVK. Congratulations Tom.

Chris said that Mike Matzinger, NC4MM, A local Boy Scout leader would be heading to Swaziland in Africa on a trip to encourage communication via amateur radio between scouts in Africa and the US.

Will gave a presentation on Amateur Radio direction finding by Gary Pierce, KN4AQ. The meeting closed at 8:25 pm

(Editor's note: The resolution of the Mt. Mitchell repeaters was short lived since the GARA meeting and further negotiations will be required. A meeting is scheduled for July 15 between the repeater owners and Blue Ridge Broadcasting. Hopefully the Feed Line can soon obtain the latest information.)

From the President's Shack

by Chris Thompson, K4HC
GARA President

Here it is, July already. Seems like just last week it was early spring..where does the time go?

Field Day has come and gone, and from all accounts, everyone had a great time. We're well into Hamfest Season, but there's still several good ones coming up - Shelby (in their new location for the second year) over Labor Day Weekend is one not to miss if you're looking for a great flea market.

You may recall that I purchased a new IC-7000 HF/VHF/UHF radio from Ham Radio Outlet at last year's Shelby hamfest. I'm sad to report that the electronic gods made a visit and removed the smoke from either the drivers or the finals - bottom line, no output power. It's being packaged for a trip home to Bellevue, Washington to reinstall the smoke. As I mentioned, I bought this radio at a hamfest. The receipt got stuffed in my pocket (at which time I told myself I'd file it once I got home). Needless to say, the receipt went into that black hole that swallows socks from the dryer. As you can imagine, I was in a bit of a panic, seeing dollar signs swim in front of my eyes to get the rig repaired. In a move I can only describe as

desperation, I sent an E-mail to HRO Atlanta, to see if they could (somehow) provide me a copy of the receipt. To make a long story short, Mark, KJ4VO, confirmed the radio was still under warranty (whew!), provided me with an electronic copy of the sales receipt, and told me it had to go to Bellevue - I could either ship directly to Icom, or to HRO and they'd forward it.

That's the kind of service that will keep me going back to HRO for my purchases.

Finally, as I observed earlier, time is flying by. I need some volunteers to serve as a Nominating Committee for the next year's slate of club officers. Current club officers are not permitted to serve on the nominating committee. The duties of this position are to confer with the other committee members, and contact people who you think would do a good job as a club officer, and encourage them to agree to run. The nominations are passed to the club membership at the October membership meeting, and elections (with additional nominations accepted from the floor) are held at the November membership meeting. This is your chance to help shape the future of YOUR club.

The Greensboro Amateur Radio Association

President Chris Thompson, K4HC
Vice-President Willl Ravenel, AI4VE
Treasurer Ernie Wall, NC4EW
Secretary Greg Spencer, KG4UQV
Financial Al Allred, K4ZKQ
Engineering Chairman Jesse Lindley, N4BFD
Operations Roy Smith, N4BYU
Member at Large Clark Doggett, KG4HOM
Member at Large Dave Touvell, KN4ZO
Appointed Positions:
News letter editor and Webmaster:
Tom Forrest, N4GVK

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GARA Feed Line News Letter Gets New Editor

By Tom Forrest, N4GVK
Feed Line Editor

In the next months you will see a change in the GARA Feed Line. With that new look comes a new editor. After seven years of publishing the Feed Line, I've decided it's time for a change and some new ideas. I am stepping down as the editor. It has been a wonderful experience and I've really enjoyed it.

I will continue as web manager for GARA and will assist the new editor as the "circulation manager" for now.

Moving on to our new editor - meet Brian Wilson, KJ4LKY. Brian is new to Ham radio as well as a new member to GARA. Brian really is a clown - no joke, he really is!



Brian Wilson, KJ4LKY

various clients. He comes with good experience to Feed Line.

Brian provided some informatin about himself saying, " I was born in Los



Angeles, CA , moved to Greensboro before I was three and moved to Winston-Salem when I was 11.

I graduated from college in SC with a BS in math education, and taught high school math and Spanish for 3 and half years, spent four years in desktop publishing, page layout and graphic design, spent five years as a professional clown, and the last 10 years as a manager of Royal Diadem Jewelers."



Brian as Tubbee D

Brian is a GIA (Gemological Institute of America) Gemologist. He is happily married to Kris, who is a registered nurse, for 18 years. They have two children, Brian Michael, age 10, and Sarah, age eight. He also likes to mountain bike, and do wrist- and pocket watch repair.

The transision between editors will take place over the next couple of months. For the past years I have had the wonderful opportunity to create a positive publication for the Triad amateur radio community. Thank you to all who have assisted me with photos, stories and information.

Radio Operators Need For Bike Ride

Tom Hatley, KF4JZD, needs volunteers for the Tour To Tanglewood, September 26-27. Contact Tom at kf4jzd@bellsouth.net or 336-508-2232.

For Sale

Kenwood 7950 2 mtr. rig, 50 watts full output - no tone board, Kenwood fixed station speaker, and Kenwood power supply, manual, \$90 - OBO
Yaesu FT-470 dual band hand held, extras, clean, good battery, \$100. OBO
Contact Tom, N4GVK, 336-202-8650, or n4gvk@bellsouth.net

Walter Conkrite, KB2GSD, of CBS, SK, at 92

Legendary CBS newsmen Walter Cronkite, KB2GSD, who held the title of "Most Trusted Man in America," passed away Friday, July 17 after a long illness. He was 92.



The avuncular Cronkite anchored CBS Evening News for 19 years until 1981 when he retired. During that time, he reported on such subjects as the

Kennedy assassinations, the Civil Rights movement, the Apollo XI lunar landing, Vietnam and the Vietnam-era protests, the Arab-Israeli Six Day War, Watergate and the Menachim-Begin peace accords.

Cronkite, an ARRL member, narrated the 6 minute video Amateur Radio Today. Produced by the ARRL in 2003, the video tells Amateur Radio's public service story to non-hams, focusing on ham radio's part in helping various agencies respond to wildfires in the Western US during 2002, ham radio in space and the role Amateur Radio plays in emergency communications. "Dozens of radio amateurs helped the police and fire departments and other emergency services maintain communications in New York, Pennsylvania and Washington, DC," narrator Cronkite intoned in reference to ham radio's response on September 11, 2001. "Their country asked, and they responded without reservation."

Cronkite made his mark as a World War II correspondent for United Press where he covered the D-Day invasion and bombing missions over Germany. After the war, he served as UP's chief correspondent at the Nuremburg War Crimes Trials and spent two years in Moscow. He joined CBS in 1950 as a Washington correspondent. He distinguished himself with his coverage of the 1952 and 1956 political conventions and as narrator of the documentary series The 20th Century. In 1962, he was named anchor of CBS Evening News, then 15 minutes in length; the following year, it became network TV's first 30 minute weeknight newscast. Cronkite's nightly sign-off -- "And that's the way it is" -- became part of the popular lexicon, his gravelly voice instantly recognizable.

Gateway update from page 1

D-Star Weather Net addresses severe weather in the southeastern states by linking 24 or more D-Star repeaters through Reflector 002 A.

A D-Star Dongle is a USB powered device that enables access to a D-Star gateway through a computer for users without D-Star capable radios.

If you'd like to learn more about D-Star and it's capabilities just do an internet search on D-Star and you'll find a wealth of additional information.

Field Day 09 Catches the Excitement of Amateur Radio

By John Doggett, AJ4DV

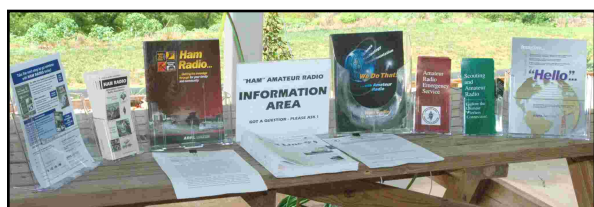
We almost had a clean sweep with all the sections. We missed the clean sweep by 6 sections (VI,NT,SJV,ID,Pacifica,and AL). The contacts were great.

We got over 1200 QSOs. The break down is as follows: 413 CW, 781 PHONE, and 83 RTTY for total of 1277 contacts. I think all in all it went fantastic that is about 300 more contacts than last year.



I have a few ideas for next year which one is making dipoles and each radio stays on a frequency. That will eliminate some of the interference from others. We will also put up a few G5RVs for back up.

I need for you guys to see what the interest is for help in building these dipoles. Also I will talk to Greg and see if I can talk him into making some switches for the line guns and see if we can have a build day on those.



Tim Slay, N4IB, North Carolina ARRL Section Manager, standing, talks with Weldon Fields, W4AJT and Dub Bridges, N4DUB, in their air conditioned tent.

Photography by Tom Forrest, N4GVK



WGHP - Fox 8 of High Point providing news coverage.



Setting up the station.



Jim Hightower, W4JLH; Larry King, WA4VEN and Dave Collins, KE4IAF, make some contact at one of the stations.



Dub Bridges, N4DUB; Greg Specner, KG4UQV and Brian Wilson, KI4LKY, set up the small tower and antenna.

... With Many Area Hams Participating



John Standberg, AJ4BT, Dan O'Connell, KJ4FWU and Jesse Lindley, N4BFD.



Steve Marks, N4SCM, talks with the WGHP Fox 8 news crew.



Tim Slay, N4IB, North Carolina ARRL Section Manager, talks with Steve marks, N4SCM.



Members of the Red Cross served the evening meal.



Dave Touvell, KN4ZO; John Doggett, AJ4DV and Dan O'Connell repair an antenna



John, AJ4BT, left and Will Ravenel, AI4VE, make some contacts using QRP.

Wiring A Power Source For Your Mobile Rig

By Bob Mays, KE4MOW

There are three ways to "power source" a mobile rig: (1) a fused line (with plug) to a cigarette lighter; (2) a fused line run and connected directly to the vehicle battery; and (3) a fused line to the vehicle's fuse block.

From this author's perspective, the cigarette lighter option is the least desirable but frequently used by new operators getting started in the hobby. The power line that feeds the lighter may vary from #12 to #20. Most dual-band radios come equipped with a #18 wire or larger. The

size will vary from vehicle to vehicle. The contact made by the lighter cord plug and the socket is not firm, secure and long lasting. Vehicle vibration will often time cause the contacts to separate. The plug "wiggles" in the socket with the metal parts losing contact.

A fused, color coded, unbroken line from the battery terminals, penetrating the firewall and secured with a strain relief, to the communications equipment being used is the optimum choice. The use of power poles on the radio end and crimp connectors soldered to color coded line

on the battery end will insure solid and secure connections.

Not to be ruled out is a fused, color coded, unbroken line from the vehicle's fuse block. Connecting to the block mounted behind or under the dash precludes penetrating the firewall and provides a solid connection and a reliable power source.

This author has most recently used and found to be most acceptable, the fuse block as a primary source. There has not been a problem---experienced or reported.

Tennessee Teen Ham Responds To Emergency, Performs CPR

It was just another day, helping out at another event. It was the third year in a row that 16 year old Cody Anderson, KI4FUV, of Harriman, Tennessee, had volunteered to help out the Roane County Amateur Radio Club (RARC) with the Run for the Child event. But it was the first time that he would help save a life.

May 30 dawned with fog in the sky. Not too hot, but the temperature would reach the mid-80s before the Sun went down. All in all, a good day for a race. Anderson made his way to the race site at the Roane State Community College, set up his equipment at Checkpoint #2 and waited for the runners to pass by. "This year started off just like the past two years," he told his local newspaper, the Roane County News. Twenty minutes later, that all changed.

Twenty minutes later as the runners started their second pass around the marked course, Anderson saw one of the runners fall down. Unlike other runners who fall down on a course, this man did not get up. After waiting about 20 seconds, Anderson left Checkpoint #2 and quickly

made his way over to the downed racer. As he did so, he used his handheld transceiver to notify his fellow club members who were at the event, "Runner down."

Sheriff's deputies were also placed along the race route. One who was near Anderson and Checkpoint #2 saw what was going on and came to assist. As Anderson raced on foot, the deputy jumped in his patrol car and drove to the fallen runner. Both reached the fallen runner in about 20 seconds.

RARC Vice President Cliff Segar, KD4GT, said that they all heard Anderson racing toward the runner, "but we just assumed someone just simply tripped and fell." But after hearing Anderson say "Roll EMS" over the radio, he knew it was much more serious.

Anderson told the ARRL. "He seemed like he had a bit of medical training, and he started taking vital signs. I was talking to Bill on my radio, letting him know what was going on."

Then the fallen runner stopped breathing.

In February, Anderson took a CPR class that another RARC club member -- Phil Newman, KE4LSH -- had organized. It was the skills he learned at that class that came into play on May 30. He started giving the man mouth-to-mouth resuscitation; the other runner started chest compressions. "We did about three sets of CPR before the Roane County Rescue guys got to us, just a second or two later" Anderson told the ARRL.

"I'm just glad I was able to take the CPR training, else I don't know what I would have done or how I would have reacted," Anderson told the County Times. Anderson efforts, along with those of the unknown runner, kept the man alive long enough for EMS to arrive and use an electronic defibrillator to restart his heart. He was eventually transported to the University of Tennessee Medical Center via Lifestar helicopter. "Last I heard," Anderson said, "was that he was doing okay." -- *Some information from the Roane County News Via ARRL*

Michigan Ham Killed in Tower Collapse At Field Day Site

ARRL - Larry Prelog, KE4PM, of Niles, Michigan, has died as the result of a tower collapse at his club's Field Day site.

According to the local "Herald-Palladium" newspaper, Prelog was helping to set up antennas for the Blossomland Amateur Radio Club's Field Day operation

Saturday when the tower he was climbing on buckled and collapsed.

The newspaper report says Prelog, 57, was a professional installer of radio systems and was using all proper safety equipment and procedures.

A club spokesman quoted in the article said "the tower failed at the base" and fell over sideways. Prelog was at the top. There are conflicting reports about the tower's height. The club says it was 30 feet tall; an initial police report had said 60 feet.

Space Shuttle Endeavour Launches; Ham to be Delivered to ISS

After lightning strikes and thunderstorms delayed the launch of the space shuttle Endeavour (STS 127) this past weekend, the spacecraft was launched Wednesday, July 15. Endeavor's 16 day mission to the International Space Station (ISS) will feature five planned spacewalks and complete the construction of the Japan Aerospace Exploration Agency's Kibo laboratory. Astronauts will attach a platform to the outside of the Japanese module that will allow experiments to be exposed to space.

Endeavor will carry a crew of seven: Mark Polansky will serve as commander and Douglas Hurley will serve as the pilot. Mission specialists are Christopher Cassidy, Thomas Marshburn, KE5HOC, David Wolf, KC5VPF, and Julie Payette, a Canadian Space Agency astronaut. The mission will deliver Timothy Kopra, KE5UDN, to the ISS as a flight engineer and science officer and return Japanese astronaut Koichi Wakata, KC5ZTA, to Earth. Hurley, Cassidy, Marshburn and Kopra will be making their first trips to space.

When Kopra arrives, there will be six astronauts on board the ISS -- all but one are licensed radio amateurs: Commander Gennady Padalka, RN3DT; Flight Engineer Michael Barratt, KD5MIJ; Flight Engineer Frank DeWinne, ON1DWN; Flight Engineer Robert Thirsk, VA3CSA, and Flight Engineer Roman Romanenko.

While on the ISS, Kopra will help conduct scientific experiments on human physiology. "We're going to look at all the different components that correspond to the human body and the effect that microgravity has on [astronauts]," he said in a NASA pre-flight interview. "It's very critical because, if we're going to spend time on the moon, which has less gravity than the Earth, or transporting to Mars, which could be a very long trip and then time on Mars, we need to understand with a lot of detail what those effects will be. So we'll be looking at the cardiovascular system, neurological system, vestibular system and we'll also be looking at some of the behavioral aspects of living in space. What happens to your sleep, for example: Can you sleep soundly, because over time

you definitely need to have sound sleep to be an effective crew member? Those are some of the examples of the things we'll be looking at that correspond to the, the human physiology side."

Kopra said he expects to "have a lot of fun" while on board the ISS: "I just spoke with the [current ISS] crew members on board recently, and after they had only been there for a couple weeks, you could tell that they're just real excited about all the work that they do on board. It's just like you talk to a kid about what they would like to do on space station, they might tell you, 'Hey, I want to float around, I want to look out the window.' You know, I intend to do a lot of both of those just as my crew members like to do."

Kopra, a 1985 graduate of West Point and a colonel in the US Army, was assigned to NASA at the Johnson Space Center in September 1998 as a vehicle integration test engineer. In this position, he primarily served as an engineering liaison for space shuttle launch operations and ISS hardware testing. He was actively involved in the contractor tests of the Extravehicular Activity (EVA) interfaces for each of the space station truss segments.

Selected as an astronaut in July 2000, Kopra began his initial training the following month. He completed two years of intensive space shuttle, space station and T-38 flight training. He then served in the Space Station Branch of the Astronaut Office where his primary focus involved the testing of crew interfaces for two ISS pressurized modules, as well as the implementation of support computers and operational Local Area Network on ISS. After completing a Russian language immersion course in Moscow, Kopra began training for a long duration space flight mission in July 2005. Since then, he has completed training at each of the international partner training sites and served as a backup crewmember to Expeditions 16 and 17.

If Endeavour's Wednesday launch were to be postponed to Thursday, the shuttle crew would cancel the fifth spacewalk, said NASA launch integration manager

Mike Moses. Showers and thunderstorms are possible Wednesday, but they may stay far enough inland to allow launch, NASA Launch Forecaster Scott McCormick. If Wednesday's launch is scrubbed, Thursday would be the next opportunity; however, showers and thunderstorms are expected in the launch area, and there is a 60 percent chance that weather would prevent a launch that day, McCormick said. If Endeavour isn't able to launch by Thursday, then Sunday, July 26 would be the next opportunity before trying again.

Kopra will return to Earth on space shuttle

Discovery (STS 128), due to launch this August. That mission will bring mission specialist Nicole Stott, KE5GJN, to the ISS. Discovery will carry the Leonardo Multi-Purpose Logistics Module containing life support racks and science racks, as well as the Lightweight Multi-Purpose Experiment Support Structure Carrier. -- *Information provided by NASA*



Flight Engineer Timothy Kopra, KE5UDN, will travel to the International Space Station on space shuttle Endeavour, set to launch at 6:03 PM on Wednesday, July 15.



Flight Engineer Koichi Wakata, KC5ZTA, has been on the ISS since March. He will return to Earth on Endeavor, scheduled to land on July 31.

Area Activities

FOURTH MONDAY – at 6:30 PM, the Greensboro Amateur Radio Association have their regular monthly meeting at the Golden Corral, 4404 Landview Dr, Greensboro, NC 27407, off Wendover Ave, near Sam's Club. Please plan to gather at 6:30 PM for dinner. The meeting is scheduled to start at 7:15 PM

CLUB NETS:

SUNDAYS – weekly at 9 PM, the **GARA News and Information Net**. This net features NewsLine and is on the 145.150, W4GSO repeater. Roy Smith, N4BYU is always looking for net controls. Contact him if you would like to help.

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

TUESDAYS – at 8 PM, the **2 Meter SSB Net** meets on 144.225 Mhz. USB. Chris Thompson, K4HC is the net control station. (Not operational present time)

WEDNESDAYS – The **Guilford Amateur Society** holds their weekly net on the 145.250, W4GG repeater with an 88.5 Hz. tone. Jim Hightower, W4JLH is the net control.

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

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 7 PM.

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

THURSDAY – at 11:15 AM, 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 8 PM (approximately) Greensboro Hams get together for coffee.

Technical Forum Sundays at 7:30
145.15 repeater

The W4VEC Testing Schedule May to Dec. 2009

August	8, 2009
September	12, 2009
October	10, 2009
November	14, 2009
December	12, 2009

**Location: #3 Centerview Dr, Hickory
Building, Greensboro, NC 27407**

Time: 9:00 A.M.

Contact: Glenda Nicholson
Phone: 336-674-3810
E-mail: ag4nc@bellsouth.net

Save The Date

The annual **Doggett cook-out**
will be **Sept. 26, 2009.**
Save the date and plan to
attend for some **yummy BBQ**
More information to come.

GARA REPEATERS

145.150 Mhz - minus offset - 100 Hz. Tone

442.8625 Mhz. + offset - Digital D-Star

Web: www.w4gso.org

Greensboro Amateur Radio Association

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