

Keeping Austin Wireless for Over 93 Years!



Bulletin of Austin Amateur Radio Clubs

ISSN 1067-0262

March 2013

Happy St. Patrick's Day

Issue 3-2013

FCC Releases New Rules for 60 Meters

West Gulf Division Newsletter

On November 18, the FCC released a Report and Order (R&O), defining new rules for the 60 meter (5 MHz) band. These rules are in response to a Petition for Rulemaking (PRM) filed by the ARRL more than five years ago and a June 2010 Notice of Proposed Rulemaking (NPRM). In the R&O, the FCC replaced one of the channels in the band, increased the maximum authorized power amateur stations may transmit in this band, and authorized amateur stations to transmit three additional emission designators in the five channels in the 5330.6-5406.4 kHz band (60 meters).

The Amateur Radio Service in the United States has a secondary allocation on 60 meters. Only those amateurs who hold General, Advanced, or Amateur Extra class licenses may operate on this band. Amateur stations must not cause harmful interference to -- and must accept interference from -- stations authorized by any administration in the fixed service, as well as mobile (except aeronautical mobile) stations authorized by the administrations of other countries.

For a complete reading of the rule, please refer to <http://www.arrrl.org/news/fcc-releases-new-rules-for-60-meters>. Please note that these changes have not yet taken effect. These new rules will take effect 30 days after they are published in the Federal Register.

The ARRL will announce on its website when the rules are published

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+

In This Issue

Story	Page
Ham Exam Results	2
AARC History	4
WGD Awards	5
Lost Satellites	6
AARCover History	7
Recipe Section	8

Ham Radio Exams Results

The following are the results of the ARRL VE Test Session held on February 2nd at Bethany United Methodist Church:

Technician Class Licenses Processed

Aften A. Giotis KF5TSC son KF5TSB	Adrian M. Iley KF5TRZ	Keith E. Johnson KF5TSB
Romon A. Lewis KF5TRY	Long V. Tran KF5TSA	Frank C. Wells KF5TSD

General Class License Processed

Richard A. Stitt KF5DVN

Examiners Participating in this Test Session

Steven Bonds NQ2S	Mark Esslinger W5MAE	Howard Glueck K5ZUA
Larry Gunter WB5BEK	Joe Makeever W5HS	Joe Thiel N5SMN

Next ARRL VE Test Sessions

March 2nd - Bethany United Methodist Church, Disciple Bldg. Room 203/204
April 6th - Bethany United Methodist Church, Disciple Bldg. Room 203/204

TNX ES 73 DE W5HS
Joe

2-23-2013

The South Austin W5YI VE team heartily congratulates all of the following people who earned new or upgraded amateur radio licenses at our special February 23rd session:

Extra Class –

Charles S. Gaede, KF5KFZ
Raymond Hoyt, Jr., KF5TNP

General Class –

George Cambron, KC1ATT
Thomas Jeter, KC5TRJ

Technician Class - (new)

Clark L. Kocurek

Our administering volunteer examiners were:

Craig Bean, AC5KW	Jim Greenwood, AB5EK
Scott Bryan, W5TS	Walter Marusa, Jr., K5 WLY

Our next two amateur radio exam sessions will start at
2 PM on March 16th and April 20 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 Craig AC5KW 512-474-6443 or by e-mail to
hamradioexams@hotmail.com or visit our web page at
<http://texashams.org/w5yi-austin/>

President	Lori Schmidt	KM5MQ	632-6789	president@austinhams.org
Vice President	Rich Kerschner	KC9VFT		vice-president@austinhams.org
Treasurer	Jay Hoffman	KA5OST		treasurer@austinhams.org
Secretary	Jorge Harada	KF5IED		secretary@austinhams.org
Editor, AARCOVER	Mitch London	KD5HCV	368-2566	aarcover @austinhams.org
Technical (Repeater Contact)	Stuart Rohre	K5KVH	255-3932	k5kvh@arrl.net
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.

AARCOVER Information: ISSN 1067-0262, CODEN AAOVE3. ©Austin Amateur Radio Club, Inc. Published monthly by the Austin Amateur Radio Club, Inc.

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 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

ka5ost@arrl.net

Jay handles all changes for membership information .

Club Dues for 2013 are Due!

The new year is almost here and you might as well get a jump on things by paying your dues for the 2013 year.

Besides the admiration of your friends, you also get guilt free use of all club repeaters, access to club equipment, online help through the use of the Austin Hams Yahoo group and much more! Be the first on your block to be a new member in 2013!

You can pay online at- <http://www.austinhams.org/join.htm>

Just fill out the .pdf form and mail to:

The Austin Amateur Radio Club
PO Box 4739
Austin, TX 78765-4739



AARC History:

Paul Hargis

As self-appointed Historian for AARC, I thought I'd share the attached page from the Minutes of the Austin City Council Meeting of May 5, 1956. Paul was born January 12, 1907, right here in Austin and built a wholesale electronics supply business which he operated until his death in Galveston of a heart attack. His wife, Jewell, continued to operate Hargis-Austin for many more years and she was a strong supporter of AARC. Though never licensed herself, she was made a Life Member of AARC. Paul and Jewell had no children.

Hargis-Austin was located at the SW corner of Baylor and Rose streets, downtown. A 1969 issue of Callbook Magazine shows W5KA as the Club Station License of AARC located on Rose St adjacent to the building that housed the business. Paul was involved in other civic activity too. He was a member of the "New" Airport Committee appointed by the Council to make recommendations. That airport was what we now call the "old" airport: Mueller Field, which opened ca. 1959.

Joe Fisher, K5EJL
ARRL Technical Specialist and CLM

"City of Austin, Texas

The Council noted the many civic activities that MR> PAUL HARGIS had engaged in besides being active on the Airport Committee. Councilman Long offered the following resolution and moved its adoption:

(RESOLUTION)

WHEREAS, Paul Hargis, in the forty-nine years of intensive life allotted, ceased those labors on January 29, 1996, after sharing most unselfishly his unique talents, skills and energies in advancing the welfare of his fellows, through improvement of man's ability to communicate with others, and among his other contributions he served with distinction as a member of the City of Austin Advisory Committee; Now, Therefore,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF AUSTIN:

That a page be set apart in the Minutes of the City Council upon which shall be spread this Resolution, and that when the Council adjourns this day it does so in the memory of the beloved Paul Hargis another of man's great benefactors.

The motion, seconded by Councilman White, carried by the following vote:

Ayes: Councilman Long, Palmer, White, mayor Miller

Noes: None

Absent: Councilman Pearson

Jesse W. Copeland, W5TQ

Jesse Wayne Copeland, W5TQ (SK), was born this day (Feb.18th) in 1906 in Philadelphia, Hancock Co., Indiana, to William M. Copeland and Etta Meek. We honor Jesse as the initial benefactor of the Jesse Copeland Scholarship Fund controlled by AARC and administered by Austin Community Foundation. W5TQ is now a Club license of AARC used primarily by the station at the Combined Transportation and Emergency Communication Center (CTECC) of Austin/Travis Co.

Jesse married Mary Amanda Adams in 1936, but they had no children. She had a son and daughter from a previous marriage, both of whom had passed away by the time of the receipt of Jesse's bequest to AARC. This biographical info comes from genealogical work of others posted on the I'net. Jesse had retired from FAA when he died in Austin on 14 Aug 1982.

AARC members should be proud that not only has many thousands of dollars in scholarship money been distributed over the past 25-odd years by the Fund, but also that the corpus has grown to some \$390K from an initial \$240K. This year 6 applicants have applied for scholarships from the Fund.

WGD Announces New Annual Division Awards

Director David Woolweaver is pleased to announce the creation of the **West Gulf Division Annual Division Awards**. There are two primary awards: **Ham of the Year** and **Young Ham of the Year**, which will be complimented by a third award, the **West Gulf Division Excellence Award**.



While the first two awards are self explanatory, the third award represents any Amateur Radio endeavor that the nominators feel deserves recognition. Suggested categories can be found on the Division website. www.arrlwgd.org

They include **Educator of the Year**, **Radio Scouter of the Year**, **Technical Achievement** and **Amateur Radio Organization of the Year** among many others. For the WGD Excellence Award only, the nominators are not limited to the suggested categories.

Divisional Awards will be presented at the West Gulf Division Convention each year. Nominations for 2012 Award Winners will be accepted until April 15, 2013 for presentation at HamCom in June. Nomination forms for each nominee (by category) must be supported by at least three ARRL members on the award nomination form, a minimum 150-word statement and any available supporting documentation. Other rules do apply and can be found on the WGD website at www.ARRLWGD.org.

The Division Awards judging panel consists of four (4) ARRL members, selected by each of the Section Managers in North Texas, Oklahoma, South Texas and West Texas Sections. The Section Manager may opt to appoint his/herself to the committee. The fifth judge is selected by the Division Director and may reside anywhere within the West Gulf Division. Neither the Division Director nor the Vice Director will participate in the vote.

Martti, OH2BH contributes this handy world-wide temperature conversion table:

+15 °C,	Spanish wear caps, gloves and winter coats, Finns are sunbathing
+10 °C,	French desperately try to get their central heating on. Finns plant flowers.
+5 °C,	Italian cars won't start. Finns drive with convertibles.
0 °C,	Pure water...freezes. Water in river Vantaa thickens a bit.
- 5 °C,	First people are found frozen in California. Finnish midsummer festival ends.
-10 °C,	Scottish turn the heat on in their houses. Finns start to use long-sleeve shirts.
-20 °C,	Swedes stay indoors. Finns are having last barbeque before winter.
-30 °C,	Half of the Greek people have frozen to death. Finns start to dry their laundry indoors.
-50 °C,	Polar bears evacuate North Pole. Finnish army starts its winter training.
-70 °C,	Siberian people are moving to Moscow. Finns are furious since the Koskenkorva liquor can't be stored outdoors anymore.
-273 °C,	Absolute zero. Finns admit that it is quite cold outside.
-300 °C,	Hell freezes over. Finland wins the football World Cup.



(From the ARRL Contest Update e-Mail)

Digital Mode Help

As the new year begins, take a look at getting active on digital modes. Help is available. Recently, TCARES has heard from Glen Reid, K5FX and Tom Whiteside, N5TW about use of digital modes in emergency response. Several recent SET events have highlighted message transport over Winlink, HSMM-MESH and even people/event tracking on APRS. We have support all the way to the top of ARES/ARRL. In the West Gulf Division, David Woolweaver, K5RAV the Director is always seen at Hamcom and Austin Summerfest. We see John Robert Stratton, N5AUS in the same places and even at TCARES, AARC and Digital Wednesday meetings. If you have wanted to do APRS, HF or VHF Winlink, Microwave data over HSMM-MESH or similar, help is nearby.

We support digital modes locally at Digital Wednesday held at the CENTEX Chapter of the Red Cross on every 4th Wednesday. Test equipment to set deviation on FM rigs, software config assistance and operator skills help are all available from experienced hams. (Elmers are not all gone, you just have to look for them). Breakfast at Saturday mornings at Waterloo Ice House is a place to meet most of these people each week. See Swapnet for schedules, events and changes in meetings.

You can learn about HSMM-MESH at <http://hsmm-mesh.org> The forums are full of users exchanging questions, answers and ideas to expand the system. You will need an account to post on the forums but you can self-register and then ask away. The Captcha filter is necessary to cut out the dozens of spam registrations submitted each week. If you know how to code Joomla processes to filter a new registration through the FCC or QRZ databases, you can help to remove that inconvenience.

We all have lots on the table. Ham radio is changing as new products, methods and needs show up. Keep you skills sharp and expand a little. See you on the air (digitally or otherwise).

73

NG5V

Rick Kirchhof

TCARES AEC, HSMM-MESH core developer

Sounds From Space Website Looking for Additional Sounds

(Forwarded By Pete Jordahl, K5GM)

Matthias, DD1US, would like to draw your attention to a collection of audio recordings, the "Sounds From Space" collection on his web- site at <http://www.dd1us.de>. This features a collection which has also a section dedicated to recordings of amateur radio satellite signals.

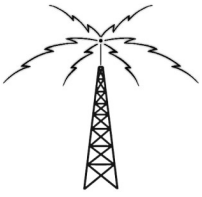
Please have a look at it. The idea is to give older radio amateurs the chance, to listen to signals of satellites which are already gone and the might have worked in the past, and to younger people interested in ham radio, to get them more excited in satellite communication.

In spite of the fact that the collection now has close to 1000 recordings he is still missing recordings from some amateur radio satellites. If anyone of you would be willing to contribute recordings to these satellite he would highly appreciate it. He has and always will give full credit to the source of the recordings. Please have a look in your older tapes and recordings!

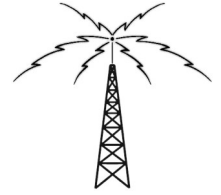
Here is a list of the most wanted missing satellites:

Amsat Oscar 8	RS-1	RS-2	ISKRA-1	RS-3	RS-4
RS-5	RS-6	RS-8	ISKRA-3	Fuji-OSCAR-12	
UOSAT OSCAR 15	WEBER OSCAR 18		UOSAT OSCAR 22		POSAT OSCAR 28
TMSAT OSCAR 31	PANSAT OSCAR 34		UOSAT OSCAR 36		
ASUSAT OSCAR 37	WEBER OSCAR 39		SAUDI OSCAR 42		
STARSHINE OSCAR 43	MYSAT OSCAR 46		KAGAYAKI (SORUNSAT-1)		ANUSAT
BEVO-1	WASEDA-SAT2		StudSAT		

[ANS thanks Matthias, DD1US and The Sounds From Space website for the above information]



Over the WWaves...



A Collection of useful and interesting Websites sent in by our readers
(All links have been checked by editor)

<http://youtu.be/z4CdvOIX9cY>

This is a very well produced interview of an amateur radio operator. Steven Polunsky W5SMP

https://www.youtube.com/watch?v=mEz_hcYumQI

I'm probably NOT going to try this, though it seems perfectly logical on the surface. Rick Herndon, K5FNI

This one knocked my socks off, because I recall having discussions in early elementary school about such, but I surely didn't have the tools to provide THIS measurement comparison in the early fifties, much less the observed stuff that is detailed here. Highly recommended viewing. I turned the music off right away. Kudos to the twin ninth graders, Rick Herndon, K5FNI

<http://abcnews.go.com/Technology/page/scale-universe-cary-michael-huang-california-high-school-15573968>

Google has released a new mapping service to communicate info on severe weather and other forms of natural disasters, in a graphic format.

<http://www.google.org/publicalerts>

Bruce Nolte, N1BN



AARCOVER DONATION

A huge thank you to AARC member James Robbins, N5OUJ. Recently he brought the AARCover Editorial Staff (me) some paper copies of the AARCover dating back to late 1987. These newsletters are a huge treasure trove of history about the club that may have otherwise been lost.



I have been scanning these newsletters in as fast as I can, when I have time. For some reason, for a brief period, some editor thought it would be fun to have 15 page AARCovers! Whew! There is truly some great reading to be found in these AARCovers including the first use of the *AARCOVER FONT* and its origin. There is also a little history about the creation of the AARC capitol dome logo seen to the left and on the cover of the AARCover. Just reading through some of the minutes gives an insight to the club and its month to month operation.

I am sure in upcoming issues of the AARCover you might find some articles I have gleaned (ok, stolen) from some of these previous AARCovers in that they show some interesting tidbit of our clubs past. But don't wait for me to just put in one or two articles. We have already posted 4 years of these newsletters on the austinhams webpage, just visit....

<http://www.austinhams.org/newsletter.htm>

And scroll down the page to the year you wish to see. When these are all uploaded to the web, if you see a date of an AARCover that is not there and you happen to have a copy of it, please either

HAM RECIPES



Calling all hams! Starting this month, there is a new section in the AARCover. A page dedicated to recipes sent in from our members. These can be your favorite recipes or a some family secret recipes. We will print one or two recipes per month. Recipes can also be holiday related such as the **Luck 'o the Irish Brownie** recipe below. You can either scan in a picture of your recipe or type it up and email it or you can mail it.

E-Mail recipes to editor@austinhams.org

Mail to:

Mitch London
5601 Lewood Dr.
Austin, TX 78745

LUCK 'O THE IRISH BROWNIES

Ingredients

Bottom Layer

4 squares Unsweetened Chocolate
1 Cup Margarine (softened)
2 Cup White Sugar
3 Eggs
2½ tsp vanilla extract
1 Cup All Purpose Flour

Middle Layer

4 Cups Confectioners Sugar
2 TBS Milk (or as needed)
1½ tsp Peppermint Extract
6 drops green food coloring
½ Cup Butter, softened

Top Layer

1 1/3 Cup Semisweet Chocolate Chip
6 TBS Butter
1 TBS Vanilla Extract

Preheat the oven to 350°F (175° C).
Grease a 9x13 inch baking dish.

Melt the unsweetened chocolate in a cup or small bowl in the microwave. Stir at 15 second intervals until chocolate is smooth. Allow to cool slightly. Transfer to a large bowl, and stir in the margarine and sugar until smooth. Beat in the eggs one at a time, then stir in the vanilla. Stir in the flour just until blended. Pour the batter into the prepared dish and spread evenly.

Bake in the preheated oven until the surface appears dry and the sides are beginning to pull away from the edges of the pan, 20 to 25 minutes. The brownies may look more like cake and may jiggle slightly in the center- this is normal. Remove from the oven and cool in the pan set over a wire rack.

To make the middle layer, beat 1/2 cup of butter with confectioners' sugar in a large bowl using an electric mixer. Add milk as needed to get a spreadable consistency. Stir in the peppermint extract and green food coloring. Spread this over the cooled pan of brownies. Refrigerate for 30 minutes

In a microwave-safe bowl, microwave chocolate chips with the butter until melted. Stir every 20 seconds until chocolate is smooth. Stir in vanilla and then pour over the chilled brownies and quickly spread to cover the surface. Cool again until firm, about 10 minutes, then cut into squares and serve.



Club Minutes

AARC Meeting Minutes: February 02, 2013

Meeting called to order: 7:00 PM by President Lori Schmidt, KM5MQ.

Meeting started with a welcome to all. We had <unknown> in attendance w/ 2 visitors & 0 new members. 1 new member K2QDE, no upgrades reported.

Minutes: last meeting's minutes approved as written in AARCOVER.

Past Events:

3M Marathon last month, 20 hams present. Info on Big Bend Ultra deferred for presentation.

Upcoming Events/Announcements:

Technician class, officer's meeting date changed to Feb 9th, 9am at Waterloo Icehouse Burnet

GAMA class with Dallas

February 16th – Helicopter Landing Class

Ham cruise Feb 10th. QSOs on following freqs 3.873, 7.285, 7.290, 14.300, 18.160, 21.280, 24.960, 28.400.

Call HP0/call/carnival magic mm

WilCo ARC Swapfest March 16th

Packet Stuffing AAS changeup

Apr 7th CAP10K fun run – need ops contact N5MNW

Annual dues are due

T-shirts and Polos still available contact Mitch KD5HCV

Copeland scholarship fund apps being received

Stuart K5KVH mentions ARES/Red Cross drill

Alan KE5DTR announces Cannoli Joe's closed – start looking for all possible options.

These items, other upcoming events, and scheduled presentations are listed in the AARC Swapnet newsletter, at www.austinhams.org, and on the Yahoo user group.

REPORTS:

President: New equipment available for loan, including Alinco HF Rig

V-P: None by Rick Kershner KC9VFT

Treas: \$800 in anniversary fund, \$8600 in equipment fund, operating fund \$11000, ARES. Currently at 205 paid members.

Editor: Announced newsletters available at austinhams.org and upcoming Joomla site redesign/redeployment.

Tech Committee: Automated repeater reporting tool available.

ARES: Glen Reid K5FX not present.

SIG/Other: AARC Ladies Auxiliary, QRP interest group, field day, QCWA meeting April 20th

Space WX: by Lew W5IFQ. More unusual sporadic-E activity.

Old Business: None

New Business: None

Ham-of-the Month: KD5HCV, KE5DTR, KD5VRU, KC2KG

Door Prizes: WX5U and KC9VFT won prizes.

Adjourned: 7:54 PM

Presentation: Big Bend Ultra with Mitch London, KD5HCV

AARC Meeting Info.

Waterloo Icehouse

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

Business Meeting 7:00 pm

March 5— TBA

Officers Meeting 7:00 pm

March 19 - Come by and watch the officer at work!

2013 Calendar of Events

Mar 8–9 Oklahoma Section Convention /
Green Country Hamfest, Claremore, OK
<http://greencountryhamfest.org>

Mar 9-11th Annual Irving Hamfest
Irving Amateur Radio Club
<http://www.irvingarc.org>

Mar 16 WCARCHamfest
Georgetown Community Center
Rick W5NR rhrommer@suddenlink.net

Mar 16 West Texas Section Convention /
Midland, TX Midland Amateur Radio Club
<http://hamfest.w5qgg.org>

Mar 22-23 Greater Houston Hamfest
note date change
ARRL SouthTexas Section Convention -
pending -
Ft. Bend County Fairgrounds 4200 Highway
36 Rosenberg, TX77471
Co-Chair: JohnK5IZO@yahoo.com
Matt K5NGU matttatro@gmail.com
(281) 905-1008
www.houstonhamfest.org

2013 Upcoming Amateur Exams

ARRL VEC– March 2nd & April 6th 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 16th & April 20th
2p.m. in room 207, Fleck Hall, St. Edwards Univ.
Contact Jim Greenwood, AB5EK@arrl.net,
(327-6184) for more info.
<http://texashams.org/w5yi-austin/>

Upcoming Meetings...

Mar	Apr	Austin Meetings/Happenings	Time	Address
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.
18	15	ATV Club Meeting La Palapa %	7:00 p.m.	6640 Hwy 290 E
	20	QCWA Tres Amigos \$	1:30 p.m.	7535 U.S. 290
27	24	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.
25	22	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