

## Clubhouse gets a freshening during cleanup day

The clubhouse got some much-needed attention during clean-up day, held July 25th.

The exterior was power-washed free of old spider webs and a layer of the finest West Texas dirt (did you know the clubhouse was white?)

Poles were painted, the fencing poles holding the parking barriers got a fresh coat of white paint, doors and the benches outside got a coat of red paint.

The interior was swept and organized, and a pickup load of books and other printed material was hauled off for recycling.

The back screen door was fixed so those pesky winged critters couldn't come in and interrupt while we are DXing or hammering out details for club activities.

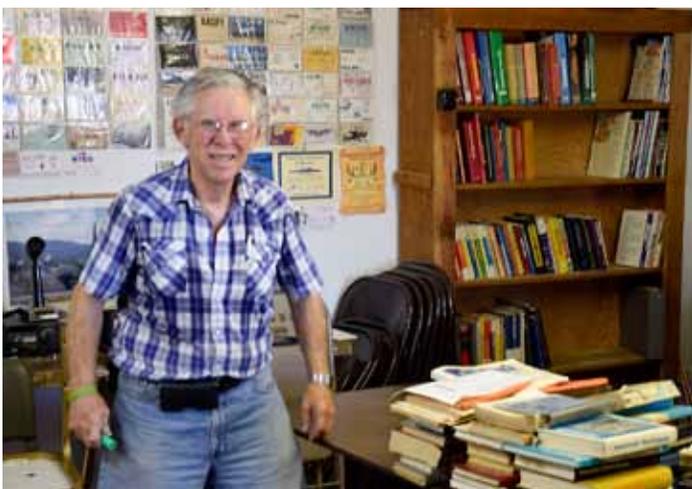
It got very hot, very quickly, so after the food was ready we enjoyed each other's company and decided to call it a day.

We got so busy with the cleanup efforts we forget to do the round-robin special event to introduce the new hams. Oops!

That's OK, we have another one planned when the weather isn't quite so warm. More to come!



*Ken Grimm, KG5BPY, puts some fresh paint on the light fixture outside of the clubhouse front door. The clubhouse looks much better and welcoming after the new paint!*



*Bob Heiser, W7IKT, sorts through mounds of books and other printer material for recycling. A full pickup load was hauled off to the recycling center.*

## Concho Valley Two Meter Net

This net meets every Monday night at 8:00 p.m. (2000) on 146.94/103.5 or 145.27/88.5 as an alternate repeater. All amateurs licensed to operate on that frequency are invited to participate.

\*NCS = Net Control Station

Date	NCS	Check Ins	Duration (minutes)
8/17	KB5FNK	14	11
8/24	KB5FNK	20	20
8/31	KB5FNK	12	16
9/07	KB5FNK	9	14



## Concho Valley Open FM Repeaters

### 2 Meter

- 145.27- San Angelo PL 88.5
- 146.88- San Angelo PL 88.5
- 146.94- San Angelo PL 103.5
- 147.06+ San Angelo No Tone
- 147.30+ San Angelo PL 88.5
- 146.72- Eldorado PL 100.00
- 147.34+ Robert Lee PL 88.5
- 146.90- Brady PL 162.2
- 147.36+ Brady PL 114.8  
(Echo Link Node)
- 147.39+ Eden PL 114.8

### 70 centimeters

- 441.750+ San Angelo PL 162.2
- 442.250+ San Angelo PL 162.2
- 444.225+ Robert Lee PL 162.2
- 444.350+ San Angelo PL 162.2
- 444.875+ Brady PL 162.2

### 6 Meter

- 53.63- San Angelo PL 88.5  
Linked to 442.25 Repeater

### D-Star

- 444.550+ KG5CNG

## San Angelo Amateur Radio Club Officers

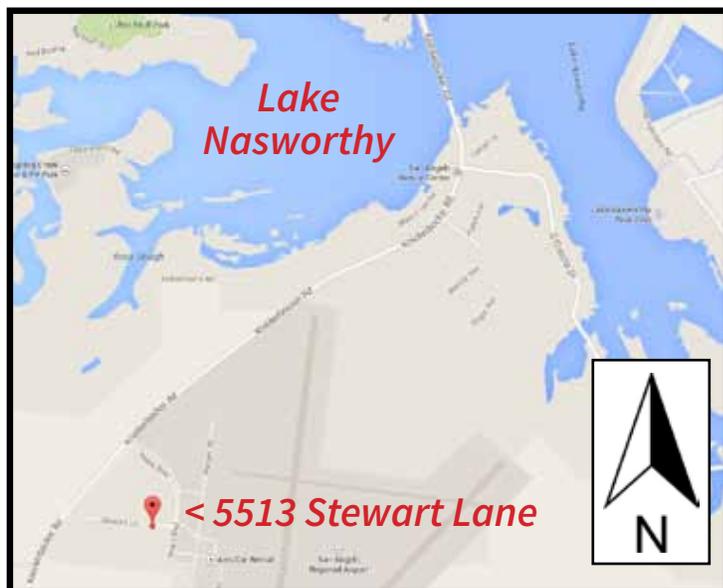
- President: Hughbert Robinson/KC5NPC
- Vice President: David Behrend/KF5FNK
- Secretary/Treasurer: Bob Freeman/KD5PIX
- Activity Director: Ken Grimm/KG5BPY
- Emergency Coordinator: Bill Hinds/KG5BQF
- Grounds Chairman: Ralph Stout/KA5ULE

## Appointed Positions

- SAARC Trustee: Charlie Campbell/KC5EZZ
- Registered Agent: Charlie Campbell/KC5EZZ
- Public Information Officer: Matt Healy/W5MAT

## Mailing Address

P.O. Box 4002  
San Angelo, TX 76902-4002



## Club House Location

5513 Stewart Lane, Mathis Field, San Angelo, TX



*ABOVE: Jimmy Welch, KG5BQE and Hughbert Robinson, KC5NPC repair the back screen door and help Ralph Stout, KA5ULE, working on some equipment in the clubhouse.*

*RIGHT: Ralph Stout, KA5ULE, mans the bar-be-que pit as he cooks some hamburgers for the crew.*



# The offices of the San Angelo Amateur Radio Club

## *An introduction to the offices of the SAARC — a great public service opportunity*

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It's that time of year again, time to be thinking about a role of service in the San Angelo Amateur Radio Club as an officer of the club.

If you think you'd like to serve in that capacity, but don't know exactly what the role of an officer entails, here's a handy guide.

If there is someone who you think would make a great officer for the club, make sure to nominate them at the December meeting. An officer is elected by a simple majority vote and takes office at the first meeting in January of the next year.

The officers serve for one-year terms. Should there be a vacancy occurring between elections, the vacancy is filled by special ballot or vote at the first meeting at which a resignation or withdrawal is announced.

### ***What does an officer do?***

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In general, the bylaws of the club state: "No salaries or other compensation shall be paid to any officer of the SAARC. No expenses except normal, recurring operating expenses (e.g., electric, insurance, property lease, etc.) may be obligated by any officer or member of the SAARC without prior approval of the membership. The Executive Committee may obligate funds not to exceed 100 dollars for extraordinary or emergency purposes."



### ***President***

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The current president of the SAARC is Hughbert Robinson/KC5NPC, seen here at the 2015 Field Day discussing operations with Ralph Stout/KA5ULE.

The club's bylaws state the duties of the president as "The President shall preside at all meetings of the SAARC and Executive Committee and shall conduct the same according to the rules adopted; he/she shall enforce observance of this Constitution and Bylaws, decide all questions of order, sign all official documents adopted by the SAARC, and perform the customary duties of the office of the President. The President shall appoint those offices necessary to accomplish the goals of the SAARC as set forth in this Constitution and Bylaws."



*David Behrend*

### ***Vice President***

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The current vice president of the SAARC is David Behrend/KF5FNK. One of the vice president's main duties is providing a program for each regular meeting, plus filling in for the president if needed.

The club's bylaws state the duties of the vice president as "The Vice President shall act in all absences of the President and shall secure all programs for regular meetings of the SAARC."

### ***Secretary/Treasurer***

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The office of Secretary/Treasurer is currently vacant. The club is undergoing a restructuring process of this important position — more to come. A proposal should be ready for voting on by the membership by the next full meeting which will be held on September 10 at 7:30 p.m. at the clubhouse. *You don't want to miss this important meeting!*



*Ken Grimm*

### ***Activities Manager***

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The current activities manager for the SAARC is Ken Grimm/KG5BPY.

The club's bylaws state the duties of the activities manager as "The Activities Manager shall organize SAARC radio operations activities and plan and recommend contests and other activities which benefit and advance general SAARC interest and activity. He/she shall encourage new stations to report activities to the SAARC newsletter editor and to the Section Communications Manager of the American Radio Relay League (ARRL), all of these things to make the reputations of the SAARC and Amateur Radio activities in the community as visible and outstanding as possible. He/she shall appoint those committees or assistants necessary to aid in specific activities."



*Bill Hinds*

### Emergency Coordinator

The current emergency coordinator for the SAARC is Bill Hinds/KG5BQF.

The club's bylaws state the duties of the emergency coordinator as "The Emergency Coordinator (EC) shall maintain close liaison with the ARRL EC or Section EC to further fullest possible SAARC participation in nationally and locally recognized

radio emergency services.

The EC shall remain informed by questionnaires or other means as to the equipment, normal operating frequencies, and hours and types of operation of those members who possess station equipment to facilitate emergency organization.

Further, the EC shall serve as liaison between the SAARC and municipal, state, and national authorities on matters related to emergency communications and, in times of emergency, shall coordinate the activities of the SAARC to provide the maximum communications and services possible. The EC shall appoint those assistants necessary to aid in his/her duties."



*Ralph Stout*

### Grounds Chairman

The current grounds chairman for the SAARC is Ralph Stout/KA5ULE.

The club's bylaws state the duties of the grounds chairman as "The Grounds Chairman shall be in charge of the maintenance of SAARC physical properties.

He/she shall maintain an inventory of such properties and shall provide an itemized list of such properties and their condition to his/her successor upon retirement from office.

He/she shall provide the President with a schedule of workers and work days to be recruited by the President for grounds maintenance, building, etc."

Nominations and voting take place at the December meeting "eat and greet," time and place to be announced. Be thinking about possibly serving in one of these roles or have someone in mind you think would make a great officer for the club.

See you there in December! 73, Ken/KG5BPY



*Carol Heiser, N5CBQ, sweeps and organizes the storage shed of the clubhouse during clean-up day, held July 25, 2015. Some much-needed attention was given to the club to help it look welcoming and inviting to visitors and members.*

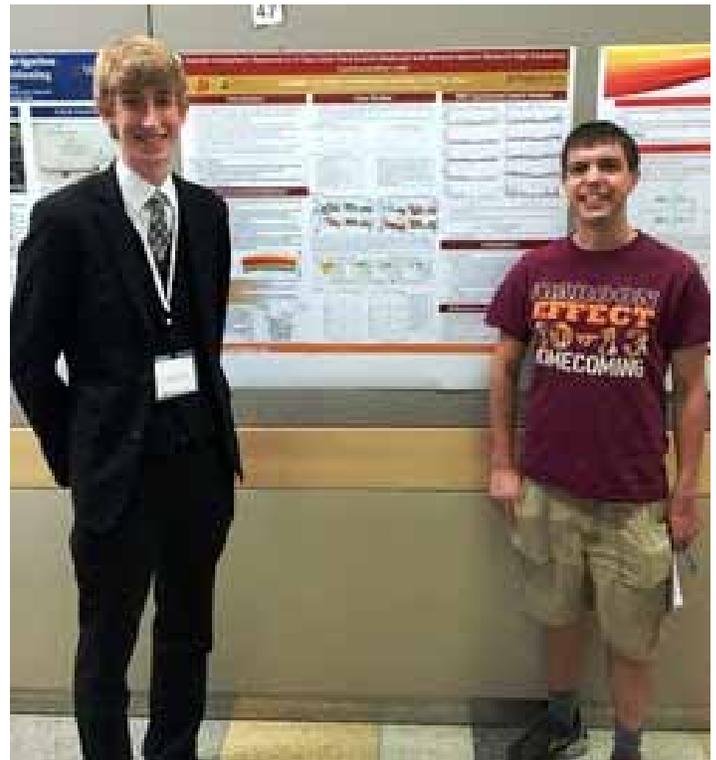
## Undergrad radio amateur uses reverse beacon network in research project

ARRL News — A Virginia Tech undergraduate researcher and radio amateur has used Super Dual Auroral Radar Network (SuperDARN) and Reverse Beacon Network (RBN) data to study how solar flares impact HF radio propagation over the entire dayside -- the time Earth is in sunlight -- with communication loss related to both flare intensity and distribution. Carson Squibb, KM4MBQ, recently summarized his findings in a poster presentation, "Dayside Ionospheric Response to X-Class Solar Flare Events Observed with Reverse Beacon Network High Frequency Communication Links." As most HF operators understand, higher-intensity flare events can cause complete signal loss on HF, while weaker flares may only partly inhibit radio propagation.

According to Squibb's poster, a solar flare is an event in which the Sun emits high levels of ultraviolet and X-ray radiation, resulting in increased photoionization in the ionosphere, primarily in the D-layer, which is largely responsible for absorption of HF radio waves. So, as ionization increases during flare events, communication can be diminished or lost completely. Such fadeouts can occur in minutes, while subsequent recovery can take hours, "which is why understanding these flare effects is of critical importance," Squibb said.

According to Squibb, the rate of communication loss is related to the increase in X-ray intensity, and the period of recovery is influenced by both flare intensity and the rate of decline in X-ray flux after peaking. Squibb determined that lower frequencies experience fades in propagation prior to the flare peak, with recovery taking longer, while the degree of loss is more severe as frequency decreases.

Squibb's poster explains that SuperDARN detects a ground-scatter band that results from waves reflecting from the ionosphere and ground, and that this band is degraded during solar flare events. To determine the spatial distribution of flare effects, Squibb used data from four radars across North America. He used the RBN -- an array of passive receivers which detects Amateur Radio



*Carson Squibb, KM4MBQ (left), and Nathaniel Frissell, W2NAF. Squibb, a Virginia Tech undergraduate researcher and radio amateur has used Super Dual Auroral Radar Network (SuperDARN) and Reverse Beacon Network (RBN) data to study how solar flares impact HF radio propagation over the entire dayside with communication loss related to both flare intensity and distribution.*

signals and posts identifiable call signs on the Internet -- to measure HF communication. Squibb chose 3.5, 7, 14, 21, and 28 MHz for study. X-ray flux data within the 0.05-0.4 nm and 0.1-0.8 nm ranges were taken from the GOES-15 geostationary weather satellite.

Squibb said future research should focus on quantifying the relationship between flare characteristics and HF signal fadeout.

Squibb conducted his research under the guidance of graduate student Nathaniel Frissell, W2NAF, and SuperDARN group supervisors Jo Baker and Mike Ruohoniemi, as part of his participation in the Research Experiences for Undergraduates (REU) program sponsored by the National Science Foundation and hosted by the Center for Space Science and Engineering Research (Space@VT). His co-authors included Magda Moses, KM4EGE, of Virginia Tech, and Robyn Fiori of the Canadian Space Weather Forecast Center.



# Meeting Minutes

## Minutes from August meeting on August 13, 2015

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Meeting was called to order by President Hughbert Robinson KC5NPC at 7:00pm.

There were 10 people in attendance.

Mike KD5URW moved and Jimmy KG5BQE seconded that we accept the minutes from the July meeting as printed in the eKiloWhat newsletter.

Hughbert KC5NPC read the financial statements from the last month at the meeting.

Vice President David KB5FNK had no report.

Activity Chairperson Ken KG5BPY said then next event will be the Lilly Fest coming up in September.

Bob W7IKT updated membership on things that were done during the cleanup day back in July including cleaning out the bookshelf.

Motion was made by Ralph KA5ULE and seconded by Bob W7IKT that in the future editions of the eKiloWhat, we will only mention that the financial report be accepted as read at the meetings.

Hughbert KC5NPC stated that there were 4 people he was aware of that wanted to take the next Technician Class. That date has yet to be determined. Ralph KA5ULE stated the someone on Goodfellow AFB has contacted him about having a class on base. Awaiting word from contact on base before deciding when to conduct the next class.

Bob W7IKT counted the change in the soda donation jar and it amounted to \$42, he gave to to Hughbert KC5NPC.

Due to the amount of stuff either donated or brought out and left at the clubhouse, it was decided in the future, that anything brought out to clubhouse will be 'timestamped' and

after short time (likely a couple of months) will be disposed of.

The club is now exploring options to locate a new source to make new shirts for sale to anyone who wants them.

Split the Pot was worth \$34 and David KE5PNQ donated his winnings back to the club.

Motion was made to adjourn by David KB5FNK

### Let's share a meal!

Come join us for a meal and some fellowship fun! The Tom Green County hams get together regularly to eat and greet and just have some fun. The current schedule is:

#### Wednesday, 7:30 AM

##### **T-Bears Café**

2105 Knickerbocker Rd

#### Thursday, 9:00 AM

##### **McDonald's (Wal-Mart)**

5501 Sherwood Way

#### Saturday, 7:30 AM

##### **T-Bears Café**

2105 Knickerbocker Rd

#### Saturday, 9:00 AM

##### **McDonald's (Wal-Mart)**

5501 Sherwood Way

## Upcoming Hamfests/Conventions

Date	Event	Location	Information
10/03/2015	HamEXPO	Belton, TX	<a href="http://www.tarc.org/hamexpo/">http://www.tarc.org/hamexpo/</a>
10/31/2015	South Texas Hamfest	Aransas Pass, TX	<a href="http://www.southtexashamfest.org">http://www.southtexashamfest.org</a>

Hamfests and Conventions are listed for Texas.

Others may be found at <http://www.arrl.org/hamfests/search>.



# Tom Green County Amateur Radio Emergency Service

*The Tom Green County ARES group meets the third Thursday at 7:00 p.m. (1900) of each month at the Clubhouse unless announced otherwise on the Monday net.*

*The Tom Green County ARES group is sponsored by the San Angelo Amateur Radio Club.*

## Training opportunities starting this month

*A note from Steve Mild, for more information please contact him or David Eaton, KB5EDB*

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All,

In light of our need for continued position specific training for when the EOC is activated, I have set the following dates for additional training. These will be the 1 1/2 to 2 hour training sessions. If you have any questions as to whether you should take this training, please call me or email me. The classes are as follows:

### **1. Friday, Sept. 18th - 1:30PM to 3PM - Disaster Summary Outline (DSO) Training**

This class identifies the information that is needed immediately after the disaster has struck, in order for the Mayor/County Judge to declare a local disaster and to request assistance from the state. This class identifies who is responsible for gathering what information, and how that can be done rapidly.

**2. Wednesday, September 30 - 1:30PM to 3PM - Logistics Section Training** - This will be the second session of the basic training where we break down the Logistics Section into each specific unit within the Section and address the responsibilities and duties of each unit.

**3. Friday, October 9 - 1:30PM to 3PM - Planning Division Training** - This class identifies the specific units within the Planning Section, and addresses the responsibilities and duties of each unit.

Please let me know if you are planning on attending.

Respectfully,

Steve Mild, EMC  
8485 Hangar Rd.  
San Angelo, Texas 76904  
(O) 325-657-4230  
(C) 325-276-0817

Class Details [View Full Course Description](#)

Class Name: **NIMS ICS All-Hazards Type III Communications Unit Leader (COML)**

Course Number: E/L-969

Date Span: 09/21/2015 - 09/23/2015

Class Times: 09/21 08:00 - 17:00

09/22 08:00 - 17:00

09/23 08:00 - 17:00

Location: Tom Green County EOC

8485 Hangar Rd

San Angelo, TX 76904

County: Tom Green

Region: Concho Valley Council of Governments

Instructor: Gonzalez, Thomas

Provider: Office of Emergency Communications

Point of Contact: Thomas Gonzalez

Texas Department of Public Safety

361-698-5645

[thomas.gonzalez@dps.texas.gov](mailto:thomas.gonzalez@dps.texas.gov)

CEUs 2.80

#### Prerequisites & Other Information:

Each student should be familiar with their Tactical Interoperable Communications Plan (TIC Plan), State communications Interoperable Communications Plan (SCIP) and the Regional Interoperable Communications Plan (RICP) and/or your local communication plan and communication assets. Listed below are the Type III All-Hazards COML prerequisites that candidates must possess to receive a certificate for course completion.

- A public safety communications background with exposure to field operations. Fundamental public safety communications technology awareness, supervisory, and personnel management skills.
- Basic knowledge of local communications and communications system, frequencies and spectrum, technologies, local topography, system site locations including knowledge of local, regional, and state communication plans, and communications and resource contacts.
- Completion of ICS-100, 200, 300, 700, and 800b.

#### Note for all Students

All students must complete the attached FEMA 119-25 (with SID) and have it signed by yourself and your supervisor and bring to class. The FEMA SID has replaced the SSN on all DHS Classes. If you do not have a SID you can go to: <https://training.fema.gov/EMI/> and click on the link for FEMA SID.

[119-25-1 Application Form \(SID\).pdf](#)

#### Certificates:

N/A

#### Cost:

No tuition is charged.

# SCANNER JACK'S CORNER



**"Scanner" Jack Roberts**  
**KB5TMY**



*Here are the frequencies  
for the San Angelo  
Independent School  
District (SAISD):*

**461.375 Maint. Base 1**  
**461.050 Buses base 2**

*Fire mutual aid  
frequencies used for  
the Head of the River  
Ranch wildfire near  
Christoval:*

**154.160 Old county fire**  
**154.280 V Fire 21**



## TGC-ARES new training manual

Chuck and Max Dixon (K5QZQ and K5FDC) have provided the TGC-ARES members with a book "Radio Traffic Handling Training Manual."

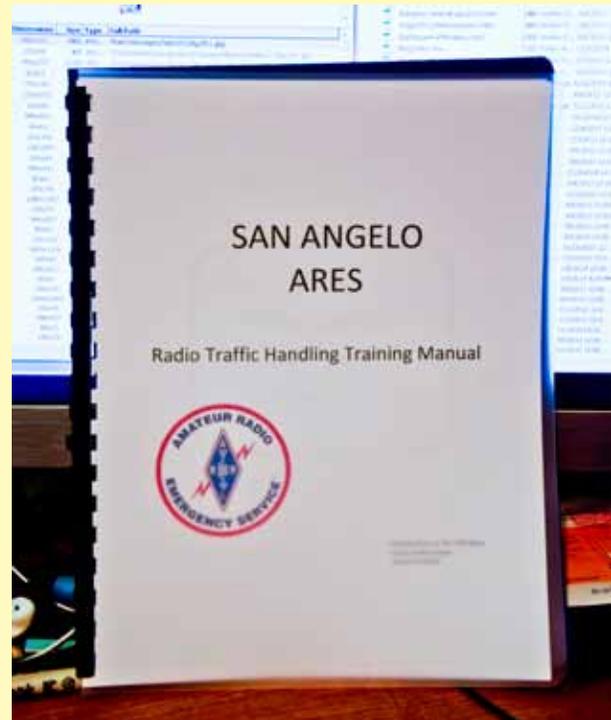
The book is a recap of "Traffic Training" by Jo Ann Keith/KA5AZK, first written in September of 2013.

Some of the topics addressed are:

- What is traffic?
- Why learn traffic handling?
- Basic net operations
- The 4 parts of a message
- Many form examples, common procedures, call signals, abbreviations, and so much more!

This is a must-have for members, chock full of useful and relevant information for handling traffic in a mature and professional manner.

*TGC-ARES thanks you, Chuck and Max!*



## HF Nets of Note *By Gary Chaffin/W5ETJ*

Net	Days	Local Time	Dial
Concho Valley Ragchew Net	S-M-T-W-T-F-S	0600	1900*
Concho Valley Ragchew Net	S-M-T-W-T-F-S	1700	3825**
7290 Traffic Net	M-T-W-T-F-S	1000-1200	7290
7290 Traffic Net	M-T-W-T-F	1300-1400	7290
Texas Traffic Net	S-M-T-W-T-F-S	1830-1930	3873
Central Gulf Coast Hurricane Net	S-M-T-W-T-F-S	1900-2000	3935
Texas ARES Net	Monday	1930-2000	3873
Big Bend Emergency Net	Sunday	0830-0930	3922
Texas Trader's Net	Sunday	0900-1000	7245
Concho Valley 6 M Roundtable	Sunday	2100	50.135

\* Alternate frequency: 3825. \*\* 7212, or close, for summer months.



### *San Angelo Amateur Radio Yahoo Group*

## Yahoo Group for all hams

*By Ralph Stout KE5ULE*

Join this Yahoo group made for all hams! Fully functional with pictures, calendar, files section and link section.

From the site: "Welcome to the San Angelo Amateur Radio Group!"

All ham radio operators are welcome to join the group, upload files, links and photos. Be sure to check the calendar for upcoming events.

All are welcome to use this group to discuss Amateur Radio, share tips and promote Amateur Radio in San Angelo and the surrounding area."

This is a restricted group that requires approval for membership, and messages require approval for posting.

Go here for more information and to join!

<https://groups.yahoo.com/neo/groups/saarg76903/info>

## ON THE NET

[www.csvhfs.org](http://www.csvhfs.org) — Central States VHF Society

[k5wph.org](http://k5wph.org) — Sun City ARC K5WPH

[www.w5es.org](http://www.w5es.org) — El Paso ARC W5ES

[k5elp.com](http://k5elp.com) — West Texas Rptr Assn, K5ELP

[www.hamradioelpaso.com](http://www.hamradioelpaso.com) — New web site in El Paso

[www.bigbendarc.com](http://www.bigbendarc.com) — Big Bend ARC, Alpine TX

[www.w5qgg.org](http://www.w5qgg.org) — Midland ARC, Midland TX

[K5LIB.org](http://K5LIB.org) — Lubbock ARC, Lubbock, TX

[hamradio.noaa.gov](http://hamradio.noaa.gov) — United States Skywarn

[wx.findu.com/k5wph](http://wx.findu.com/k5wph) — SCARC's WX Sta

[dx.qsl.net/propagation/index.html](http://dx.qsl.net/propagation/index.html) — Flare/MUF info

[spaceweather.com](http://spaceweather.com) — Aurora, sun spots, CMEs

[www.irlp.net](http://www.irlp.net) — Internet Radio Linking Project

[irlp.g4eid.co.uk/status/all\\_reflectors.html](http://irlp.g4eid.co.uk/status/all_reflectors.html) — Shows status of all reflectors

[www.sota.org.uk](http://www.sota.org.uk) — Summits on the Air

[www.w5qx.org](http://www.w5qx.org) — San Angelo ARC, San Angelo, TX

[www.abilenehams.org](http://www.abilenehams.org) — Abilene ARC, Abilene, TX

[www.orgsites.com/tx/w5wx](http://www.orgsites.com/tx/w5wx) — Panhandle ARC, Amarillo, TX



*International Lily Fest*

September 19, 2015

*SAARC 91st Anniversary Party*

October 17, 2015



Membership renewals are due each January. Regular memberships: \$20, Each additional family member: \$5; Seniors (age 65+) and Juniors (under age 19): \$10, Renewal package deal: 5 years for \$80, Associate members: \$20

Dues may be paid to the secretary at any club meeting or mailed to the club's post office box.



**Application  
for  
Membership**

_____		
Last Name:	First Name:	Call Sign:
_____		
License Class:	Year First Licensed:	Previously Held Calls:
_____		
Mailing Address:		
_____		
Physical Address (if different from above):		
_____		
City:	State:	ZIP:
_____		
Home Phone:	Work Phone:	Cell Phone:
_____		
E-mail address:		
_____		
I hereby give permission to publish the above information in the club's membership roster which is distributed to all club members. Check here <input type="checkbox"/> if you do not want your e-mail address linked on the club's Web site.		
_____		

Signature	Date
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