

THE ARCLITE

ARCLITE October, 2008

Garland W5IDN explaining the wonders of amateur radio to the Cub Scouts at JOTA.

Picture by W5RRY



The Presidents Pen K5DHY Bill Engel

An even dozen Cub Scouts from Pack 1037 in Garland were at the Emergency Communications Center on Saturday morning when the doors opened at nine o'clock for the Jamboree on the Air (JOTA). Under the guidance of Garland W5IDN and the on-air support of E.H. WT5Q, the boys each got on the air on the VHF repeater with E.H. and also on VHF simplex with Garland, who explained how it all works. Jim W5RRY took the pictures which are included in this newsletter. Cockpit troubles with the HF rig, which were later resolved, prevented us from transmitting on HF while the boys were there.

We've seen more sunspot activity this past week that we have seen in

a while. While at the ECC Saturday I was able to copy Poland and Croatia on 20 meters, but 15 and 10 meters remained dead. Perhaps Cycle 24 has finally begun?

This month's meeting on October 27th (not the 20th as I said in last month's column) is our annual club auction. Bring the ham radio or other electronic things you no longer need. If you have a minimum price for something please mark it. The club gets to keep ten percent of the selling price and we will have an auctioneer.

The November meeting on the 24th will feature Gene Mason KZ5V speaking on the magical things you can do with wire antennas.

Remember that the ECC is open on the first and third Saturdays of each month from 9 am to noon. It's a good time to meet other hams and get answers to your ham radio questions. The primary focus of the first Saturday is to operate the equipment. We need to have as many operators as possible who know how to work the HF and VHF rigs.

The date for the club's Christmas Party is Saturday, December 6th in the late afternoon at our Murphy house. Because there are no streetlights in the neighborhood we need to have the festivities start before dark. More to come later.

73,
Bill

Upcoming Public Service Events

K5DHY Bill Engel

Public service events are an excellent way to hone your communicating skills so you can be a valuable resource in an emergency situation. If you are a first timer let the coordinator know and you will be assigned accordingly.

The fall activities are over, so we just have the marathon on the schedule. Look for spring events to start appearing in next month's newsletter.

Sunday, December 14 is the Dallas White Rock Marathon Presented by NexBank. Mark your calendar and look for more info in the future. Contact is Bob Jones, W5BJ, w5bj@arrl.net. Hams are already signing up, so e-mail Bob if you want to get assigned to your favorite location. Event information at <http://www.runtherock.com/>.

The first Wednesday of each month are the emergency warning siren tests in Garland and Rowlett. Ham operators are needed to visually inspect the sirens and report on their operation. You need not be affiliated with RACES to perform these tests and you can do either the Garland test at noon or the Rowlett test at 1 pm or both. Siren locations and signup are on the Rowlett RACES web site <http://www.rowletttraces.us/> or you can e-mail Ian DiFranco KE5FOM at ian.difranco@verizon.net.

As always, public service event information can be found on the web at <http://www.qsl.net/n5tim/uplist.html>.

Jhonny Ibarra talking on the VHF radio to E.H. WT5Q under the guidance of Bill K5DHY.

Mathew Simon, a member of the Circle Ten Council's International Committee looks on.





Bob Jones W5BJ

K5QHD

News and more for the Garland Amateur Radio Club. The GARC Currently has two repeaters on 146.660 and 442.700 Both PL Tone 110.9

THE GARC is a 501(C)3 non profit organization established to promote amateur radio and also provide disaster and emergency communications.

August meeting date is the 25th at the Garland Women's Activity Center 713 W. Austin Street. Garland TX. 75040
Doors open at 7:00 PM
Meeting at 7:30

THANK YOU DON

A big thanks to Don Reznicek KE5FWK for the new sign on the ECC door. Don had the sign made and installed at no cost to the club. Thanks again, Don.



HMMM... A picture is worth a thousand words, but it uses up three thousand times the memory.

RACES NETS*

Every Thursday Night at 9:00 PM local time on either the 146.660 or 147.240. In addition there is also a 1st and 3rd Sunday net on 146.880 at 8:00 pm

ARES NET

Unlike the Races nets you do not have to have an Races Appointment to participate. ARES NETS are the 4th Thursday on Either 146.660 or 147.240 at 9:00 pm

SIREN TEST

Garland's Early Warning Sirens are tested by the city on the first wednesday of each month at noon, weather permitting

RACES NET PARTICIPATION REQUIRES AUTHORIZATION BY RACES Authority or FCC

REPEATER NEWS**BY Bill Engel K5DHY****REPEATER NEWS**

The club operates two open repeaters for use by any licensed amateur radio operator. One is on 146.660 MHz with a negative 600 KHz offset and the other is on 442.700 MHz with a positive 5 MHz offset. Both repeaters require a PL tone of 110.9 Hz. Additionally the 146.660 repeater transmits a tone of 110.9 Hz to enable use of tone squelch found on most receivers. The backup two meter repeater that is occasionally put into service does not have this feature.

The new repeater controller will be put into service soon.

If you are not familiar with the Club's guidelines for usage of our repeaters please take a few minutes to look them over. They are accessible on our web site under "Club Information" then "Repeater Use Guidelines."

October Board Meeting Minutes

The October Board Meeting was held on the 13th shortly after 7PM, with discussion about the options available for a Christmas Party. Since Bill Engle K5DHY promised his new place would be available, it was decided to take him up on his offer for a get together in the late afternoon of

Saturday, December 6th. More details next month. Wayne Williams WT5J announced that there had been no change in the treasury since the last meeting. He has received a check from Tom Thumb for a little over \$20, noting that every bit helps, especially when it is for corporate sponsors, and not out of our individual pockets. Keep shopping at Tom Thumb and Kroger with your membership cards. The October 27 meeting will be our annual auction instead of a speaker. Bring your Ham gear, computer, and other electronic "extras" as well as your checkbook. Remember; "one man's junk is another man's treasure." 10% of any sale goes to the club. Meeting became adjourned about 7:30 PM as we broke into a work project on the new repeater controller. (The effort was continued Thursday night and Ralph Brown KA5KVF was excited with a breakthrough due to the help of Conrad SanDiego AB6ST and his friend Roger Savage KE5VDT.)

Source for inexpensive earbud headsets.

I've been asked by several people where I found inexpensive earbud headsets. (we bought a bulk set of 6 there for a discount, simply because we're pretty hard on headsets. The last time I operated at our EOC, I dropped mine and stepped on it. I now carry two (*sigh*)).

So thought I'd share this. They have lots that fit most Kenwood and Icom radios:

<http://www.dynamicdesignsus.com/servlet/the-Surveillance--fdsh--Retail-Headsets-cln-Icom-Maxon-Talk250/Categories>

Just do a search for the make of your radio

Janet



Surveillance / retail headset. It has a lapel remote microphone with push to talk button you can clip almost anywhere. The speaker is held snugly against the ear with the plastic ear hanger and keeps your conversations private. Perfect for retail applications. Can be used on either the left or right ear.



BULK 6 PACK of the Surveillance / retail headset. It has a lapel remote microphone with push to talk button you can clip almost anywhere. The speaker is held snugly against the ear with the plastic ear hanger and keeps your conversations private. Perfect for retail applications. Can be used on either the left or right ear.

HOW I BECAME INTERESTED IN HAM RADIO

T, Grady Belt (W5TGF)

I think it all started when I was about 6 years old. The Mom and Pop grocery store, there in the country where I lived, bought a radio. I was so fascinated by that radio, that I went home and put up an antenna, (aerial) as they were called in those days, made of any kind of wire that I could find. I was smitten with the radio bug. That's all I could do at that time. When I was 13 years old, I found a pair of ear-phones. I ordered a crystal and built a crystal set, my first radio. When I was about 15 years old, I was delivering groceries for a grocer in Dallas and in the back of his storeroom I found an old radio. I worked out a deal to purchase the radio, which wouldn't work. I opened it up and poked at every component, it started working. This old radio had one short wave band, I don't remember which band it was. As I was tuning around one day, I picked up a weak station with a man talking. He turned it back to another station, and as I had the volume turned all the way up, I heard a loud clang that echoed through the other man's shack followed by "This is W5EQJ". My brother said, that's Mr.

Peacock, I play with his kids. I just had to meet Mr. Peacock. My brother took me to meet him, I WAS HOOKED. This was in 1941. I met a local boy (Gene Keiffer) who was also interested in HAM radio, we started learning the Morse code together. World war 2 put a stop to that. During the war, Gene and I made short wave receivers, and listened to Many foreign broadcast stations. By the time the war was over, I had discovered GIRLS. I found the girl I was looking for and married her in 1948. I worked on the code off and on with Bud Slover, he and I got our novice license in 1951. From there it was up-grade to general class, then to advanced and then extra class. Otis Peacock (W5EQJ), Bud Slover (W5TLX) and Gene Keiffer (K5EAB) are all Sk's now. I think that I was born with the desire to be a HAM radio operator.

That's how I became interested in Ham radio.

T, Grady Belt (W5TGF)

What Am I Going To Do Now? Martin Addison

In many hobbies, but most particularly in those requiring the passing of examinations to prove proficiency prior to active involvement, there is a point when the new participant asks; What next?

In hobbies like railroad or airplane spotting there are no examinations, only your personal goals to achieve. These goals range from filling a spotters checklist to, for example, a detailed study of performance. The vision of the railroad spotter as an anorak clothed figure at the end of a platform is misleading in the extreme. Many people involved in this hobby retain their interest by going beyond the simple collection of numbers, becoming expert photographers and engineers in pursuit of their hobby.

Taking airplane spotting to it's logical conclusion of taking the controls yourself brings the burden of exams. It requires the same level of commitment that choosing to become a Radio Amateur carries and here I can see some similarities between 2 hobbies that seem unrelated. Within both I have found concerns expressed about the number of people leaving the hobby after a short time. In flying, people commonly leave at one of three stages: -

- First Solo - they've already done what they wanted to do.
- Not long after First Solo - they've just realized that they have only done a third of the course!
- Around 6 months after getting their license.

There are other stages and it's a complex scenario with medical retirements, etc. However, I think that we need only to look at stage 3 and apply that to Amateur Radio. The main reason that pilots give up flying so soon after getting their license is that they never thought beyond getting their wings... They never thought about the future. When we first get our Novice call, we have a large number of options set before us. Here are some ideas on how to maintain your interest in the hobby.

Stuck on VHF

Unfortunately, for many beginners they are constricted by the availability of money. For this reason, a significant number of new members of the Amateur Radio community find themselves on the 2m band. Here lies a problem. Firstly, any dreams of DX have gone out of the window. In fact, most contacts will be locals, some of whom only talk to their friends and never answer CQ calls.

On the positive side, there are several things that a new licensee can try to get the most out of the VHF bands. Firstly, you can get a map - preferably one that looks good on the wall of the shack - that is of a good

scale so that 2m contacts can be marked clearly. This will give an idea of the range of your transmissions and indicate blind spots. I personally, as a UK amateur, use a 1:250000 aircraft map for South East England which covers West to Bristol and Yeovil, and North to Leicester and Norwich.

The newcomer can also take part in some of the more parochial award schemes. Ideal amongst these in the UK is Worked All Britain (WAB). There are a number of awards available including 'London Calling'. The VHF English Award, requiring 50 grid square/local authority contacts at the basic level, is not out of the question on 2m with a good antenna and some patience - For example, I have worked South Leicestershire and North Norfolk on FM with a co-linear. I assume that similar schemes are there for US operators.

Another scheme is Summits On The Air (SOTA). This is an opportunity for the active person to get out and about with a 2m Handie-Talkie and activate summits. 4 contacts are required for an activation to count. The award scheme is managed through an online database. SOTA activations also take place on HF and more countries are becoming involved.

WAYS TO HELP



Good Neighbor #
11636

As previously announced Kroger has a new Neighbor to Neighbor program. This program will pay out \$1 million to organizations in Texas and Louisiana proportionately based on purchases between May 1, 2008, and April 30, 2009. In order to get us in on the action you will need to print the customer letter which can be found at: <http://www.krogerneighbor.toneigbor.com/pdf/10000081152.pdf>

Then take the letter to the Kroger store and have the cashier scan it after he/she scans your KrogerPlus card. You only need to do this once. We will then receive credit for your purchases during the duration of the program. Payout to the organizations will be after April 30, 2009.

Thanks for your support of the GARC.

73,
Bill Engel K5DHY

**There are other Stages:
What am I going to do now
Continued**

All Bands

For the newcomer with the cash to buy a rig or rigs to cover all the bands it is not lack of band choice that is the problem. Here, the space and planning permission or CC&R's in the US, required to put up a top of the range antenna is more likely to be the limiting factor in what can be reasonably achieved. Once again, there are many things to do.

Both the award schemes covered in the previous section are equally applicable to the HF bands. There are also other award schemes in Europe. There are Castle Awards in France, Belgium and Italy. France also has an award scheme for its windmills.

On a Global Basis, there are several well known award schemes. Top of these for the keen amateur is the American Radio Relay League's DXCC program. At the basic level it requires contact with 100 countries confirmed by QSL card. The ARRL also run Logbook of the World which allows credits for the DXCC award to be accumulated on line. There are similar schemes, for example the eQSL web

site where you enter your logs and apply for awards.

Another global scheme is Islands On The Air (IOTA), now run by the RSGB. At the basic level, it requires 100 Island Groups with at least one from each of the 7 continents. With low power and a limited antenna, the 7 continents may be out of the question, but island activations often tie in nicely with another global award scheme - Lighthouses. The Amateur Radio Lighthouse Society runs an award which, at the basic level requires contact with 25 Lighthouses confirmed by QSL cards (they do accept photocopies).

QSL cards, as mentioned above, are a memento of our efforts in their own right and many amateurs merely collect these without bothering with the award schemes. Many are beautifully designed (though some are not) and often - in the case of those from special event stations - mark historical events. The majority of QSL cards are sent around the world via QSL Bureau's run by the national radio societies.

I hope this encourages newcomers to `get stuck in' and thoroughly enjoy the hobby. This article has only scratched the surface of the many things to do on the air and I haven't mentioned contests! See the link to VA3RJ's site below for a comprehensive list of `DX Awards'.

73 de Martin 2E0MCA

Useful Web sites: -

WAB <http://www.worked-all-britain.co.uk/>

SOTA <http://www.sota.org.uk/>

DXCC <http://www.arrl.org/awards/dxcc/>

IOTA <http://www.rsgbiota.org/index.php4>

Lighthouses <http://arlhs.com/>

VA3RJ <http://www.webhome.idirect.com/~va3rj/index.html>

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Remove the word spam from the email address

Minutes of the September Meeting

By Lowell Allen *Submitted by Garland Newman, W5IDN

The meeting was called to order by Bill Engel, K5DHY, and the pledge was led by John Galvin, N5TIM.

Gary Woodall, KD5WUT, from the National Weather Service in Fort Worth was our speaker. Due to time constraints Gary gave his talk on "History and of Amateur Radio and the National Weather Service" prior to the business meeting.

After a short break members and guests were introduced.

Bob Jones, W5BJ, made a motion the minutes be approved. There was a second and the motion was passed. Schedule of upcoming events were announced including the JDRF walk and the White Rock Marathon.

On Oct 18, 2008, the ECC will be open for the JOTA support. The radio will be available to make contact with other scouts.

A report was given by Rick Beckemeyer KG500 and Bill Engel on their efforts for Ike in Houston.

Stan Shutts WB5FOQ was approved as a new member.

Submitted by Garland Newman, W5IDN.

HMMM... By the time you can make ends meet, they move the ends

What a picture taken in Texas



THIS IS A PICTURE THAT LESIA CASANOVA ' S HUSBAND TOOK . HE WORKS ON AN OIL RIG AND DURING A STORM HE WAS GOING TO TAKE A PICTURE OF THE LIGHTNING.? HE WAS UNAWARE OF THE TORNADO UNTIL THE LIGHTNING ILLUMINATED IT.. PRETTY AWESOME, HUH?

Taken Thursday night, April 3, 2008.
Lariat # 2 ?Sandridge Energy?
South of Ft Stockton , TX

Ham Cram, or the One-Day Tech Class

by Dan Romanchik, KB6NU

I used to be skeptical of one-day ham radio classes, sometimes called "Ham Cram" classes. After teaching a couple of these classes over the past year, however, I've become a supporter of this method of teaching, at least for the Technician Class license test.

One reason I'm an advocate of the one-day class is that I think a lot of people "learn by doing." I'm not an expert on pedagogy, but my guess is that more people learn by doing than learn by reading or by listening. That being the case, isn't it a good thing that new hams get their licenses quickly so that they can begin doing--thereby learning--more quickly?

Second, people are busy. Tell them that the class is going to eat up one evening a week for six to eight weeks and a lot of them will tell you that they just don't have the time to do it. Squeezing in six to eight hours on a Saturday is, however, something that they can do.

Critics of the one-day classes say that if people just cram for the test, they may learn enough for just long enough to pass the test, but they really don't know enough to be "good hams," whatever that may be. There's some truth to this. It's important not to abandon them once they get their tickets. I

encourage all of the students to join a ham radio club and make myself available to answer any questions they may have as they get started in ham radio.

Critics also say that releasing this horde on the amateur bands will create nothing but chaos. Fortunately, I've personally seen no evidence that the hundreds of folks that have taken these classes across the country have created said chaos.

Make Your Next Class a One-Day Class

I would encourage you to give this a try. Make your next Tech class a one-day class. You don't conduct Tech classes? Well, get started! Another benefit of the one-day class format is that it's easier to find teachers since it takes less time for them, too.

As I mentioned previously, over the past year, I've taught two "ham cram" classes. We've learned a few things along the way.

Perhaps the most important thing is to stress that students should study the material before coming to class. The study guide we use is one that I've written. You can find the KB6NU No-Nonsense Study Guide online at <http://www.kb6nu.com>. You can also

purchase a pre-printed version of the study guide at www.booklocker.com/books/3408.html.

Another key is to not get bogged down on a particular topic. Our class runs from 9 am to 3 p.m., at which time, the VEs come in and give the test. To cover all of the material, you have to keep one eye on the clock and keep plowing ahead. To help you do this, a set of PowerPoint slides for teachers of Ham Cram Tech classes is available at <http://w9pe.us/>.

We conducted our first class last August. Nine out of twelve passed the test that day; the remaining three passed on their second attempt. In early May, we taught our second one-day class. This time, eleven out of twelve passed. In September, we held our third class and thirteen out of fourteen passed.

I am encouraged by these results, and I am planning to make these one-day classes a regularly-scheduled event here in Ann Arbor. Time will tell if these people become active, life-long hams, but so far, so good. If you have any questions about our experience with the one-day class, please e-mail me at cwgeek@kb6nu.com.

Using a Mac in the Shack

By Dan Romanchik, KB6NU

A couple of years ago, I decided to switch to the Mac for business use. (I am a freelance website developer.) I haven't regretted it for a second. The thing just seems to work better.

Last October, I decided to switch to a Mac in the shack and purchased used, iBook G4 Mac laptop. Unfortunately, I can't say that I've never regretted this move. The reason I sometimes regret this choice is that there just aren't as many ham radio programs available for the Mac as there are for the PC, and those that are available are either more expensive than their PC counterparts or don't work as well.

For example, let's take a look at logging programs. When I first started looking, I found one that was kind of expensive (MacLoggerDX - www.dogparksoftware.com/MacLoggerDX.html); one that was free, but didn't want to work so well (RUMLog - <http://www.dl2rum.de/rumsoft/RUMLog.html>); and one that worked OK and cost somewhere in between the first two (Aether-www.aetherlog.com/). Considering that there are at least a dozen logging programs that run on a PC, this was slim pickings.

I ended up purchasing Aether, but was never very happy with it. For one thing, it took forever to do any kind of sort or look up previous QSOs. Another pain was that it carried over none of the information from the previous contact, so you had to enter all of the information from scratch, even if you didn't change frequencies

or bands. It also had an odd way of doing notes about a contact, and I was disappointed to find out that it didn't import the notes from the ADIF file I created from the N3FJP logging program I used previously.

For PSK, It's CocoaModem I had much the same experience when looking for a PSK31 program. Instead of a the wide variety of PC PSK programs, I only found a couple of Mac programs that decode PSK. Fortunately, I am much happier with my choice here (cocoaModem - homepage.mac.com/chen/index.html). It's a great program, with a polished user interface, and it's free, to boot.

The only problem with cocoaModem is that it doesn't support the wide range of digital modes that some of the PC programs do. One I'm interested in is SSTV. Unfortunately, cocoaModem doesn't do SSTV.

A Happy Ending
Well, a couple of weeks ago, I'd had enough of Aether and decided to start searching for logging software again. Since RUMLog was still free, I decided to give the new version (v 3.0, March 15, 2008) a go. I'm happy to report that this version likes my computer a lot better, and I like using it a lot!

One of the coolest things is that it did import the notes from my N3FJP ADIF file properly. So, now, when I type in a callsign, the program searches the database, finds all the previous contacts I've had with that station, and then

displays them in spreadsheet style WITH the notes. If I've taken notes about a previous conversation, I can pick up right where I left off. Very cool.

It also has a very nice way of showing you what countries you've worked, on what bands you've worked them, and whether or not you've QSLed that country or not. Not only that, it shows what type of QSL you have, either a paper QSL or a Logbook of the World (LOTW) QSL. And, after you supply your user ID and password, it will download your LOTW QSLs and update the appropriate QSO records. Very cool!

Still unresolved is what to use for contesting. None of the programs I've seen so far are useful for contesting, and I think that what I will end up doing is using my old PC laptop running N3FJP or N1MM software. I'm not a big contester, so I think I can live with that.

One thing is for sure--I'm not going back to the PC aside from some niche applications like contesting. The Mac's ease of use and ease of setup has won me over. For information on even more ham radio software for the Mac, go to www.machamradio.com.

When not trying to convince his friends and family to convert to the Mac, Dan works a lot of CW and PSK, and even a little SSB, on 20, 30, and 40m. You can read more about his adventures in amateur radio by pointing your Web browser to www.kb6nu.com.

Sharing Past JOTA Experiences

All,

Let me introduce everyone in this email. Some of you might be already knowing each other. Please bear with me.

Tom Schuessler - President of the Irving Amateur Radio Club. Phone: 214-403-1464. Tom is the lead HAM Radio person for the JOTA station at the NHQ. Tom is a Radio Merit Badge Counselor, but not an Adult Scout Leader.

David Russell - President of the Richardson Radio Klub. Phone: 972-690-9894. David is the lead HAM Radio person for the JOTA station at Richardson (Cottonwood Park). David wants to register as a Radio Merit Badge Counselor. I have promised to help him go through the BSA red-tapes, after the JOTA.

Bill Engel - President of the Garland Amateur Radio Club. Phone: 972-633-0823. Bill is the lead HAM Radio person for the JOTA station at Garland (at the Emergency Communication Center).

Dick Thiot, and Neil Gould - Dick is the lead HAM Radio person for the JOTA station at Plano (Frank Beverly Park). Neil is also HAM operator. Both of them are seasoned Adult Scout Leaders.

Tom Yenny and Allan Batteiger: They both used to conduct the Plano JOTA station in the past, but this year they have other commitments. They both are HAM operators and seasoned Adult Scout Leaders too.

Frank Krizan - Is the Manager of the K2BSA Radio station. He is currently in Maine. He is a seasoned Scout Leader too. Due to various reasons, the K2BSA station is unable to operate for JOTA. But they have a wealth of past JOTA experience and Frank has agreed to share it with the other JOTA station operators. He might have already shared in with David Russell. Today, Tom Schuessler has expressed an interest in hearing from Frank.

I thought it will be best, if we all communicate each other and share the past experiences. We don't have to adopt any common standards. But it might be good to hear what others have to say. The phone numbers are given above. I don't have the phone numbers of the Plano Scouters. Please share it with us.

Just as FYI: On the JOTA day, as BSA representatives, I will be present at the Garland

Station, Greg White at the NHQ Station, and Sergio Chavez at the Richardson station. Our main role is to help you run the station and liaison with the Scouts and Scout Leaders who might arrive at the station. We will try to get more help. I am hoping that no BSA representatives are needed at Plano as Dick and Neil are seasoned Scouters.

Regards,
Mathew Simon



GARC GENERAL INFO

Repeaters:

The GARC operates two open repeaters for its members and guest amateur radio operators on 146.66 (-) and 442.7 (+) Both with PL Tone 110.9 Trustee: Bob Jones W5BJ

trustee@k5qhd.org

INTERNET:

See us at <http://www.k5qhd.org> also on Yahoo groups

Newsletter:

The Arclite is published monthly for the members of the Garland Amateur Radio Club. The contents of this newsletter are copyrighted the date of publication, but may be reprinted without permission in any Amateur Radio Publication provided proper credit is given and the motive is the advancement of amateur radio. The deadline for Arclite materials is the 2nd monday of each month.

MEMBERSHIP:

Membership forms are available at the GARC monthly meetings or the GARC website. Members can be voted in at each meeting. Club Rosters for non commercial uses can be obtained by club members by contacting a board member.

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CONTACT THE BOARD AT board@k5qhd.org

[For More Info call \(972\) 272-4499](tel:972-272-4499)

GARLAND AMATEUR RADIO CLUB

Emergency Communications Center (ECC)

1027-B. West Austin Street.

Garland, TX. 75040

Where Ham Radio is Fun Again!

K5QHD is the Bill Folsdtadt Memorial Station



PLEASE RUSH!!!

Donate your excess goods to the GARC. Don't forget the club is a 501(C)(3) organization and that all your donations can be tax deductible.