

AARC OVER A

*Keeping
Austin
Wireless*



*for
100
Years!*

AARC

Bulletin of the
Austin Amateur Radio Club

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December, 2019

Paul M. Hargis, W5KA (SK), Birthday Celebration

By Joe Fisher, K5EJL

ARRL Technical Specialist and CLM
(and self-appointed AARC Historian)

OK, all you old-timers, and young squirts too, it's time for the annual Paul Hargis, W5KA (SK), birthday party. That'll be Sunday, January 12th, 2020, Waterloo Ice House, 8600 Burnet Road, at 6:30 p.m. As usual, your club Historian will pick up the first round, so don't be too late. No happy hour that late on weekends, tho'! Sorry.

Also, I guess we'll have to make arrangements to have check-ins to the Travis Co. ARES Net from the restaurant. January 12th is also the birthday of Joe Canfield, N5HPC, who is scheduled to be our backup NCS that evening. We'll just have to be prepared - "When all else fails . . ."

Because 1919 is the year we recognize as the founding of the Austin [Amateur] Radio Club, we've acquired quite a bit more of "Hargis memorabilia". Some made it into the 100-year video we made for the Club, but there's more to see. We'll have it at the party. Maybe some video to watch too. And, as usual, any AARC related history is always welcome.

Looking forward to seeing and hearing tales of old time Austin amateur radio. Yeah, I know it's maybe the same stories as previous years, but they get better with more telling!

73



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 November 12th, 2019 at Bethany United Methodist Church:

Technician Class Licenses Processed

John W. Benac KI5HBI	Zachary M. Brown KI5HBK	Matthew D. Day KI5HBM
Justin P. Eagle KI5HBN	Robyn L. Focazio KI5HBJ	Greg C. Johnston KI5HBH
Steven C. Ross KI5HBL		

General Class Licenses Processed

Jamal M. Amadon KI5GVI	Chris D. Falkowski KI5HBQ	Christopher J. Fluor KI5HBS
Steven L. Fusco KI5HBP	Robert D. George KI5HBO	Manoj J. Iyer KI5HBR
George D. Nincehler K5GDN		

Extra Class Licenses Processed

Christopher Garza KI5GVK	Patrick W. Hensley W5WTH	Glen A. Jenkins WB4KTF
Randall A. Raymond KG5FWD		

Examiners Participating in this Test Session

Larry Gunter WB5BEK	Sallie Howard AB5YL	Ted Iglehart KF5END
Micah Kemp AG5SJ	Joe Makeever W5HS	Tom Nevue W2MN

Next ARRL VE Test Sessions

December 7, 2019 - Bethany United Methodist Church, Disciple Building, Room 203/204
January 4, 2020 - **NEW LOCATION!** Hope Presbyterian Church, 11512 Olson Dr, Austin TX, West Building - Room 3

TNX ES 73 DE W5HS

Joe

11/17/19

The South Austin W5YI VE team heartily congratulates the following people who earned new or upgraded amateur radio licenses at our November 16th 2019 session:

Amateur Extra Class

n/a

General Class

James Kellinger, K5JPR	Eric Ebner (NEW)	Kaleb Petry (NEW)
------------------------	------------------	-------------------

Technician Class (New)

Charles Gahagan	Timothy McCanlies	James Horton, Jr.
Jonathan Taylor	Luis Medina	David McComb
Jeffrey Bullard	Claire Ireton	Lance Willard
Chris Harper	Russell Feller	

Examiners Participating in this Test Session

Craig Bean, AC5KW	Albert Karch, N5OVH
Steve Anness, KJ5T	Stewart Kenly, N1ICK

~~Our next two amateur radio exam sessions will start at 2 PM on December 21, 2019 and January 18, 2020 in Fleck Hall, room 11J 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



Austin Amateur Radio Club

Christmas Party



Tuesday, December 3, 2019 @ 6:00 p.m.

Buffet King

5451 N Interstate Hwy 35

Austin, Texas 78723

(Capital Plaza, N of 51st St)

\$11.99 buffet, paid at entry (10% senior discount)

Raffle tickets for Door Prizes, QLF CW contest, Ham Of The Year award and usual frivolity

Special 100th Year Anniversary presentation by Joe Fisher, K5EJL

Family, Friends, Non-members are all welcome!

For more information, contact Lori, KM5MQ [a] ARRL.net

Ornaments image © Can Stock Photo / LouisDavilla + Invitation image © Can Stock Photo / LoopAll. Images used under license.

AARC Meeting Info

Christmas Party!

Tuesday, December 3, 2019 / 6:00pm to 9:00pm

Location: Buffet King
5451 N IH 35, Austin TX 78723

Raffle for door prizes
QLF contest
Ham of the Year award

Special 100th Year Anniversary Presentation

Upcoming Amateur Exams: 2019/2020

ARRL VE - December 7th 2019 and January 4th 2020
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 - December 21st 2019 and January 18th 2020
2 p.m. In Room 118, Fleck Hall,
St. Edwards University. \$14 fee.
For more info, contact:
Craig, AC5KW [at] ARRL.net

2019/2020 - Calendar of Events

Dec 3 – AARC Christmas Party

6:00-9:00pm in place of regular club meeting (**NOTE: Not**
at ARL for December only!) Buffet King in Capital Plaza
<http://www.buffetkingaustintexas.com/>
5451 N IH 35 Austin TX, 78723 (512) 452-1888
Raffle tickets for Door Prizes, QLF contest, Ham Of The
Year award and usual frivolity, Special 100th Year Anniver-
sary presentation by Joe Fisher, K5EJL
Family, Friends, Non-members are all welcome! Contact
Lori KM5MQ [at] ARRL.net

Dec 14-15 ARRL 10 Meter Contest

Object: For Amateurs worldwide to exchange QSO infor-
mation with as many stations as possible on the 10 meter
band. Date and Contest Period: Second full weekend of
December. Starts 0000 UTC Saturday; ends 2359 UTC
Sunday (December 14-15, 2019)
Local Time, 6:00 pm Friday – 5:59pm Sunday
<https://www.arrl.org/10-meter>

Dec 15 – Decker Lake Challenge

Travis Co. Expo Center / Great for newbies!
Contact Jim [at] K5KTF.com

2020 - Events

Jan 10-11, 2020 – Radio Fiesta 2020

Schertz Civic Center. Official ARRL Hamfest.
Tables and tickets are being sold now through Eventbrite.
<https://www.eventbrite.com/e/sarc-radio-fiesta-tickets-64629584828>
<http://w5sc.org/radio-fiesta/>

Jan 17-18, 2020 – Cowtown Hamfest

ARRL North Texas Section Convention and Our 12th Year
Forest Hill Civic And Convention Center
6901 Wichita Street, Forest Hill, Texas 76140
Talk-in 146.94 Tone 110.9
<http://www.cowtownhamfest.com/>

Jan 19-25, 2020 – Quartzfest - annual HAM Radio RV'ers Boondocking event

7 miles south of Quartzsite Arizona - on US 95 at La Paz
Valley Road. Quartzfest Organizer: Kris - KR1SS
kristynweed@gmail.com
<http://www.quartzfest.org>

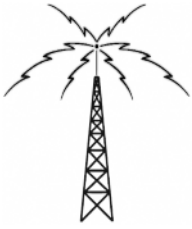
Jan 25-26, 2020 – Winter Field Day

2020 @ 1:00 pm - January 26, 2020 @ 1:00 pm
Winter Field Day runs for 24 hours during the last full
weekend in January from 1900 UTC (1pm CST) Saturday to
1900 UTC (1pm CST) Sunday. For 2020, the dates are Janu-
ary 25th and 26th. Station set-up may commence no
earlier than 1900 UTC (1pm CST) on Friday, January 24th.

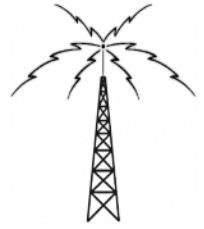
Feb 1, 2020 – 29th Annual Lou Withrow Austin/South Central Texas SkyWarn Basic & Advanced Training Session

9am - 4pm; Basic & Advanced Training
ACC Eastview Campus, Building 8500
3400 Webberville Rd, Austin TX 78702
Hosted by Troy Kimmel, KE5BCK
<http://www.la.utexas.edu/users/kimmel/skywarn.html>
Any questions- tkimmel@austin.utexas.edu

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.)

The Russian Woodpecker / Chernobyl-2 Over-The-Horizon Radar Site

Wow!! 160 x 500 m antenna array! @10 MW (I assume ERP). There is a received sample about 50 seconds in. (Length 8:44)

https://youtu.be/0l_4fzJv_i0

(DE K5FNI, Rick)

"CW" is Music to My Ears

I never heard this one before. From 1947. (Length 2:30)

<https://youtu.be/teaxWYRH9A4>

(DE K5FNI, Rick)

Random Wire Antenna Lengths

I liked the presentation. There is no astounding new info here, but it is a nice read. There are lots of ham antenna tuners (ICOM AH-4, et al) that will work with this article. The automatic ones built into lots of current transceivers will generally only tune antennas presenting untuned SWR of 3:1 or less. This article deals with external antenna tuners.

<https://udel.edu/~mm/ham/randomWire/?fbclid=IwAR29dpNiVCq3bX-AdOADQNijsBpGeh1X3vbwPtr6MdxaoYSvw5LvQh3b-4>

(DE K5FNI, Rick)

Antennas for Surveillance

This was a presentation at DEF CON 27 Wireless Village by WA5VJB (Kent Britain), maker/seller of many types of printed circuit board antennas. No, unfortunately I wasn't there. Darn. It's a good look at several different antenna types. He doesn't go into much detail on each, but interesting nonetheless. He also mentioned a little about receiver desense by strong signals. (Length 28:10)

<https://youtu.be/vaQYt7KcVDQ>

(DE K5MSK, Michael, Editor)



Thanksgiving image © Can Stock Photo / LouisDavilla. Image used under license.

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. Can you find them in this newsletter?

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

ALIEN
 ANTENNA
 BIRTHDAY
 CHRISTMAS
 CONTEST

COWTOWN
 HARGIS
 MARTIAN
 PATENT
 QUARTZFEST

SATELLITE
 SKYWARN
 SURVEILLANCE
 WINTER
 WOODPECKER

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!](#)

12/07/2019 | Skywarn Recognition Day

Dec 7, 0000Z-2359Z, NOW, Fruita, CO.
 Mesa County Skywarn. 14.286 7.235 3.990. Certificate & QSL. Al Acker, WA4HND, 1685 Mae Ct., Fruita, CO 81521. WA4HND@gmail.com

12/12/2019 | WX3MAS Special Event

Dec 12-Dec 15, 1400Z-2200Z, WX3MAS, Nazareth, PA.
 Christmas City Amateur Radio Club. CW and PSK31 on 20 and 40 meters; 14.265 7.270 3.850. QSL. Christmas City Amateur Radio Club, 14 Gracedale Ave, Greystone Building, Nazareth, PA 18064. 50 Anniversary! Christmas City ARC and the Delaware-Lehigh ARC. . Send QSL and SASE (A6 size or larger for 4"x 6" card) to WX3MAS, 14 Gracedale Ave, Greystone Building, Nazareth, PA 18064. Operation details at <http://www.dlarc.org/>

12/29/2019 | 21st Annual Ham Radio University Educational Conference

Dec 29-Jan 5, 0000Z-0300Z, W2HRU, Lindenhurst, NY. Ham Radio University. 14.273 7.273 7.074 3.923. Certificate & QSL. Phil Lewis, N2MUN, 22 Belle Terre West, Lindenhurst, NY 11757. Operating at various times on SSB and FT8. Electronic QSL via eQSL and LoTW. Paper QSL via W2 QSL Bureau or direct w/SASE to Phil Lewis, N2MUN, 22 Belle Terre West, Lindenhurst, NY 11757. On-Line printable QSL Certificate available at:

https://www.elemcoshopfloor.com/w2hru_cert
<http://hamradiouniversity.org>

This Month In Radio History

1891-12-29 / Edison patents "transmission of signals electrically" (radio)

1901-12-12 / Guglielmo Marconi sends the first transatlantic radio signal, from Poldhu in Cornwall to Newfoundland, Canada

1923-12-31 / 1st transatlantic radio broadcast of a voice, Pittsburgh-Manchester

1933-12-26 / FM radio patent granted to American engineer Edwin Howard Armstrong

1958-12-19 / 1st radio broadcast from space, US President Dwight D. Eisenhower Christmas message "to all mankind, America's wish for peace on Earth and goodwill to men everywhere"

1961-12-12 / Amateur radio satellite Oscar 1 launched with military Discoverer 36

1966-12-01 / Radio time signal WWV moves from Greenbelt, Maryland to Boulder, Colorado

1999-12-03 / NASA loses radio contact with the Mars Polar Lander moments before the spacecraft enters the Martian atmosphere

2017-12-13 / Scientists begin checking interstellar asteroid Oumuamua for signs of alien technology through radio signals

Source: <https://www.onthisday.com/literature/radio>



Upcoming Meetings...

Dec	Jan	Austin Meetings/Happenings	Time	Address
3	7	AARC Meeting @ Applied Research Labs.	7:00pm	10000 Burnet Rd
Note: December is Christmas Party @ Buffet King. See page 6 Events for more info				
-	28	Travis County ARES @ Applied Rsrch Labs	7:00pm	10000 Burnet Rd
-	-	CERT Meeting @ TBD (see Link / Contact)	7:00pm	TBD (<i>cannot find any info online</i>)
3	7	CTDXCC Meeting @ Mimi's Café	6:30pm	10515 N Mopac Expwy
		(dinner @ 5:15pm)		NB Bldg O, Austin

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	2359-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.	ARO 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 Oltorf & Burleson	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 November 5, 2019

The Austin Amateur Radio Club (AARC)

Lew Thompson, acting President, called the meeting to order at 1900.

Five visitors and new members were recognized.

Michael Butterfield and the ECT team were elected Ham of the Month without objection.

The minutes for the October meeting were approved as posted on the website.

Mark gave the Treasurer report:

Savings	\$ 5200.00
Checking	3800.00
PayPal	<u>400.00</u>
Total	\$ 9400.00

Lori gave a report on the October Special Event.

Joe Fisher, Historian, reported he is working on a video for the Christmas Party that includes footage of the 1948 Field Day.

Michael Marks gave the ARES report. A WinLink class was held last Saturday at the Red Cross. The annual Simulated Emergency Test will be November 9. Winlink Wednesday report continue.

Lew reported that US Army MARS will be conducting a 2 weeklong exercise.

Roy Walker reported the D-Star repeater is offline and is being diagnosed to return it to operational status.

Stuart reported that applications for the Coupland scholarship are due by 12-31-2019. Lew added that another sizable bequest will increase our scholarship funds for 2020.

Election for 2020 officers was held and the following elected:

Kerby Spruiell, President
Lew Thompson, Vice President
Mark Jenkins, Treasurer
Joan Cox, Secretary

The annual **Christmas Party** will be **December 2** at **6:00pm** at the **Buffet King** restaurant in Capital Plaza. Pay at the door \$11.99 or 10% off senior discount.

Lew gave the monthly Solar Weather Report and then a presentation on Maximum Usable Frequency and the effects of solar weather.

Kerby Spruiell, 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:

Frequency (MHz)	PL Tone (Hz)	Use / Notes
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.

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 (note: 2020 officers start in January)

President	Ruben Fuentes	WB5WTF	president [at] austinhams.org
Vice President	Lew Thompson	W5IFQ	vice-president [at] austinhams.org
Treasurer	Mark Jenkins	W5MPJ	treasurer [at] austinhams.org
Secretary	Kerby Spruiell	KG5DLD	secretary [at] austinhams.org

Other Contacts

Technical (Repeater Contact)	Roy Walker	WA5YZD	wa5yzd [at] arrl.net
ARRL Travis Co. Emer. Coord.	Michael Marks	KG5RXG	kg5rxg [at] arrl.net
TCARES PIO	Ruben Fuentes	WB5WTF	pio [at] austinhams.org
Editor, AARCOVER, website	Michael Skurka	K5MSK	editor [at] austinhams.org

* Replace [at] with @ in email addresses.

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Members and other readers are encouraged to submit original 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 from the AARCOVER 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 [at] austinhams.org
Mark handles all changes for membership information.**

