

# AARC OVER

*Keeping  
Austin  
Wireless...  
Since 1919*



*Now  
in our  
101st  
Year!*

# AARC

Bulletin of the  
Austin Amateur Radio Club

ISSN 1067-0262

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# Amateur Radio News

Collected by Michael Skurka, K5MSK

Editor, AARCOVER + Website

## ARRL Audio News

Weekly news highlights from the world of amateur radio. Usually about ten (10) minutes in length.

Start listening now! Link to audio news: <http://www.blubrry.com/arrlaudionews/>

[Follow the link and choose which date for which you'd like to listen. -Editor]

## 01/03/2020 | New 60 MHz Beacon Now on the Air from Ireland

The first, and so far only, beacon on 60 MHz went on the air on December 16, 2019. Read the entire article at <http://www.arrl.org/news/new-60-mhz-beacon-now-on-the-air-from-ireland>

## 01/06/2020 | ARISS Next-Generation Radio System Ready for Launch

Amateur Radio on the International Space Station (ARISS) reports that its first Interoperable Radio System (IORS) flight unit – serial number 1001 – has been delivered to NASA's Johnson Space Center for launch in early March. Read the entire article at <http://www.arrl.org/news/ariss-next-generation-radio-system-ready-for-launch>

## 01/07/2020 | ARRL's New On the Air Magazine on its Way to Members!

The premiere issue of ARRL's On the Air magazine has left the printer's on its way to member subscribers. Read the entire article at <http://www.arrl.org/news/arrl-s-new-on-the-air-magazine-on-its-way-to-members>

[This new magazine is available to members when starting or renewing membership. -Editor]

## 01/21/2020 | ARRL Events App

The ARRL Events app is available to use with Apple iOS and Android devices. Read the entire article at <http://www.arrl.org/news/arrl-events-app-is-available-for-apple-ios-and-android-devices>

Links to Android and iPhone apps can be found in the article.

## 01/24/2020 | ARRL to Argue for Continued Access to 3-GHz Spectrum

At its January 2020 meeting, the ARRL Board of Directors instructed the League's FCC counsel to prepare a strong response to protect amateur access to spectrum in the 3 GHz range. Read the entire article at <http://www.arrl.org/news/arrl-to-argue-for-continued-access-to-3-ghz-spectrum-as-fcc-sets-comment-deadlines>

## 01/27/2020 | New Amateur Extra Question Pool Released

The new Amateur Extra-class license examination question pool, effective from July 1, 2020, through June 30, 2024, has been released. Read the entire article at <http://www.arrl.org/news/new-amateur-extra-question-pool-released>

[The new question pool brings significant changes. The number of questions has been reduced from 716 to 622. Of that, 239 questions were modified, 129 outdated questions were removed, and 49 questions in areas of new technology and subjects were added. If you're planning to upgrade your license and have been studying with the current question pool, keep in mind that beginning July 1st, 2020, the Amateur Extra exams will use this *new* set of questions. You may want to compare the two to see which may be better for your studies. -Editor]

# HAM RADIO TEST RESULTS

**AARC would like to congratulate the following individuals on their accomplishments!**

The following are the results of the ARRL VE test session held on January 4th, 2020 at Hope Presbyterian Church:

Technician Class Licenses Processed

Stephen M. Bassett KI5HTM	John D. Finley KI5HTJ
Gene O. Kulp KI5HTL	Reshard J. Turner KI5HTK

General Class Licenses Processed

Scotty Hardway KI5FBZ	Jason P. Hoekstra KI5HRI
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Extra Class Licenses Processed

David K. Lovelace KC7OYG	Timothy B. McCanlies KI5HHC
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*Examiners Participating in this Test Session*

Mark Esslinger K5MAE	Gene Hinkle K5PA	Ted Iglehart KF5END
Jim Kinter K5KTF	Joe Makeever W5HS	Jim Matthews KG5QFD

Please visit [http://www.austinsummerfest.org/VEC/ARRL\\_1st\\_Sat\\_Exams.html](http://www.austinsummerfest.org/VEC/ARRL_1st_Sat_Exams.html) for details and list of scheduled exams.

[Note: The ARRL VE sessions are moving in January. See the link for details. -Editor]

TNX ES 73 DE W5HS

Joe

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1/20/20

The South Austin W5YI VE team heartily congratulates the following people who earned new or upgraded amateur radio licenses at our January 18, 2020 session:

Amateur Extra Class

Juan Pablo Pacheco, KG5ZZB

General Class

Matthew McKee, N5MAT

Technician Class (New)

Timothy Harrington	Steven Eastin
Glenn Kirchner	Owen Brown
Kelly Abplanalp	

*Examiners Participating in this Test Session*

Craig Bean, AC5KW	Wally Marusa, K5WLY
Stuart Wolfe, K5NIX	Dale Davis, KG5DRV

Our next two amateur radio exam sessions will start at 2 PM on February 15 and March 21, 2020 in Fleck Hall, room 118 on the campus of St. Edward's University. All sessions are walk-in and the exam fee is \$14 (cash or check).

For additional information regarding our amateur radio examination sessions, please contact Craig, AC5KW at (512) 474-6443 or by e-mail to [craigmb5 /at/ gmail.com](mailto:craigmb5@atgmail.com)



### 01/27/2020 | HuskySat-1 with VHF/UHF Linear Transponder Set to Deploy Soon

The University of Washington's HuskySat-1 3U CubeSat, launched November 2, 2019, is set to deploy on January 31, 2020. Read the entire article at <http://www.arrl.org/news/huskysat-1-with-vhf-uhf-linear-transponder-set-to-deploy-soon>

### 01/28/2020 | State QSO Party Challenge Announced

The State QSO Party Challenge (<http://stateqsoparty.com/>) is a competition comprised of other contests, namely state and provincial QSO parties. As explained on the website, the annual cumulative score program is open to any radio amateur who participates in any approved state QSO parties (SQPs). Read the entire article at <http://www.arrl.org/news/state-qso-party-challenge-announced>

## AMSAT (The Radio Amateur Satellite Corporation) News

### Free E-Book for New and Renewed Memberships

If you are considering a new membership or renewal, now is the time to get your paid membership or renewal via the AMSAT Store. With any paid (new or renewal) membership, AMSAT is making the "*Getting Started With Amateur Satellites*" book available as a free download. Take advantage of this offer by visiting the AMSAT store at <https://www.amsat.org/shop/> and selecting any membership option. Read more about this offer at <https://www.amsat.org/ans-033-amsat-news-service-bulletins-for-february-2nd/>

### Big Bend National Park (DL88) March 16-17, 2020

Ron AD0DX, Doug N6UA, and Josh W3ARD will operate from Big Bend National Park to put grid DL88 on the air. Details will be added to the <https://www.amsat.org/> site, as they come available, but you are more than welcome to keep an eye on their individual Twitter feeds: <https://twitter.com/ad0dx>, <https://twitter.com/dtabor>, and <https://twitter.com/W3ARDstroke5>



## Note from the President of AARC

At our last meeting, I announced that silent key James Greenwood has generously donated a portion of his estate to AARC to establish a college scholarship fund. His generous donation will enable college education assistance for students with an FCC license and living in Bastrop, Blanco, Burnet, Caldwell, Hays, Lee, Travis or Williamson counties. The AARC Board is working with our attorney and Western Gulf Director, John Stratton (N5AUS), to set up a Foundation to manage the funds. Scholarship will be awarded based on (1) field of study, (2) activity in amateur radio, and (3) academic rank.

Please notify high school or college students that meet these criteria that they can find additional information on our web site. An online application process will be added shortly.

73

Kerby Spruiell, KG5DLD



## AARC Meeting Info

AARC Monthly Meeting  
Tuesday, February 4, 2020 / 7:00pm to 9:00pm

**Location:** Applied Research Labs  
10,000 Burnet Rd, Austin TX

### Meeting Topic

AARC Repeaters, by Roy, WA5YZD  
AARC Website, by Michael, K5MSK

Solar Wx Summary, by Lew, W5IFQ

## Upcoming Amateur Exams: 2020

ARRL VE - Please visit  
[http://www.austinsummerfest.org/VEC/ARRL\\_1st\\_Sat\\_Exams.html](http://www.austinsummerfest.org/VEC/ARRL_1st_Sat_Exams.html)  
for details and list of scheduled exams.

For more info, contact:  
Joe Makeever, W5HS (512-345-0800)

W5YI VEC - February 15 and March 21  
2 p.m. In Room 118, Fleck Hall,  
St. Edwards University. \$14 fee.

For more info, contact:  
Craig, AC5KW [at] ARRL.net

## 2020 - Calendar of Events

### Feb 22 Orange Hamfest

Orange, Jefferson County, and Beaumont Amateur Radio Clubs

7:30 AM to 2:00 PM

Orange County Convention & Expo Center 11475 FM 1442  
Orange, Texas 77632

Exit 869 from either direction off IH-10

Talk-in Frequency 147.180 +600 PL 103.5

[http://www.qsl.net/w5nd/index\\_files/HAMFEST%20INFO/hamfest%20info.htm](http://www.qsl.net/w5nd/index_files/HAMFEST%20INFO/hamfest%20info.htm)

### Mar 6-7 – Greater Houston Hamfest (Rosenberg)

Hosting the ARRL Texas State Convention 2020. Greater Houston HamFest will be our 19th year. Location: Fort Bend County Fairgrounds, 4200 Highway 36, Rosenberg, Texas. Friday March 06, 2020 12 pm to 8 pm - Vendor Set-up Only / Saturday March 07, 2020 Setup - 6AM - 8AM; Main event - 8AM - 2PM

Talk In 146.94 Tone 167.9

[http://houstonhamfest.org/pdf/ghh\\_2020\\_flyer.pdf](http://houstonhamfest.org/pdf/ghh_2020_flyer.pdf)

<http://www.houstonhamfest.org/>

HamFest Hotline 401-584-GHHF (4443)

713-502-5896 and/or 713-569-8799

### Mar 7 – Irving Hamfest

Irving Amateur Radio Club

Betcha Bingo Hall at 2420 W Irving Blvd, Irving, TX 75061.

<http://irvingarc.org/>

### Mar 14 – Spring Belton Hamfest

Bell County Expo Center 301 W Loop 121, Belton, TX 76513

<http://www.tarc.org/hamexpo>

<https://www.eventbrite.com/e/hamexpo-spring-2020-the-belton-hamfest-march-14-2020-tickets-87517149149>

### Mar 21 – Annual WCARC Swapfest

**(NOTE! Change in venue!!)**

St. Richard's Episcopal Church, 1420 E. Palm Valley Blvd., Round Rock, TX 78664.

8am-Noon. Big parking lot for Tailgating also. You could bring your trailer there, if you wanted. Stay tuned for details: <http://wcarc.com/index.php/events>

### Mar 21 – 65th Annual St. Patrick's Day Hamfest and ARRL West Texas Section Convention

Midland Amateur Radio Club.

MLK Community Center in Midland, Texas.

<http://hamfest.w5qgg.org/>

<https://hamfest.w5qgg.org/hamfest-location/>

### Apr 18 – Red Poppy Ride

Contact: Craig, W5TSN [cboegler@suddenlink.net](mailto:cboegler@suddenlink.net)

### May 2-3 – 2020 Texas MS 150 (Note: NOT IN APRIL)

Formally the BP MS 150. Please Note Other Major Changes for 2020:

Austin has been ADDED as a START location.

The ride will start from Austin AND Houston.

Saturday Night overnight is still in La Grange.

Kyle Field at Texas A&M is the New Finish Location on SUNDAY. Volunteer Sign-up is ready to Go!

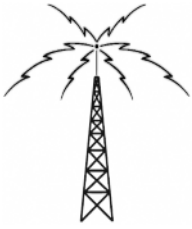
Please see the following NEW website for additional information: <http://texasms150hams.org/>

### Jul 31-Aug 1 – Austin Summerfest

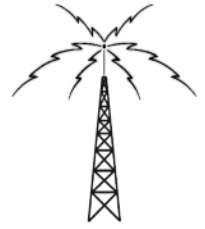
Crowne Plaza 6121 North IH-35 Austin, TX 78752

2020 info TBA on: <http://www.austinsummerfest.org/>

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



# Over the WWWaves...



(Note: Titles added by Editor. All links verified prior to publication.)

## Flying High With Ham Radio

Tom Medlin posted this on the Facebook group *Useful Amateur Radio Projects* (<https://www.facebook.com/groups/1654209268176763/>):

Ham radio experiment. Our high altitude balloon is now over the Azores. it looks like the predicted path is going to take us over Africa and the middle east again. We expect this balloon to stay up for months and circle the globe many times. We have tracking on APRS and a back up tracking on WSPR. the little 10 milliwatt transmitter is being heard thousands of miles away. We have set up a easy tracking page that has buttons to track it on both primary and secondary systems. This balloon is designed and engineered to fly at approx. 41,000 ft. Yesterday average speed was 100 mph. Many hams following it. to track it and see video and pictures plus more information go to <http://www.w5kub.com/> (note: redirects to <http://tmedlin.com/> -Ed) and click on "Baloon" (sic) in the menu. We also invite you to join our ham radio group of over 8000 hams at <https://www.facebook.com/groups/w5kub/>. We will be giving updates each week on our live ham radio show.

(DE K5FNI, Rick)

## Warm-up Exercises for Iambic Keying

Are you learning how to tap out CW on an Iambic keyer? This recently published video by OE6FEG of just under 7 minutes hints that your CW skills may be improved if you perform some simple warm-up exercises as part of your daily practice.

<https://youtu.be/c59rtL67yWw>

(DE K5MSK, Michael)

## Multi-Function Morse Code Practice Oscillator/Keyer/Trainer - Based on ESP32 Microcontroller

Do you have the CW bug (to learn morse code)? Do you need a code practice oscillator? This is the one used in the above video on warm-up exercises. This one's a bit more complex than others (about 50+ components), but Visit <http://www.morserino.info/morserino-32.html> for more info and links to functionality videos. Available as a kit for \$99USD, or you can source and build it yourself. That may seem a bit expensive, but it has LOTS of features, including an OLED display, Wi-Fi, file playback. All documentation, including hardware details and schematic, and software is in the Public Domain and can be downloaded from: <https://github.com/oe1wkl/Morserino-32>

Check out the review on Ham Radio Crash Course channel on YouTube at <https://youtu.be/YIP8YwX5tbM>

(DE K5MSK, Michael)

## Seen In The SwapNet Newsletter

- The following link is to a ham's website with lots of great antenna information. An educational article on those ever present end feds and many more great antennas plus analysis.  
[https://www.nonstopystems.com/radio/frank\\_radio\\_antenna\\_multiband\\_end-fed.htm](https://www.nonstopystems.com/radio/frank_radio_antenna_multiband_end-fed.htm) (DE WB4KTF, Glen)
- Seen on the EWX Facebook page: Starting on Mon., Jan 27 the KEWX, New Braunfels radar, will be going down for 2 weeks for maintenance. The Pedestal that holds the radar dish will be replaced for the first time since it was installed in 1995. While the radar is down surrounding radars can be used (DE K5KTF, Jim)

Read about these and more in the the SwapNet Newsletter. **Download** at <https://www.austinhams.org/swapnet>

[Editor]



# Just For Fun...



© Can Stock Photo / iKoncept

## 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. Can you find them in this newsletter?

```

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

```

AMSAT  
ARRISS  
BEACON  
CHALLENGE  
EDUCATION

EXAMINATION  
FROZEN  
IAMBIC  
MISSILE  
OSCILLATOR

POPPY  
SNOWBIRD  
SPECTRUM  
SUMMERFEST  
TRANSPONDER

## Action on the Airwaves

Looking for something new to do this new year?  
This is just a *sample* of the special events stations.  
Check out more [activities on the air!](#)

### 02/08/2020 | USS Midway Museum Ship Special Event; Mt Surabaya Flag Raising

Feb 8, 1700Z-2359Z, NI6IW, San Diego, CA. USS Midway (CV-41) Museum Ship. 14.320 7.250 PSK31 14.070 DSTAR REF001C. QSL. USS Midway Museum Ship COMEDTRA, 910 N Harbor Drive, San Diego, CA 92101.

### 02/12/2020 | 2020 Daytona 500

Feb 12-Feb 16, 0000Z-2359Z, N4DAB, Daytona Beach, FL. Daytona Beach CERT Amateur Radio Team. 14.255 14.076 7.255 7.076. Certificate & QSL. Steve Szabo, 536 Central Park Blvd, Port Orange, FL 32127-1136. <http://n4dab.com/>

### 02/15/2020 | 16th Annual "Freeze Your Keys" Winter Operating Event

Feb 15, 1400Z-2200Z, W0EBB, Leavenworth, KS. Kickapoo QRP Amateur Radio Club. 14.058 CW 14.325 SSB 7.035 CW 7.240 SSB. QSL. Gary Auchard, 34058 167th Street, Leavenworth, KS 66048. SASE required for return of a QSL card. [w0mna74@gmail.com](mailto:w0mna74@gmail.com)

### 02/15/2020 | George Washington's Birthday

Feb 15-Feb 16, 1500Z-1700Z, K4US, Alexandria, VA. Mt. Vernon Amateur Radio Club. 14.260 14.074 7.040. Certificate. MVARC, P.O. Box 7234, Alexandria, VA 22308. [www.mvarc.org](http://www.mvarc.org)

### 02/15/2020 | WHOA/SCOTA

Feb 15, 1400Z-2000Z, W1M, Russell, MA. Western Mass Council Scouting USA. 14.290 14.060 7.190 7.060. QSL. Tom Barker, 329 Faraway Road, Whitefield, NH 03598. Paper logging is used--there will be a delay in sending out qsl cards--sase required

### 02/15/2020 | Ice Station W0JH (Frozen Lake Portable)

Feb 15-Feb 17, 1600Z-2300Z, W0JH, Stillwater, MN. Stillwater (MN) Amateur Radio Association - SARA. 21.360 14.260 7.260 3.860. Certificate. Shel Mann, N0DRX, 1618 Pine St. West, IceStation2020@radioham.org, Stillwater, MN 55082. W0JH is operating portable from a frozen lake in Washington County, Minnesota (Grid Square EN34). In a meager attempt to drive away the remainder of Minnesota winter, the Stillwater Amateur Radio Association (SARA) will be generating as much RF as possible over the President's Day long weekend. The club's youth are planning to independently operate throughout the event. Certificates will ONLY be sent via email in PDF format. (Send requests with standard QSL confirmation info to: IceStation2020@radioham.org). There is no need to send a QSL card. Info: W0JH at <https://www.QRZ.com/> & [www.Radioham.org](http://www.Radioham.org)

### 02/15/2020 | WHOA/SCOTA

Feb 15, 1400Z-2000Z, W1M, Russell, MA. Western Mass Council Scouting USA. 14.290 14.060 7.190 7.060. QSL. Tom Barker, 329 Faraway Road, Whitefield, NH 03598. Paper logging is used--there will be a delay in sending out qsl cards--sase required

### 02/21/2020 | George Washington's Birthday

Feb 21-Feb 23, 2359Z-2359Z, WS7G, Moses Lake, WA. Columbia Basin DX Club. 14.255 7.222 3.855. QSL. Brian Nielson, 11650 Road 1 SE, Moses Lake, WA 98837. <http://cbn.homestead.com/WS7G.html>

(continued in left column)

### 02/22/2020 | Titan Missile Museum

Feb 22, 1600Z-2100Z, K7T, Tucson, AZ. Oro Valley Amateur Radio Club. 7.040 CW 14.040 CW 14.250 USB 18.100 FT-8. Certificate. Email: [qsl@TucsonHamRadio.org](mailto:qsl@TucsonHamRadio.org), No paper QSL's please. [www.TucsonHamRadio.org](http://www.TucsonHamRadio.org)

### 02/26/2020 | Snowbird Field Day

Feb 26, 1500Z-2100Z, W7ASL, Mesa, AZ. Sunlife ARC. 14.230 7.200. QSL. Tom Goforth, 4324 E Dragoon Cir, Mesa, AZ 85206. Please see the website for the most up to date information. <https://www.sunlifearc.org/index.php/events/2-uncategorised/28-snowbird-field-day>

### 02/29/2020 | "2019 Rare Disease Day" Special Event

Feb 29, 0000Z-2359Z, WA4CZD, Sparta, TN. WA4CZD. 14.246 7.246 7.115. QSL. Jill Dybka, WA4CZD, 7737 Sparta Hwy, Sparta, TN 38583. QSL to home call of WA4CZD including via BURO. Also using LoTW.



## Upcoming Meetings...

Feb	Mar	Austin Meetings/Happenings	Time	Address
4	3	AARC Meeting @ Applied Research Labs.	7:00pm	10000 Burnet Rd
25	24	Travis County ARES @ Applied Rsrch Labs	7:00pm	10000 Burnet Rd
		<b>TCARES - FEBRUARY MEETING @ Waterloo Ice House, 8600 Burnet Rd</b>		
18	17	CTDXCC Meeting @ Mimi's Café	6:30pm	10515 N Mopac Expwy NB Bldg O "the Big Room", Austin

Visit <https://www.ctdxcc.org/meetings/> to confirm date/time (dinner @ 5:15pm)

If your club is listed here and has incorrect time or dates, please let us know!  
Email: editor [at] austinhams.org

## Periodic Events On-The-Air

Sun	7:00 p.m.	Travis Co. ARES net	147.360 MHz - (131.8)
Sun	1900-Wed 2359	Travis Co. ARES WinLink Wednesday	145.730 MHz
Sun	8:00 p.m.	Williamson Co. ARES net	146.640 MHz - (162.2)
Sun	9:00 p.m.	AARC SwapNet	146.940 MHz - (107.2)
Mon	7:30 p.m.	STX ARES Net	3.873 MHz
Tue	7:30 p.m.	Hays ARES net	147.100 MHz +
Tue	8:00 p.m.	Bastrop ARES Net	443.750 MHz + (114.8)
Wed	10:00 a.m.	Ham Social Brunch, Jim's	146.940 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	444.100 MHz+
Thu	11:45 a.m.	Lunch, Whataburger, 1616 E. Oltorf	146.940 - (107.2)
Fri	8:00 p.m.	6m SSB Net	50.230 (texasvhf.org/)
Sat	7:00-8:30 a.m.	Breakfast @ Waterloo Ice House	444.100 MHz +
Sat	9:00 a.m.	Chapter 67 QCWA QSO Net.	3.920 MHz LSB
Sat	7:00 p.m.	AARC Elmer Net	146.940 MHz - (107.2)
Daily	6:30 p.m.	Central Texas Traffic Net	147.140 MHz+

## THIS SPACE FOR "RENT" (aka *Call For Articles*)

For "Rent"? Sort of... Rather, do you have any news of interest to the AACROVER readers. Have you run across some amateur radio related news items? How about links to homebrew projects or new equipment? I've run out of prepared material and am interested in articles for publishing in this newsletter. Personal experiences are fantastic! Have you worked or played with a new technology - like the digital methods mentioned in this newsletter? Or maybe you're one of the more experienced operators in our community. What changes have you seen in amateur radio throughout the years? You don't have to be a Pulitzer Prize winner to submit an article. I'll take anything, but would love to get articles that are at least two pages in length (single-spaced). Photos are great, too! Please remember, any submissions need to be free of copyrights. Creative Commons are okay, but I will need references to be able to publish them with attribution.

Thanks & 73 DE K5MSK, Editor



# Minutes of the Regular Membership Meeting of January 7, 2020

## The Austin Amateur Radio Club (AARC)

Kerby Spruiell, President, called the meeting to order at 1900.

Three visitors were recognized - WZ5BBS, KI5FTZ & KI5FTY

Joe Fisher, K5EJL was voted **Ham of the Month** for January 2020.

November 2019 Minutes were approved as posted on the website. No minutes in December due to Christmas Party.

Treasurer report by Mark Jenkins – Approximately \$10,000 in bank account. There are 311 active member in AARC.

Wild Apricot is an app for smart phones that allows you to have membership list with contact info. A printed copy of the membership is planned for the future. You can opt out if you don't want your contact information listed by contacting Mark Jenkins.

Roy Walker, Technical Committee – Club has 6 repeaters & 9 machines in total. If you have problem with Fusion machine three beeps, turn off group mode on your radio. All repeaters are working at this time. If you know of a problem let him know.

Michael Marks, Travis County Amateur Radio Emergency Service (TCARES) Emergency Coordinator – About 30 Volunteers are need to work each of the two bike rides coming up, MS 150 & Hill Country Ride for Aids. Volunteers are also needed for Winlink Wednesday, Hospitals, Net Controls and February 5th CAPCOG Drill. Contact Michael at KG5RXG@arrl.net to volunteer.

Stuart Rohre, Copeland Scholarship Committee – Scholarship applications are accepted January 1st to January 31st. Austin Community Foundation web page has details. STEM students and all other amateur radio licensed students are encouraged to apply. The fund was set up in 1993 and has given away about \$250,000 so far.

John Roberts, Winlink Wednesday – Training new Winlink operators and practice for experienced operators. There is a need for ARCHES volunteers at Area Medical Centers and VHF/HF operators at the ECT. There is a weekly check-in and training at <https://WinlinkWednesday.com/> Send check-in to: W5RZG (use Winlink Check-in form). John offers a 3-hour training class anytime there are people to train. Vara FM is one Winlink mode.

SkyWarn 2020 – Free training on Saturday, February 1st at ACC Eastview Campus 8:30am – 4:00pm.

James Stephen Greenwood Scholarship Fund – Bequest for the Sole Purpose of Scholarships. Attorney General Office has oversight. Total value approximately \$3 - \$4 million. In litigation since 2014 but resolved December 2019 pending audit. A Foundation will be established to manage funds. Scholarship information is on the website.

Applicants:

- \* Must be an FCC licensed radio operator
- \* Must reside in Travis or adjoining county
- \* Be a High School Senior or enrolled in College
- \* Preference is given to Science, Technology, Engineering & Math (STEM) Majors
- \* Applicants ranked by class SAT/ACT score

Lori Schmidt elected as Copeland Scholarship Committee members for 2020 -2022. Stuart Rohre is appointed by the President for three years as well.

Heightened alert for Cyber-attacks. Back up your computers and update file security.

ARRL Affiliated Club Benefits - December 5, 1919 AARC became an affiliated club.

Club membership provides liability insurance and insurance is available to cover club equipment or ARRL members equipment for a nominal fee of \$1.40 per \$110 value.. <http://www.arrrlinsurance.com/>

Lew Thompson gave the monthly Solar Weather report. Check out [Region 6 Army Mars](#) web site and click on Solar Weather.

Home Station reports from:

Lew Thompson W5IFQ  
Jeff Schmidt N5MNV  
Michael Marks KG5RXG  
Ed Cox KE3D

Joan Cox, Secretary

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

The Austin Amateur Radio Club, Inc. (AARC) has annual membership dues of \$20.00 per person or \$30.00 per family.

### **CLUB REPEATERS**

*AARC maintains the following repeaters:*

<b>Frequency (MHz)</b>	<b>PL Tone (Hz)</b>	<b>Use / Notes</b>
146.780 (-)	-	2m D-STAR repeater [W5KA C]
146.880 (-)	107.2	Analog/Digital Fusion (Yaesu)
146.940 (-)	107.2	Most popular, TCARES WxNet, SwapNet
224.800	-	-
440.650 (+5)	-	70cm D-STAR repeater [W5KA B]
444.100	-	-
444.200	107.2	-
1293.100 (-20)	-	23cm D-STAR repeater [W5KA A]
1248.200	-	23cm D-STAR DD (data, simplex/Reversible) [W5KA A]

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

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

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**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.

### **OFFICERS**

President	Kerby Spruiell	KG5DLD	president [at] austinhams.org
Vice President	Lew Thompson	W5IFQ	vice-president [at] austinhams.org
Treasurer	Mark Jenkins	W5MPJ	treasurer [at] austinhams.org
Secretary	Joan Cox	KD4SRD	secretary [at] austinhams.org

### **Other Contacts**

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\* Replace [at] with @ in email addresses.

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### **AARC Members:**

**For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN  
Contact: Mark Jenkins, W5MPJ / treasurer [at] austinhams.org  
Mark handles all changes for membership information.**

