

Feed Line



Volume 15, No 2

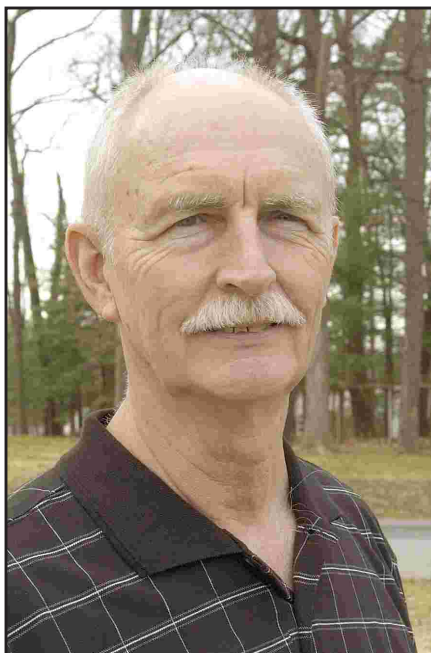
Web Site: www.w4gso.org

February, 2005

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Meet Our Members - Jim Hightower, W4JLH



Jim Hightower, W4JLH

Jim Hightower, W4JLH, is our featured member this month. Jim was introduced to Ham Radio in 1961 by Don Harris, W4BUZ, when Don and Jim worked together at radio station WPET.

Jim recalls, "He took me to the old Greensboro Radio club building near the Greensboro airport and introduced me to several of the 'old timers.'

"At the time I neither had the time nor the funds to get involved in amateur Radio. In 1993, while working at the Greensboro Police Department, Gary Hastings,

KE4IAN, had just received his Technician license and showed me the HT he was using." Jim said.

After that Jim was interested and held his general class license for eleven years. He operates a Kenwood TS840S, with a G5RV antenna and tuner. He said his favorite band is 20 meters for the world-wide contacts. another favorite band is the 40 meter band for the stability in the daytime. In addition to the HF gear, he uses a Kenwood dualbander and Alinco mobiles. He retired from the Greensboro Police Department as the Criminal Investigator Lieutenant.

Jim's favorite club activity is field days. He also is the trustee of the W4GG, 145.250 repeater. He monitors the "25" machine a great deal and is an ARES member, participating in several activations.

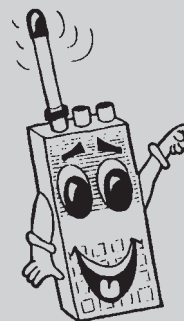
Jim's background includes being a 1974 graduate of Guilford College, University of Louisville, Southern Police Institute in 1982. He is a licensed private investigator, enjoys camping in his Winnebago, bowling and is also a licensed private pilot.

He and his wife Judy have one son and daughter.

Special Program Guest at next Meeting March 28

The next meeting of the Greensboro Amateur Radio Association will be held at the Golden Corral Steak House off Wendover.

This month's special program will be presented by Allen Kaplan, WIAEL, of Sevierville, TN. Allen is retired from T e n T e c , makers of popular HF radios. He will share his ideas on "The Difference Between a \$ 1 5 0 0 Transceiver and a \$3500 Model". He's also slated to bring some radios.



If you'd like to eat be there at 6:30 with the meeting beginning at about 7:15.

Please attend to discuss plans for a picnic "pig pickin'" and a fox hunt.

Invite a friend to join us for this special guest.

Tech Tip On Page 6



GARA Meeting Minutes

REGULAR MEETING

February 28, 2005

The regular monthly meeting of the Greensboro Amateur Radio Association was held at the Golden Corral Restaurant Monday evening February 28 at 7:15 PM with 16 members present and seven visitors.

The meeting was called to order by President Lee Wimbs, W1MBS. He asked for a moment

of silence and asked those present to remember silent keys John Shultz, K4JBS and Ray Huff, NC4H.

President Wimbs noted visitors present. The minutes of the previous meeting were approved as printed in the "Feed Line."

There was no old business reported. Committee reports were presented. Vice President John Doggett was not present. Treasurer Ernie Wall, NC4EW, reported all was in order. Al Allred, K4ZKQ, reported on the financial status, all was in order. Secretary Tom Forrest, N4GVK, said that activity was normal. Tom also reported on the new GARA domain for the website. The new address for the club website will be www.w4gso.org effective March 1. The new domain host will allow for more options to be used on the site that we presently do not have. In addition, we will be gaining much more server space. The new e-mail address will be info@w4gso.org. He also reported on the newsletter and requested articles.

Engineering Committee report was given by Arch, KT4AT. He said the UHF repeater may be ready sometime mid March. He added that there was still some intermod and this was being investigated. The duplexer will also be rotated in the shack.

Operations Chairman and repeater trustee Roy Smith, N4BYU, had no report. Members-at-large, Clark Doggett, KG4HOM had no report and Mark Robertson, KG4STP, was not present.

President Wimbs, once again spoke briefly about upcoming club activities for 2005. He strongly encouraged members to volunteer for events and represent the club. He stated that the sign-up sheet had received very little attention at the January meeting.

The program for the evening was given by John Hamilton, NC4JH, Area Skywarn Coordinator. John gave a very nice PowerPoint presentation on Skywarn activities beginning with a short history of Skywarn in 1984. He continued with the NC ARRL organizational chart and state coverage area districts. John also discussed the modes of Skywarn: standby, active and emergency, along with the criteria used for reporting weather. He summed up with interesting radar images and major historical storm photos. He noted the website for the area Skywarn: www.triadskywarn.com.

At the conclusion of the talk John answered questions. Members expressed their thanks for a very educational and enjoyable program.

There being no further business, the meeting was adjourned.

Tom Forrest, N4GVK, Secretary

GARA OFFICERS

President

Lee Wimbs, W1MBS

Vice President

John Doggett, KI4BMS

Secretary

Tom Forrest, N4GVK

Treasurer

Ernie Wall, NC4EW

Financial Officer

Al Allred, K4ZKQ

Engineering

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Operations

Roy Smith, N4BYU

Members At Large

Clark Doggett, KG4HOM

Mark Robertson, KG4STP

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from Lee Wimbs, W1MBS, GARA President

A Note from the President

"Take a moment to consider what you can do to help your club for it's future existence."

Last week Sheari and I were walking along a sidewalk and I made a comment about some flowers I saw. To me these were just some colorful flowers that caught my attention. Sheari told me they were roses. Then she added, they were just not roses, they were Lenten Roses. Another name that would clarify they were different, different from all the other roses growing in gardens and along sidewalks. Just a unique name to make this rose stand out from all the other.

So what makes this rose different? In 1593 Christopher Marlowe wrote "And I will make

thee beds of roses, And a thousand fragrant posies." This is a little difficult to translate until William Shakespeare wrote "What's in a name? That which we call a rose by any other word would smell as sweet."

What makes our club, Greensboro Amateur Radio Association, different from all the clubs in this area? Or different from all the clubs across the nation? What makes our name different, unique from all the others?

As of March 4, 2005, the ARRL had 2,161 Amateur Radio Clubs listed in their database. There are four (4) within the Greensboro area. What makes GARA, our club, different? Why be a member of this club? Listed on the website for ARRL is Greensboro Amateur Radio Association . We are listed as providing General Interest , Repeater , and Public Service . Also noted is that we provide Help for Newcomers , and Entry-level classes .

So what makes our club special? Do we provide the

services and help stated by the ARRL? What has our club done to promote itself, or to promote Amateur Radio? What can we do to promote Amateur radio and to attract fellow hams to our club?

This is your club. Your club, GARA, will be recognized. It will be known for what it does.

It will also be know for what it does not do. Which recognition do you want to be associated with GARA? We need to be known as GARA, the Greensboro Amateur Radio Association, a radio club that has a positive commitment to Amateur radio.

Now it is up to you. Do you want to travel to Mount Mitchell? When do we conduct radio classes? Will you invite your family to our summer picnic? Can you bring someone with you to the next Fox Hunt? What about the next project we construct as a club?

Make the club name different. Make GARA a great name in Amateur Radio.

Lee, W1MBS

Nextel Agrees To Plan Ending Interference



Nextel Communications has agreed to a plan by federal regulators aimed at ending the interference from Nextel cell phones . Interference that disrupts public safety communication systems in hundreds of communities.

Under the agreement, Nextel will give up spectrum in the 800 MHz band in exchange for new bandspace in the 1.9 Gigahertz range where other major wireless carriers operate. In return Nextel will pay \$1.3 billion for relocating current users and clearing its new airwaves. It will also pay the government about \$1.5 billion for the new spectrum.

The multi-billion-dollar

agreement ends a long process aimed at eliminating cell phone interference that in some cases left police, fire and other emergency personnel unable to communicate.

To date there have been no reports that such interference caused injuries or deaths, although public safety officials have said personnel are endangered whenever they respond to a call and cannot communicate. (R-Comm - via AR NewsLine)

New Fees May Cause Increase For Shelby Hamfest Attendees

(EHam News Web Site edited from reports posted there)

According to a story in the Shelby, N.C., Star by staff writer Amelia Townsend, a new fee structure introduced by new management of the Cleveland County Fairgrounds could jeopardize the site as the location of the ever-popular Shelby Hamfest.

A new fee structure introduced last month changes how clients are charged for the use of the fairgrounds. The new structure charges separately for the grounds, the buildings, tables, chairs, etc.

The new fee structure was developed by new fairground

manager Bill Edmondson. Edmondson replaced longtime manager Joe Goforth at the end of last season.

Edmondson told the newspaper he is trying to make sure the fairgrounds has enough money coming in to pay its expenses during the off season. The Shelby Hamfest and Relay For Life are the two largest off-season events held at the fairgrounds, the paper said.

Former manager Goforth said he charged the Hamfest a flat fee then added fees for services and took a percentage of the rental fees for recreational vehicle hookups.

According to the story, the dispute led the 2005 Hamfest chairman to resign in protest, as the new fees will increase the club's cost for putting on the 'fest.

With prices going up on most items lately, would a small increase in ticket and table cost break an attendees budge? I would hope not. Let's hope the the hamfest mangement can work out an agreement to continue the hamfest.

The Shelby Hamfest is on labor Day weekend, this year being September 3-4.

For the full story, visit the Shelby Star Web site : <http://www.shelbystar.com>.

Engineering Report

By Arch, KT4AT, Engineering Chairman

UHF Preamps: As mentioned last month, the preamp is key for the UHF machine performance. I had available 6 preamps for characterization: two original GE design models (1975), two Rev B GE design models (1985), and two Advanced Receiver Research (ARR) identical models. Without going into all the technical details, which are available, the following conclusions can be drawn:

The GE types, both the original and the more recent Rev B designs, are just about worth the trash can. Those preamps use a bipolar transistor from the seventies, which is very noisy. The dynamic range is not too good either. And, this thing is not

modifiable. The original Mastr2 GE preamp on VHF still can play a role, especially after modifications for dynamic range. But, the UHF one is useless, and will result in a deaf machine (with intermod). I will put them in the Mastr2, but will leave them unconnected, as backups.

The ARR model uses a Mitsubishi GaAs FET, which has acceptable noise. However, the dynamic range is too low to deal with the signal levels at the site. This can be partly corrected with a cavity. The gain of this preamp is way too high, and an attenuator may have to be placed in the output.

I took one of the ARR and exchanged the transistor with a

more recent NEC Heterojunction GaAs FET. This improved both noise and dynamic range, but not enough to avoid the cavity.

I also spent a couple of days toying on the computer with the NEC transistor. I think I have a closed-loop design which may meet dynamic range without cavity. But, this is for the future. We will start with a cavity and either ARR types.

Helical filters: I have seven helical filters, and I opened 6 of them. Sounds like GE had a manufacturing repeatability problem with the attachment of the input and output lugs. On that design, those lugs have to be positioned exactly at 45 degree angle from the grounded side. GE practiced hit and miss on that: assembly is 45 degrees plus and minus 20. This creates tremendous SWR, and further loss because of it. It is fixable.

Continued on page 5

FCC Tells Vermont Ham That Fine Is Next Step

NEWINGTON, CT, Mar 9, 2005--The FCC has warned David J. Tolassi, WA1BHV (ex-KB1EVE), of Barre, Vermont, that he's risking a substantial fine if he continues to violate the conditions of his 2004 license renewal. After a series of "enforcement issues" relating to the operation of KB1EVE, the FCC renewed Tolassi's General class ticket in January 2004 on the condition that he refrain from 20-meter voice operation for three years. Following up on allegations that Tolassi had violated the prohibition, FCC Special Counsel Riley Hollingsworth wrote the licensee February 23.

"Information before the Commission indicates that you have violated the condition of your license by operating voice on the 20-meter amateur band," Hollingsworth said. "Please be advised that if the condition is violated again, you will be issued a monetary forfeiture (fine)." Hollingsworth noted that fines for such unauthorized operation typically range from \$4000 to \$7000.

Hollingsworth told ARRL that Tolassi has admitted to violating the 20-meter prohibition. He said the FCC also has tape recordings in its possession to support third-party reports that Tolassi was on 20 meter phone.

In late 2003, the FCC's Wireless Telecommunications Bureau (WTB) referred Tolassi's renewal application to the Enforcement Bureau for review as a result of the "enforcement issues," which, Hollingsworth says,

involved inappropriate on-the-air behavior. To resolve the situation, Tolassi agreed to stay off 20-meter phone until February 1, 2007, in exchange for having the FCC renew his license.

In 1999, Tolassi, formerly KC1ZQ, failed to pass the Advanced class examination after being summoned by the FCC for retesting, and his license class was downgraded to General. The FCC issued KB1EVE, a call sign appropriate for a General class licensee in March 2000. Tolassi obtained WA1BHV last May through the vanity call sign program.

In an unrelated enforcement case, the WTB, acting on its own motion, has set aside the Amateur Extra class license renewal grant of Douglas Richter, KB2SIE, of Bethpage, New York.

"That action is based upon complaints about the operation of your station since the grant of the renewal application," Hollingsworth said in a letter February 17. "In view of the action by the Wireless Bureau, your application for renewal reverts to a pending status." Richter's license expired last November, but he may continue to operate for the time being while the FCC is dealing with the enforcement issues involving his station's operation.

Hollingsworth said the FCC would be contacting Richter for additional information it would need "in order to make a decision on your application." The FCC's New York Field Office conducted an inspection of Richter's station

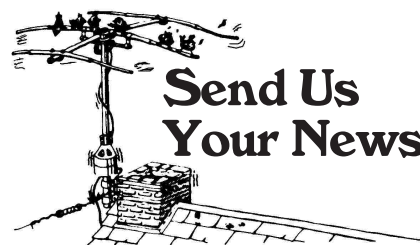
last June 24.

In 1999, the FCC notified Richter, then a Tech Plus licensee, that it had received complaints that he or someone using his call sign had been "deliberately interfering with the operations of an amateur repeater." Last May, the FCC requested that Richter respond to a complaint it had received alleging deliberate interference on 75 meters.

From ARRL

Engineering Report from page 4

Rest of receiver: I transformed two Mastr2 mobiles into test beds for Mastr2 modules. This provides a functionality similar to the Mastr2 Station/Repeater Receiver/Exciter door. This gives great flexibility to test, debug or modify Mastr2 modules on the bench. I slapped one complete receiver together into it and tuned it real good. The Mastr2 UHF will do just fine: 12 dB SINAD at -124 dBm with the ARR preamp. I expect the UHF machine coverage to be very similar to the VHF one.



Do you know of an amateur in the area that's newsworthy? They do not have to be a member of GARA to be eligible. Send your items to the Feed Line newsletter Editor, Tom Forrest, N4GVK at n4gvk@bellsouth.net.

Tech Tip

Have you ever have one of those times when you need to plug in a piece of gear and all the outlets are taken? Your power strip has six outlets and you only have three items plugged in!

Yup, it's those pesky "wall wart" power supplies again. Even though some power strips are "wart" friendly, they only provide

Power Cable Extender For "Wall Warts"

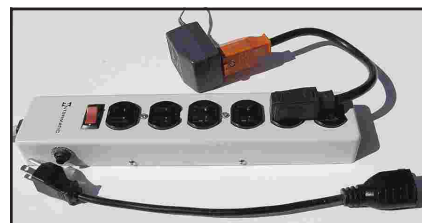
By Tom Forrest, N4GVK

you with one, maybe two over spaced outlets.

Here's a quick way to solve the "wall wart" problem. Take an old discarded power cord with a good male plug. Cut it off at about 12 inches and install a female outlet on the bare end. These small outlets are about \$2 at most home improvement stores.

comercially available cords like this.

Install one of these on your power strip and you're back in business making use of all outlets.



For my cable I used a cord with a right angle plug. Commerical cord shown at bottom. (Photo by N4GVK)

Ham Happenings NEWS briefs

Call sign changes: Bill Mullins' new call sign is KI4IFI. His previous call was KE4WZQ.

Congratulations to **Clarence Tillery**, upgraded from General to Extra and receiving his new call of NC4CT.

Get Well Wishes

Bill Honneycutt, W4WRH, recently had back surgery and is home doing well.

Tom Hatley, KF4JZD, has been undergoing chemo for bone cancer.

I used an old cord that was cut off a discarded piece of equipment. There are also

Board Meeting Minutes

The Board of The Greensboro Amateur Radio Association met Monday evening, March 14, 2004 at 7:30 p.m.

The following members were present: Clark Doggett, KG4HOM; John Doggett, KI4BMS; Arch, KT4AT; Mark Robinson, KG4STP; Ernie Wall, NC4EW; Roy Smith, N4BYU; Tom Forrest, N4GVK; Al Allred, K4ZKQ and Lee Wimbs, W1MBS.

Each officer gave a report. A discussion was held on ways to get members more involved in club activities and to regain members that have not yet renewed. It was also discussed and approved, to have a letter written to previous members reminding them of their renewal and polling them for suggestions. Classes were also suggested for potential Hams. Al, K4ZKQ; Mark, KG4STP and Lee, W1MBS volunteered to coordinate the classes.

A picnic was planned with the help of Clark, KG4HOM and John, KI4BMS. Plans will be completed on this soon.

Arch, KT4AT, gave the engineering report. He talked about the UHF preamps, the Helical filters and a test setup he created for testing Mastr2 modules (the full report can be found in this edition of the Feed Line).

There being no further business, the meeting was adjourned at 8:45 p.m.

FOR SALE

Palomar Engineering HF Transceiver Pre-Amplifier. Covers 6 meters through 160. Model P310X, 110 VAC. Very good condition. No manual or box. \$35

Tempo 1, 2 Meter HT. Oldie but goodie. 2 antennas, heavy leather case, battery pack, charger and manual, no box. Works fine, but no encode tone board. \$35

Direction Finder. 45 to 470 MHz. Used for fox hunting, locating dead key signals, etc. Uses 9 volt battery. No manual. With coax & BNC connector. Commercially made. \$30.

Turner Dynamic Amplified Base Microphone. Volume & Tone controls, Built in meter reads both audio output & battery condition. Freq response 200-4000 Hz, low

impedance, adjustable head, bar & lock key. With specifications & diagram. VGC \$30

Sony-Mini Stereo Speaker System. For walkman, etc. Like New. \$10

Non-Amateur piece of equipment: Central Hydraulics Lift for ATV, Motorcycle, Riding Lawn Mower, etc. Capacity is 1250 lbs. It has safety lock bars, foot pump and lift seat additional adapter. It is brand new, used only once, with manual. They generally sell anywhere from \$99 to \$249 depending on the strength and quality. This unit would range up to \$169. Will sell for \$60

May consider a trade on any of the above, however, I really don't need more "Stuff"?

Call me on 145.15 or E-mail me at N4DFA@arrl.net. Serious inquires call my home between 10am & 10pm @ 288-5595

ARRL NATIONAL CONVENTION IN DAYTON TO FEATURE FORUMS, FACES, FUN:

A slate of at least 10 ARRL-sponsored forums and activities will highlight the League's 2005 National Convention, held in conjunction with **Dayton Hamvention® Friday through Sunday, May 20-22**. Even more are in the planning stages. In addition, ARRL EXPO 2005--a special area at Hara Arena where visitors can learn what the League means to Amateur Radio--will offer an opportunity to meet ARRL publication authors, view software demonstrations, find out more about DXCC, ARES, clubs and mentoring, the ARRL Education and Technology Program, youth activities, amateur licensing, product review testing, RFI, BPL and much more.

The lion's share of ARRL's National Convention activity will take place at ARRL EXPO 2005 in the "Ballarena" at Hara Arena. Inderbitzen says visitors should come prepared not just to learn or be informed but to have some fun.

Cover of the Rolling Stone? Well, how about cover of the QST? Visitors dropping by ARRL EXPO 2005 can have their photo taken then digitally superimposed on a cover of QST. For a modest fee, they'll walk away with a souvenir to wow their friends--or at least to hang on the wall of the shack.

On the more serious or instructional side:

* ARRL Hudson Division Director

Frank Fallon, N2FF, will moderate the ARRL Grassroots Lobbying Forum, Friday, May 20, 9-10 AM, in Room 2.

* ARRL Club and Mentoring Coordinator Norm Fusaro, W3IZ, will host the ARRL Clubs and Mentoring Forum, Friday, May 20, 9-10 AM, in Room 4.

* ARRL President Jim Haynie, W5JBP, presents "ARRL Goes to Washington For You," Friday, May 20, 10:15 AM-11:15 AM, in Room 2.

* The forum Amateur Radio and The Law, "Getting it Up and Keeping it UP," is set for Friday, 12:45-2:15 PM, in Room 3. Led by Amateur Radio attorneys, the discussion will cover legal issues of interest to hams including restrictive covenants, antenna support structure permitting, and recent court decisions on RFI.

* The ARRL Amateur Radio Emergency Service (ARES) Forum is Friday, May 20, 2:30 PM-3:45 PM, in Room 3. The moderator is ARRL Public Service Team Manager Steve Ewald, WV1X.

* Well-known DXer and contesteer Tim Duffy, K3LR, will share the podium with ARRL antenna expert and ARRL Antenna Book editor Dean Straw, N6BV, for the Antenna Technology Forum, Friday, May 20, 2:45 PM-5 PM, in Room 1. Straw will discuss "Strategies Using Propagation Predictions for DXing and Contesting."

* "What's Your Buzz in Amateur Radio?" Find out or offer your own favorites Saturday, May 21, 8:15-

9:30 AM, in Room 3. President Haynie and members of the ARRL Board of Directors will be your hosts.

* The ARRL Public Relations Forum takes place Sunday, May 22, 8:30 AM-10:00 AM, in Room 1. Moderating is ARRL Media and Public Relations Manager Allen Pitts, W1AGP. Highlighting the forum will be an interactive panel discussion.

* The ARRL Technology Task Force Forum is Sunday, 10:15 AM-12 Noon, in Room 1. ARRL Central Division Vice Director Howard Huntington, K9KM, will moderate.

* Steve Ewald, WV1X will moderate the ARRL Section Managers and Section Leaders Forum, Sunday, May 22, 10:15 AM-11:15 AM, in Room 4.

Visitors also will find ARRL staff members and volunteers at many other Hamvention forums. SA complete slate of convention forums is available on the Dayton Hamvention Web site <http://www.hamvention.org>.

The theme of Dayton Hamvention 2005 is "Bringing hams together from around the world." Upward of 25,000 visitors from the US and elsewhere on the globe make the annual pilgrimage to Hamvention, where socializing is a big part of the fun.

For additional updates check the ARRL National Convention at Dayton Hamvention Web page <http://www.arrl.org/announce/nc/2005/>.

Area Activities

FOURTH MONDAY – at 6:30 PM, the **Greensboro Amateur Radio Association** has their regular monthly meeting at the Golden Corral on Landview Dr., off W. Wendover Ave. 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.

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 controls.

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 PM The **Guilford Amateur Society** holds their monthly meeting at the Golden Corral on Landview Dr., off W. Wendover Ave. Dinner at 6:30 PM and the business meeting is slated to begin and 7 PM.

SATURDAYS – at the K&W Cafeteria on Big Tree Way, hams get together for **Saturday Breakfast** at 7:30 AM. Talk-in is on the 145.150, W4GSO repeater, with 100 Hz. tone.

MONDAYS & FRIDAYS – at 11 AM, Greensboro Hams get together for lunch. On Monday they meet at the Oakcrest Restaurant Battleground Ave. and on Friday lunch is at the K&W Cafeteria off South Holden Road. 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 at Starbucks in Quaker village Shopping center off W. Friendly Ave.

Greensboro Amateur Radio Association
P.O. Box 7054
Greensboro, NC 27417



Web:
www.w4gso.org

FIRST CLASS MAIL

The Official Publication of GARA