



# AARC OVER

**Keeping Austin Wireless  
for Over 96 Years!**

Bulletin of Austin Amateur Radio Clubs

ISSN 1067-0262

**August 2017**

**Issue 08-2017**

**It's Summer. You're in Austin? Yes! It's time for...**

**AUSTIN SUMMERFEST 2017**  
**OUR 34TH YEAR!**

**Friday, August 4th and Saturday, August 5th  
at the Crowne Plaza Hotel in Austin, Texas!**

Every year, right about this time, the Austin Amateur Radio Club and the Texas VHF/FM Society sponsor the Austin Summerfest. What *is* the Austin Summerfest? Well... It's the best place to be this weekend to come and enjoy old friends, make new friends, browse/barter/buy at the swapfest, and attend some really interesting technical sessions! Also hosted at the event are the ARRL South Texas Section Convention and the Summer Meeting of the Texas VHF-FM Society.

(continued on page 5)

### 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)        |
| <i>Sun</i> | <i>(After Swapnet)</i> | <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 1st** at Bethany United Methodist Church:

## Technician Class Licenses Processed

Zachary M. McLaughlin KG5UCB      Sara B. Teel KG5UCA      Jacqueline A. Zeppa KG5UCC

## General Class Licenses Processed

Cory W. Davis KE5NCI      Gregory N. Rogers KG5UBZ      Oliver M. Theophilus KG5UBY

## Extra Class Licenses Processed

Ralph D. McElroy AG5LI

## Examiners Participating in this Test Session

Milt Cram W8NUE      Larry Gunter WB5BEK      Gene Hinkle K5PA  
Rick Herndon K5FNI      Joe Makeever W5HS

## Next Two ARRL VE Test Sessions

August 5th @ 12:30p.m. - Crowne Plaza Austin Hotel 6121 North IH-35 at 12:30 PM in the Austin Room  
(AUSTIN SUMMERFEST ARRL Convention site)

September 2nd @ 9:00a.m. - Bethany United Methodist Church, Disciple Bldg. Room 203/204

TNX ES 73 DE W5HS  
Joe

---

7-16-2017

The South Austin W5YI VE team heartily congratulates the following people who earned new or upgraded amateur radio licenses at our **July 15th** session:

## Amateur Extra Class

Michael Krzywonski (NEW)

## General Class

W. L. Stribling, KG5TRR      Michael Marks, KG5RXG      Giles Andrews (NEW)

## Technician Class (NEW)

Tara Krzywonski      Edward Triolo      Dylan Fischer  
Bruce Schoenbucher      Matthew Kelly      Chris Way  
Nyah Way      Dennis Hurtado      Michael Hill  
William Lemke      Keith Carlton

## Our administering volunteer examiners were:

Craig Bean, AC5KW      Bill Duke, AF5JD      Gary Popp, AE5JR      David Glosson, N5DPG

Our next two amateur radio exam sessions will start at **2 PM** on **August 19th** and **September 16th** 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 **AC5KW@ARRL.net**

### **2017 Officers**

|                              |                 |        |                                |
|------------------------------|-----------------|--------|--------------------------------|
| President                    | James Hollan    | KG5SGR | president@austinhams.org       |
| Vice President               | Lew Thompson    | W5IFQ  | vice-president@austinhams.org  |
| Treasurer                    | Jay Hoffman     | KA5OST | treasurer@austinhams.org       |
| Secretary                    | Angie Steelman  | KF5ZXI | secretary@austinhams.org       |
| Editor, AARCOVER, website    | Michael Skurka  | K5MSK  | editor@austinhams.org          |
| Technical (Repeater Contact) | Stuart Rohre    | K5KVH  | 512-255-3932<br>k5kvh@arrl.net |
| ARRL Travis Co. Emer. Coord. | Kerby Spruiell  | KG5DLD | ec@austinhams.org              |
| TC ARES PIO                  | Steven Polunsky | W5SMP  | tcares-pio@gmail.net           |

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:

| <b>FREQUENCY</b>      | <b>USE</b>                                       |
|-----------------------|--|
| 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.

**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 the 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. 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 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**  
**See: Jay Hoffman, KA5OST / ka5ost@arrl.net**  
**Jay handles all changes for membership information.**

# Call To Action!

Attention Texas Ham Radio Operators:

The Salvation Army is looking for amateur radio operators to participate in Texas SATERN (Salvation Army Team Emergency Radio Network). The Texas SATERN team has an emergency communication unit equipped with VHF, UHF, HT radios, as well as satellite internet and satellite telephones. You might have seen this vehicle on display at one of the Texas hamfests in the past two years.



Additional ham radio operators are needed to complete a disaster response communication team in the state of Texas. If you are interested in learning more about the Texas Salvation Army Disaster Response Communication Team, contact one of the current members listed below through QRZ.COM or ARRL.NET. Or **visit with one of us at Austin Summerfest** on Saturday, August 5, where we will have a SATERN informational table.

Cindy Wells - K5CSW (at) arrl.net

Frank Wells - K5PHB (at) arrl.net

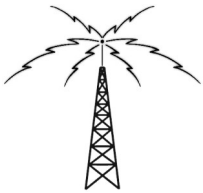
Greg Miller - WB5GM (at) arrl.net

Kathy Miller - KG5GK

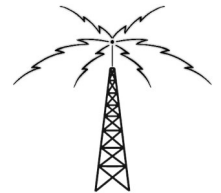
*Note:*

*Replace (at) with @ in email addresses.*





# Over the WWaves...



DE K5FNI (Rick):

## Klunky Schematic Creation

I was just pointed to this extremely simple way of creating simple schematics.

<http://www.qsl.net/wd9eyb/klunky/framed.html>

Using this, almost anyone with a browser can create a schematic.

## Wireless RF Relay: multiple antennas to one transmitter or multiple transmitters to one antenna

May be of interest. Be sure and read the reviews, if you are interested in purchasing it, as there is more information about its operation in the reviews. This is obviously a very small business.

<https://www.tindie.com/products/hbouzas/wifi-wireless-ham-radio-coax-antenna-switch/>

### 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.

# Just For Fun



Got rid of the old postcards and got you posters!

Reprinted with permission.  
Thank you, Joe Canfield (N5HPC)

## Word Search — Summerfest

Can you find all the words and terms related to Summerfest? Words may be forward, reverse, up, down, or diagonal. Words were taken from this month's article.

```

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

```

- |           |             |            |
|-----------|-------------|------------|
| AMPLIFIER | FORUMS      | SUMMERFEST |
| AMSAT     | MICROWAVE   | SWAPFEST   |
| ARRL      | ORIENTATION | VINTAGE    |
| CONTEST   | PILEUP      | WEATHER    |
| CTDXCC    | SOLARWX     |            |

As always, there are several **Technical Sessions** to choose from (in no particular order):

- Ready to dive into the exciting world of amateur radio, or upgrade your existing license?! **License Exams** are offered on Saturday at 12:30pm in the Austin Room. Only \$15 with two forms of ID. See the web site (<http://austinsummerfest.org/>) for details (Technical Sessions → License Exams).
- **New Ham Orientation** - If you're newly licensed (or just curious) you'll want to attend this session by N5MNV (Jeff)!
- W5IFQ (Lew) will be presenting an **Introduction to Solar Weather**. His monthly summaries are always informative and helpful. Just imagine what knowledge you can gain in a full session!
- Join K5KTF (Jim) for the **Broadband-Hamnet™** session and see what it's all about. Using off-the-shelf wireless routers, learn how you can replace the firmware and operate ham radio networking in the microwaves!
- K5SDR (Gerald) will give us a talk on **Software Defined Radio** (SDR). Hmm... There's something about his call sign. The talk will include an update on the latest new product and software from FlexRadio.
- If you're an aficionado of older equipment, don't miss the **Vintage Radio** session by W5ZG (John). He will present a photo tour of historic aircraft from museums and shows around the world, with an emphasis on the radio gear used in these historic planes, as well as pieces from private collections.
- Curious about Mother Nature and what's going on in the atmosphere? Join meteorologist KE5BCK (Troy Kimmel), along with other leading Austin meteorologists, for the latest in forecasting technology and recent **Weather** events in the central Texas area.
- Convinced you *don't* need 1.21-gigawatts of power to communicate? If so, then the **QRP Forum** by W8NUE (Milt), W5BAA (Charley), and WK5S (Steve) should catch your interest! Come to this session for a new approach to understanding Loop Antennas and a better way to learn CW.
- Join W5RKN (Ron) for an **Introduction to AMSAT** -and- **A Software Defined Radio Satellite Station: The Evolution of its Design**. A *live demonstration* of making contacts via amateur satellite (SO-50) will be conducted on Saturday afternoon!
- Join the gents from the **Roadrunners Microwave Group** for a session on the latest topics on the "high end." KE0FF (Joe) will present an introduction. W5IFS (Ray) and K5TR (George) will present on microwave and VHF/UHF transverters. And KE0FF (Joe) will come back to talk about test equipment based on the Orion synthesizer board.
- Are you competitive? Then you really should check out the **Central Texas DX and Contest Club** session. CTDXCC members, led by N3BB (Jim), will offer advice and answer questions for both experienced and newcomers interested in Contesting (Radio-Sporting) and DXing.
- As if that wasn't enough, join them (again) for the **CW Pileup Competition** on two separate sessions - one each on Friday and Saturday! Door prizes will be awarded during the program and you **do not** have to be present to win! Visit <http://www.ctdxcc.org/summerfest/2017/> for details.
- **ARES** provides community service through amateur radio. K5DLQ (Darryl), of the Amateur Radio Emergency Data Network (AREDN), will be speaking on how to build an effective AuxComm/EmComm, high-speed data network based on Ubiquity airMAX and TP-Link products and the AREDN Project's firmware. Darryl will describe the use of AREDN in Montgomery County with a potential of supporting ICS relationships with EOCs, ARES, RACES and Red Cross.
- W5ZG (John) will cover kilowatt-level amplifiers, featuring classic amps by Collins, Henry Radio, and others. Both HF & VHF amps will be discussed, along with various tubes used.
- Join KG5DWX (Rodney, also AAA6RD) who will emcee the **Army MARS** forum. He and W5KAM (Ken) will be presenting and answering questions about Army MARS.
- Guest speaker for the **ARRL** Forum will be K1FUG (Ken), assistant EMCOMM Manager for the ARRL.

Broadband-Hamnet™  
HSMM-MESH™



# AUSTIN SUMMERFEST 2017

**OUR 34TH YEAR!**

Advanced registration is closed, but it's not too late! You can **register at the door!** Only \$10 admission per person for the entire Summerfest weekend. What a bargain! You'll have access to the Technical Sessions (limited to room capacity) and the indoor swapfest held in carpeted, air-conditioned comfort on Friday evening and Saturday. A Tailgate swapfest will also be held on the east side of the Crowne Plaza Hotel. You need *not* be registered at the Convention to sell at the tailgate, but of course, you'll want to attend the indoor swapfest and sessions, so it would be a good idea to register. And don't forget the door prizes!

## Talk-In on 146.94

Austin Summerfest will use the Austin Amateur Radio Club's 146.94Mhz (PL=107.2 Hz) repeater for Talk-in. Please follow the directions of the Talk-in Net Control operator.

## Driving Directions

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

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

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

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

Summerfest will be held in the hotel's convention center in the southeast side.

For more information, please visit <http://austinsummerfest.org/>

## FEATURED EVENT



# Six Meter BBQ

Six Meter BBQ  
Sept 29-30, 2017  
Austin, Texas USA

The Six Meter BBQ 2017 will be held on Friday afternoon, September 29th and Saturday, September 30th from 9:00am to 5:00pm, at the Lonestar Court in Austin, TX.

### This year's event features

- Friday afternoon and evening meet & greet in the Lonestar Court Pavilion, vendors will be available to talk with.
- Presentations on Saturday beginning at 9:00 am -5:00 pm with an hour break for lunch at noon.
- Buffet Lunch and Buffet Dinner
- ARRL Card Checker, Richard Bentson, K6KLY will be on hand to check DXCC, WAS, and VUCC

### Presentations

- The Evolution of JT65 and its Impact on 6 meters – Jon Jones, N0JK, Editor of ARRL QST VHF Column
- High Performance 6 meter DXing, Contesting, and Even Mountain Topping – David Shoaf, KG6IRW, Manager of World Wide Distribution for Elecraft
- Noise Figures, Gain and Loss: Understanding how to get the Most out of Your 6 meter Station – Steve Hicks, N5AC, VP Engineering for FlexRadio Systems
- ... MORE TO BE ANNOUNCED!

### Vendors

- DX Engineering
- FlexRadio Systems
- Elecraft
- ... MORE TO BE ANNOUNCED!

### Registration Information

Two Registration Options:

- \$98.00 includes all presentations, and a buffet lunch and buffet dinner

-OR-

- \$65.00 for buffet dinner only
- Registration will cut-off one week prior to the BBQ
- Sorry, No sign ups at the door!
- Sorry, no refunds – no cancellations.
- No planned excursion for spouses as there is plenty to see and do at The Domain, a large mall next door to the Lone Star Court.

Visit <https://www.sixmeterbbq.com/> for more information and to **Register!**

# Meeting Minutes — AARC General Meeting, 11 July 2017

**Start time:** 7:05 pm

**Attendance:** ?

We had one visitor this month. Angela Durbin, KG5TUM. Welcome and Congratulations!

We had one changed call sign this month: Tom Parish, KB5RF. Congratulations!

The Secretary was absent so no Minutes for June were read.

## Announcements:

- ◆ Joe Makeever, W5HS, Summerfest 2017 chairman, spoke about the convention, coming up August 4-5. This year, registration will be online on the Summerfest home page, although one may print a “.pdf” file of the form and send it in by mail. This change has saved about \$750 in mailing costs. The convention program will be about the same as previous years.
- ◆ Jeff Schmidt, N5MNW, also spoke to the Summerfest 2017 program and other activities.
- ◆ See the swapnet newsletter for upcoming events.

## Officer reports

- ◆ Treasurer: Jay Hoffman, KA5OST - Absent, no report.
- ◆ Secretary: Angie Steelman, KF5ZXI - Absent.
- ◆ Vice-President: Lew Thompson, W5IFQ - I am always looking for presenters or topics. Email me, please, if you have ideas.
- ◆ President: James Hollan, KG5SGR - ?
- ◆ Newsletter: Michael Skurka, K5MSK - not present.
- ◆ ARES: Kerby Spruiell, KG5DLD: There will be an ICS-300 class coming up July 24-26; see the July AARCOVER for details.
- ◆ Technical Committee: Roy Walker, WA5YZD, mentioned that the 146.94 problems have apparently been fixed and that the new 1.2 GHz system is working great. The Technical committee has also approved the Club's purchase of two new repeaters to replace older equipment.

Space weather was presented by Lew Thompson, W5IFQ.

End of business meeting: 8:05 pm.

Tonight's presentation was by Jim George, N3BB, about the 2014 World Radiosport Team Championships held near Boston and the recently published book, Contact Sport, that he authored, describing the activity.

Respectfully Submitted,  
Joe Fisher, K5EJL

~~~ End of Minutes ~~~



## 2017 Calendar of Events

### AARC Meeting Info

7:00pm to 9:00pm / Tuesday, August 1, 2017

Location: Applied Research Lab

[10000 Burnet Road, Austin TX](#)

#### **Topic:**

Introduction to Solar WX: W5IFQ (Lew)

#### **Officers Meeting**

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

### **Upcoming Amateur Exams: 2017**

#### **ARRL VEC - August 5th**

12:30pm at 6121 North IH35,  
Crowne Plaza Hotel, Austin Room  
(Austin Summerfest ARRL Convention site).

#### **September 2nd**

9 a.m. at Bethany United Methodist Church.  
Room 203/204. \$15 fee. For more info, contact:  
Joe Makeever, W5HS (512-345-0800)

#### **W5YI VEC - August 19th & September 16th**

2 p.m. in **Room 207**, Fleck Hall,  
St. Edwards University. \$14 fee.

Contact Don Dudley  
AC5YK @ ARRL.net  
for more info. \$14 fee.

#### **August 4-5 - Austin Summerfest**

Austin ARC & Texas VHF-FM Society  
Crowne Plaza Hotel 6121 North IH-35 Austin, TX 73301  
<http://www.austinsummerfest.org/> Joe, W5HS @ arrl.net

#### **Aug 19-20 Huntsville Hamfest**

Von Braun Civic Center, 700 Monroe Street  
Huntsville, AL 35801  
<http://www.hamfest.org/>

#### **Sept 29-30 Six Meter BBQ (6m VHF Enthusiast Convention)**

Co-Hosted by DX Engineering and FlexRadio Systems  
Lonestar Court in Austin, TX.

Near the Domain, off Mopac/Loop 1

Friday afternoon-evening for a meet n greet

Main events Saturday from 9:00am to 5:00pm

You -must- preregister for admission

The 6M BBQ website: <http://www.sixmeterbbq.com/>

#### **Oct 6-7 Belton Ham Expo**

Bell County Expo Center  
Temple Amateur Radio Club  
<http://tarc.org/hamexpo/>

#### **Oct 27-28 Texoma Hamarama & Family FunFest**

Ardmore Convention Center, 2401 North Rockford Drive,  
Ardmore, OK; Sponsor: Texoma Hamarama, Inc.

<http://texomahamarama.org/>

#### **Feb 3, 2018 Basic & Advanced SkyWarn Training**

27th Annual Lou Withrow Austin and South Central SkyWarn  
Training. 9:00am-4:00pm Saturday.

DE Troy Kimmel KE5BCK

Location: Austin Community College, Eastview Campus, Austin

**More events listed in the SWAPNET Newsletter!**  
Visit <http://austinhams.org/swapnet>

## Upcoming Meetings...

| Aug. | Sep. | Austin Meetings/Happenings                                               | Time      | Address             |
|------|------|--------------------------------------------------------------------------|-----------|---------------------|
| 1    | 5    | AARC Meeting @ Applied Research Lab                                      | 7:00 p.m. | 10000 Burnet Rd     |
| 22   | 26   | Travis County A.R.E.S. @ Applied Rsrch Lab                               | 7:00 p.m. | 10000 Burnet Rd     |
| 24   | 28   | CERT Meeting @ TBD (see <a href="#">Link</a> / <a href="#">Contact</a> ) | 7:00 p.m. | TBD                 |
| 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*

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