



AARC ⚡ OVER

**Keeping Austin Wireless
for Over 98 Years!**

Bulletin of Austin Amateur Radio Club

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Issue 08-2018

FCC's Big Fine - But Wait, There's More!

by Joe Fisher, K5EJL
ARRL Technical Specialist and CLM



The lead story in the ARRL Letter for June 7th and on ARRL.org is attention getting:

[ARRL Drone Transmitters Complaint Spurs Proposed \\$2.8 Million FCC Penalty](#)

Wow! But to me, the comment in the June 5 FCC Notice of Apparent Liability (NAL) is more telling:

"If an A/V transmitter is capable of operating outside of the amateur frequency bands, it cannot be advertised, sold, or operated within the United States without an FCC equipment certification. Individuals without an amateur license may not use such radio equipment, if it is designed solely for use by amateur licensees."



This confirms what, to my mind, is one of the most important aspects of the Amateur Radio Service. We are the only service of the 20-something ser-

(continued on page 4)

Periodic Events

Sun	7:00 p.m.	Travis ARES net	147.36 MHz + (131.8)
Sun	8:00 p.m.	Travis ARES Packet (*in UNPROTO)	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 - (107.2)
Sun	(After Swapnet)	<i>Newsline</i>	<i>146.94 MHz - (107.2)</i>
Mon.	7:30 p.m.	STX ARES Net	3.873 MHz
Tues.	7:30 p.m.	Hays ARES net	147.100 MHz +
Tues.	8:00 p.m.	Bastrop ARES Net	443.750 MHz + (114.8)
Wed	11:30 a.m.	Ham Social Luncheon, Jim's	146.94 MHz - (107.2)
Thu	9:00 p.m.	2m SSB Net	144.250 MHz (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
Sat	7:00 p.m.	AARC Elmer Net	146.94 MHz- (107.2)
Daily	6:30 p.m.	Central Texas Traffic Net	147.14 MHz+

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Ham Radio Exams Results

The following are the results of the ARRL VE test session held on July 7th, 2018 at Bethany United Methodist Church:

Technician Class Licenses Processed

Jordan E. Frimpter KI5AVK	Venkata Siva Santosh Ganji KI5AVL	Forrest M. Greene KI5AVJ
Steven C. Long KI5AVF	David W. Peters KI5AVG	Debra S. Peters KI5AVH
Christopher M. Smoot KI5AVI		

General Class Licenses Processed

Lucas J. Mosiman KG5WJZ	Les C. Reed KD5DWA	William D. Ross KG5UXO
-------------------------	--------------------	------------------------

Extra Class Licenses Processed

Miguel A. Martinez KG5UXM

Examiners Participating in this Test Session

Craig Bean AC5KW	Larry Gunter WB5BEK	Gene Hinkle K5PA
Ted Iglehart KF5END	Joe Makeever W5HS	Tom Nevue W2MN

Next ARRL VE Test Sessions

August 4th - Austin Summerfest Convention @ Crowne Plaza Austin Hotel, 12:30 PM in the Austin Room
September 8th - Bethany United Methodist Church, Disciple Bldg. Room 203/204

TNX ES 73 DE W5HS

Joe

7-21-18

The South Austin W5YI VE team heartily congratulates the following people who earned new or upgraded amateur radio licenses at our July 21st session:

Extra Class

Timothy Lamb, KG5WHL	Alwood Williams, III, KC8III
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General Class

Matthew Domsch, N5MLD	Forrest Greene, KI5AVJ
-----------------------	------------------------

Technician Class (NEW)

Christopher Crossland	Zoe Rosebure	Robert Pietrasik
Lynn Dodson	Dwayne Harris	

Our administering volunteer examiners were:

Craig Bean, AC5KW	Gary Popp, AE5JR	Tony Lyon, KJ5XF
Albert Karch, N5OVH	Stuart Wolfe, KF5NIX	

Our next two amateur radio exam sessions will start at 2 PM on August 18th & September 15th in Fleck Hall, room 118 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 at **(512) 474-6443** or by e-mail to **craigmb5@gmail.com**



AARC Officers

President	Ruben Fuentes	WB5WTF	president@austinhams.org
Vice President	Lew Thompson	W51FQ	vice-president@austinhams.org
Treasurer	Mark Jenkins	W5MPJ	treasurer@austinhams.org
Secretary	Carston Buehler	KG5PAL	secretary@austinhams.org
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ARRL Travis Co. Emer. Coord.	Kerby Spruiell	KG5DLD	ec@austinhams.org
TC ARES PIO	Ruben Fuentes	WB5WTF	pio@austinhams.org

Please contact a club officer, attend a meeting, or mail us to join the organization.

Sorry... Online membership registration is temporarily unavailable.

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	USE
146.780/ -600kHz	2m D-STAR Repeater [W5KA C]
146.880 107.2 PL Tone	Analog/Digital Fusion
146.940 107.2 PL Tone	Most popular, TCARES WXnet, Swapnet
224.800	
444.100	
444.200 107.2 PL Tone	
440.650 +5	70cm D-STAR Repeater [W5KA B]
1293.100/-20	23cm D-STAR Repeater[W5KA A]
1248.200	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.

Note: **No** AARC repeater has **autopatch** capability any longer.

The Austin Amateur Radio Club offers annual scholarships to licensees living in Travis, Williamson, Bastrop, Hays, Blanco, Caldwell, and Burnet counties.

Please see <http://austinhams.org/scholarships> for more information.

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Members and other readers are *encouraged* to submit material for publication. Contact the Editor, if mailed submissions are required. Email and/or electronic files are encouraged! Submissions may be edited for publication (for content and/or space). **Deadline is generally the 25th of each month**, but late articles may be considered for future publication. Material may be used in a later issue. Unless otherwise noted, permission is granted to reprint AARCOVER articles, provided you credit the original author and the AARCOVER. If material is included in another publication, a courtesy copy to the Editor is appreciated.



AARC Members:

For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN

Contact: Mark Jenkins, W5MPJ / treasurer @ austinhams.org

Mark handles all changes for membership information.



(continued from page 1)

vices in the FCC Private Radio Bureau in which an ordinary license allows that 1) the station licensee, 2) equipment designer, 3) fabricator, 4) installer, 5) owner, 4) maintenance technician and 5) operator can be all the same person! In fact, the rules encourage such.



Most hams never consider the FCC Rules in this way. Very little amateur equipment has to be certified by an independent testing lab for FCC approval. High power linear amplifiers being the most obvious exception. And most of those can be modified to operate on all of the ham bands. By hams, of course!

And in my case, it begs the question as to whether the Baofeng handheld, which seemingly will operate outside the amateur bands is really FCC certified. Agh! Another project!

To the second sentence in the above NAL snippet, most of us have heard, or heard of, individuals using amplifiers in the ham bands without an amateur license, as well as other infractions. Well, there will always be scofflaws in the ham bands, but I submit that they're usually "too smart by half". If they could see that the commission rules are really flexible enough to accommodate anyone's initiative, why wouldn't they study and get licensed?

My theory is that some few folks think it's an accomplishment to "get around the rules". There's no use, in my experience, in arguing with them. Better perhaps to recount the thrill that all of us licensees have experienced at some time in whatever is our main ham activity.

Maybe some will "get it".

Remember the old saying: "*Argue with a fool, and a passerby can't tell who's who!*"



Return Of An Old Friend?

DE Tom, W5WTA

HobbyTown will start to open Radio Shack stores (stores within their stores?). Not sure if/when that will affect the two HobbyTown (<https://www.hobbytown.com/>) locations near us, one across from the Fry's parking lot and one at 183 and 1431.

From this link: <http://www.arrl.org/news/radioshack-express-stores-to-open-in-hobbytown-usa-locations> According to a July 13 article in the New York Post, RadioShack is planning to open "express stores" within HobbyTown USA locations. The nearly century-old, twice-bankrupt retailer has signed a deal with HobbyTown USA to put a mini-RadioShack outlet in some 50 HobbyTown USA stores across the country that would sell items that might appeal to radio amateurs and experimenters. Those locations will be identified with RadioShack signage. HobbyTown markets remote-controlled cars and boats as well as drones and other hobby-related merchandise.

"HobbyTown is purchasing the RadioShack merchandise and offering it to its hobbyist customers who need the tools, wires, and other accessories that RadioShack makes," the Post article said.

Dating its founding to 1921, RadioShack once offered a broad array of name-brand Amateur Radio equipment — even beams and towers — along with home entertainment gear and discrete components, including transistors, resistors, and capacitors. Its iconic 1960s-era catalog ran to more than 300 pages. In later years, it sold a fairly popular 2-meter handheld transceiver for a time, as well as Citizens Band equipment, 10-meter single banders, and shortwave receivers. RadioShack's retail website remains open, marketing many of the same items once available in its retail outlets.



President's Corner

August 2018

DE WB5WTF, Ruben Fuentes



As of the writing of this article we're just **8 days away** from Summerfest. There's been an appeal for volunteers to help with registration of the attendees, so if you can help please contact Jerri Wines, wife of Roger Wines (W5WIA). She can be contacted at jeriwines@sbcglobal.net. Thank you for any help you can give. Even if you can't help with registration, please make every effort to come by and check out the educational opportunities as well as the vendors.

As most of you well know, the club ended up with two emergency communications trailers a few months ago and the second **trailer is up for sale by bidding**. If you know of anyone interested in the purchase of this trailer, please refer them to <http://austinhams.org/trailer>.

73 and see ya at Summerfest.
Ruben (WB5WTF)



This Space Reserved...



for Informational,
Technical, Entertaining,
Funny or Inspiring
ham-related articles!

ONGOING CALL FOR ARTICLES

Do you have something you'd like to share with our amateur radio community? You don't have to be a Hemingway or looking to win a Pulitzer. That's where an Editor comes in. Share your words of wisdom, wit, or just a web link you found interesting.

Don't delay! Send it today to: editor@austinhams.org and become published!



FEATURED EVENT

AUSTIN SUMMERFEST 2018

August 3 & 4, 2018

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

Austin, Texas
78752

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 2018., the ARRL Texas State Convention. And, as always, we also host the Summer Meeting of the Texas VHF-FM Society.

Technical Sessions

Technical sessions include presentations on Introduction to Software Defined Radio, Solar-Powered HF, AMSAT, ARISS (Amateur Radio on the International Space Station), QRP Forum, Roadrunners Microwave Group, and more. There's also a session for FCC Exam Preparation as well as License Exams. For new hams and interested individuals, there's a New Ham Orientation.

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 6:00pm on Friday evening and go until 9:00pm. It will start up again on Saturday at 8:00am with swapping until 3:00pm and dealers & sessions until 4:30pm. The Texas VHF-FM Society meeting will run from 1:00pm to approximately 3:00pm, so mark your schedule.

Prizes

In addition to the interesting technical sessions and lots of equipment available in the swapfest, there are some great prizes to be won. With your registration, you get one ticket good for Saturday's door prizes and Major Prizes! And you can buy more tickets at \$1.00 each. 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 the website for prize rules.

Grand Prize is a Yaesu FT-891 (HF+50MHz all-mode). **Featured Prize** is a Yaesu FTM-7250DR (2m/70cm C4FM/FM 50w mobile). A special **Bonus Prize** is a Yaesu FT-70DR (2m/440MHz 5w C4FM/FM digital HT).

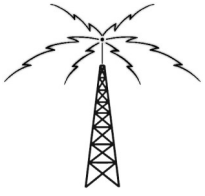
Talk-In

Talk-in on **146.94MHz**, — offset, **107.2Hz** tone.

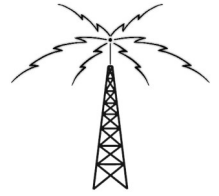
Please follow the directions of the Talk-in Net Control operator.

More Information

Check out <http://www.austinsummerfest.org/> for parking info and the latest news and information!



Over the WWaves...



Power... I Need More Power! / DE Michael (K5MSK)

Well... Lookie here. Someone actually sells a power station with Anderson Power Poles (APP) built-in (for both charging and output). It's quite expensive and I'm sure some enterprising hams could homebrew something equivalent for a lot less. But, nonetheless, these are pretty cool and give me all sorts of ideas. The lithium batteries on this particular model are rated at 10.8V, 96.8Ah and the APP 12VDC output is disappointingly only 10A max. However, additional runtime is possibly by chaining more batteries. There are several different power station models and some less fancy power banks. For someone who doesn't want to homebrew, this is one option, but you're going to pay big for it.

<https://www.goalzero.com/shop/power-stations/goal-zero-yeti-1000-lithium-portable-power-station/>

[Disclaimer: I have no fiduciary interest in this company. I just happened to find this product while looking at solar panels. -Ed]

Getting Started / DE Rick (K5FNI)

This piece lays out how Newton's ideas are tied to overcoming procrastination in project completion. I liked it. I felt exactly what he talks about in yesterday's shelf addition to my ham radio console.

<https://jamesclear.com/physics-productivity>

Speaking of Power... / DE Rick (K5FNI)

My Chinese voltage reference box (2.500, 5.000, 7.500, 10.000 VDC) just arrived from Amazon, only 2 days after I ordered it. It is now charging on the micro-USB charge port. I just turned it on, checked my HF DMM (off a bit), and I'm well pleased with the box. I do not have a newly-calibrated, 6-digit DMM to check the accuracy, but I read comments from others who were well satisfied with the hand-entered voltage numbers on the label.

The AD-584KH chip has an odd (to me) date code of 0063sub**3**, where the last **3** is much smaller and a little lower than the other numbers.

[Here's one link: <https://www.amazon.com/Precision-Voltage-Ref-AD584kH-4-Channel/dp/B00Z033Y6Y/> —Ed.]



IN THE NEWS...



Amateur Radio Parity Act... *Out Again!*

Well... It has been pulled from the National Defense Authorization Act (NDAA). [ARRL says](#) it's unfortunate, but doesn't kill the initiative. ARRL ad hoc Legislative Advocacy Committee Chair Mike Lisenco states that the Financial Services & Government Appropriations bill, which funds the FCC, contains the Parity Act language. The NDAA did pass in the House-version, but not the Senate. So it seems that there's at least some support for it. I don't know where it will end up, and I'm not sure what the FCC will actually do if/when it passes. Only time will tell.



REMINDER

The Austin Amateur Radio Club offers annual scholarships to licensees living in Travis, Williamson, Bastrop, Hays, Blanco, Caldwell and Burnet counties.

Please see <http://austinhams.org/scholarships> for more information.



AARC Field Day 2018 - More Photos!

Here are some more photos of the great time we all had.



A great panoramic view of the American Red Cross campus.



The Travis County ARES EmComm trailer has its mast extended with several antennas deployed.

Here's a well-marked antenna.



Hard to see in the pic, but bright ribbons mark the antenna wires and guy ropes of this inverted Vee.

Still not enough antennas! Hard hats were the fashion statement and safety requirement for this work!

AARC Field Day 2018 - More Photos! (continued)



Definitely a team effort.



Getting a couple of chin-ups while the bar is low. :-)



About to flip the switch at the start of the event.



Blue Light Special. No. It's not K-Mart!
It's Field Day 2018 - **On The Air!**



K5GM (Pete) is hard at work on CW.



More teamwork... Making contacts.



Just For Fun...

What's In A Word?

Can you find all the words listed below in this puzzle? Can you also find them in the text of the newsletter? The words are taken from articles, news, events, or *anywhere* in this newsletter.

H O K M M C P R G R H R S D N
 U O S R X N A R E S E X C R O
 V E B Q O Y O I I P P O I O I
 S L D B Z W F I E Z O O S N T
 W T T T Y I M A S G E Y Y E N
 J V Q D L T T A W S I S H F E
 L K J P D E O F E N I A P W V
 I E M N R K A W R T N M L T N
 C A Y I Q P C J N N X M M Y O
 E B G R O T A R E P O L H O C
 N M C W V O L T A G E C F O C
 S O E U X Z N S H Y N H Z P R
 E R Z V O A M O H A W M Q T T
 E X K P Y N H D X Z A T X P R
 T L X F B A T T E R I E S S V

AMPLIFIER	DRONE	POWER
ANTENNA	HOBBYTOWN	PRIZES
BATTERIES	LICENSEE	REPEATER
COMMISSION	OPERATOR	TEAMWORK
CONVENTION	PHYSICS	VOLTAGE

Solution to Last Month's Puzzle

U K V S Y T P E E F Y E R K C
 N G N L V T S A I O C K A S P
 I Y O N J N I E R N F D T X C
 V L M B E S L R E I L L S A T
 E U X F M D U D U P T O L T C
 R M E Z D P N M M C A Y L O P
 S D H A Z E B E M U E E A G Q
 I E Y X P R V V A E I S N D H
 T W H E S C H O L A R S H I P
 Y Y D C H W D W I Z Z F E K H
 G N X U N I L T E I B X E F U
 I L V H A P D N N H A U I S Q
 M A R C O N I F V M Y F L I T
 R E T A E P E R S G U T T C B
 G W D S B B T R C S U S X X S

Action on the Airwaves

Looking to beat the heat? Turn the AC on in the shack and turn on your transceiver. Here are a couple of special events happening this month.

[145th Anniversary of the Cable Car in San Francisco](#)

Aug 1-Aug 8 @ 0000Z—2359Z

Call Sign is N6C to commemorate this history San Francisco landmark anniversary.

[US Coast Guard 228th Birthday](#)

Aug 3-Aug 4, 1400Z-0400Z

Call Sign: K1CG

See website for QSL, information.

<http://www.grz.com/db/k1cg>

This Month In History*

1894-08-14 — Sir Oliver Joseph Lodge demonstrates wireless telegraphy (radio) using Morse code at a meeting of the British Association for the Advancement of Science at Oxford University

1932-08-14 — Philips makes 1 millionth radio

1958-08-21 — KUT-FM in Austin Texas begins radio transmissions

1968-08-21 — After 5 years Soviet Union once again jams Voice of America radio

Famous birthday:

1875-08-23 — William Eccles, English physicist and radio pioneer, assistant to Marconi, invented the term diode (d. 1966)

*Unverified. [Sorry... I wasn't around for all of the events. -Ed] 😊

Minutes of the Regular Membership Meeting of July 10, 2018

The Austin Amateur Radio Club (AARC)

Meeting held at the Applied Research Laboratories
10000 Research Blvd., Austin TX

The Meeting was called to order at 7:02 p.m., and chaired by club President, Ruben Fuentes (WB5WTF)

The other club officers present were: VP Lew Thompson (W5IFQ); and Treasurer Mark Jenkins (W5MPJ).

There were 46 members in attendance.

Michael Marks (KG5RXG) spoke on behalf of Kerby Spruiell (KG5DLD) and reported on the emergency trailer performance during its deployment at Field Day. He said the generator lasted the entire operation with requiring only one refuel. They were able to send WinLink messages and monitor the 146.94 repeater for talk-in. TCARES was very satisfied with the trailer's overall performance.

Ruben (WB5WTF) apologized for buying too much food for Field Day with the club's money. He was able to get the left over food just in time to Caritas of Austin downtown and it was used to feed the homeless.

Jeff (N5MNW) made a motion that Paul Kinney (KD5VRU) be Ham of the Month for his Broad-Band HamNet wireless Field Day logging network and software/IT support. Reed seconded the motion and it carried.

Educational:

Cyber Security was presented by Michael Skurka (K5MSK)

Solar Weather Update: was presented by Lew T (W5IFQ).



This space available for tidbits. Got some? Send 'em to editor @austinhams.org

AARC Meeting Info

Tuesday, August 7, 2018 / 7:00pm to 9:00pm

Location: Applied Research Labs
[10000 Burnet Road, Austin TX 78758](http://www.aarc.org)

Meeting Topic:

Field Day 2018 by Jeff, N5MNV & Stuart K5KVH
and *Solar WX Summary* by Lew, W5IFQ

Officers normally meet from 6:00 to 7:00p.m. prior to regular club meetings and is open to all.
Contact an officer for more information.

Upcoming Amateur Exams

ARRL VEC

Aug. 4th @ 12:30p.m. at Austin Summerfest

(more details on page 2)

Sep. 8th @ 9 am at Bethany United Methodist Church.

Room 203/204. \$15 fee. For more info, contact:
Joe Makeever, W5HS (512-345-0800)

W5YI VEC - Aug. 18th & Sep. 15th

2 p.m. in **Room 118**, Fleck Hall,
St. Edwards University. \$14 fee.

Contact Craig
AC5KW @ ARRL.net
for more info. \$14 fee.

2018 - Calendar of Events

Aug 3-4 - Austin Summerfest

Austin Crowne Plaza Hotel. 6121 North IH-35, Austin TX
Sponsor: Austin ARC & Texas VHF-FM Society
Talk-in: 146.94 MHz repeater, — offset, PL tone 107.2Hz
Contact: Joe W5HS, 512-345-0800 / w5hs@arrl.net
<http://www.AustinSummerfest.org/>

Aug 18-19 - Huntsville Hamfest

Von Braun Civic Center, 700 Monroe Street, Huntsville AL
Talk-in: will be on the 146.94 repeater (100Hz tone)
Backup: 145.33(-), 100 Hz tone.
<http://www.hamfest.org/index.php>

Highland Lakes ARC Exam Session

Marble Falls EMS Building, 609 Industrial Ave.,
Marble Falls TX 78654. From 10:00am to 4:00pm.
\$15.00 exam fee to cover expenses. If upgrading, please bring your current Amateur Radio License. Walk-ins welcome!
HLARC anticipates testing about every 60 days. Future dates TBD. Please see <http://hlarc.org/> for details.
Michael KC0TA mrobinson1953@gmail.com
Rick NG5V, ng5v@arrl.net

Sep 21-22 - W4DXCC DX and Contest Convention

Mainstay Hotel and Conference Center, Pigeon Forge, IN
<http://www.w4dxcc.com/>
Dave K4SV, email: Dave @ w4dxcc.com

Oct 5-6 - HamEXPO! Fall

Bell County Expo Center, Belton TX
Admission fee \$5.00 per person, includes one free raffle ticket (\$2.00 value). Children under 12 free.
<http://www.tarc.org/hamexpo>

Oct 26-27 - Texoma Hamarama

Ardmore Convention Center, 2401 N Rockford Rd, Ardmore OK
<http://www.texomahamarama.org/>

More info & events listed in the [SWAPNET Newsletter!](http://www.swapnet.org/)
Visit <http://austinhams.org/swapnet>

Upcoming Meetings...

Aug	Sep	Austin Meetings/Happenings	Time	Address
7	4	AARC Meeting @ Applied Research Lab	7:00 p.m.	10000 Burnet Rd
28	25	Travis County A.R.E.S. @ Applied Rsrch Lab	7:00 p.m.	10000 Burnet Rd
23	27	CERT Meeting @ TBD (see Link / Contact)	7:00 p.m.	TBD
27	24	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

Visit our website at <http://austinhams.org/>