

Vol-13, Num-03; March 2007



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Submit News to [k5gcc@verizon.net](mailto:k5gcc@verizon.net) with K5GCC in the subject line along with your message title. If K5GCC is not in the subject line, the message will be deleted. Format: text in \*.doc or \*.txt file extension and electronic pictures in any format

**Deadline: Saturday @ 19:00CST before GCARC Meeting. The K5GCC Newsletter will be published ~48 hours following this deadline.**

## **Thank you for visiting the GCARC Newsletter**

"It shall be our purpose to further the exchange of information and cooperation between members, to promote radio knowledge, fraternalism and individual operating efficiency, and to so conduct club programs and activities as to advance the general interest and welfare of Amateur Radio in the community."

From the GCARC Constitution

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## Presidents Corner

March 2007

Continuing with the end of the Morse code requirements for amateur radio, this is the second and final segment from Mark Abramowicz, NT3V. I found it worth remembering a little history of Morse code.



### RESTRUCTURING: MORSE TESTING GOES AWAY IN THE UNITED STATES

For better or for worse, Morse testing to obtain a United States Amateur Radio service license disappeared on February 23rd. Amateur Radio Newline's Mark Abramowicz, NT3V, and a friend take a look at the mode and its illustrious history as a part of the wonderful world of Amateur Radio: :

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Many hams who either wanted Morse testing retained or a return to the more stringent 5, 13 and 20 word per minute testing regime said that the fight to save code exams would not be over until the proverbial fat lady sang. Well, she not only has sung her final song but also danced her last dance. Now Morse testing in the United States is being relegated to the ham radio history books. But the mode itself, continues. Joe Schroeder, W9JUV, is a Chicago area ham who happens to love Morse operation and knows a lot of its history in the hobby:

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Schroeder: "You really have to go back a long way. Back to Samuel F.B. Morse himself. The invention by him of the Morse Code and telegraphy which literally electrified the world as far as communications was concerned, and that was until the invention of the telephone.

Of course, that (Morse) was the only way you could get messages instantaneously from city to city and then across the country and across the ocean between continents (via cable). And until the invention of radio and its widespread use, that was the only means of rapid communications. Otherwise you would write a letter and hope that in a month or two a couple of ship voyages would get it to where it was going."

--

Morse code and Morse testing has been a part of ham radio since its earliest days. It made sense back then because Morse was the only mode available to hams in those early days. So it was reasonable to assume any exam to obtain an Amateur Service license would contain an element to determine a candidate's proficiency in what many called the art form of Morse code. Before the advent of computerized keying, with many-seasoned C-W operators able to tell who is calling from the first dots and dashes without ever hearing a station's call sign.

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Schroeder: "What you are talking about is the Morse operators swing which dates back originally to the straight key but more appropriately to the bug. Different operators using the same bug are going to sound very, very different."

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The introduction of voice communications using A-M telephony in the 1920's caused a schism among hams. Seasoned Morse operators looked down on the new mode. Many said that there was no need for voice because Morse could get a message through far better under adverse conditions.

And so it was that the proponents of Morse and the supporters of voice went their separate ways. But they were all still bound together by one common point in their ham radio careers. Each had passed a Morse proficiency exam, because the government maintained that to get a ham license, code was a prerequisite.

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Schroeder: "One of the tenants of Amateur Radio is that we are supposed to be there for emergency communications in time of need. And, the simplest form of radio communications, which was CW, the breaking and renewing of a carrier, was both easier to create and better able to get through under adverse conditions. So, with our responsibility of being an emergency communications system, CW was a necessity."

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Eventually, Morse even spawned its own entry-level license in the U-S-A. the Novice class was introduced in the mid 20th century as a one-time-only, non-renewable ticket. While in its first incarnation it did have some very limited VHF voice privileges, those eventually went away leaving the Novice as a Morse only ticket.

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Schroeder: "Of course the purpose of the Novice license was not to get people to talk for one year on VHF/UHF and then off the air. The purpose was to give them an opportunity to learn Morse code by actually using it on the air instead of having to listen to tapes or records."

--

That philosophy testing for Morse held true until the latter part of the 20th century when the FCC noted that the numbers of new hams coming to the service was dropping. The FCC asked the ham community how to kick start interest in the service. That led to the dropping of Morse testing for the Technician class license in the 1990's and doing away with 13 and 20 minute Morse exams several years ago.

Schroeder: "Certainly the no-code Tech was a real incentive for people who wanted to communicate (locally) but were not that interested in long distance communications. So the no-code Tech really was a great boon for VHF and UHF."

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Meantime, the International Telecommunications Union which sets world-wide standards for all telecommunications decided that in their eyes Morse testing was no longer needed. They made Morse exams optional and it was not long before administrations world-wide began dropping the Morse test requirement. Now several years later, the U-S is following.

And after all the fighting and recriminations, it appears that interest in Morse is as strong as it has ever been. Maybe even stronger now that is just another fun aspect of the hobby and not the entry hazing ritual that many say it had become the past several years.

For the Amateur Radio Newsline, I'm Mark Abramowicz, NT3V, in Philadelphia.

73's

David Woods, W5COP  
President

## **GCARC and Surrounding Area Event Calendar**

### **Grayson County Amateur Radio Club Meeting**

March 16, 2007 @ 19:30CST  
Sherman Municipal Airport  
1200 S. Dewey Ave  
Sherman TX 75090  
Program: TBA  
<http://www.k5gcc.us> .

### **Fannin County Amateur Radio Club (FCARC) Meeting / VE Test Session**

March 17, 2007 @ 09:00CST for the FCARC Meeting.  
March 17, 2007 @ 10:00CST for the VE Test Session.  
Bonham VA Hospital, 1201 East 9th St., Bonham TX, 75418, Talk in 145.470 - offset no PL.  
Topic: TBA  
Informal breakfast - meeting before the meeting - at Cappy's Restaurant @ 07:30CST.  
Contact: Doug Loughmiller - W5BL, President  
<http://www.k5frc.org>

### **Oklahoma State Convention / Green Country Hamfest**

March 16-17, 2007  
Betcha Bingo Hall,  
Claremore Expo Center  
400 Veterans Parkway  
Claremore, OK  
Talk-In: 147.090+ and 444.350 (carrier squelch)  
<http://www.greencountryhamfest.org>

### **Oklahoma QSO Party/Centennial Celebration**

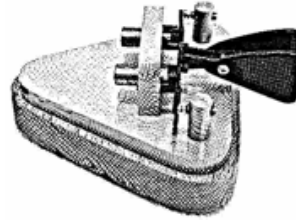
March 17, 2007  
Check out the details at: <http://www.okdxa.org>  
Many 1x1 call signs will be on the air for the centennial. A nice cup, certificate and QSL are available.

### **Amateur Radio Club of Parker County Hamfest**

March 24, 2007  
Weatherfor National Guard Amory  
716 Charles Street  
Weatherford, Texas  
Talk-In: 147.040+ (PL 110.9)  
<http://www.qsl.net/w5pc>

### **Grayson County Amateur Radio Club (GCARC) VE Test Session**

April 05, 2007 @ 19:30CST (First Thursday of every EVEN month – Feb, Apr, Jun, Aug, Oct, Dec)  
 Sherman Municipal Airport, @ 19:30CST  
 1200 S. Dewey Ave  
 Sherman TX 75090



VE Testing sponsored by the Grayson County Amateur Radio Club takes place the first Thursday of every EVEN numbered month (e.g. Feb, Apr, Jun, Aug, Oct, & Dec.) Testing will take place at the Sherman Municipal Airport, 19:30 hours. Testing fee for 2007 is \$14.00 for one try of any or all elements. Retests of any failed element will require another \$14.00 fee and is at the exclusive discretion of the VE team.

If testing, you must show a picture ID issued by a governmental agency. Other ID (such as a school picture ID) will be at the discretion of the VE team. For young children a parent's ID and some school record of the student may be accepted. For this circumstance please contact me in advance if possible. For upgrades, please bring your original license. For paper upgrades (i.e. old Tech or Tech Plus claiming code credit)

bring a copy of your old license you are using to claim credit. We have no copy machines at the testing facility.

We had two persons testing for upgrades this past Thursday. Both persons successfully passed their Extra Class examinations. Please congratulate Butch – KD5NIW and Paul – KF4PAK when you hear them on the air.

Any other questions about testing please feel free to contact Moe Knight – NT7C – or anyone on the VE Team. You may call Moe at 903-815-0342.

### **Durant ARC Tail Gate Sale**

April 07, 2007  
 Carl Albert Park  
 Durant, OK

### **Chapter 41, QCWA**

April 07, 2007

The Pointe Restaurant, S-W corner of Loop 635 (LBJ) and Midway Road,, Dallas Texas.  
 Featured program: TBA.

The "Chat and chew" starts at 11:00, and the "dog and pony show" at 12:30.

QCWA belt buckles are available for purchase @ \$24.95 each and available for immediate delivery.

For information, contact Steve Brodie, K5ZYZ at 903 786 4064, (903) 818-0234 Cell

### **McKinney Amateur Radio Club (MARC) Meeting**

April 09, 2007 @ 19:00CST <http://www.mckinneyarc.org>

### **Grayson County Amateur Radio Club Meeting**

April 20, 2007 @ 19:30CST  
 Sherman Municipal Airport  
 1200 S. Dewey Ave  
 Sherman TX 75090  
<http://www.k5gcc.us> .

**HamCom 2007**

June 8-9, 2007

The Plano Centre

2000 East Spring Creek Parkway

Plano, Texas

Talk-In: 147.180+ (PL 107.2)

<http://www.hamcom.org>

North Texas License

**Training & VE Team**

Following is the 2007 license training and VE schedules.

**Technician Class (ARRL #562)**

January 27

February 3, 10, 17, and 24

March 3

9:00 to 12:00 Noon

Whiteright Church of Christ

Whiteright, TX

**VE Sessions**

February 10

March 10

10:00 to 12:00 Noon

**General Class (ARRL #564)**

July 7, 14, 21, and 28

August 4

9:00 to 12:00 Noon

First Baptist Church

Melissa, TX

**VE Sessions**

July 7

August 11

10:00 to 12:00 Noon

**General Class (ARRL #642) \*New\***

March 24 and 31

April 7, 14, 21, and 28

May 5

9:00 to 12:00 Noon

First Baptist Church

Melissa, TX

**VE Sessions**

April 14

May 12

10:00 to 12:00 Noon

**Extra Class (ARRL #565)**

September 1, 8, 15, 22, and 29

October 6, 13, 20, and 27

November 3

9:00 to 12:00 Noon

Whiteright Church of Christ

Whiteright, TX

**VE Sessions**

September 8

October 13

November 10

10:00 to 12:00 Noon

To register for a class or VE session contact Dick Raitt, WA5VKS at 972-422-3021 or [wa5vks@wt.net](mailto:wa5vks@wt.net)

## Amateur Radio News Around the County

### National Weather Service (NWS) Skywarn Storm Spotter Class

Was held on February 22, 2007 @ 19:00CST at the KID-KEY Auditorium 405 North Rusk Sherman TX 75090



Gary Woodall, the Grayson County Warning Coordinator Meteorologist of the National Weather Service conducted its free annual SkyWarn Storm Spotter class for individuals interested in learning fundamental severe weather formation and reporting instruction.

Due to technical difficulties, photos taken at this session are currently not available. de KI5DQ

Additional NOAA online information can be found at: <http://www.srh.noaa.gov/fwd/sptrsch.html>

### VE Corner

When the FCC announced it was dropping Element 1 (5 WPM Morse Code) from the Amateur Radio licensing requirement for General and Extra class license the local VE team started discussing the possible impact on exam sessions. With the effective date set at February 23, 2007 once the new regulations were published in the Federal Register, some of us started to think there may be a demand for an earlier test session than the regularly scheduled session of 5 April, 2007.

The last time the FCC made a major change to licensing; sessions for months afterwards were swamped with people chasing paper upgrades. Admittedly there were upgrades this time based upon 'past licenses' but there may have been people out there that took their General written (Element 3) within the last year just betting the code was going away.

We agreed upon the first Thursday of March (1 March) for this special testing session. The word went out via the newsletter and our training nets. I even pushed the ARRL to make sure the test session was posted on the ARRL web site. Unlike the week or so leading up to most test sessions, I received no phone calls inquiring about this session.

Starting to wonder whether we would have anyone show up at all we were pleasantly surprised when 8 people showed up to the test session. Five of those had passed Element 3 at a previous session and were doing paper upgrades to General. A few of the more brave souls took the Extra written, without studying, just to see what it was like. The consensus is that even with a very good background in electronics, you aren't likely to pass Element 4 without studying.

Of the eight, two were there to take an exam for the first time. Both of those people were successful. It seems that not only is the rules change prompting people to upgrade, but to enter the hobby for the first time. ARRL VEC, Maria Somma, reports that one session shortly after the change went into effect had over 70 new Technician licenses granted. There may be hope for the hobby yet.

Time to Elmer! Not only is it easier than ever to become a General, but there are roughly 300,000 existing Technicians now suddenly authorized to work HF. Okay, so maybe they won't all flock to 40 meter CW, but they also have Data and SSB in a portion of 10 Meters. If you hear these people on the air, you may want to talk to them, encourage them and if any of them QSL you, please return the favor. Their experience, and the future of our hobby, just may depend upon us

## **Hamarama Location Change**

The Hamarama BOD met last Saturday and selected the new site for Hamarama. It is Ardmore Convention Center. It is located on I-35 at exit 33 in Ardmore. The dates for 2007 are October 26 & 27. There are still a lot of details to work out but we are well on the way. I will be getting it on the ARRL schedule soon. The convention center is a beautiful facility and I feel it's a step in the right direction for us. This year Hamarama will be an all inside hamfest so no weather problems.

If you could list it in your newsletter I would appreciate it.

Thanks

Henry Allen, K5BUG

GLA Systems

1-800-588-2841

[www.texasbugcatcher.com](http://www.texasbugcatcher.com)

[texbug@peoplepc.com](mailto:texbug@peoplepc.com)

## **EB - Amateur Radio Service Enforcement Actions**

Amateur Radio enforcement correspondence -- with some exceptions -- will be available to the public on the FCC's "Amateur Radio Service Enforcement Actions" Web site.

<http://www.fcc.gov/eb/AmateurActions/Welcome.html>

The listing will be cumulative, and Special Counsel in the FCC Spectrum Enforcement Division Riley Hollingsworth anticipates updating it every 7 to 10 days. The site will not be a comprehensive listing of enforcement correspondence. For example, it will not include letters requiring retesting pursuant to §97.519(d) of the FCC's rules, letters regarding radio frequency interference to amateur licensees and letters requesting an initial response to a complaint.

## **Global Amateur Radio Beacons**

Check out: <http://www.ncdxf.org/Beacon/BeaconSchedule.html> which lists all of the amateur radio beacons around the world on 20 through 10 meters and their schedule of operation.

## **NWS WXK22 Grayson County 162.475MHz**

If you hear any difficulties of Grayson County WXK22, please call 817-429-2631, option#4 and report it.

## Nets:

### Fannin County Amateur Radio Weekly Net

Every Tuesday @ 21:00CST on the 145.470-repeater

This is an informal information net.

### Grayson County ARES Net

2nd/4th Sundays @ 21:00CST on the 147.000+ repeater.

This is a directed information net. Wilmer Kinsey, WB5DCU, Net control

### 28.480MHz ARES Net

2nd/4th Monday @ 19:15CST on 28.480MHz USB.

### McKinney ARES Net

2nd Sunday @ 2100CST on the 146.740 repeater.

### Grayson County Repeaters

Primary – 147.000+ MHz w/100Hz CTSS PL

Secondary A – 147.080+ MHz w/100Hz PL

Secondary B – 146.520 MHz

444.750 MHz w/ 100Hz PL

### Durant Oklahoma Repeaters

147.390+ MHz w/118.8Hz PL

147.255+ MHz w/118.8Hz PL

### Van Alstyne TX

443.800+ MHz w/103.5Hz PL

### Gainesville TX Repeater

147.340+ MHz w/100.0Hz PL

### Bonham TX Repeater

145.470- MHz

### McKinney TX Repeater

146.740-MHz w/110.9Hz PL

MERA 443.2+MHz w/100.0Hz PL

### Ethyl TX

147.220+MHz w/100.0Hz PL, 1000' AGL

### McKinney Info Net

Each Sunday @ 2000CST on the 146.740-repeater with Dave Dunbar, N0RQ as net manager

### McKinney 6 meter AM Net

Each Wednesday @ 22:00CST on 50.400MHz



## GCARC Treasury Report

### CORRECTION

Last month I erroneously reported the balance as 1,261.41. This happened as a result of me looking on the wrong report for the previous month's balance. February's correct report should have looked like this:

Starting (number shown was correct)	\$1,005.29
Deposits (numbers shown was correct)	\$200.00
Expenses (correct)	\$0.00
Balance (Oops! Not \$1,265.41)	\$1,205.29

Bank Statement of 03/13/2007

Starting Acct. _____	\$ 1,205.29
(Difference from last months reported end balance – see above)	
Deposits _____	\$0.00
Expenses _____	\$ 0.00
Account Balance of 03/13/07 is ____	\$ 1,205.29

### NOTES:

#### Deposits:

\$ 0.00 – None

#### Expenses:

\$ 0.00 – None

Moe Knight, NT7C  
GCARC Treasurer

## Grayson County RACES and ARES

Wilmer Kinsey, WB5DCU  
EC Grayson County

### Grayson County ARES/RACES Updating ARES Roster

I am in the process of updating the Grayson County ARES roster. I want to make sure I have your latest address, phone number and email address if you have one. I will have ARES forms with me at the club meetings that you can fill out and return to me. You can go to the club web site click on "ARES", when that page appears look to the lower right and you will see "Amateur Radio Emergency Service Registration Form", click on it. This is a .pdf file, print it out on your printer, fill it out and send it to me. If you have a scanner, scan it in, save as a .jpg file and attach it to a email message to me.



### Simulated Disaster Drill

There are plans being formulated for a 2 day simulated disaster drill in the fall. I don't have any details and likely will not until later in the spring or summer. I don't if or how much we will participate in this drill. However, two of the Assistant Emergency Coordinators are working on a simulated drill just for our ARES group for the fall time frame. This will likely last about an hour or so.

### WEB Sites For Weather and EMCOMM Information

Listed below are three web sites that might be of interest to all:

- 1) <http://www.emcomm.org> - This site has a lot of information on emergency communication, some good, some not so good. It has some discussions and various peoples opinion about emcomm.
- 2) <http://www.spc.noaa.gov> - This is the web site for the Storm Prediction Center in Norman Oklahoma. They post information on storm watches, convective outlooks for three days, including the present day. They post the risk information for several days in advance.
- 3) <http://www.srh.noaa.gov/oun> - This is the web site for the NWS office in Norman Oklahoma. They post nice graphics on daily weather and weather for the next several days in advance.

### Sherman Warning Siren Test Net

The next warning siren test will be on Wednesday April 04, 2007 at 9:00AM. The net will be called up at 8:40AM from the Sherman EOC using the EOC call WC5GC. The Net Control Operators will either be Johnnie, KD5NIC or Daniel, KD5LLW. If the test is canceled all stations will be notified at this time. I will send out a roster each month prior to the test to all participants who have e-mail capability listing the station calls and siren numbers.

We are in need of more volunteers to monitor the sirens or as back-ups for the folks that are assigned a siren. This exercise takes approximately 45 minutes to complete. You DO NOT have to live in Sherman to participate. If anyone would like to volunteer to monitor one of the sirens the first Wednesday of each month at 9:00AM give me a call.

If you have any questions about the siren test net or if you can not participate please give me a call on the radio or on the phone, the phone numbers are at the bottom of the article.

Anyways the warning siren net is going very well. Keep up the good work!!!!

### ARES Magnetic Door Signs & Texoma Emergency Communications Association (TECA) Patches

I have 10 sets of magnetic door signs available. They are \$6.00 per set(2). Call me or e-mail me if you need a set. I also have a supply of Texoma Emergency Communications Association patches. They are \$2.00 each.

### **The BACK UP NET Control Station**

The function of the back up net control station is just that, back up the NCS. As stations check into the net record their call and name. Try to keep a running account of the net operation. Mark off the stations that check out or those that might be ask to move to another net. Be ready to take over as the NCS should the main NCS lose power, have equipment problems or just needs a break.

On our ARES Net as the Back Up NCS all you need to do is copy the stations calls as they check in. Should I have some problem with my equipment, lose power or some other calamity the Back Up NCS could continue on with the net or at least have a record of the check-ins so that he or she could get stations checked out and close the net.

### **Grayson County ARES/RACES**

If you need to fill out a ARES/RACES application please contact me or go to the website "AMATEUR RADIO in GRAYSON. Click on "ARES", look at the lower right hand corner and you should see the "Amateur Radio Emergency Service" and "Radio Amateur Civil Emergency Service" forms. They are .pdf files, just download, fill them out and return them to me.

All of the information is confidential and will not be made public. The forms will be kept in a secure location. If I don't have a digital picture of you on file I will be glad to take one, just let me know. RACES will only be activated if a disaster is declared by a government entity or upon request of the local Emergency Management Directors. David Woods, W5COP or myself, WB5DCU are the local RACES contacts.

Want to join ARES or RACES? Need an ARES badge? I can also take digital pictures for your badges. Please contact me.

I appreciate each and every ones hard work and dedication to ARES, SKYWARN and Public Service in Grayson County.

Thank you,

Wilmer O. Kinsey - WB5DCU

EC Grayson County

350 Mitchell Road

Sherman, TX 75090-3223

Home - 903-893-5872

Work – 903-868-7496

Cell – 903-271-3557

Pager – 903-867-7294

Send me an ALPHA page –

9038677294@pageaci.com

### **Buy- Sell-Trade Net 03/11/2007**

**FS** - ICOM 471A 70cm all mode transceiver.  
N5TPO has your electronic hardware needs.  
He has hose clamps, cable ties, alligator clips, terminal blocks and other assorted hardware. N5TPO, Gordon 903-868-0479

**FS** - Kenwood TS-850S/AT 160 through 10 meters (Including WARC) transceiver – 500KHz-30MHz receiver, 100 watts with built-in antenna tuner. MARS & 60 meter modifications done. Also has the additional BC band attenuator defeated. This is the rig that has been to GCARC Field day in the past few years. Those interested, please contact Moe, NT7C at 903-815-0342 or email at [nt7c@arrl.net](mailto:nt7c@arrl.net)

**Wanted** – Kenwood TM-455a  
David Woods, W5COP,

**Wanted** – Face Plate for Kenwood TM-V7A  
W5DPS, G.B. Hartman , 903-892-9945

**Wanted** – Diamond X500HNA Duel Band 2 meter/70CM antenna. Mounting bracket and microphone for an Alinco DR135. KE5GPG, Kevin, 903-227-5972

**Wanted** – ICOM IC2800H  
KD5HQF, Rod

## Meeting Minutes 19 February 2007 Meeting

Call to Order by President David Woods – W5COP – 1934 hours

Roll sheet passed around (17 signing in) and introductions made.

March 16 is the next meeting

Energy policy act of 2005 changing DST to the second Sunday of March

Old Business

- Club incorporation is being looked into

New Business

- Senate bill that's being looked at right now that's supposed to prevent the use of radios/cell phones without hands free while driving. Start writing letters now to try and get this bill fixed so that Amateur radios can still be used.
- Decide whether or not we will start a field day committee at the March 16 meeting. If we do we maybe want to try a noon meal instead of at 5 pm
- There will be a tailgate sale at Durant April 7 at 8 am
- ARES meeting at the airport March 3 at 9 am

Jeff Jones, Sherman Fire chief and the Emergency Management Coordinator was our guest speaker.

He told us about how the monthly siren tests are really going good and that all the help we've been giving is greatly appreciated. They will be having an open house for the new #5 truck they're getting, now it's time to look at getting a ladder truck. Also volunteered the station as a location for field day.

Meeting adjourned at 2043 hours

Respectfully submitted,  
Kevin Knight – KD7MSX

**'2007 Grayson County Amateur Radio Club Dues Form:**

Yourself:

_____	_____	_____	_____
First Name	Last Name	Call Sign	Class Held
_____	_____	_____	_____
Street Address	City	State	Zip Code
_____	_____	_____	
Ten digit Telephone Number	E-mail address	ARRL Y/N	

Additional family members:

_____	_____	_____	_____
First Name	Last Name	Call Sign	Class Held
_____	_____	_____	_____
First Name	Last Name	Call Sign	Class Held
_____	_____	_____	_____
First Name	Last Name	Call Sign	Class Held
_____	_____	_____	_____
First Name	Last Name	Call Sign	Class Held

One person individual dues @ \$12 per family

Family membership dues @ \$18 per family

Additional family members without additional expense – just fill in another sheet.

Please print this form, fill in and make checks payable to GCARC and bring to a club meeting.

The Grayson County Amateur Radio Club is planning on printing a membership roster. If you want any of the above information withheld from the roster – please place an “X” next to the information you want withheld. By default, all e-mail addresses will be kept private unless you check here: ( ).

If you can not make the meeting soon, please mail to:

Grayson County Amateur Radio Club

C/O: Moe Knight, NT7C

4522 Old Town Road

Whitesboro TX 76273