

# AARC COVER

Keeping Austin Wireless  
for Over 91 Years!

Bulletin of Austin Amateur Radio Clubs

ISSN 1067-0262

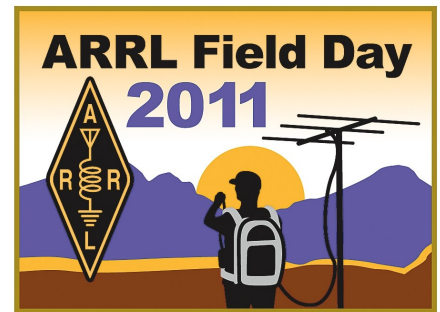
July 2011

Issue 7-2011

## Field Day...Now With Pictures!

Mitch London, KD5HCV

Field Day 2011 has come and gone and with it another successful outing by the Austin Amateur Radio Club as they endured hot days and warm nights with all the vim and vigor one would expect from a ham. Fortune was on the side of the hams this year as 100° plus heat was not around...only his cousin, 97° and humid ! But a good stiff breeze was not unwelcomed since all the antennas were well anchored, it was not an issue.



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



The day started out like many Field Days; a breaking out of equipment and antenna and radios, some not used since the last Field Day. As 1 pm on Saturday rolled around, hams from Austin and surrounding areas converged on the Red Cross and were prepared to do battle with their 3A class; a change from previous years 2A class, meaning they would be running 3 stations as opposed to only 2 and running off of battery power denoted by the "A".

Pitmaster Joe Fischer III, K5EJL was in the zone as he skillfully coaxed the meats into a pile of tasty goodness enjoyed by all. Alan

*(Continued on page 4)*

### 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 4th at Bethany United Methodist Church :

## Technician Class Licenses Processed

Michael L. Hide KF5LGU

Terry L. Jones KF5LGV

James E. Knollman KF5LGS

Sarla Sharma KF5LGT

## General Class Licenses Processed

Mack A. Davis KF5JLG

Robert W. Haig KF5LGR

William S. Kjellstrand K5BBK

Michael P. Parson KF5LGQ

Norman S. Pitou JR KF5KOG

Floyd H. Pruett JR KF5LDD

## Extra Class Licenses Processed

Steven L. Bonds KF5KZO

Mark E. Howard II K5QXR

Paul W. Schattenberg KF5JIM

## Examiners Participating in this Test Session

Craig Bean AC5KW

Tony Davee KM5JH

Larry Gunter WB5BEK

Joe Makeever W5HS

Joe Thiel N5SMN

Jeff Whisnant AE5VA

## Next ARRL VE Test Sessions

July 2nd - Bethany United Methodist Church, Disciple Bldg. Room 213

August 6th - AUSTIN SUMMERFEST@ Marriott Austin South Hotel 12:30PM in Bluebonnet Room

TNX ES 73 DE W5HS

Joe

6-18-2011

The South Austin W5YI VE team heartily congratulates all of the following people who earned new or upgraded amateur radio licenses at our June 18<sup>th</sup> session:

### Extra Class – (none)

### General Class –

David L. Avery, KF5JZT

Charles S. Gaede, KF5KFZ

Thomas Macias, III, KF5CPV

Neil J. Peterson, KF5EBI

Courtney M. Repac, W7EEJ

### Technician Class - (new)

Claude E. Dotson

Our administering volunteer examiners were:

Craig Bean, AC5KW

Tony Lyon, KJ5XF

Jim Greenwood, AB5EK

Gary Popp, AE5JR

Our next two amateur radio exam sessions will start at 2 PM on July 16<sup>th</sup>  
And August 20th in room 118 of Fleck Hall on the campus of  
St. Edward's University. All sessions are walk-in and the exam fee is \$14.

For additional information regarding our amateur radio examination sessions,  
please contact Jim, AB5EK at (512) 327-6184 or by e-mail to  
hamradioexams@hotmail.com or visit our web page at  
hamradioexams@hotmail.com or visit our web page at <http://texashams.org/w5yi-austin/>



# XYL

By Carolyn Canfield,

“Oh, hi honey. Look  
what I bought for you!”



President	Mitch London	KD5HCV	326-3096	president@austinhams.org
Vice President	Lori Schmidt	KM5MQ	632-6789	vice-president@austinhams.org
Treasurer	Jay Hoffman	KA5OST	388-4404	treasurer@austinhams.org
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ARRL Travis Co. Emer. Coord.	Don Dudley	AC5YK		ac5yk@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	
444.650 +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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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.

“NOUJR and His Friends” is reprinted with permission by Greg Trook, Trook Enterprises. Cartoons may not be reprinted without written permission. For information: <http://incolor.inebraska.com/n0ujr>.

“XYL” is printed with permission by Carolyn Canfield, KE5DTS. Cartoons may not be reprinted without written permission.

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

**See Jay Hoffman, KA5OST (512) 388-4404 ka5ost@arrl.net**

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

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## 13 Colonies Special Event July 1 – 5 2011

Pop Quiz - Can you name the thirteen original colonies? If you can't now, you will be able to after you work the Original Thirteen Colonies Special Event, over the Fourth of July holiday! For the third year, stations will be operating in each of the original thirteen colonies. They range from modest home stations to contest, super stations, OM/XYL teams, satellite and digital stations. Getting a contact with one or more of the colony states qualifies you for a special event certificate, while all thirteen gets you the coveted "clean sweep" endorsement. Most stations offer a special event QSL card for a SASE. There were 12,500 total contacts in 2009 and 34,273 in 2010!

The event operates from 12:01 AM Eastern start on July 1st, (That's one > minute after midnight, early Friday morning, July 1st) to 11:59 PM Eastern ending on July 5th (One minute to midnight, late Tuesday night, July 5th). PLEASE - One contact with a Thirteen Colonies state is sufficient for credit for that state. Additional contacts on other bands or with the other state stations will not get you any more credit. Please limit yourselves to one contact per state, so that others may have a chance. This will give the stations with "no gain" antenna's, stations working 100W, QRP/Mobiles and DX a chance to get all "13" too! We are out to have some fun this 4th of July week, and will try to appease everyone. We thank you for your consideration in advance. Full details can be found at <http://www.13colonies.info/>.



Russell, KE5DTR also did a little hauling of his own as he showed up with the “work in progress” communication trailer, and on board a grill with which he delivered roasted corn and hot dogs for those to enjoy as the day went on. As day turned into night, and the sound of music wafted across the air from the direction of the Moose Lodge, contacts were being made on multiple bands even into the wee hours of the morning.

Digital, phone and Morse code was represented at this years Field Day as well as a sadly unsuccessful satellite station. It was commented that one of the “big”

satellites (AO-51) was down this year while others were only being turned on for 15 minute periods to conserve batteries. The 15 meter band made a welcome addition to this years point totals as dozens of stations were logged with the aid of the HSMM-MESH network and the N3FJP program.

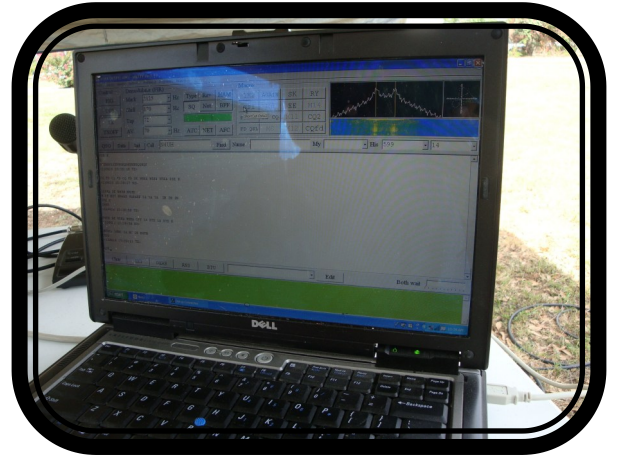
As the morning led into the mid day hour, last minute contacts were made. Not because of a lack of power, of which there was an ample supply of thanks to the City



of Austin’s solar trailer, but due simply to time constraints. 1 p.m. came and a sigh of relief and a feeling of accomplishment was shared by all. The portable towers, and antennas came down, and tables were put away and ‘atta boy’s and ‘good job’s were handed out. The points will be totaled and reported at a later time so until then, congratulations to the AARC on completing another years Field Day!



# FIELD DAY 2011



**Photos By:**

**Lew Thompson, W5IFQ  
Jeff Schmidt, N5MNV  
And Mitch London, KD5HCV**

## **FlexRadio Systems in Austin is Hiring!**

Immediate opening for software engineer working with a select group of engineers building software defined radios, control software for radios and control surfaces (GUI) for SDRs. In our laid-back environment, you will write software as a member of a cross-disciplinary agile team to build cutting edge hardware and software radio systems.

We prefer that candidates have a degree in Electrical Engineering and an amateur radio license is a big plus, but our primary criterion is that you love working with a team to build cool systems that excite customers (because we love doing this too). Our engineers get to play with all kinds of software including DSP in C and Verilog, C embedded systems, Visual C#, GUI building tools, X Code, Eclipse, Xilinx FPGA tools, etc. We know you probably won't know all of these things, but if the work is interesting we figure you will find a way to contribute. We work as a team to split up what needs to be done and everyone gets to do a little of everything. We love people who love puzzles and solving puzzles -- figuring out the best way to do things and making them work well.

If this sound interesting, please forward your resume and optionally a cover letter to [jobs@flexradio.com](mailto:jobs@flexradio.com). We'll review it and get right back to you -- we don't use automated computers that treat you like a jumble of programming language keywords. We are real people that are interested in working with you!

### **Over the WWWaves...**

A Collection of Various Websites sent in your friendly neighborhood hams...

They make an excellent android weather app for phone and tablet.

<http://www.weatherpro.eu/ipad/weatherpro.html>

Bill Eastman

There are a new breed of NXP LDMOS transistors for RF amplifiers, watch this:

<http://www.youtube.com/watch?v=8ziYqjMQGEQ>

-Stuart Rohre, K5KVH

<http://101science.com/amateurradio.htm>

Juanita Miyasaki, KD5OIE

Power Grid Change May Disrupt Clocks

[http://www.usatoday.com/tech/news/2011-06-24-power-grid-appliances-electronics\\_n.htm?csp=hf](http://www.usatoday.com/tech/news/2011-06-24-power-grid-appliances-electronics_n.htm?csp=hf)

Jay Hoffman, KA5OST

Of peripheral interest to hams, I'd think.

<http://www.forbes.com/forbes/2010/1122/technology-pumpkin-inc-andrew-kalman-toasters-in-space.html>

Rick Herndon, K5FNI

Here is an interesting discussion of how to balance battery loading in banks of batteries, contributed by Scott N7SS. With high loads, this could be an issue, particularly insuring that all batteries supply approximately the same current. I was surprised at the numerical results shown.

[http://www.smartgauge.co.uk/batt\\_con.html](http://www.smartgauge.co.uk/batt_con.html)

Pete Jordahl, K5GM

# AUSTIN SUMMERFEST 2011

August 5 & 6, 2011

Austin Airport Marriott South  
4415 South IH-35

Austin, Texas  
78744

## Continuing a Ham tradition!

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 2011, the ARRL Texas State Convention. And as always, we also host the Summer Meeting of the Texas VHF-FM Society.

Same great location !!!

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 three Major Prizes:

- Grand prize is a **Yaesu FT-857D** HF/6M/2M/70 cm compact all-mode transceiver.
- Our *Featured Prize* is **Yaesu FT-60R** heavy duty 2M/70 cm 5W FM handheld.
- A special *Bonus Prize* is a **Yaesu FT-270R** 2M 5W heavy-duty handheld.



Advance Registration  
and Bonus Prize,  
Yaesu FT-270R

Furthermore, if you register in advance by mail you have a shot at still one more prize—another **Yaesu FT-270R!**

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 one of the Convention Hotels, you'll get five bonus tickets for each room-night, up to a total of ten tickets. (See next page for prize rules.)



Featured Prize,  
Yaesu FT-60R



Grand Prize,  
Yaesu FT-857D

## 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 Marriott 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**. Together, they welcome **Brennan Price N4QX**, ARRL Chief Technology Officer, who will be on hand to discuss advanced communications technologies as well as other Ham topics of national importance.
- The **Central Texas DX & Contest Club**, widely recognized for its excellent Summerfest presentations, has yet another outstanding program lined up for us.
- **FlexRadio Systems personnel** 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**.
- **Weather?** Learn about the latest in forecasting technology, and learn about recent weather events with leading Austin meteorologists. Hosted by **Troy Kimmel KE5BCK**, of KEYE News and the University of Texas, and featuring top weather experts from Central Texas.

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## Directions

The Austin Marriott Airport South is at 4415 South IH 35, Austin TX 78744. The SpringHill Suites are in the same complex, at 4501 South IH 35. Talk-in is on 146.34/94 MHz (tone 107.2 Hz).

**IH 35 Southbound:** Take Exit 229, go 1.3 Mi. to E. Stassney Lane and turn left. Turn left again onto IH 35 northbound service road and travel 1.0 Mi. to Marriott Hotel.

**IH 35 Northbound:** Take Exit 230 and travel 0.7 miles north on service road to Marriott Hotel.

**US Hwy 71 Westbound:** Exit at Burleson/Woodward and travel on the service road under IH 35. Turn left onto the IH 35 southbound service road. Continue 1.4 miles to E. Stassney Lane and turn left. Turn left again on the northbound service road and travel 1 mile to the Marriott Hotel.

**US Hwy 71 Eastbound:** Exit just after passing under S. Congress (Currently shown as IH 35 South San Antonio, but may change due to construction). Continue East about 0.4 miles and turn right onto the IH 35 southbound service road. Continue 1.4 miles to E. Stassney Lane and turn left. Turn left again on the northbound service road and travel 1 mile to the Marriott Hotel.

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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.

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—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. Saturday evening we'll serve soft drinks, munchies and eyeball QSOs lasting into the night.

The Marriott will again serve a specially priced buffet lunch on Saturday.

## Administration Matters

Exchange views with West Gulf Division Director **David Woolweaver K5RAV**, Vice **John Robert Stratton N5AUS**, and our special guest from ARRL HQ, **Brennan Price N4QX**, Chief Technology Officer. 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. And back this year, by numerous requests—garden dragonflies! No prior experience required. Come for a short while or the whole session. Did we mention, no charge? Children are welcome, but an adult must be with the children to supervise and help.



**Meeting called to order:** 7:04pm by President Mitch London, KD5HCV.

Meeting started with a welcome to all and slides showing maps of the routes of the APRS Trackers used during the Tour De Cure. Jeff Schmidt, N5MNV, explained the dots and lines on the maps.

We had 47 in attendance, 3 visitors, and 3 new members. One upgrade was reported.

**Minutes:** May's minutes approved as written in AARCOVER.

**Past Events:** The Tour De Cure and TX Combined ARES Event were both successful. The Tour had ~1600 rider. Thanks and recognition was given to all the volunteers from both events.

**Upcoming Events/Announcements:** HamComm (6/10&11) in Plano has ARRL National Convention this year; Field Day (6/25&26); Austin Summerfest (8/5&6); VHF 6M Contest (6/11&12). The club has approved the purchase of a UPS back-up for the South Austin Medical Center. Someone mentioned they know of a free stash of back-up batteries available if the club wants to look in to it. The club will have a sign-out sheet for equipment, please use it. These items, other upcoming events, and scheduled presentations are listed in the AARC Swapnet newsletter, at [www.austinhams.org](http://www.austinhams.org), and on the Yahoo user group.

## REPORTS

**President, Vice-President, & Treasurer:** no report.

**Editor:** Mitch asked everyone to take lots of pictures of their radio related events and then submit them, hopefully with an article, to the newsletter.

**ARES:** Glen Reid, K5FX, reported 49 stations were involved with the combined ARES event, along with some zombie paratroopers. The review will be held 6/14 at the EOC/CTECC. Please show up between 6:30-7pm to get in.

**Space Wx:** Solar activity has been good as the solar cycle continues going up, same for solar flux. A coronal hole caused high solar winds and geomagnetic storms on May 28<sup>th</sup>, which expanded the ionosphere and plummeted the critical frequency and MUF. A very serious M2.5 Flare occurred June 7<sup>th</sup>. Except for the flare, forecast is quiet to active with low solar flux.

**Old Business:** none discussed this time.

**New Business:** The club spent some money at the Red Cross on miscellaneous items and may need some to replace a 2M/440 radio.

**Ham of the Month:** Steve Polunsky, W5SMP.

**Door Prizes:** Chuck Killian, WB6YOK – watch; Kirk Brandau, K5TOC – multitool; Jorge Harada, KF5IED – multitester.

**Meeting Adjourned:** 7:45pm

**Presentation:** "Field Day 2011 Prep" by Stuart Rohre, K5KVH, and Jeff Schmidt, N5MNV.

## Officers Meeting Recap

June 21, 2011

### Old Business—

Field Day—It was discussed that we could draft a letter to ARRL with the possible help from John Stratton, to see about having Field Day either moved to a less blazing part of the year or to have 2 Field Days, one in Summer for the Northern folks and one in the cooler months for the Southern US.

Alan will bring water for people to drink at Field Day.

Summerfest— The AARC will have a table for handing out info this year and we decided to see if we can get Steven Polunsky to be a manger of that table and get people to help run it.

Red Cross Letter—A letter was drafted and signed by all the officers to have the Communications Room at the Red Cross cleaned up so that it can be a more useful than it is in its current condition.

### New Business-

Radio Equip.— An email was received asking if the club wanted to help dispense of some old radio equipment from a ham that ran a commercial radio repair business. Further information was needed before deciding what to do.

Roster—The question of having a roster was brought up again. The concern is that some people may not want their information publicized and the question of are we even allowed to publish what may be considered personally identifiable information. The matter is being looked into.

Website— The outdated information on the club website looks poorly on us as a club and an effort to update the site is underway. Thoughts of using a free system like Joomla, or Word Press was looked into. We are also looking into a foundation that offers low cost web software to organizations that qualify. We are looking to see if we qualify.

Echolink—A concern about the ability to override echolink on the 94 repeater was brought up and FCC ramifications. It is being looked into as well.

## **AARC Meeting Info.**

### **Waterloo Icehouse**

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

### **Business Meeting 7pm**

**July 5th - Paul KA5FZU- APRS "Motorola"  
APRS Tracker Refurb Project and Solar WX  
summary by Lew W5IFQ**

### **Officers Meeting 5:30 pm**

**July 26th Meeting cancelled for July. See us  
in August!**

## **2011 Calendar of Events**

### **July 9 TARS Hamfest**

Texas City, TX  
Doyle Convention Center, 2010 5th Avenue  
North  
8AM-2PM  
Talk-In 147.14(+)+167.9 or 442.025(+)+103.5  
Tidelands Amateur Radio Society  
[www.tidelands.org](http://www.tidelands.org)

### **July 29 Central States VHF Conference**

Irving, TX  
Central States VHF Society  
[www.csvhfs.org/](http://www.csvhfs.org/)

### **July 29 Oklahoma State Convention**

(Ham Holiday 2011) Oklahoma City, OK  
Central Oklahoma Radio Amateurs  
[www.hamholiday.org](http://www.hamholiday.org)

### **Aug 5-6 Austin Summerfest**

Austin Airport Marriott South, 4415 South IH-  
35 (Northbound access road, just South of  
the IH-35/Ben White Blvd. intersection)  
[www.austinsummerfest.org/](http://www.austinsummerfest.org/)

## **2011 Upcoming Amateur Exams**

ARRL VEC- July 2nd & August 6th at Summer-  
fest (see page 7) 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 16th & Aug. 20th 2p.m. in room  
106, Fleck Hall, St. Edwards University. Contact  
Jim Greenwood, AB5EK @arrl.net,  
(327-6184) for more info.

**<http://texasparadise.com/w5yi-austin>**

## **Upcoming Meetings...**

<b>July</b>	<b>Aug</b>	<b>Austin Meetings/Happenings</b>	<b>Time</b>	<b>Address</b>
5	2	AARC Meeting Waterloo Ice House*	7:00 p.m.	8600 Burnet Rd.
9	13	Austin QRP, Alvin's Sandwich Shop	11:00 a.m.	12200 Research Blvd.
12	9	ATV Club Meeting Mangia's Pizza	7:00 p.m.	12001 Burnet Rd.
16	20	QCWA IHOP 183 Near Duval	1:30 p.m.	11654 Research Blvd.
20	17	Digital Wednesday at Red Cross	7:00 p.m.	2218 Pershing
25	22	Travis Co. REACT Jim's 183 & Burnet	7:30 p.m.	9091 Research Blvd.
26	23	Travis County A.R.E.S., ARL Auditorium	7:00 p.m.	10000 Burnet Rd.
28	25	CERT Meeting CTECC	6:30 p.m.	5010 Old Manor Rd.

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