



# AARC OVER

## Keeping Austin Wireless for Over 96 Years!

Bulletin of Austin Amateur Radio Clubs

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March 2016

Issue 3-2016

ARRL Bulletin 6 ARLB006  
From ARRL Headquarters  
Newington CT February 10, 2016  
To all radio amateurs

SB QST ARL ARLB006  
ARLB006 **US House Subcommittee to Consider Amateur Radio Parity Act**

The Amateur Radio Parity Act, H.R. 1301, will be among three bills that the US House Subcommittee on Communications and Technology will consider in a Thursday, February 11, "markup" session. The subcommittee will gather on February 10 for opening statements only. When it reconvenes the next day, its members could vote to send the measure to the House Energy and Commerce Committee for further consideration.



The Subcommittee on Communications and Technology is chaired by Rep Greg Walden, W7EQI (R-OR), who, during a January 12 Subcommittee hearing on H.R. 1301, called the measure "a commonsense bill" and urged his colleagues' support. Subcommittee members may submit in advance any amendments they might have to any of the bills being considered in the February 11 markup.

The House bill's sponsor, Rep Adam Kinzinger (R-IL) also spoke in favor of H.R. 1301 at the January 12

*(Continued on page 3)*

### Periodic Events

Sun	7:00 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	147.100 +
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+
Thu	11:45 a.m.	Lunch Whataburger Oltorf & Burleson	146.94-(107.2)
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 February 6th at Bethany United Methodist Church:

## Technician Class Licenses Processed

Ian P. Little KG5LNL

Patrick S. McDowell KG5LNM

## General Class Licenses Processed

Jeffrey D. Brinkman KG5KSN

Marvin E. McKinney KG5IMG

Kathryn A. Miller KG5JUV

Robert E. Miller KD(0)ZSP

Steven J. Schreiber KG5LAA

## Extra Class Licenses Processed

Arlen S. Levin WA6AUF

William S. Tenniswood KD8PZT

Charlie L. White K5WOW

## Examiners Participating in this Test Session

Dave Anderton AE5XY

Joe Bryan K5BRY

Russ Cook KK5E

Larry Gunter WB5BEK

Sallie Howard AE5OM

Ted Iglehart KF5END

Jim Kinter K5KTF

Steve Lang WB5ZIL

Joe Makeever W5HS

## Next ARRL VE Test Sessions

March 5th - Bethany United Methodist Church, Disciple Bldg. Room 203/204

April 2nd - Bethany United Methodist Church, Disciple Bldg. Room 203/204

TNX ES 73 DE W5HS

Joe

2-20-16

The South Austin W5YI VE team heartily congratulates the following people who earned new or upgraded amateur radio licenses at our February 20<sup>th</sup> session:

## Technician Class (NEW)

Randall Horwitz

Patrick Boyd

Padraic Fonseca

Mark McCartney

Melinda Wyers

Vivek Sarda

Harry Ziegler

## General Class

Michael Warpenburg (New)

Matthew Theis (New)

David Bennett (New) Thomas Koschmieder, KG5LBS

Joshua Clement (New)

## Extra Class

Ellis Botts, W5FTZ

Our administering volunteer examiners were:

Craig Bean, AC5KW

Gary Popp, AE5JR

Sam Mihalik, KM5MY

Wally Marusa, K5WLY

Shankar Thirunakkarasu, KG5KWS

Our next two amateur radio exam sessions will start at  
2 PM on March 19<sup>th</sup> and April 16<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 (cash or check).

For additional information regarding our amateur radio examination sessions,  
please contact Craig, AC5KW at (512) 474-6443 or by e-mail to  
ac5kw@arrl.net or visit our web page at <http://texashams.org/w5yi-austin/>

## The Rise of Radio

### By Crockett Grabbe

Chase Hoffberger wrote a very interesting article on the solar-powered radio stations being broadcast in Austin and nearby central-Texas cities. Having published articles on the development of radio in the March & April (2014) issues of AARCOVER, the Austin Amateur Radio Club monthly report, I have comments regarding Chase's remarks under "AM/FM".

The first radio station broadcast was actually in San Jose in 1909 by engineer Charles Herrold with a 15-watt transmitter, sending out music and news. However, it was not until 1912 that regulations were set to assign call letters to stations. World War I started in 1914, and by 1917 it was clear that the U.S. was likely to enter it. Secretary of the Navy Josephus Daniels ordered a shutdown of all radio, so only the Navy could send signals out. Secretary Daniels tried to continue that monopoly after the war ended, giving the Navy permanent control of all radio in the US. However, he was vociferously opposed, and radio was freed up again by 1919. This led to the creation of KFDD in Pittsburgh in 1920 as the first commercial station in the US, which Chase describes.

Edwin Armstrong submitted the patent for FM radio in 1930, and was awarded the invention in 1932. He created the experimental station W1XOJ in 1937 to demonstrate it to the FCC. The first commercial station doing FM broadcasting was W47NV in Nashville in 1941, later becoming WSM-FM. The FCC changed the FM bands after World War II ended in 1945, and a patent dispute on FM developed between Armstrong and Sarnoff (who claimed his earlier patent included FM). This costly dispute led to Armstrong committing suicide in 1954, but the lawsuit continued, and in 1967 the Supreme Court ruled Armstrong had invented FM.

It is great to see radio development led to the creation of Sun radio. Developing radio that "is not a burden to the Earth" is indeed an important step forward.

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*(Continued from page 1)*

hearing, explaining that hams in some neighborhoods "are outright prohibited" from erecting antennas on their properties. He cited Amateur Radio's role in emergency communication support, and said his bill's "reasonable accommodation standard" would not mandate placement, size, or esthetics regarding an outdoor antenna, leaving ham radio operators and homeowners associations to decide those issues.

"We just simply add the same standard that has been used successfully in municipal areas to other areas," he concluded.

H.R. 1301 would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land-use restrictions, such as deed covenants, conditions, and restrictions. The bill has attracted 120 cosponsors from both sides of the aisle. An identical US Senate measure, S. 1685, has attracted 3 cosponsors. It cleared the Senate Committee on Commerce, Science, and Transportation last November.

At the ARRL National Convention February 12-14 at the Orlando HamCation, ARRL representatives will be on hand to help visitors to generate letters of support to members of Congress.

More information about the legislation is on the ARRL Amateur Radio Parity Act web page at, <http://www.arrl.org/amateur-radio-parity-act>



Austin Amateur Radio Club, Inc., PO BOX 4739, AUSTIN TX 78765-4739, Web site: <http://www.austinhams.org>

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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
146.880 107.2 PL Tone	No	General
146.940 107.2 PL Tone	No	Most popular, WX, Swapnet & Newsline
224.800	No	
444.100	No	
444.200 107.2 PL Tone	No	
440.650 +5	No	70cm D-Star Repeater [W5KA B]
146.780/ -600kHz	No	2m D-Star Repeater [W5KA C]
1293.100/-20	No	23cm D-Star Repeater[W5KA A]
1248.200	No	23cm D-Star DD (data, simp./reversible)[W5KA A]

Persons using the repeaters are asked to join the club to help support these valuable resources.

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Viewpoints expressed in the AARCOVER do not necessarily reflect those of any club, or of its members, directors, or officers. Material quoted from the ARRL Letter is supplied by the American Radio Relay League, Inc.

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 22nd 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.

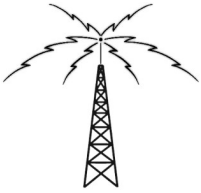


**For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN:**

**See Jay Hoffman, KA5OST**

**ka5ost @ arrl.net**

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



# Over the WWaves...



## **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)

Radio host Kim Komando has produced a 15-minute segment on the value of Amateur Radio during emergencies for her podcast, dated today (Feb 25). It features Idaho Section Emergency Coordinator Mike Meier, WB7RBH, among others.

This is an exceptionally well-produced piece with a solid message.

Hats off to Mike for being on the show!

“The People Who Take Over when All Other Communications Fail.”

<http://www.komando.com/listen/komando-on-demand>

Forwarded by Juanita Miyasaki, KD5OIE

## **AWESOME LINK OF THE MONTH!!!**

Get Your Brain Juices Flowing for This One!!

Figure this out! This may not have much to do with ham radio, but there many very bright hams who might like this challenge.

[http://www.youtube.com/watch\\_popup?feature=player\\_embedded&v=3PszMaZ5Ipk](http://www.youtube.com/watch_popup?feature=player_embedded&v=3PszMaZ5Ipk)

Forwarded by Juanita Miyasaki, KD5OIE

**The Greater Houston Hamfest** is less than 4 weeks away (March 18 & 19). This year it is a two day event with various hands-on demos, kit building, tutorials, remote ham station operations and emergency vehicle(s) on Friday. Saturday will have even more events and have Commercial Vendors' and Private Sellers' at tables, with 15% more tables than previous Greater Houston Ham-fests.

**On-line table selection is now up and running.** A quick look at the table selection chart will show that only a few choice spots remain. REMEMBER: Tables usually sell out the week before the event...get yours now!

Go to: [www.houstonhamfest.org](http://www.houstonhamfest.org) to see the complete schedule and to purchase your advance discounted tickets and to choose your table.

Remember, pre-registration is only \$8 and you receive 2 door prize tickets. You will pick up your pre-sorted packet at the VIP booth and be promptly whisked into the building. At-the-gate registration is \$10 and you receive 1 door prize ticket.

## New ARRL President Happy to be Part of "Exciting Times for Amateur Radio"

Making his inaugural [ARRL National Convention](#) appearance this week as ARRL President, Rick Roderick, K5UR, said he's looking forward to meeting many League members in person at Orlando. The 2016 ARRL National Convention on February 12-14, is



ARRL President Rick Roderick, K5UR.  
[Rick Lindquist, WW1ME, photo]

hosted by the Orlando [HamCation](#)<sup>®</sup>, which is celebrating its 70th anniversary this year.

"We are embarking on a new era at ARRL as the second century begins," President Roderick said. "I'm thrilled to be part of these exciting times for Amateur Radio."

Over his term, President Roderick said, his emphasis will be on implementing the 5 year [Strategic Plan](#) that the ARRL Board of Directors adopted at its annual meeting in mid-January. Roderick said the plan "will help grow and advance Amateur Radio, and make the League stronger and more responsive to our members."

He also said he'll put forth a major effort to secure passage of the Amateur Radio Parity Act, as well as improved enforcement by the FCC.

President Roderick, 63, is the ARRL's 16th president, succeeding Kay Craigie, N3KN, who served for three terms as the League's president. An ARRL Life Member, he has been a radio amateur for 48 years and lives in Little Rock, Arkansas.

A complete ARRL National Convention [program guide](#) is available. Read [more](#).

QST de W1AW  
Space Bulletin 001 ARLS001  
From ARRL Headquarters  
Newington, CT February 1, 2016  
To all radio amateurs

### SB SPACE ARL ARLS001 ARLS001 **Satellite Package Carrying Amateur Radio Payloads Released into Orbit from ISS**

A package of two satellites carrying Amateur Radio payloads has been deployed into orbit from the International Space Station (ISS) as part of a collaborative Texas A&M and University of Texas at Austin research effort. Built by Texas A&M students, AggieSat4 (AGS4) will release UT's Bevo-2 CubeSat in about a month, once it is far enough away from the ISS. Both schools received support from NASA's Johnson Spaceflight Center (JSC) for the design, construction, testing, and launch phases. The goal of the overarching LONESTAR (Low Earth Orbiting Navigation Experiment for Spacecraft Testing Autonomous Rendezvous and Docking) program is for the two satellites to individually rendezvous with each other and perform docking and undocking maneuvers.



(Continued on page 7)

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"The overall objective is to find ways for small spacecraft to join together autonomously in space," Helen Reed, KD7GPX, professor of aerospace engineering and director of the AggieSat Lab at Texas A&M told NASA. "We need simple systems that will allow rendezvous and docking with little to no help from a human, which will become especially important as we venture farther out into space.

Applications could include in-space assembly or reconfiguration of larger structures or systems as well as servicing and repair."

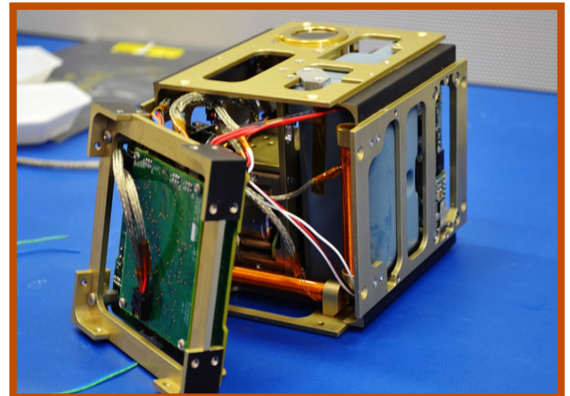
The AggieSat team received its first beacon signal from the satellite at its Texas A&M Riverside Campus ground station. The AggieSat4 team is asking any Amateur Radio operators receiving the beacon signal to send any data to the AGS4 team via email to, [aggiesat@tamu.edu](mailto:aggiesat@tamu.edu) .

AggieSat4 will transmit 9.6 kbps FSK telemetry and 153.6 kbps FSK on 436.250 MHz. Once it's placed into its own orbit, Bevo-2 will transmit on 437.325 on CW and 38.4 kbps FSK.

Both satellites were launched to the space station during a December 6, 2015, resupply mission. Earlier last week, Astronauts Tim Peake, KG5BVI, and Scott Kelly made preparations to deploy the sizeable LONESTAR phase 2 mission satellite package from the ISS, using the SSIKLOPS deployer. The satellite mission also will demonstrate communication cross links, data exchange, GPS-based navigation, and other tasks. AggieSat4 will capture images of the Bevo-2 release.

The satellites were independently developed by student teams at the two universities. Both teams were responsible for development plans for their satellite and had to meet established mission objectives.

The Bevo-2 Satellite was designed, built, and tested in the Texas Spacecraft Lab (TSL) at the University of Texas at Austin. "This whole experience is very exciting," TSL Director Glenn Lightsey, KE5DDG, said last fall as undergraduate and graduate students were in the final stages of their project. "It's great to have a research program where our students can build satellites that fly in space."



Reed and Lightsey are co-investigators for the LONESTAR 2 project. ■

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## Zilker Kite Fest Volunteers Needed

March 6 and (if needed) rain date March 13.

We need a few folks early morning to help set up, and by 8 or 9 a couple more, we should be out by 6:00. 2 hour shifts, and the heaviest times are 11-5:00.

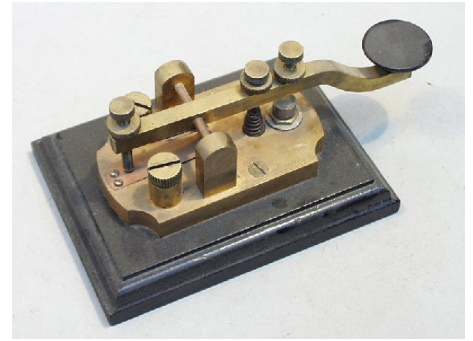
Breakfast is available, and other minimal foods and liquids available for the workers.

This is always a great event, and will be again this year. There is a second event ongoing on the south side of the park (across the road) that is a children's event and may be an attraction for wandering young ones which could present a need for expanding the search for them.

Also, I will send out information about parking passes and other details as they are forthcoming.

Thanks,  
for T.C. REACT  
Roger Wines - W5WIA  
512-453-2193 d.p. 512-307-8251

# Silent Key



## Jim Rudd, W5SIO - SK

Forwarded by Jeff Schmidt, N5MNV

I am very sad to report the passing of a consummate Ham & Elmer- Jim Rudd W5SIO (96 yrs young!).

He was sharp as ever, getting around well and a-very- capable driver!

It was relayed to me that just a few weeks ago, he had fallen and broke a hip, after which he spent some time in the hospital & a rehab center. Somewhere during that time, he contracted pneumonia and consequently passed away.

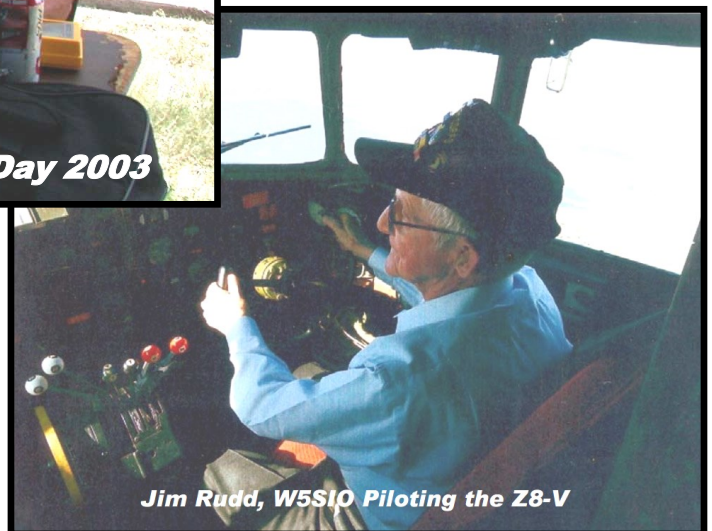
Jim had been thru World War 2 as an Airborne Comms Officer- dragged gliders during the D-Day assault! A seasoned CW man, Jim was one of the -best- Field Day ops, suggested an innovative tri-fold logging sheet and doing more work than most of the youngsters!

We will miss our little buddy Jim.

### - Editors Note -

Check out the May 2015 issue of the AARCover to read Jim's story about himself.

<http://www.austinhams.org/aarcover/2010/May%202010.pdf>



## AARC General Meeting, 2 Feb 2016

**Start:** 7:00 pm

**Visitors** Six visitors tonight. Welcome!

**New hams** none

**New members** none

**Upgrades** none

**Call sign changes** none

**Approval of minutes:** Minutes of the January meeting were approved as distributed in the AARCover.

**Announcements:**

**General**

Lori Schmidt, KM5MQ: Dan Poggemiller has been diagnosed with a rare cancer. He is in a hospital in Houston. A gofundme.com account has been established, contact Lori for more information.

Deroy Howard, AA5R: Sally and I are moving soon and have a large collection of QST magazines. Contact AA5R@arrl.net if interested. Includes free delivery!

William Moyes, KC6ARO: Peaberry homebrew SDR kits are available again.

Brian Wood, KF5GAH: I have big bag of tin cans and pans and such

Don Dudley, AC5YK: As a reminder: for radio-related items, feel free to use the e-mail list. I would also like to thank Roy Walker for assisting a local ham with his antenna installation.

**Events:**

March 12: Williamson County swap fest

Mar 12 17th Annual MSET Helicopter Landing Zone Training Class & Motorcycle Safety Demos Austin

March 19: 61st annual St. Patrick's Day Hamfest and ARRL West Texas Convention, Midland

See the swapnet newsletter for details and additional upcoming events: <http://www.austinhams.org/swapnet.htm>

**Officer reports:**

Jay Hoffman, KA5OST, treasurer: Out tonight.

Don Dudley, AC5YK, president: KXAN has offered to donate a trailer to TCARES and we are in the throes of working out the details.

Angie Steelman, KF5ZXI, secretary: We had over 40 in attendance last month. I know not everyone signed in after looking back at the sheets. - please sign in on the sign in sheets. Don: We need to know in order to assess potential new locations

Lew Thompson, W5IFQ, vice-president: My task is to provide presentations. Please talk to me about what you would like to see and if you are interested in presenting.

Don Dudley: If you have any opinions about where to meet, let me know. We are considering non-food locations; if that is a problem I need to know.

Mitch London, KD5HCV, newsletter editor: We need someone to do the newsletter. I will be doing only two more newsletters.

Stuart Rohre, K5KVH, technical committee: No reports in the last 30 days. The Red Cross and ARRL have executed a new MOU which is available on ARRL's webpage. Go to [arrl.org](http://arrl.org) and read up on it. Suggestion: Put a copy on [austinhams.org](http://austinhams.org). Stuart: We will do that if a web person will contact me to get it up there.

Joe Canfield, N5HPC: Drill on Nov 2 with hospitals in cooperation with another group. The drill will start with a major catastrophe not in Travis county. Rewriting emergency operating procedures to include use of amateur radio.

Rick Kirchoff, NG5V: The new date for BBHN field services is second Wednesday. Same place (CATRAC facility); meetings are now more skills oriented and less on the presentation. On behalf of TCARES: I am moving to Llano in the summer and TCARES needs a webmaster. Contact Rick or TCARES officer if interested.

**Door Prize:** James Howard (#8) won a 2016 calendar

**Space weather** presented by Lew Thompson

Jim Truelove, WB5EMI, Update on DStar repeater: Had many technical issues over the past year. We've rebuilt the gateway and sent the VHF module back to Icom and found an intermittent cold solder joint. We hope to have everything reconnected shortly.

Meeting adjourned at 7:55 pm.

**AARC Meeting Info.**  
**Baby A's near the Arboretum**  
**9505-B Stonelake Blvd.**  
**(Come early and have dinner!)**

**Business Meeting 7:00 pm**

**March 1—Mobile HF operations by Lew W5IFQ and Rick NG5V 12v power systems for mobile use.**

**Officers Meeting**

**Officers meet from 6:00 to 7:00 pm prior to regular club meeting and are open to all. Contact an officer for more information.**

**2016 Upcoming Amateur Exams**

**ARRL VEC— March 5th & April 2nd**  
 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- March 19th & April 16th**  
 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/>

**2016 Calendar of Events**

**Mar 5 Irving ARC Hamfest**  
 Betcha Bingo Hall 2420 West Irving Blvd. Irving, TX  
 Irving Amateur Radio Club Talk-In: 146.72 - (PL 110.9)  
 Ken N2VIP 609-510-3068 [n2vip@arrl.net](mailto:n2vip@arrl.net) irvingarc.org

**Mar 5 27th Annual Elk City Hamfest**  
 Elk City Community Civic Center 1016 East Airport Industrial Road, Elk City, OK 73644 Talk-In: 146.76 (PL 88.5)  
 Contact: Earl Bottom, [n5neb1988@gmail.com](mailto:n5neb1988@gmail.com)

**Mar 6 Travis Co. REACT Zilker Kite Fest**  
 Early AM set up, ~ 8 or 9 a couple more,  
 Roger- W5WIA 512-453-2193 [w5wia@arrl.net](mailto:w5wia@arrl.net)

**Mar 12 WCARC Swapfest and License Testing**  
 San Gabriel Park Community Center, 455 East Morrow Street [K5CSW@ARRL.NET](mailto:K5CSW@ARRL.NET)

**Mar 12 17th Annual MSET Helicopter Landing Zone Training Class** [www.mset-tx.org](http://www.mset-tx.org)  
 Shoreline Christian Center 15201 Burnet Rd

**Mar 19 Greater Houston Hamfest**  
 Fort Bend County Fairgrounds in Rosenberg  
 Ron K5HM 281-961-4570 [K5hm.ron@gmail.com](mailto:K5hm.ron@gmail.com)  
[www.houstonhamfest.org/](http://www.houstonhamfest.org/)

**Mar 19 61st Annual St. Patrick's Day Hamfest & ARRL West Texas Convention**  
 Grand Texan Hotel and Convention Center 4300 W. Wall Street Midland, Texas  
<http://hamfest.w5qgg.org/>

**Upcoming Meetings...**

Mar	Apr	Austin Meetings/Happenings	Time	Address
1	5	AARC Meeting Baby A's	7:00 p.m.	9505 Stonelake Blvd.
22	26	Travis County A.R.E.S. Pickle Research Ctr	7:00 p.m.	10000 Burnet Rd.
24	28	CERT Meeting, CTECC	6:30 p.m.	5010 Old Manor Rd.
28	25	CTDXCC Meeting Old Quarry Library	6:30 p.m.	7051 Village Ctr Dr.

*If your club is listed here and has incorrect time or dates, please let us know!*  
[editor@austinhams.org](mailto:editor@austinhams.org)