



# AARC OVER

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

Bulletin of Austin Amateur Radio Club

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Issue 10-2018

## IS THE BAOFENG UV-5R CERTIFIED? WHAT'S CLM?

by Joe Fisher, K5EJL

ARRL Technical Specialist and CLM

In my August 2018 *AARCOVER* article, I wondered about the FCC certification of the popular Baofeng UV-5R which will transmit on the frequencies of several U.S. radio services, not just the Amateur Service. More research was going to be needed, I thought. Not so; we have the answer, or answers: “yes” and “no”. See the recent news item from arrl.org.

The commission has come down pretty hard, I think, on the cheap import electronics we’ve seen that don’t comply with the “regs”. And rightly so. The rules are reasonably clear, and there are many labs, for hire, to do the certification testing. There’s no reason for me to suspect that the manufacturers and importers can’t afford the process of certification.



(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 September 8th, 2018 at Bethany United Methodist Church:

## Technician Class Licenses Processed

Martha L. Coffman KI5BPJ	Thomas R. Cowden KI5BPI	Ting Lu KI5BPF
Bogdan A. Oancea KI5BPG	Larry E. Rowe KI5BPH	

## General Class Licenses Processed

Anthony R. Galletto KD5PKM	Eric R. Hammond KI5BPL	Gilbert C. Kloepfer, Jr. KI5BPK
Charles H. Mims III KG5CWP	Steve C. Soulen K5SSC	

## Extra Class Licenses Processed

Larry D. Martin KI5BEP	Donald B. Udel KI5AIU
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## Examiners Participating in this Test Session

Gene Hinkle K5PA	Chris Howell KC5DVR	Ted Iglehart KF5END
Jim Kinter K5KTF	Joe Makeever W5HS	Henry Palmetter W3JMY

## Next ARRL VE Test Sessions

October 13th - Bethany United Methodist Church, Disciple Building, Room 203/204  
November 3rd - Bethany United Methodist Church, Disciple Building, Room 203/204

TNX ES 73 DE W5HS  
Joe

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9-16-18

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

## Extra Class

Jerry Parsons, KD5QCL

## General Class

Thomas Cowden, KI5BPI	Jon Kemppainen, KI5ANL
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## Technician Class (NEW)

Daniel McCormick	Mattie Zettner
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## Our administering volunteer examiners were:

Craig Bean, AC5KW	Gary Popp, AE5JR
David Dyer, AG5OS	Jim Matthews, KG5QFD

Our next two amateur radio exam sessions will start at 2 PM on **October 20th** and **November 17th** 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**



### **2018 Officers**

President	Ruben Fuentes	WB5WTF	president@austinhams.org
Vice President	Lew Thompson	W51FQ	vice-president@austinhams.org
Treasurer ( <i>Interim</i> )	Mark Jenkins	W5MPJ	treasurer@austinhams.org
Secretary	Carston Buehler	KG5PAL	secretary@austinhams.org
Editor, AARCOVER, website	Michael Skurka	K5MSK	editor@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:

<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.

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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 usually 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.**





# AUSTIN SUMMERFEST 2018

Looking back... Here are few photos from **Austin Summerfest 2018**.  
Credit and thanks to W5MPJ, Mark Jenkins!



Registration is the first step.



A little of everything for everyone.



Volunteers helping at registration.



CQ CQ CQ... It this thing turned on?

# AUSTIN SUMMERFEST 2018

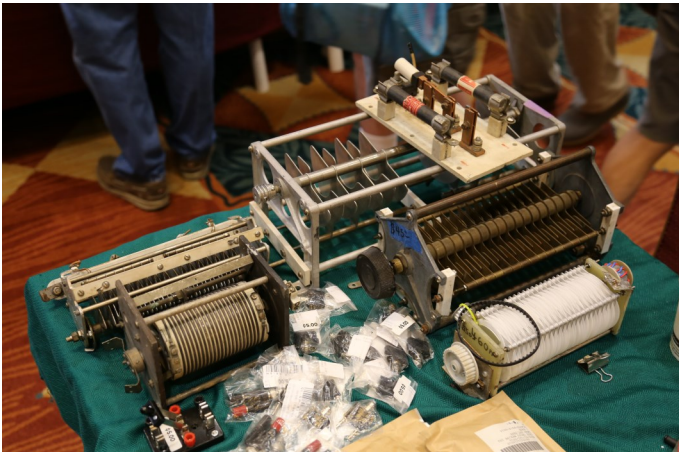
Austin Summerfest 2018 might have occurred in August, but the memories live on. Here are more photos from **Austin Summerfest 2018**. Credit and thanks to W5MPJ, Mark Jenkins!



Equipment...



More Equipment...



Guess what! Even More Equipment!



People arrived by all means possible.



It's not all about equipment, though.



Old friends... New friends.

# President's Corner

October 2018

DE WB5WTF, Ruben Fuentes

Greetings club members. I can't believe we're about to head toward the end of the calendar year. I hope you've been enjoying the club to the degree that I have. The membership meetings & educational segments have been exceptional but I must give kudos to the TCARES group for all the work that has gone into the emergency communications trailer that we acquired earlier in the year. I was so pleased to finally get the second trailer sold off and the funds back into the treasury.

It won't be long before December is upon us and I hope all of you are planning to attend the club's annual Christmas party which is held in lieu of the monthly meeting, but still on the first Tuesday of the month, (Dec. 3rd). It will be at the Buffet King Restaurant in the Capitol Plaza Shopping Center (5451 N I35, Austin). Jeff & Lori are planning a night of fun for all of us.

Please be thinking about election of club officers for 2019. If you are interested in one of the four positions please speak up and let it be known, and get nominated during the November meeting.

*(Nominations normally begin at the October meeting and are finalized with voting in November. New officers for 2019 will take office in January. –Editor)*



Thanks and 73, Ruben (WB5WTF)



## **This Space Reserved...**

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

Send your articles or tidbits to: [editor@austinhams.org](mailto:editor@austinhams.org)



# Over the WWaves...



## **Radio & Football - Football Broadcast History / DE W5GVE (Bill) VIA K5FNI (Rick)**

It's football season again. These days, high-def TVs can make you seem like you're there at the game. But back in the early 20th century, you didn't have that option. Thankfully, in the early 1920s, that changed for the better with the first broadcasted game.

<http://www.brazoscountyhistory.org/sites/default/files/EarlyFootballBroadcast.pdf>

## **Radio Has a Secret Life...Magic, eh? / DE K5FNI (Rick)**

Here's a look at some of the history of radio transmissions. FYI: Almost 26-minutes in length.

<https://www.youtube.com/watch?v=2roG4jlvEk>

## **All Wound Up Over Coils? / DE K5MSK (Editor)**

Do you need to build some coils but, like me, need a little help with formulas? Here's a couple of sites with useful software or online calculators for inductors.

**Coil32 - Freeware coil inductance calculating app.** Has lots of features, types of coils (one layer, multi-layer, ferrite core, toroidal). Also has images demonstrating winding. <http://coil32.net/>

**Single Layer Coil - Online calculator.** Takes inputs of diameter, length, inductance needed and returns number of turns. Does not use wire size or spacing. Assume close spacing.

<http://www.g4ztd.info/coil-winding-calculator/>

**RF coil dimensions - includes formulas, tables** - NOT a calculator; just a lot of info.

Number of turns by calculation (see example 5)

<http://www.robkalmeijer.nl/techniek/electronica/radiotechniek/hambladen/radcom/1994/12/page54/index.html>

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## **Hints -n- Tips**

### **Top 10 Ham Radio Contesting Tips**

We might have another year or two of solar minimums, so every tip you can get may help you if you're into contesting. There are many things that can be done to prepare for a ham radio contest. Details for ten of the top hints and tips can be found at

[https://www.electronics-notes.com/articles/ham\\_radio/amateur-contests/contesting-hints-tips.php](https://www.electronics-notes.com/articles/ham_radio/amateur-contests/contesting-hints-tips.php)



### **Portable Small Antenna Support for Patios**

Are you constrained by small spaces and can't put up that big beam? Do you have a small antenna you'd like to try? Here's a portable support for a small antenna that even fits on apartment patios.

<http://www.hamuniverse.com/kl7jmat.html>

### **PVC Thimbles for Guy Lines**

Creativity comes in all forms. Whether you're trying to save a few greenbacks or just want to try something else, you enjoy making stuff yourself. Here's an article about making PVC thimbles to help protect your guy lines (PDF file).

[http://www.hamuniverse.com/HS0ZHM2014\\_rtcth-emcomm\\_tech\\_paper\\_making\\_pvc\\_thimbles.pdf](http://www.hamuniverse.com/HS0ZHM2014_rtcth-emcomm_tech_paper_making_pvc_thimbles.pdf)

# Just For Fun...

## Word Search

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

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

ARRL	COILS	LIFEMEMBER
BAOFENG	DIODE	MAGIC
BOYSCOUTS	EISENHOWER	NOMINATIONS
BROADCAST	FESTIVAL	PORTABLE
CHARTER	HALLOWEEN	VACUUM

## Solution to Last Month's Puzzle

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

## Action on the Airwaves

Looking for something to do now that the kids are back in school and between club meetings?

Check out some [activities on the air](#).

### [Alabama Butterbean Festival](#)

**Oct 5-Oct 6, 2200Z-2100Z**, KN4BBD, Pinson, AL.  
 Pinson Valley High School Amateur Radio Club. 18.160  
 14.260 7.2460 3.850; FT8: 3.573, 7.074, 14.074,  
 18.100, 21.074. QSL. PVHS Amateur Radio Club,  
 Pinson, AL 35126. The world's largest pot of baked  
 beans confirmed record by Guinness World Records

### [Eisenhower Special Event](#)

**Oct 8-Oct 16, 0000Z-2359Z**, W5I, Sherman, TX.  
 Grayson County Amateur Radio Club. 14.250 7.200  
 14.040 7.040. QSL. Grayson County ARC, PO Box 642,  
 Sherman, TX 75091. Celebrating the birthday of  
 President Eisenhower at his birth place in Denison, TX.  
[www.graysoncountyar.com](http://www.graysoncountyar.com)

### [W5Y East Texas Yamboree](#)

**Oct 18-Oct 20, 1400Z-2300Z**, W5Y, Gilmer, TX.  
 Longview East Texas Amateur Radio Club ARES. HF  
 7290 kHz; 147.34 Pos 136.5 tone. QSL. Jim Liberacki  
 N5TQI, 2539 FM 555, Gilmer, TX 75645.  
[N5TQI@aol.com](mailto:N5TQI@aol.com) or [www.LETARC.org](http://www.LETARC.org)

### [Halloween Howl](#)

**Oct 31, 1200Z-2359Z**, K4TLH, Tallahassee, FL.  
 Tallahassee Amateur Radio Society. 40 20 15 10 m.  
 QSL. TARS Halloween Howl, P.O. Box 37127,  
 Tallahassee, FL 32315. SASE please. [www.k4tlh.net](http://www.k4tlh.net)

## This Month In History

**1906-10-20** — Dr Lee DeForest demonstrated his electrical vacuum tube (radio tube)

**1906-10-25** — US inventor Lee de Forest patents "Audion", a 3-diode amplification valve which proved a pioneering development in radio & broadcasting

**1915-10-21** — 1st transatlantic radiotelephone message, Arlington, Va to Paris

**1922-10-28** — First US coast-to-coast radio broadcast of a football game



# Minutes of the Regular Membership Meeting of September 4, 2018

## The Austin Amateur Radio Club (AARC)

Meeting held at the Applied Research Lab  
10000 Burnet Road, Austin, TX.

The Meeting was called to order at 19:00 Hours, by club President, Ruben Fuentes (WB5WTF)

The other club officers present were: VP Lew Thompson (W5IFQ); Treasurer Mark Jenkins (W5MPJ), and Secretary Carston Buehler (KG5PAL).

There were 31 members in attendance.

### Ham of the Month

- ◆ Roy Walker (WA5YED) nominated John Roberts, Stuart Rohre (K5KVH) seconded it. The motion carried.

### Old Business

- ◆ Ruben Fuentes (WB5WTF) provided update on the Christmas Party on December 4, 2018. See Jeff Schmidt (N5NMW) for party support. Location: Buffet King at Capital Plaza, 5451 N. I-35.
- ◆ Mike S. (K5MSK) requested materials for publishing in the club's newsletter. Materials can be submitted to editor@ austinhams.org.
- ◆ Roger Wines ((W5WIA) Seeking students for new class. Orientation for meeting will be held Saturday morning 10am to 1pm. Seeking Elmers.
- ◆ Stuart R. (K5KVH) reported on the status of the finalist student recipients for scholarships granted by the AARC. Encouraged club to find High-School Seniors to apply.
- ◆ Mark Jenkins (W5MPJ) Provided update on trailer sale. Accepted high bid from Michael Butterfield (KF5JLK). Reminder to renew and/or pay for outstanding membership dues.

### New Business

- ◆ Ed Cox will be on channel 7 – 10pm News, ATX Floods.

### Supplemental

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

Kerby S. (KG5DLN) Provided update on Army Futures Command. New home will be Austin, TX.

Lew T (W5IFQ) Provided NVIS update.

Lew T (W5IFQ) made a motion to adjourn the meeting. Michael Butterfield (KF5JLK) seconded the motion and it carried.

The meeting was adjourned at 21:10 Hours.



## 2018 - Calendar of Events

### AARC Meeting Info

Tuesday, October 2, 2018 / 7:00pm to 9:00pm

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

**Meeting Topic:**  
**In-Depth Solar Weather Presentation**  
 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: 2018

**ARRL VEC - October 13th & November 3rd**  
 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 - October 20th & November 17th**  
 2 p.m. in **Room 118**, Fleck Hall,  
 St. Edwards University. \$14 fee.  
 Contact Craig  
 AC5KW @ ARRL.net  
 for more info. \$14 fee.

#### **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 6 - TCARES Fall Simulated Emergency Test (SET)**

Comms on 60 meters w/Region 6 MARS/DOD and Central & South Texas Red Cross partners

#### **Oct 6-7 - MS 150 - San Antonio-New Braunfels & back bike ride**

Starts at Rolling Oaks Mall in NE San Antonio, overnights at the Comal County fairgrounds in New Braunfels (Sat. night), does an out and back through the hill country on Sunday.  
 NEED 15 OPERATORS to drive SAG vans, operate as SAG co-pilots, 8 as break point operators, 4 as shadows for police, medical and tour officials, and 2 for net control. Need about 30-40 operators to fully staff both days. Contact Charlie, KC5NKK charlesland@gmail.com

#### **Oct 13 - Outlaw Trial 100**

It's that time again where we get to help with the Outlaw Trail bike event. Please advise if you want to help again this year and, if so, if you want to drive the same SAG route or a different one. Terry K5LGV

#### **Oct 19-21 - Scout Jamboree on the Air (JOTA)**

The BSA Capitol Area Council needs a few good hams to setup and operate. The location is Lost Pines Scout Ranch in Bastrop. JOTA is the largest scouting event of the year. Scouts from all over the world are participating simultaneously.  
 Contact Tex Mitchell tex.mitchell@gmail.com

#### **Oct 20 - South Texas Hamfest & Electronics Expo**

Sponsor: The South Texas Hamfest Association  
 "Texas' Fastest Growing Hamfest" / Location: San Patricio County Fairgrounds & Event Center. 219 W 5th St, Sinton TX (approx. 29 mi N of Corpus Christi). Contact Diana K5DNG, 361-947-5665, southtexashamfest@gmail.com

**More info & events listed in the [SWAPNET Newsletter!](#)**

## Upcoming Meetings...

Oct	Nov	Austin Meetings/Happenings	Time	Address
2	10	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
25	22	CERT Meeting @ TBD (see <a href="#">Link</a> / <a href="#">Contact</a> )	7:00 p.m.	TBD
28	26	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/>