



The Greensboro Amateur Radio Association

# Feed Line

Providing Amateur Radio news for the Triad



Brian Wilson, NX4U, Editor

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## Grand Fondo Bike Ride with Friends

By Tom Bertolino, KB1P

The Grand Fondo Bike Ride with Friends was held on Saturday, October 12th. The event went off at 0900 without any problems. There were over 200 riders which traveled over the four courses ranging from 11 miles to 100 miles. The weather however did not cooperate. At the start of the ride it was overcast and round 1300 a heavy mist started which turned into a light rain by the end of the ride causing concern about the rider's safety. Constant weather updates by Hams stations throughout the ride kept the ride director updated on the road conditions. Despite the weather conditions a great time was had by all.

At the end of the Grand Fondo Laura Kilpatrick, the event director, came up to me and stated that she could not have run such a successful and safe ride without the help and communications support that she and the event received from GARA. This comment could not have happen without help and expertise of the GARA members who did an outstanding job. Their names were: John Strandberg, W4DX; Chan White, KJ4ADX; Sasha Varlamov, AK4KL; Stan Varlamov, KK4BMD; Linda Worland, KK4LHH; Greg Spencer, KG4UQV; Patrick Moore, K2CPR; Ralph Degenova, W4RVD; Layman Idol, KK4LLY; Ken Worland, KK4GSM; and Allen Kaplan, W1AEL. To them, "A job well done."

Thank you all for volunteering for this event, and I am looking forward to working you again next year.

**Pictured Left to right: Linda Worland, KK4LHH; Allen Kaplan, W1AEL, and Layman Idol, KK4LLY stopping by Net control during the event.**



## This Month's Program

Our October Meeting will be held on Monday, October 28th at 7:00 pm in Captain Bills Seafood & Steakhouse located at 6108 West Market Street in Greensboro. Come early have dinner and catch up on the latest club info, gossip, and connect faces to call signs.

The presentation topic is Message Traffic, by Roy Smith, N4BYU. He will discuss who, when, where, how, and why of Message Trafficking.

Next month is club elections. The Board of Directors are elected to represent you. If you know of someone who will make a good club official and you want to nominate him/her for certain position or if you are not happy with the direction of the club and want to run for a Board position please notify the nomination committee. They can be reached by sending an email to gara.nom.com@gmail.com.

As a reminder, Club membership runs from January to December. Club dues will be due soon. Don't wait until the last minute. Craig Bondy, N8STA, GARA's treasurer will have the both the Club and ARRL forms with him. See you at the meeting.

### NEXT MEETING Monday, October 28

The next meeting of the Greensboro Amateur Radio Association will be Monday, October 28th, at Captain Bill's Seafood & Steakhouse, 6108 West Market Street, Greensboro, NC 27409, between Guilford College Road and Swing Road. This program for this month's meeting will be on Message Traffic by Roy Smith, N4BYU.

## GARA Meeting Minutes

### Regular Meeting Minutes September 23, 2013

The Greensboro Amateur Radio Association held their monthly meeting on September 23, 2013, at Captain Bills Seafood Restaurant located at 6108 west Market Street in Greensboro.

Tom Bertolino, KB1P, called the meeting to order at 7:15pm.

Tom asked that we identify ourselves. He then congratulated the hams who were recently licensed or upgraded. Tom reported that the Open House normally scheduled for this time of year has been canceled due to a scheduling problem with the venue and the Gran Fondo Bike Ride.

#### OFFICER REPORTS

Todd Smith, AK4TS, said that GARA treasurer Craig Bondy, N8STA, could not be at the meeting so Todd gave the report for him. Todd also said he would take dues.

Chan White, KJ4ADX, and Greg Spencer, KG4UQV, had nothing to report.

Tom said that he needs some volunteers for a nominating committee.

David Macchiarolo, AJ4TF, said that he hoped everyone read the newsletter. David also said that the engineering committee met at the repeater site recently and did testing of our equipment as well as the Generator and UPS that powers our equipment. David said that everything looked good.

David said that while out in California courtesy of his employer he took some spare time to visit the Elecraft radio plant. David said the owner gave him a tour of the facilities.

David spoke about the N4G special event station coming up in March. We discussed what to do for next year's event.

David asked for a resolution that GARA commit to supporting the N4G station again in 2014, Patrick Moore K2CPR made a motion, Tom Bertolino KB1P seconded. The motion passed.

Tom introduced Josh Fox, KG4SCZ, who gave a presentation on the Delorm in Reach satellite communicator.

Tom asked for volunteers for the Gran Fondo bike ride coming up.

Alan Kaplan, W1AEL, made a motion to accept the minutes, David Macchiarolo seconded. The motion passed.

The meeting ended at 8:05pm.

*Respectfully submitted by Greg Spencer, KG4UQV, GARA Secretary.*



#### The Greensboro Amateur Radio Association

President Donna Ferguson, KD4WIK  
Vice-President Thomas Bertolino, KB1P  
Treasurer Craig Bondy, N8STA  
Secretary Greg Spencer, KG4UQV  
Financial Todd Smith, AK4TS  
Engineering Chair David Macchiarolo, AJ4TF  
Operations Roy Smith, N4BYU  
Member-at-Large Gaither Frye, W4GCF  
Member-at-Large Chan White, KJ4ADX  
*Appointed Position:*  
Webmaster & Newsletter Editor  
Brian Wilson, NX4U

The Feed Line is ©2012 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.

## For Sale

My name is Gene, I am a ham operator, or I should say I was. My call is WB3HMY and I am originally from Conshohocken, PA. I came to Greensboro in 1990. I have a FT101E Transceiver and all the original equipment and manuals that came with it. I also have a D104 Mike and a lot of other gear, such as cable, a meter, 80 meter wire antenna and more. We have recently moved and I am trying to downsize and don't want this equipment to just sit there. I am hoping someone will be interested in it. It is still in very good shape, but have not used it for about 5 years. I am sure some new ham operator (or old) can get use out of it. It goes from 10 meters up to 160. I am not sure what it is worth and am open to reasonable offers. I can be contacted through email mandar93fam@bellsouth.net or by phone 336-706-5171.

## Board Meeting Minutes

The GARA board of directors held their monthly meeting on October 14, 2013, at Captain Bills. The members present were: Donna Ferguson, KD4WIK; Craig Bondy, N8STA; Chan White, KJ4ADX; Tom Bertolino, KB1P; Todd Smith, AK4TS; and Greg Spencer, KG4UQV.

Donna opened the meeting at 7:07pm.

### OFFICER REPORTS

Donna brought up the N4G proposal that David Macchiarolo, AJ4TF, sent to the board. Donna noted that the board members listed on the proposal will likely change before the event and it should be changed to reflect that these are the current board members through the end of the year. Donna made a motion to make the change in the proposal, Chan seconded and the motion passed with all in favor.

Todd said that he has been in contact with the organizers of a hacker space group that is getting started in Greensboro. Todd said that he is planning on attending one of their meetings coming up soon. Todd said he will write an article for the newsletter about the hacker space group.

Todd said he is working on getting a lower cost for internet at the repeater site.

Tom said that he has not received anything on his information request for 501C3 due to the government shutdown. We discussed whether we need to file a report of income.

Craig gave the treasury report and said that we are at 90 paid members at this time.

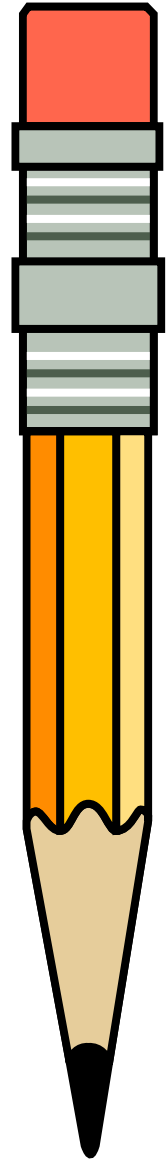
Tom said we need to start thinking about programs for next year.

Tom asked if there has been any word from the nominating committee, Donna said not yet.

Donna made a motion to adjourn, Chan seconded and the motion passed.

The meeting ended at 8:07pm.

*Respectfully submitted by Greg Spencer, KG4UQV, GARA Secretary.*



## New Bureau Address N4 W4 K4

Carolina DX Association  
W4 K4 N4 QSL Bureau, PMB#305  
631 Brawley School Rd STE 200B  
Mooresville, NC 28117-6209

## From the President's Shack

*From Donna Ferguson, KD4WIK*

### HAMMING IT UP WITH THE GIRL SCOUTS

Recently, I was presented with an opportunity that I just couldn't say "No" to. I was given the opportunity to teach girl scouts about ham radio.

Raymond "Woody" Woodson, K3VSA, has a daughter that was attending a Girl Scout Camporee in Archdale and asked if I would like to come and talk to the scouts about ham radio. I jumped at the chance to speak to the younger generation about ham radio. Of course, Robert and I went together on the motorcycle.

There were not that many girls there but the ones that we spoke to were very excited about ham radio. We were actually one of the stations that the girls could come to and try out to earn points. Robert and I were stationed at the Alamo shelter with our 2 meter HTs. We demonstrated a local contact and an Echo link contact. Many thanks go to Steve Chapman, KK4RCI and David Honeycutt, N4AXV for their help with our demonstrations. Steve was our Echolink contact while he was driving through New Mexico and Texas and David was our local contact, stationed just over in Pleasant Garden.

As the girls came to our station, we talked to them about how ham radio works, what repeaters are and how they work, and then let them talk to the hams on the other end of the radio. We also told them about some of the fascinating things about ham radio like making contacts around the world and above the earth.

We were told afterwards that all the girls that we spoke to were thrilled and had a great time. Robert and I had an absolute blast! These types of opportunities are a great way to demonstrate ham radio and pass on our enthusiasm to the next generation and keep the hobby alive.

Until Next Month, 73s

Donna, KD4WIK



**Girl Scouts®**

## Info from ARRL

### YOUR LEAGUE: ARRL ON-LINE AUCTION NOW UNDERWAY!

Let the bidding begin! The 8th annual ARRL On-Line Auction is now underway. The 2013 Auction will run through October 31.

This year's auction offers 229 items, including transceivers, amplifiers, antenna tuners, test gear, hand-held transceivers, and QST "Product Review" equipment. A number of items were donated by many of our business partners. The selection also includes some vintage ham gear as well as several rare books.

Proceeds from the yearly On-Line Auction benefit ARRL education programs including activities to license new hams, strengthen Amateur Radio's emergency service training, offer continuing technical and operating education, and create instructional materials.

Bidders need to register. If you have participated in a past ARRL On-Line Auction, you will be able to retrieve your auction user ID and password. If you are new to the ARRL On-Line Auction, you will need to follow the simple registration process.

In order to fully enjoy the ARRL On-Line Auction, bidders should read the auction policies.





## 5BDXCC From an Urban Lot

*By Chris Thompson, K4HC*

I'm starting to write this article on 24 December, 2012 - before actually reaching the goal stated in the title, but the end result is in sight. On that day, I set a goal for myself of completing 5 Band DXCC in 2013.

Like many (most?) hams active on HF, I've always at least dabbled in working DX when the opportunity presented itself. I've been licensed since 1976, at age 15. As a teenager, my activities on HF could probably be best described as "random". After High School, I joined the Coast Guard and began a 20 year career in that service, moving often every year. I considered myself extremely fortunate when I could erect a dipole between the trees without risking the wrath of neighbors or the landlord. I retired from the Coast Guard in 2001 and moved back to my hometown of Greensboro.

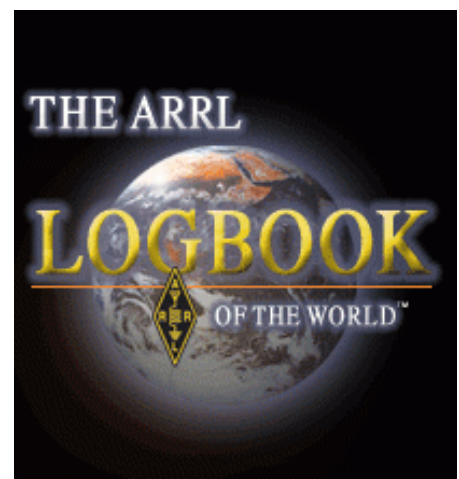
I still use a dipole as my main HF antenna – about 115 ft long and mounted somewhat sloping due to the arrangement of the available trees – about 50 ft high in the back yard, and about 35 ft high in the front yard. I have also used a vertical at times to augment the horizontal antenna. I run an ICOM 7000 at 100 watts – a decent radio, but nothing stellar. I have local interference that raises my noise floor, and suffer from occasional RFI in the shack, mostly due to the fact the antenna runs directly overhead. In short – a fairly common urban station on a city lot. No tower, no amplifier; a pipsqueak or pop-gun (as opposed to a little-pistol or big-gun "contest" station).

Flash-forward to February, 2011. I was looking for a way to invigorate my amateur activities. My HF activity was sporadic – usually between 100 and 200 contacts per year, but some years, many fewer. I had signed up for Logbook of the World (LoTW) shortly after the ARRL introduced it in 2003, and all of my logs since acquiring my vanity call in late 1999 were kept electronically, and uploaded there. I've lost my old logs from before then – moving all the time sucks! I had 62 countries confirmed on LoTW, and decided I was going to actively pursue DXCC after 35 years in the hobby.

This turned into – not quite an obsession – but it is the current primary focus of my amateur activity. I tend to "play" in each of the major contests (CQWW, CQ WPX, ARRL DX, IARU HF Championship), but over the past three years, I haven't spent more than 8 hours during a 48 hour contest in front of the radio – a few hours Friday night, a few hours Saturday, and a few hours on Sunday – schedule permitting. I also tend to be aware of ongoing DXPeditions, and try to work them if possible. Didn't get South Sudan (HUGE pileups), and there are several others I missed. But I did pick up some goodies – like Pitcairn Island on 40m CW about 4:00 am local one night I couldn't sleep.

I completed Mixed DXCC within a few months, and noticed I was only a few short for CW DXCC, so that was my next goal. After getting that issued in January 2012, I noticed again that I was making significant progress towards Digital DXCC, so I focused my efforts there. Digital DXCC was awarded in October, 2012 – and I'm pretty proud about that one – number 3347 issued since it was created in 1976 – a reasonably exclusive group.

I've been using Club Log ([www.clublog.org](http://www.clublog.org)) as a tool to help me keep track of things. The LoTW page shows confirmations only, which is where the rubber meets the road in an award program, of course; but is an incomplete picture. Club Log shows your logged contacts, and keeps track of your confirmed countries, and what's missing, suggesting QSL's for missing slots or countries – even showing which of your contacts use LoTW. Up until this point, I hadn't really concentrated on "band-countries" – just getting a country confirmed once – on any band – was enough to excite me. With these tools, I realized that 5BDXCC was within a reasonable grasp –



see 5BDXCC, page 6

## 5BDXCC (continued from page 5)

100 countries confirmed on each of the traditional HF bands – 80, 40, 20, 15 and 10 meters. I had worked over 100 countries on each band 40-10 meters, but still lacked confirmations for all of those.

As of Christmas Eve, 2012, my current totals were

Band	80	40	20	15	10
QSL's	26	80	96	94	70
Worked	62	120	146	125	109

As you can see, I was really close on 20 and 15, and within striking distance on 40 and 10. 80 meters was my focus then, as it's a "winter" band (lower noise, longer periods of darkness for DX propagation). I hoped that the other bands would fall into place with general activity and a few more contests – but if not, I'd shift gears as the numbers got closer.

A word on my operational philosophy I think is in order. I'm not a specialist, not typically focusing on one mode, or band, or style of operating. Over the years in general, and in my DXCC quest in particular, I have been an opportunist – I work 'em where I can hear 'em. That includes CW, JT65, RTTY, PSK, and SSB; but the "weak signal" modes of CW, JT65 and PSK31 are my "go-to" modes. I'm a pipsqueak, remember? I've used the WARC bands, operated during contests, evenings and weekends when I had the time. I use online packet clusters, but I also tune around on the bands, looking for unspotted stations. While I don't necessarily shy away from the pileups, that's often the best time to find other lonely (but needed) DX for my log. Face it – I'm not going to bull my way through a big pileup with 100 watts and a wire – I most often have to call when others aren't. That requires a certain amount of independent thought and NOT following the crowd.

I wouldn't want you to think that I spend ALL my time in front of the radio. While I do have an understanding wife, who allows me a good deal of freedom in my off time to indulge my interests, I still hold down a full-time job, and have a household and the normal assorted demands on my time.

Getting confirmation for the QSO is the important part of the equation. My preferred method is Logbook of the World (LoTW) – an electronic method of confirmation operated by the ARRL. It is also the ONLY electronic method accepted by the ARRL for the DXCC program. My confirmation rate for all HF contacts on LoTW runs at about 50 percent. However, I've generally noted the following groups tend to upload to LoTW more frequently than the casual operator: RTTY, JT65, Contesters, and DXPeditions. Overall, JT65 and RTTY confirmations are at about 70 percent, CW confirmations run almost 50 percent, but SSB and PSK31 QSO's only confirm at about a 30 percent rate for me. I think you can guess on which modes I tended to concentrate my efforts.

Of course, that leaves about half of my contacts that DON'T use LoTW. If it's in a "common" country, I generally just work another station. Sometimes, however, you just have to chase after the card. About 5 percent of my needed band-countries were confirmed by QSL cards, with the remainder confirmed by LoTW. While it certainly is possible to ONLY use LoTW, it will slow the process if you should choose to go that route.

There have been other articles and sidebars (e.g. *QST*, April 2012, pp 12) written recently about individuals reaching 5BDXCC, where the author spoke about either adding or upgrading an amplifier, especially for 80 meter contacts. I'm here to tell you it truly isn't necessary to have an amplifier – as ALL of my contacts have been made with 100 watts or less, and with single-element antennas – either a doublet or a vertical. And while I'm certainly not the first to accomplish this achievement with a similar setup, I think it is a noteworthy accomplishment. Therefore, it is with a great deal of pride that I announce that 5 Band DXCC number 7,796 was awarded to K4HC on 11 October, 2013.



## Congratulations! You 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 Roy Smith, N4BYU, and a group of volunteers, each month there are new or upgraded hams in our area.

In September, there was one (1) who passed their test(s) and earned either their Technician, General or Extra class license.

Next month's testing session will be on November 9th 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 Roy Smith at (336) 312-0647 or by email at [n4byu@arrl.net](mailto:n4byu@arrl.net)

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 Bob Williams, KB4TWG, email [robwilliams@northstate.net](mailto:robwilliams@northstate.net), phone (cell), 336-812-5500.

**All Photos Courtesy of Roy Smith, N4BYU**



*Richard German, KK4PIP - Passed General*



*During the testing session the Volunteer Examiners watch while the participants work to answer the questions correctly.*



## Engineering Update for October, 2013

From David Macchiarolo, AJ4TF

On Saturday, Sept. 14, the GARA engineering committee, myself, AJ4TF, along with Layman KK4LLY, Ken KK4GSM, and Roy N4BYU performed some routine maintenance and checks on the W4GSO repeaters during a Repeater Work Day. The goals were to do the periodic maintenance and perform some performance testing (mainly on the emergency power setup) to ensure everything was working as it should. The other purpose was to do some training on these procedures with KK4LLY and KK4GSM (as members of the W4GSO Engineering Committee) and some refresher training for N4BYU (the repeater trustee). N8STA, the other member of the Engineering Committee, was not able to join us for this session. Here are the tasks that we accomplished:



- \* D-Star gateway operating system and software backup
- \* D-Controller software backup
- \* Demonstrated VHF repeater controller loader PC and loading software
- \* Measured 12V backup battery voltage on VHF repeater controller (This battery was replaced in 2012)
- \* Using the club's Bird 4304 directional power meter, measured forward and reverse power on the VHF antenna (downstream of the duplexer) during operation to calculate VSWR. The calculation was 1.2 : 1.



- \* KK4GSM (using his MFJ 269 antenna analyzer) measured VSWR of 1.1 : 1 and characteristic impedance of 49 ohms.
- \* Performed a visual inspection from the ground (with binoculars) of the VHF antenna
- \* Using the club's Bird 4304 directional power meter, measured forward and reverse power on the UHF antenna (downstream of the duplexer) during operation to calculate VSWR. The calculation was 1.0 : 1.
- \* Performed a visual inspection from the ground (with binoculars) of the UHF antenna
- \* Checked UPS holdup time on D-Star machine Due to an outage we had during August, there was interest in making sure that the UPS that holds up the D-Star computers, router, and DSL modem was functioning properly. To do this, we shut off the gateway computer, leaving the D-Controller, router, and modem on. We then pulled the plug on the cabinet, and ran it on the UPS. After 10 minutes of run time, we restored power to it. Given that only half of the load was on it, we know that we have a minimum of 5 minutes run time which is more than enough to carry it until the generator starts. The battery in this UPS was replaced in 2012. The small UPS which holds up the RLC2 VHF repeater controller also had its battery replaced in 2012, and was verified to operate correctly during the generator test below.

- \* Generator Test

see Engineering, page 8



## Engineering (continued from page 7)



We also wanted to test the backup generator, as there was some concern about whether it will reliably start. We cut the utility power to the equipment building by opening the breakers on the service entrance panel. The generator started within 10 seconds, and the automatic transfer switch flipped over to the generator in less than 30 seconds. While it was running, we verified that the outlets our equipment is connected to were being powered by the generator. We then restored utility power, and the transfer switch flipped back (after a programmed delay, about 2 minutes) and the generator shut down after the cool-down timer expired (5 minutes).

- \* Inspect all grounding panels and cable entrances, all looked normal.

- \* Listened in the area for VHF interference using directional antenna Using a tape-measure 2 meter yagi, and my IC-92 HT (set to 144.55, repeater input frequency, and AM mode), we scanned around the area to see if there was any interference that was audible. We swept around the area from several directions, and there does appear to be a noise peak coming from one of the commercial cellular shelters at the base of the tower. Whether this is getting into the repeater input is not known. We have contacted the equipment owner and they will send someone out with a spectrum analyzer sometime in the next month to see if something is amiss with their equipment. Of course, cellular equipment operates in a completely different frequency but there could be something inside the shelter (battery charger, alarm system, perhaps?) that may be putting out noise on the 2 meter band.

- \* Verified that all of the coax connections were tight, and buttoned everything up.

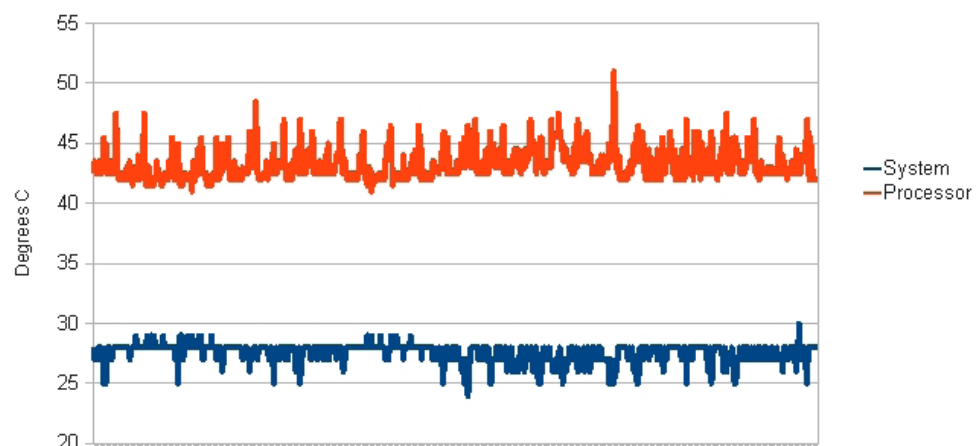
I also reviewed some engineering data from the D-Star repeater. As you might recall, this repeater contains two computers. One of the computers, which is running Linux, has a script on it to periodically (once per hour) record the internal temperature of the computer and CPU chip. While not a definitive measure of the internal temperature of the equipment shelter, it is, nevertheless, what I call an engineering indicator. I pulled the log data for 2013, and created a couple of illustrative charts. The first chart was the previous 30 days, and the second chart is the 24 hours around a 51 degree spike in CPU temperatures.

Not sure what caused the CPU to get busier than normal, perhaps the operating system downloaded some updates that caused it to work harder?

As always, if you have any questions or concerns about your club repeaters, either VHF or D-Star, or any other technical topic, please contact me at [aj4tf@arrl.net](mailto:aj4tf@arrl.net)

W4GSO Gateway System Temperatures

8/12/2013 - 9/12/2013



## Calendar of Events

- Nov 2 N4AR Meeting (0800 at Denny's, Thomasville, NC 109 and I 85)  
NC QSO Party by Marty Young
- Nov 9 VE Session (Hinshaw United Methodist Church, Greensboro)
- Nov 11 GARA Board Meeting
- Nov 23 Ham Expo (Greensboro Science Center)
- Nov 23 VE Session (Red Cross Building, High Point)
- Nov 25 GARA General Meeting (Captain Bill's Seafood & Steakhouse) Club Elections
- Dec 3 Christmas Party (Bonnie Kay Seafood Restaurant on Spur Road)
- Dec 9 GARA Board Meeting
- Dec 14 VE Session (Hinshaw United Methodist Church, Greensboro)
- Jan 11 VE Session (Hinshaw United Methodist Church, Greensboro)
- Jan 13 GARA Board Meeting
- Jan 25 VE Session (Red Cross Building, High Point)
- Jan 27 GARA General Meeting (Captain Bill's Seafood & Steakhouse, Greensboro)
- Feb 8 VE Session (Hinshaw United Methodist Church, Greensboro)
- Feb 10 GARA Board Meeting
- Feb 22 VE Session (Red Cross Building, High Point)
- Feb 24 GARA General Meeting (Captain Bill's Seafood & Steakhouse, Greensboro)
- Mar 8 VE Session (Hinshaw United Methodist Church, Greensboro)
- Mar 14-16 N4G Special Event (Guilford Courthouse National Military Park)
- Mar 24 GARA General Meeting (Captain Bill's Seafood & Steakhouse, Greensboro)
- Mar 22 VE Session (Red Cross Building, High Point)

This 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 6:30pm, the Greensboro Amateur Radio Association have their regular monthly meeting at Captain Bill's Seafood & Steakhouse, 6108 West Market St., Greensboro, NC 27409. Please plan to gather at 6:30pm for dinner. The meeting is scheduled to start at 7:15pm

## CLUB NETS:

**SUNDAYS** – at 7:30pm, the **Technical Forum** on the 145.150;

- at 9pm, 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.

**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 17C)

**WEDNESDAYS** – at 8:30pm, **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.

## The W4VEC Testing Schedule Oct. 2013 to Apr. 2014

**November 9, 2013**  
**December 14, 2013**  
**January 11, 2014**  
**February 8, 2014**  
**March 15, 2014**  
**April 12, 2014**

**Location:** Hinshaw United Methodist Church, 4501 High Point Road, Greensboro, NC 27407,

**Time:** 9:00am

**Contact:** Roy Smith

**Phone:** (336) 312-0647

**E-mail:** n4byu@arrl.net

## GARA REPEATERS

145.150 MHz - offset, 100 Hz. tone

442.8625 MHz. + offset, Digital D-Star



**Greensboro Amateur Radio Association**

P.O. Box 7054

Greensboro, NC 27417

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

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