

# AARC COVER

Keeping Austin Wireless  
for Over 93 Years!

Bulletin of Austin Amateur Radio Clubs

ISSN 1067-0262

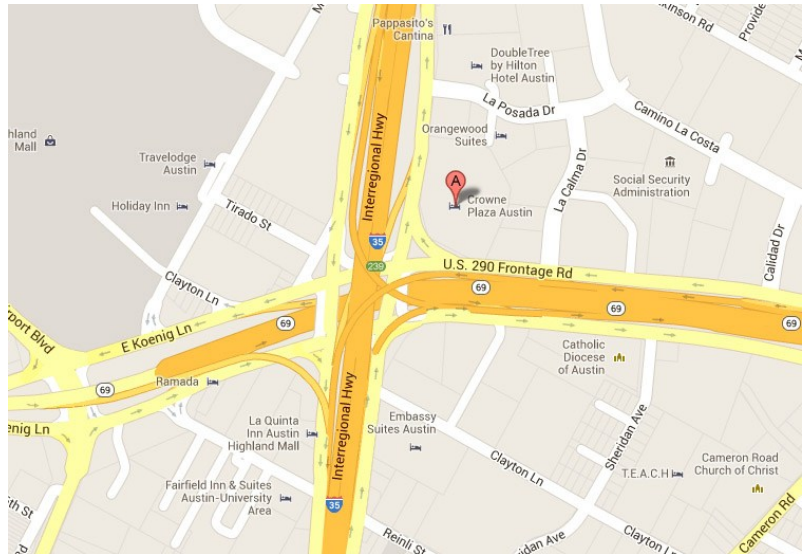
July 2013

Issue 7-2013

## Austin Summerfest 2013!

The premier ham fest in Austin is nearly here! August 2nd and 3rd marks this years Austin Summerfest! As always, there are great technical sessions to attend. Speakers include Greg Jurrens, K5GJ of Flex Radio Systems, Troy Kimmel, KE5BCK one of Austin's leading meteorologists, Dr. David Woolweaver, K5RAV who will be conducting this years ARRL Forum, and many others!

What's new this year? First off a change in location! The convention and swapfest will be at the Crowne Plaza located at 6121 N IH-35. There will be tons (literally) of great swap fest items both new and old, hidden treasures waiting to be found! Plus if you register before July 24th you can qualify for the advance registration prize! See Page 8 for all the details, or point your browser to [www.austinsummerfest.org](http://www.austinsummerfest.org) for all the latest information!



### Periodic Events

Sun	7:30 p.m.	Travis ARES net	147.36 MHz + (131.8)
Sun	8:00 p.m.	Travis ARES Packet	145.73 MHz -
Sun	8:00 p.m.	Williamson ARES net	146.64 MHz - (162.2)
Sun	9:00 p.m.	ARO Swapnet	146.94 MHz -
Sun	(After Swapnet)	Newsline	146.94 MHz -
Mon.	7:30 p.m.	STX ARES Net	3.873 MHz
Tues.	7:30 p.m.	Hays ARES net	444.150 + (114.8)
Tues.	8:00 p.m.	Bastrop ARES Net	443.750 + (114.8)
Wed	11:30 a.m.	Ham Social Luncheon, Jim's	146.94 MHz -
Thu	9:00 p.m.	2m SSB Net	144.250 (USB)
Thu	11:00 a.m.	Lunch, Pokey Joe's 183&Great Hills	444.1 MHz+
Fri	8:00 p.m.	6m SSB Net	50.230(texasvhf.org/)
Sat	7:00 - 8:30a.m.	Breakfast @ Waterloo Ice House	444.1 MHz +
Sat	9:00 a.m.	Chapter 67 QCWA QSO Net.	3.920 MHz LSB
Daily	6:30 p.m.	Central Texas Traffic Net	147.14MHz+

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# Ham Radio Exams Results

The following are the results of the ARRL VE Test Session held on June 1st at Bethany United Methodist Church:

## Technician Class Licenses Processed

Luke B Berube	Lisa L. Brooks	Nelson R. Gomez
Caleb N. Gross	Lester H. Haines III	McCartney M. Taylor
Gaylene R. Tunison	Bruce N. Witebsky	

## General Class Licenses Processed

Robert D. Holcomb	Joshua T. King KF5UVL	Travis L. McCowan
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## Extra Class Licenses Processed

Antonio A. Blas KF5ULC	Matthew P. Porcher KF5VNM
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## Examiners Participating in this Test Session

Tony Davee KM5JH	Howard Glueck K5ZUA
Larry Gunter WB5BEK	Ted Iglehart KF5END
Blaine Kubesh K5KUB	Joe Makeever W5HS
Joe Thiel N5SMN	

## Next ARRL VE Test Sessions

July 6th - Bethany United Methodist Church, Disciple Bldg. Room 203/204  
August 3rd - **AUSTIN SUMMERFEST**, ARRL Texas State Convention, Crowne Plaza Hotel @ 12:30

TNX ES 73 DE W5HS

Joe

6-15-2013

The South Austin W5YI VE team heartily congratulates the following persons who earned their new or upgraded amateur radio licenses at our June 16<sup>th</sup> session:

## Extra Class –

### General Class –

Brian Daugherty (new)	Victor Neshyba (new)
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### Technician Class - (new)

Mark Schattenberg	Geoff Shannon	Dennis Weyer
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And thanks to the W5YI administering volunteer examiners:

Craig Bean, AC5KW	Scott Bryan W5TS
Sam Mihalik KM5MY	Bill Duke, AF5JD
Joe Bryan K5BRY	

Our next two sessions are set for July 20<sup>th</sup> and August 17<sup>th</sup> in Fleck Hall room 118 on the campus of St. Edward's University. All sessions are walk-in and the exam fee is \$14.

Bring two forms of ID (one with your picture) & a copy of your license, if upgrading.

For additional information regarding our amateur radio examination sessions, please contact Craig, AC5KW at [\(512\) 474-6443](tel:5124746443) or by e-mail to [hamradioexams@hotmail.com](mailto:hamradioexams@hotmail.com) or visit our web page at <http://texashams.org/w5yi-austin/>

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Vice President	Rich Kerschner	KC9VFT		vice-president@austinhams.org
Treasurer	Jay Hoffman	KA5OST		treasurer@austinhams.org
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ARRL Travis Co. Emer. Coord.	Glen Reid	K5FX	263-5700	k5fx@arrl.net
TC ARES PIO	Steven Polunsky	W5SMP		tcares-pio@gmail.net

Please contact a club officer, attend a meeting, mail us to join the organization, you can also join or renew online.

**The Austin Amateur Radio Club, Inc. (AARC)** has annual membership dues of \$20.00 per person or \$30.00 per family. AARC maintains the following repeaters:

FREQUENCY	AUTOPATCH	USE
146.780	No	
146.880	Yes	General
146.940 107.2 PL Tone	No	Most popular, WX, Swapnet & Newslite
224.800	No	
444.100	No	
440.650 +5	No	70cm D-Star Repeater [W5KA]
146.480/+1.0	No	2m D-Star Repeater [W5KA C]
1293.200/-20	No	23cm D-Star Repeater[W5KA A]
1248.200	No	23cm D-Star DD (data, simplex/reversible) [W5KA A]

Persons using the repeaters are asked to join the club to help support these valuable resources. To use the autopatch, announce your call sign, press \* and dial the phone number then release the PTT. When finished, press # to hang up the phone. Dial 911 (no \* needed) for emergency services.

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Viewpoints expressed in the AARCOVER do not necessarily reflect those of any club, or of its members, directors, or officers.

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Members and other readers are encouraged to submit material for publication. Call Mitch London, if mailed submissions are required. Electronic files are encouraged! Submissions may be edited for publication. **Deadline is the 20th of the month.**

Material may be used in a later issue. Unless otherwise noted, permission is granted to reprint AARCOVER articles, provided you credit the author and the AARCOVER.

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**For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN:**

See Jay Hoffman, KA5OST

ka5ost@arrl.net

**Jay handles all changes for membership information .**



## **Red Cross changes area covered and Club station W5KA keeps up-**

By Stuart Rohre, K5KVH

A historic milestone has been reached with the naming of the Austin Red Cross offices as the headquarters for the Central TX Region of the American Red Cross. This expansion to over 48 counties under Austin, means to support Red Cross as our served agency per the Memo with ARRL and ARES, W5KA needs capabilities to cover the counties on either VHF/UHF or HF.



The areas to be covered in TX extends to Ft. Worth and Dallas outskirts, south to San Antonio, West to San Angelo and nearby counties, and North to Brownwood, and East to Bryan/ College Station, as well as Waco, Killeen, and as we found out this past month, the disaster area at West, TX.

Luckily, AARC has been supporting those ranges with W5KA since 1976, as you can never predict where a disaster may strike next in TX. In 1976, Red Cross and AARC entered into an agreement. Red Cross provides station space, utilities, building insurance, janitor services, meeting rooms for small class activities and off street lighted parking. Also now provided are internet services, and access to the VOIP telephone system. Red Cross has generously provided locked storage space for storage of club owned equipment like emergency tower sections, spare antennas, slip up masts, generator, and fuel cans. Field day/ Disaster Kits are stored at Red Cross for use in June Field Day activity.

Recently, a revision of the club station operator desks was completed. Reflecting the requirements to handle messaging with the City EOC and Red Cross via email formats under ICS, a dedicated packet station operating position was created with its own donated printer. This will handle ARCHES duty, Winlink, packet, PSK 31, and eventually other digital modes. It is primarily VHF/ UHF oriented.

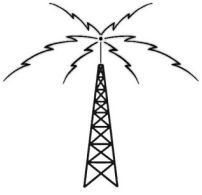
That lead to a revision of the other operator desk, to be primarily HF, but it also has a donated Yaesu 2500 for 2m FM ARES duty, as well as a Realistic 2m FM for use on tactical nets when needed. The HF desk has the capability of 5 Kenwood HF radios, which are used for Field Days.

All three VHF positions were in use in the April 27 SET that tested state wide ARES capability, and resulted in 57 messages sent and received via W5KA, (114 total simulated messages).

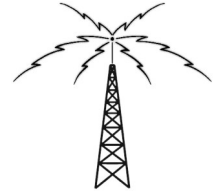
Red Cross made it possible to replace all CRT monitors at W5KA by donating 7 flat screen monitors. All CRTs are now replaced by flat screens, and two older computers were replaced by modern routers courtesy of HSMM volunteers. Red Cross was the source of another computer. It is being evaluated and updated with software needed for ARES use. A Red Cross main server was donated, but may be used for trading as it is really larger than any needs at W5KA. (One concern with donations is the needed power and cooling considerations in the W5KA station). W5KA has a linear HF amplifier, but it is kept in reserve due to power and cooling needs. (With the antenna complement, state wide coverage is possible with 100 watts or less.)

The expansion of operating positions has created the need to install another VHF/UHF antenna on the roof. Plans are underway to do needed maintenance and at the same time, install a donated disc cone antenna for all VHF/ UHF bands. It may go on an existing mast replacing a 2m/ 440 only antenna that is needed on the roof to provide a back channel UHF link during co-operation with CTECC nearby on 51st St. A group of Red Cross affiliated hams that are part of the Disaster Services

*(Continued on page 5)*



# Over the WWWWaves...



**A Collection of useful and interesting Websites sent in by our readers**  
(All links have been checked by editor as working at time of publication)

Solar impulse is in the air and on its way to Washington DC.

<http://live.solarimpulse.com/>

Forwarded by Gene Preston, K5GP

From Robert Sisco, K5LYT, in Corpus

A couple of videos...

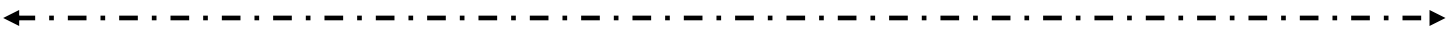
A piece on workings data with your handheld rig

<http://m.youtube.com/#/watch?v=bT131WBHKxch>

DIY printed circuit boards

<http://m.youtube.com/#/watch?v=wKEe3otWstM>

Forwarded by Rick Herndon, K5FNI



*(Continued from page 4) Red Cross*

Technology section of Red Cross and ARES/ RACES members, are volunteering to head up the needed antenna work. (More experienced tower climbers are welcomed for relief duty.)

A work plan for tower maintenance has been written; and a bill of materials is being priced out after the club passed a motion to budget \$500 for tower and antenna upkeep. As time permits, some internal room work at the station is planned with Red Cross providing painting tools and paint.

One internal project is to replace several old back up batteries and a defunct UPS. A source of free Deep cycle Marine batteries is being sought.

Club members are reminded that visits and use of W5KA can be scheduled each month on the fourth Wed. (This is the same day that HSMM meets at Red Cross). Access to the station requires escort by a Red Cross cleared ham who has building keys and access codes. Any club member is invited to come and see what HSMM is all about, and after the meeting visit the club station. Users must have a Tech license for VHF/ UHF, and a Tech Plus, General, Advanced, or Extra Class license for HF band use within their license privileges.

-Stuart Rohre  
K5KVH RED CROSS Liaison AEC, ARES

## HSMM-MESH Makes QST Cover for the Second Time???

The July 2013, QST magazine contains an article on page 68 on the use of HSMM-MESH (TM) / Broadband-Hamnet(TM) in support of the Big Bend 50 Ultra Marathon foot race.

Beyond that, it is the cover story of the July QST. Our Austin mesh crew made the cover!

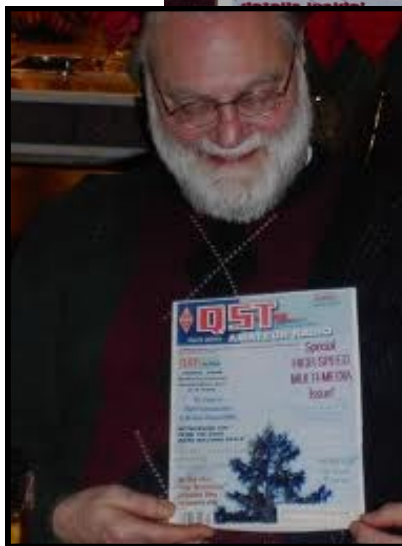
Some of you may have known K8OCL, John Champa, who was the first ARRL HSMM Working Group chairman. He is now a Silent Key.

He had a photo taken of him back in 2003, with a "dream" photo-shop edition of QST in his hands with HSMM on the cover. He worked hard for many years to help hams realize that we have been gifted with some mass produced consumer gear ( like the LInksys WRT54G ) that allows hams to get into wireless broadband radio at prices of a lifetime!

I am glad to see that we managed to carry on his efforts with HSMM gear and have actually made the cover of QST, 10 years after he held up his "dream" copy of QST.

Your printed copy of the July QST should arrive soon. Please do what you can to help raise interest in HSMM efforts in your area. It would make John happy to know that the word is getting out - cheap ham gear with massive bandwidth capability, so hams can have their own version of a wireless broadband tool.

-Glenn Currie  
KD5MFW  
Stuart Rohre  
K5KVH



**John Champa, K8OCL (SK) with his "Dream QST" Cover in 2003.**



## **New Technician Classes Start June 30th**

Our next set of Technician Classes start on Sunday June 30th at the Williamson Co Jester Annex in Round Rock... The classes will run from 2:30 - 6:30 and we have room for 30 students...

Info is posted on the [www.austinhams.com](http://www.austinhams.com) website... Dates/Times, Maps, Links on where to buy the ARRL Ham Radio License Manual... Registration is dirt simple, just e-mail me at [kd4hnx@arrl.net](mailto:kd4hnx@arrl.net) and I'll take care of the rest...

This class is a follow up to Field Day... Invite folks to Field Day, set the hooks in, then send them to class... They only need to read the first 3 chapters before the first class and then 2 chapter per week...

Chapter 1; Welcome to Amateur Radio  
Chapter 2; Radio and Signals Fundamentals  
Chapter 3; Electricity, Components and Circuits

73 Dallas, KD4HNX

## **Red Cross Helps in West, Texas**

As many club members know, Austin ARC is a partner of our served agency, the American Red Cross, Central TX Region, that now covers 48 counties directed from the Austin Chapter.

The report below was made available by Kevin McCoy, KF5FUZ, of the Disaster Services Technology volunteers committee of the Region.

"Communication Partners: April Red Cross update

West, TX: We continue to be active in West, Texas. Many organizations pulled together to begin the response and recovery. Red Cross was asked to support the response and reentry efforts. We were also asked to support the first responder memorials. Our efforts in West continue.

Most recently we have been providing materials to student volunteers that are helping with the clean up. The initial response push is shifting to long term recovery. The Heart of Texas Chapter (Waco), is leading our efforts to support that recovery.

Over the first couple of weeks Red Cross provided:

200 Volunteers  
47,000 Meals and Snacks  
20,000 Relief Items  
3,000 Health and Mental Health consultations

We also billeted many of the firemen and honor guards that came to support the memorial services. In addition we supported rent, and housing/utility deposits. FEMA is now engaged. (Housing repairs assistance).

April Operations: Ongoing operations do not stop for large events, and during the month of April we helped 131 people recover from other Fire and storm damage across the 48 counties in Central Texas Region.

We also helped 132 military personnel and their families.

Hurricane season approaches: Our planning with TxDEM and other agencies proceeds. I think we have a good plan and understand our responsibilities which include Dormitory Management, Volunteer Resource Centers, and intermediate term sheltering if it is needed."

Thanks, Kevin.

The readiness for Hurricanes extends until October, which has seen some of the most destructive hurricanes in Texas history. Remember, the American Red Cross does not get any governmental funds, it is an independent charity relying on the generosity of the Texas people it serves. Be generous and consider being an annual donor to the Red Cross. Most Red Cross response is from its trained volunteers and partner groups like amateur radio operators, church disaster groups, and local citizens, who train and then sign up for deployment to disasters anywhere they may be needed. For more information on disaster responder training contact the local Austin Chapter at 512-928-4271, 9 to 4:30, M.-F. Or "American Red Cross of Central Texas, Austin training" on Internet search engines.

INFO from ARES AEC Red Cross liaison: Stuart Rohre K5KVH (my call at arrl.net)

# AUSTIN SUMMERFEST 2013

August 2 & 3, 2013

Crowne Plaza - Austin  
6121 North IH-35  
NE Corner of IH-35N & US 290E

Austin, Texas  
78752

## Our 30th Anniversary!

Once again it's time for fun in the sun in central Texas as we make the Capital City the place to be in the middle of the Texas summer. Come and enjoy old friends, the swapfest, and all the events at Austin Summerfest 2013, the ARRL Texas State Convention. And as always, we also host the Summer Meeting of the Texas VHF-FM Society.

New hotel !!!

Check out  
[www.austinsummerfest.org](http://www.austinsummerfest.org)  
for late breaking news!

## Schedule

All the activity is concentrated on Friday night and Saturday, to allow you flexibility in your weekend travel plans. But do come early, as things fire up at 6 Friday evening and go 'till 9, and start up again Saturday at 8 am, with swapping 'till 3:30 and dealers & sessions 'till 4:30.

The Texas VHF-FM Society meeting will run from 1 to approximately 3 pm, so mark your schedule.

## Prizes

Prizes Galore! You have a chance at a slew of them, including these Major Prizes:

- *Grand prize* is a **Yaesu FT-857D** HF/6M/2M/70CM compact all-mode transceiver.
- Our *Featured Prize* is a **Yaesu FT-7900R** 50W/45W 2M/70CM mobile transceiver.
- A special *Bonus Prize* is a **Yaesu FT-60R** 2M/70CM 5W heavy-duty handheld.



Bonus Prize,  
Yaesu FT-60R

Furthermore, if you register in advance by mail you have a shot at still one more prize—another **Yaesu FT-60R!**

With your registration you get one ticket good for Saturday's door prizes and the Major Prizes, and you can buy more tickets at \$1 each. Plus, if you rent a room at the Crowne Plaza, you'll get five bonus tickets for each room-night, up to a total of ten tickets. (See next page for prize rules.)



Grand Prize,  
Yaesu FT-857D



Featured Prize,  
Yaesu FT-7900R

## Swapfest

For lots of folks, our main event--wall-to-wall goodies of every description, brought to you in carpeted, air-conditioned comfort on Friday evening and Saturday.

### Rules:

- Full-sized tables: 6 feet by 30 inches. \$10 each, limit of 3 to a customer. First come, first served.
- AC power is available at an additional \$5 per customer, through advance registration only.
- We'll attempt to honor requests from groups of sellers for adjacent tables, if we receive your registrations in the same envelope.
- If you advance register for swap tables, we'll attempt to notify you in advance if they are unavailable due to being sold out (a rare occurrence). Be sure to give us your email address so we can notify you that way.

- Your table(s) will be held for you until 10 am Saturday.
- Swapfest hours are 6 to 9 pm Friday and 8 am to 3:30 pm Saturday. Opening times are for both sellers (for setup) and shoppers.
- Buyers and sellers must be registered at the convention.

**We'll be holding a Tailgate swapfest on the east side of the Crowne Plaza Hotel. You need not be registered at the Convention to sell at the tailgate, but of course you'll want to attend the indoor swapfest and sessions, so it would be a good idea to register.**

# Technical Sessions

- ARRL West Gulf Division Director **Dr. David Woolweaver K5RAV** conducts this year's **ARRL Forum**, with Vice Director **John Robert Stratton N5AUS**. This year's special guest speaker is **Riley Hollingsworth K4ZDH**, former Counsel for the Spectrum Enforcement Division of the FCC's Enforcement Bureau. Riley always speaks to packed meeting rooms, so get into the forum seating early so that you don't have to stand up to hear his talk.
- The **Central Texas DX & Contest Club**, widely recognized for its excellent Summerfest presentations, has yet another outstanding program lined up for us.
- **Greg Jurrens K5GJ of FlexRadio Systems** will give us the latest on the Software Defined Radio project.
- Find out how to do "the mostest with the leastest" in our QRP workshop.
- The **Roadrunners Microwave Group** hold their annual meeting and host a session on the latest topics on the "high end."
- **Keith Pugh W5IU** leads a wide-ranging discussion on communications through **Amateur Radio Satellites**.
- **Tom Whiteside N5TW**, South Texas Section Emergency Coordinator, hosts a session on **Emergency Communications**.
- **Troy Kimmel KE5BCK** along with other leading Austin meteorologists will conduct a program on the latest in forecasting technology and recent weather events in the central Texas area.

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## Driving Directions

The Crowne Plaza is at 6121 IH-35 North at US 290, Austin, TX, 78752. Phone (512)323-5466. Talk-in is on 146.34/94. Tone: 107.2Hz

**Northbound on IH-35:** Take Exit 238-A (RM 2222). Continue on the frontage road over US 290. Turn right into the west entrance of the Crowne Plaza parking lot.

**Southbound on IH-35:** Take Exit 238 B-A, marked East 290 Houston West 2222. As you go up the ramp, it splits. Bear right at the fork, taking the West 2222 ramp. As you get back down to ground level, stay in the left lane and take the U-turn under IH-35 to the northbound frontage road of IH-35. Get to the right side of the northbound frontage road as soon as possible and take the first right turn into the west entrance of the Crowne Plaza parking lot. If you miss the first turn into the lot, take the second one into the northmost end of the hotel parking lot and work your way back to the front of the hotel.

**Westbound on US 290:** Take the IH-35 North (Waco) exit. Shortly after the exit ramp, bear to the right; turn right into the south entrance of the Crowne Plaza parking lot. This turn comes up quick; if you overshoot, just follow the turn lane to the right onto the northbound frontage road and turn right into the west entrance of the Crowne Plaza parking lot.

Summerfest will be held in the hotel's convention center in the southeast side. The tailgate swapfest area will be made available Saturday morning in the parking lot section in the southeast corner of the hotel property.

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## Prize Rules

We'll award door prizes throughout the day Saturday, until noon. For these, you must claim your prize by 12:45 pm Saturday. We'll post your name/call or ticket number at the prize drawing table. Prize tickets are only valid for persons registered at the convention.

At 1:00, we begin drawings for our three Major Prizes.

For the Major and Advance Registration Prizes, you need not be present to win. If you're a winner, we'll post your name and hold your prize. If you haven't claimed it by the end of the day, we'll send it to you.

## License Exams

An exam session Saturday afternoon will cover all elements. Bring a photo ID and one other form of identification, and \$15.00; if you're upgrading, bring your current license, any applicable CSCE's, and a photocopy of each. For more info email **Larry Gunter WB5BEK** at [wb5bek@arrl.net](mailto:wb5bek@arrl.net)

After the exams, **Jeff Schmidt N5MNW** and **Ron Hambric N5SBN** have just what you need: **A Welcome and Information for New Hams**.

## Amenities

Come on up to our hospitality suite. Room 505—that's where you'll find your old friends and new ones, too. There are soft drinks and munchies on Friday night, and refreshments on Saturday morning.

The Crowne Plaza will serve a special buffet lunch on Saturday priced at \$9.95.

## Administration Matters

Exchange views with West Gulf Division Director **David Woolweaver K5RAV**, Vice Director **John Robert Stratton N5AUS**. Find out what's going on and offer your opinions and insights. The ideal way to get or stay involved!

As always, we host the Summer Meeting of the Texas VHF-FM Society, scheduled for 1:00 Saturday afternoon.

## Craft and Skills Events

**Sandy Talen** hosts our crafts session. No prior experience required. Come for a short while or the whole session and take home a completed crafts project. Did we mention, no charge? Children are welcome, but an adult must be with the children to supervise and help.



# AUSTIN SUMMERFEST 2013



## The ARRL Texas State Convention The Texas VHF-FM Society Summer Meeting

### A word about our special guests...

The Texas VHF-FM Society is a group of several hundred radio amateurs with a special interest in the design and operation of VHF and UHF repeaters. The first meeting of The Society was held on August 8, 1965 on the picnic grounds of Zilker Park in Austin, Texas. Forty-five licensed hams were in attendance, including five XYLs. The Society now counts as members the licensees or technical custodians of nearly all the repeaters in Texas. Today, it continues in that role, minimizing intercommunity friction and helping the maximum number of amateurs operate and use repeaters. The Society educates, mediates, and arbitrates all matters of frequency coordination brought to its attention. The members of the Society invite you and your friends to join us; we know you will find it fun and rewarding to be a part of this organization.

## **AARC Meeting Info.**

### **Waterloo Icehouse**

**8600 Burnet Rd. South of 183  
(Come early and have dinner!)**

### **Business Meeting 7:00 pm**

**July 2 - TBD**

### **Officers Meeting 7:00 pm**

**July 16 - Officers meetings are open to club members.**

## **2013 Calendar of Events**

### **Jul 13 26th annual Texas City "HAMFEST 2013"**

Doyle Convention Center, 2010 5th Avenue North, Texas City

Tidelands Amateur Radio Society

TALK IN 147.14(+)  
PL 167.9 (Secondary) 442.025(+)  
PL 103.5

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

### **Aug 2-3 Austin Summerfest,**

NOTE: Location Change! Crowne Plaza Austin (NE corner 290E/I-35)

~239 mile post

6121 North IH-35 Austin, TX 78752

Note: Riley Hollingsworth, K4ZDH,

Special Counsel for the Spectrum Enforcement Division, FCC (retired) is scheduled to speak!

Talk-In: 146.94(-)107.2PL

Joe W5HS 512-345-0800 w5hs@arrl.net

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

### **Sept 8 Tour De Cure (Sunday)**

APRS/voice ops needed

Jeff n5mnw@arrl.net 512-255-6753

## **2013 Upcoming Amateur Exams**

### **ARRL VEC- July 6th & August 3rd (Summerfest)**

9a.m. at Bethany United Methodist Church. Contact Joe Makeever, W5HS (345-0800) or Joe Thiel, N5SMN (832-0450) for info. \$15 fee.

### **W5YI VEC- July 20th & August 17th**

2p.m. in room 207, Fleck Hall, St. Edwards Univ. Contact Craig Bean, AC5KW@arrl.net, (474-6443) for more info.

<http://texashams.org/w5yi-austin/>

## **Upcoming Meetings...**

<b>July</b>	<b>Aug</b>	<b>Austin Meetings/Happenings</b>	<b>Time</b>	<b>Address</b>
2	6	AARC Meeting Waterloo Ice House*	7:00 p.m.	8600 Burnet Rd.
13	10	Austin QRP, Alvin's Sandwich Shop	11:00 a.m.	12200 Research Blvd.
no	17	QCWA Tres Amigos \$	1:30 p.m.	7535 U.S. 290
24	28	Digital Wednesday at Red Cross	7:00 p.m.	2218 Pershing
22	26	Travis Co. REACT Jim's 183 & Burnet	7:30 p.m.	9091 Research Blvd.
23	27	Travis County A.R.E.S., ARL Auditorium	7:00 p.m.	10000 Burnet Rd.
25	22	CERT Meeting, CTECC	6:30 p.m.	5010 Old Manor Rd.
23	27	CTDXCC Meeting Old Quarry Library	6:30 p.m.	7051 Village Ctr Dr.

*\*AARC Business Meeting is at Waterloo Ice House Come early and grab dinner before the meeting.*

*% New Meeting Location for ATV*

*\$ QCWA Now meets quarterly visit <http://www.qcwa.org/chapter067.htm> for info*