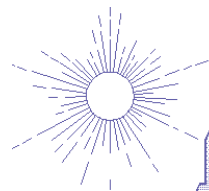


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



ADAW

Arizona Desert Aire Waves

Vol 46, No 4

April 2021

CLUB MEETING SCHEDULE

SARC

Apr 7th - 7:00 PM
On Line

AARC

Apr 8th - 7:00 PM
American Red Cross/Echolink

ARCCC

Apr 13th - 7:00 PM
Via Microsoft Teams

WVARC

Apr 5th - 7:00 PM
Via Zoom

SuperstitionARC

Apr 20th - 7:00 PM
Via Zoom

CHRC

Apr 10th - 9:00 AM
Via Zoom

ANSR

Apr 15th - 7:30 PM
via GoToMeeting

KARC

Apr 13th - 6:30 PM
New Hope Christian Fellowship

OVARC

Apr 16th - 7:00 PM
Via Zoom

AMO

Apr 8th - 7:00 PM
Charles K Luster Bldg

YARC

Apr 1st - 7:00 PM
Via Zoom

TBARC

Apr 15th - 6:30 PM
Via Zoom - See Website

ATN (VOAR)

Postponed
www.whereby.com/atn1

QCWA-AZ Chapter

TBD
Various

CADXA

Apr 1st - 7:00 PM
via Zoom

ARA

Apr 22nd - 7:30 PM
Electronically

SunLifeARC

Every Monday - 10:00 AM
Via Zoom

CARL

TBD
Check Web Site

MARCA

Apr 20th - 6:30 PM
via Zoom

MARA

Postponed

MMRG

May, 2021
See Web Site

ADAW Member Clubs

ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURSDAY** of each month at 7:00 p.m. at the American Red Cross Building at 4747 N 22nd St. in Phoenix. Visit web site at www.W7IO.org for map. Visitors are welcome.

President	Gary Hamman	K7GH	602.996.8148
Vice President	Steve Tolnai	W7WSV	480.390.4446
Secretary	Open		
Treasurer	Bob Hodges	K7JJT	602.375.9982
Activities Mgr	Lori Cripps	WA7EDI	602.955.7517
Membership	Bob Hodges	K7JJT	602.375.9982

AARC c/o Bob Hodges, K7JJT, 15214 N 7th Place, Phoenix, AZ 85022. DUES: \$15.00/YR, Prorated (\$18.00 Family, \$9.00 Student), MEMBERSHIP YEAR BEGINS FEB. 1.

SCOTTSDALE AMATEUR RADIO CLUB, INC.

The Scottsdale Amateur Radio Club meets the **FIRST WEDNESDAY** of each month at 7:00 p.m. in Room 8 at the new Scottsdale Senior Center located at 1700 N Granite Reef Road (west side of Granite Reef Rd., 50 yards north of McDowell Rd. Parking on site) in Scottsdale. The club also holds a net every Tuesday night at 7:00 p.m. on the 147.78/.18 repeater.

President	James Wasson	N7ELL	480.456.1154
Vice President	Ray Vasquez	K4RMV	
Secretary	Mike Childers	K7URK	
Treasurer	Douglas Mitchell	W7ADD	
Past President	Paul Finell	W7EFQ	602.741.6563
Board Members	Irv Hembuck	K0OTZ	
At-Large	David Yee	N7AJR	
	Bill Kouchis	N9EIV	
	Jim Dye	AG7AU	
	Paul Finell	W7EFQ	
	Chris Schweiger	NE7EE	
	Bruce Harmsen	KA9EYX	

SARC, P. O. Box 10878, Scottsdale, AZ 85271-0878. Phone: 602.735.3988. DUES: \$20.00/YR, (\$10.00/Add'l Family Member). Web Site: www.scottsdalearc.org

ARIZONA NEAR SPACE RESEARCH

The Arizona Near Space Research group meets the **THIRD THURSDAY** of the month at 7:30 p.m. via GoToMeeting. Technical meetings are held the first Monday of the month at 7:30 p.m. on GoToMeeting. Please contact an officer about joining our meetings.

President	Stephen Thomas	KE7TLS	iamgadget1@yahoo.com
Vice President	Clayton Jacobs	KJ6QJS	
Secretary	Steve Miller	W6SDM	
Treasurer	Bill McLean	K7WWM	bmclean@gmail.com

ANSR, PO Box 31003, Mesa, AZ 85275-1003. DUES: \$10.00/YR. Web Site: www.ansr.org

THUNDERBIRD AMATEUR RADIO CLUB

The Thunderbird Amateur Radio Club meets the **THIRD THURSDAY** of each month at 7:00 p.m. at North Phoenix Campus of Northern Arizona University located at 15451 N. 28th Avenue (near I-17 and West Greenway Road). The meeting is held in room 147. See the website (<http://w7tbc.org>) for a map and more details.

President	Charles Loftus	KG7KRN	president@w7tbc.org
Vice President	Rick Tejera	K7TEJ	vicepresident@w7tbc.org
Secretary	Andrew Cornwall	KF7CCC	secretary@w7tbc.org
Treasurer	Walt Reinert	NJ8G	treasurer@w7tbc.org
Directors	Clair Wyant	KG7MAJ	kg7maj@w7tbc.org
	Robert Lutes	N7NO	n7no@w7tbc.org
	Chuck Erickson	K7CAE	k7cae@w7tbc.org
	Jeff Rogers	KD7PYE	kd7pye@w7tbc.org
Past President	Brian McCarthy	AK7F	ak7f@w7tbc.org
Trustee	Gary Duffield	WK7B	wk7b@w7tbc.org

For further information about the ThunderBird Amateur Radio Club, visit our website at <http://w7tbc.org>, send an e-mail to: info@w7tbc.org or call 602.938.8219. The Thunderbird Amateur Radio Club is a 501(c)(3) non-profit organization. Mailing address: PO Box 11394, Phoenix, AZ 85318-1394.

AZ RED CROSS COMMUNICATIONS CLUB

The Arizona Red Cross Communications Club meets the **SECOND TUESDAY** of each month at 7:00 PM at the Red Cross Building located at 4747 N 22nd Street in Phoenix. The group meets at emergency drills and at the call of the officers.

President	Charlie Zurenko	N2TFS
Vice President	Mark Steele	KI7RB
Secretary	Saroj Gilbert	KM6BQD
Treasurer	Doug Bessemer	K0VPL
Past President	Peter Petrotta	KD7QIW

Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016.

MARICOPA AMATEUR RADIO ASSOCIATION

The Maricopa Amateur Radio Association (MARA) meets the **FIRST SATURDAY** of each month at 9:00 a.m. at Maricopa PD Community Room, 17985 N Greythorn Dr. in Maricopa.

President	Bob Howard	W8RH	president@copahams.org
Vice President	Scott Bushman	WI7Y	vicepresident@copahams.org
Secretary	Bob Proctor	N6YPE	secretary@copahams.org
Treasurer	George Hogan	K7TGH	treasurer@copahams.org
PIO:	Steve Miller	W6SDM	pio@copahams.org
Webmaster:	Louis Sandoval	W8LES	w8les@copahams.org

The Maricopa Amateur Radio Association is a 501(c)(3) non-profit organization. DUES: \$25.00/year individual, \$30.00/year family. Apply on-line at www.copahams.org. Mailing address: P O Box 951, Maricopa, AZ 85139



ADAW Member Clubs

BARRY M GOLDWATER, ARIZONA CHAPTER QUARTER CENTURY WIRELESS ASSOCIATION

The Barry M Goldwater Arizona Chapter of the QCWA includes amateurs from all over Arizona. Monthly meetings are held in various parts of Arizona.

The AZ Chapter meets on the air every Sunday morning at 0700 MST (0730 during December and January) on 3890 +/- QRM. During December and January, the net time is moved to 0730 MST.

President	Tom Fagan	K7DF	
Sec/Treasurer	Carl Foster	KB7AZ	
Club Editor	Carl Foster	KB7AZ	carlfoster@cactuscomm.net

Web Site: <http://azqcwa.org> Email: azqcwa@gmail.com.
DUES: \$7.00/year and current national QCWA membership.

MINGUS MOUNTAIN REPEATER GROUP

Meetings are held twice a year, an annual board meeting in Phoenix and a picnic meeting in Chino Valley. Dates, times, and locations are announced in the newsletter.

President	Bob Sitterley	K7POF	928.636.2146
Vice President	Tom Griswold	WN7E	
Secretary	Lori Cripps	WA7EDI	602.955.7517
Treasurer	Bob Sitterley	K7POF	928.636.2146
Board Members:	Gary Hamman	K7GH	
	Butch Merrill	K7JOG	
	Jerry Roberts	KB7CN	
	Ken Rasback	KK7KEN	
	Tom Raczykowski	N7MMC	
	Sonja Hazlett	WB7CWW	

Web Site: <http://www.k7mrg.org>. DUES: \$20.00 per year, due prior to July 1. MEMBERSHIP YEAR - July 1 - June 30.

KACHINA AMATEUR RADIO CLUB

The Kachina Amateur Radio Club meets the **SECOND TUESDAY** of each month at 6:30 PM at New Hope Christian Fellowship, 989 Cheney Ranch Loop (US260 & Cheney Ranch) in Show Low.

President	Jim Mortensen	W7AZY	
Vice President	Bill Turley	KJ7GYH	
Secretary	Marie Mortensen	N7SKS	
Treasurer	Dennis Wilkes	W7DRW	928.739.4700

Mailing Address: Kachina Amateur Radio Club, P O Box 2996, Show Low, AZ 85902. Email: kachinainfo@drwilx.com Testing Info: White Mountain V.E. Team: VEtesting@cablone.net. Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: www.kachinaarc.org



ARIZONA REPEATER ASSOCIATION, INC

The Arizona Repeater Association general meeting is held the **FOURTH THURSDAY** of each month at 7:30 p.m. There are no meetings in July and December. The November meeting is held the Monday before Thanksgiving. Meetings are held at Denny's Restaurant, 825 S 48th Street in Tempe, near SR143 and University Drive. Visitors are welcome. Come early for food and social time before the meeting starts. For further information about the ARA, including repeaters, site status, and the tech/board meeting, please visit our web site at www.w7ara.org.

President	Brian McCarthy, AK7F	ak7f@w7ara.net
Vice-President	Erv Heimbeck, K0OTZ	k0otz@w7ara.net
Treasurer	Cole Cunningham, AA7RD	aa7rd@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net

Board Members:

Dennis Campbell, AE7WU	ae7wu@w7ara.net
Mike Montalvo, KF7MBK	kf7mbk@w7ara.net
Marty Dusenberry, KE7DGP	ke7dgp@w7ara.net
Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Lance Halle, KW7LH	kw7lh@w7ara.net
Joe Godfrey, AE7JG	ae7jg@w7ara.net
Patrick Baldwin, KI4NSF	pbaldwin99@gmail.com
James Wasson, N7ELL	n7ell@w7ara.net

For Membership Information, contact (Joe Godfrey, AE7JG membership@w7ara.net) Arizona Repeater Association, Inc, P. O. Box 35758, Phoenix, Arizona 85069-5758. To join or renew, please visit <http://w7ara.org/mbr/Membership.aspx>. DUES: \$18.00/yr. (Jan. 1 through Dec. 31) with a one-time initiation fee of \$10.00. Life and family memberships are available.

SUPERSTITION AMATEUR RADIO CLUB

The Superstition Amateur Radio Club Board meetings are held the second Tuesday of each month at 7:00 PM via "Zoom Meeting." Club meetings are held the **THIRD TUESDAY** of the month except December at 7:00 PM via "Zoom Meeting." All meetings run approximately 24 hours. Visitors are Encouraged. If you would like to attend one of our meetings, please contact the President at least 24 hours prior to the meeting for the Zoom information:

President@SuperstitionARC.org

President	Steve Estes	KB7KWK	480.251.0551
Vice President	Brian Betz	W7JET	
Secretary	Scott Simeon	KI7KIM	
Treasurer	Bryan Hubbard	KF7DPC	480.205.8122
Board Members:	Bob Thomas	N8ANV	239.253.8279
	Emmet Plant	KB3MPN	
	Fred Atkinson	WB4AEJ	602.464.4406
	Greg Watkins	WB7VOK	
	Jeff Harris	K2DFE	602.617.6930
	Jeff Heinze	N7CCW	480.720.7908
	John Wolven	KG7NSP	

Mailing Address: Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277.

Web Sites: SuperstitionARC.org and SuperstitionSuperFest.org. The Superstition Amateur Radio Club, Inc. is a 501(c)(3) non-profit corporation. For more information, send email to: info@superstitionarc.org.

ADAW Member Clubs

MARCA, Inc. / W7MOT

MARCA is an Arizona 501(c)(3) Non-Profit organization. The club call sign in W7MOT. Membership is open to all amateur radio enthusiasts. Meetings are held the **THIRD TUESDAY** of each month at 6:30 p.m. via Zoom - login info on W7MOT.org. Monthly presentations cover a broad spectrum of interesting subjects. Visitors are welcome to attend. Come early (6:00 p.m.) socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications.

President	Norm Johnson	AA7OO	480.278.2886
Vice President	Ray Vasquez	K4RMV	
Treasurer	Don Aldridge	WA7RLL	
Secretary	Paul Bennett	KD7KDO	
Board Member	David Yee	N7AJR	
Trustee:	Norm Johnson	AA7OO	480.278.2886
Webmaster:	Norm Johnson	AA7OO	480.278.2886

MARCA, Inc., c/o Norm Johnson, 5756 S Wildrose, PO Box 85140, Mesa, Arizona 85212. Membership dues \$25 annually. See our website (<http://w7mot.org>) for more information about meeting schedules, membership, repeaters, library, and club activities.

CENTRAL ARIZONA DX ASSOCIATION

The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. Until further notice, meetings will be held virtually on Zoom. Visitors always welcome. See www.cadxa.org/meetings.html for a map.

President	Bill Poole	AA4Q	billpoole@yahoo.com
Vice President	Ron Smith	N7RD	n7rd@cox.net
Secretary	Bob Davies	K7BHM	k7bhm@cox.net
Treasurer	Mike Wright	N7MW	n7mw@aol.com
Past President	Larry Loen	WO7R	lwloen@gmail.com
Directors	Eric Schecter	KC7ES	eschecter@gmail.com
At-Large	John Jolly	N7NWL	wa7nwl@gmail.com

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: cadxa@cox.net. Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: www.cadxa.org.



YAVAPAI AMATEUR RADIO CLUB

The Yavapai Amateur Radio Club meets the **FIRST THURSDAY** of every month at 7:00 PM (currently our meetings are on ZOOM due to COVID) in the Freeman Building at the Prescott Rodeo Grounds located at 840 Rodeo Drive in Prescott (visit web site at www.w7yrc.org for directions and map). YARC is an ARRL Special Service Club dedicated to public service and emergency preparedness. The club serves the quad cities area of Prescott, Prescott Valley, Chino Valley/Paulden, and Dewey/Humboldt.

President	John Snedder	KT7P	president@w7yrc.org
Vice-President	Mike Reid	WU7V	vice_president@w7yrc.org
Secretary	Tim Norton	K7PVY	secretary@w7yrc.org
Treasurer	Sam Prather	K7SCP	treasurer@w7yrc.org
Past President	Bill Noe	WG7W	
Board Members	Dave Erlach	W7VXSX	rocketdog@dslxtreme.com
	Mike Schnell	NC7X	ka9cid@gmail.com
	John Laing	K7PRS	k7prsextra@gmail.com
	Ray Kolman	KI7COM	spudsmen@gmail.com

Yavapai Amateur Radio Club, P O Box 11994, Prescott, AZ 86304-1994. DUES: \$20.00/yr. Visit the website at www.w7yrc.org

ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at Ascension Lutheran Church located at 1220 W Magee Road in Tucson. (December is annual Christmas Party). (Monthly meetings are being held on ZOOM during the Pandemic.) Visitors are **VERY** welcome. Board Meetings are held at 10:00 a.m. at the Ascension Lutheran Church located at 1220 W Magee Road in Tucson. (BOD Meetings are being held on ZOOM during the Pandemic.) Check the web site at www.tucsonhamradio.org for dates.

President	Steve Wood	W1SR	w1sr@arrl.net
Vice-President	David Beauchesne	AK2L	ak2l@arrl.net
Secretary	Logan Zintsmaster	KE7AZ	lrahnz@garlic.com
Treasurer	Hanna Eckert	KG7TPD	haneck@aol.com
Board Members	Fred Bresani	W2HZ	w2hz@verizon.net

DUES: \$25.00/year (Household members living at same address \$15.00 each additional). To join or for additional information, visit website at <http://www.tucsonhamradio.org/>.

CHANDLER HAM RADIO CLUB

The Chandler HAM Radio Club (call sign N7CHN) meets the **SECOND SATURDAY** of each month at 9:00 AM. Until further notice, meetings will be held via Zoom. Visitors are welcome. Check the web site at chandlerhams.org for dates and presentation topics of club meeting. Weekly net is held every Thursday at 8:00 PM on 443.050+PL100.

President	Michael Reed	AA0MR	pres@chandlerhams.org
Vice President	Norm Fasoletos	K7NWF	vp@chandlerhams.org
Secretary	Mary Stephen	AE6Q	sec@chandlerhams.org
Treasurer	Byon Garrabrant	N6BG	treas@chandlerhams.org

Web Page: <http://chandlerhams.org>. DUES: \$25/year primary member; \$10/year family member.

ADAW Member Clubs

CENTER FOR AMATEUR RADIO LEARNING

The Center for Amateur Radio Learning is a hands-on amateur radio station, W7ASC, located within the Arizona Science Center at 600 E. Washington, Phoenix. Hours of operation are the same as the Arizona Science Center (subject to availability of volunteers.) The station is located on the third floor of the Science Center, in the "My Digital World" gallery. Board meetings are held the last month of each quarter at the AZ Science Center. An annual meeting for all volunteers is held the **THIRD SATURDAY** of January. Watch ADAW for details.

President	Jack Landon	KD7ROB	480.759.5195
Vice President	Jim Felkey	N7BBS	480.966.7084
Sec./Scheduling	Sam Marshall	N7INV	602.291.0992
Treasurer	Karen McConaghy	NO7D	602.799.7338
Station Engineer	Ron Taylor	WA7GIL	602.390.5335
Webmaster	Allyson Lee	KI7LGD	w7asc.webmaster@gmail.com

Board Members:

Jean Jolkovski	W4CIH	ADAW, Publicity
Tom Salt	AD7PM	At Large
John O'Neal	K7JP	Teacher Packets
Bob Burleson	KG7QJ	Trustee/President Emeritus
Robert Faerber	W9AQ	Log Book
Scott Gillins	W2KP	At Large

Direct Phone: 602.716.2082 Web Site: <http://www.w7asc.org>
 For information: Email to carl@w7asc.org or call Jack, KD7ROB at 480.759.5195.

AMATEUR TELEVISION NETWORK

The Amateur Television Network (ATN) promotes video operation on linked repeaters and mesh networks. Business meetings are in January and July. Monthly social meetings are postponed due to the pandemic. Join us online at www.whereby.com/atn1 on Sundays at 7:00 PM AZ time and Tuesdays at 8:30 PM AZ time for our ATV Nets. It's a lot of fun!

If you can, check in with RF on ATV, FM or DMR...

ATV Repeater Inputs: 434 MHz AM/DVB-T and 2441.5 MHz FM

ATV Repeater Outputs: Phoenix - 1253.25 and 5910 MHz,

Mesa - 421.25 and 1289.25 MHz, Tucson - 1277.25 MHz

FM Repeater Outputs: Phoenix - 448.400 MHz PL 100.0,

Mesa - 445.175 MHz PL 100.0, Tucson - 445.225 MHz PL 103.5

DMR Talk Groups: 9410 "ATV Talk" and 31024 "ATN"

We also stream 24x7 on www.youtube.com/amateurtelevisionnetwork and on YouTube at W7ATN-Arizona Live and W7ATN-Mesa Live.

President	Ed Olague	K5OLA	602.885.7725
Vice President	Rod Fritz	WB9KMO	480.322.5149
Sec./Treasurer	Lee Weitzel	K0CCU	602.439.4840
Repeater Trustee	Kevin Jacobson	AD7OI	602.694.0851
Webmaster	Roland Hoffman	KC6JPG	562.577.1381

ATN-AZ, 4134 W. Danbury Dr. Glendale, AZ 85308. Full membership dues are \$75 annually. Affiliate membership is free. Website: www.atn-tv.org. Email: wb9kmo@gmail.com

WEST VALLEY AMATEUR RADIO CLUB

The West Valley Amateur Radio Club, an Arizona 501(c)(3) non-profit corporation, has been providing emergency communications since 1961. Meetings are the **FIRST MONDAY** of each month at 7:00 PM at Shepherd of the Desert Lutheran Church, 11025 N 111th Avenue in Sun City. The board meets on the third Tuesday of the month at 1:00 PM at Lou's Tivoli Gardens, 12535 W Bell Rd in Surprise. A weekly breakfast is held on Thursdays at Lou's Tivoli Gardens, 12535 W Bell Rd at 7:00 AM. Club nets are held on 147.300 (tone 162.2) at 9:00 AM daily and Monday - Thursday at 8:00 PM. Please check our website (below) for other events and information.

President	Danny Hoerr	KM4HFT
Vice-President	Bill Ciccone	KA2KHV
Secretary	Lee Ann Ciccone	KJ7AZR
Treasurer	Doug Totel	K9RZ
Board Member:	Krissy Larson	KI7GJJ
	Joe Jacobson	KJ7PUL
	Frosty Oden	NQ1S
	Larry Johnson	WO7C
Past President	Danny	KM4HFT
Committees:		
Membership	Krissy Larson	KI7GJJ
Technical Advisory	Frosty Oden	NQ1S
Equip. Donations & Sales		
	Ken Jenkins	WB6MMV
	or Jim Seay	WB7RBN

WVARC, P O Box 1573, Sun City, AZ 85372-1573. DUES: \$15.00/YR for family residing at the same address. MEMBERSHIP YEAR - January - December. Web Site: <http://westvalleyarc.com>. Email: suncitywvarc@gmail.com

SUNLIFE AMATEUR RADIO CLUB

The Sunlife Amateur Radio Club meets **EVERY MONDAY** from October through April each year at 13:00 (1:00 p.m.) on Zoom. For access, please contact Sue Rogers, W7SKH at happyham7777@gmail.com.

Nets:

20 Meter Net: Monday, Wednesday, & Friday, 14329 Mhz SSB 12:30 p.m./11:30 a.m. during daylight savings time.

10 Meter Net: Tuesday & Thursday, 28.329 Mhz, SSB. 7:00 p.m./8:00 a.m. during daylight savings time.

Venture Out: 2 Meter Net: Monday, Wednesday, & Friday, 1:00 p.m., 146.58 MHz FM simplex, 12:30 p.m.

President	Sue Rogers	W7SKH	happyham7777@gmail.com
Vice President	Ralph Towers	KA0CET	retowers@hotmail.com
Secretary	Chuck Rogers	W7CBR	rogers_charles@hotmail.com
Treasurer	Dwight Carlson	KF7WI	dec@kalama.com

Membership dues are \$10.00/year. If you would like to be a member, visit the website at <https://www.sunlifearc.org/>



ADAW Member Clubs

AMO - ARIZONA MESH ORGANIZATION

The Arizona Mesh Organization (AMO), a newly formed 501(c)(3) amateur radio club, meets the **SECOND THURSDAY** of each month via Zoom. Board meetings are held the **FIRST THURSDAY** of each month via Zoom. The organization's goals are to support ARDEN MESH networks throughout the state of Arizona, explore new technologies, support emergency and public service communications, and (of course) to have fun along the way. AMO's purpose is to promote the education of what amateur radio mesh is, to support and exchange information with mesh users throughout the state, and to further the technology of mesh radio itself. Our weekly AMO radio nets are held from 7:00 to 9:00 PM on the 3rd, 4th, and sometimes the 5th Thursday of the month on Zoom. If you would like to attend one of these, contact the President, Michael, KI7LXY at president@arizonamesh.org at least 24 hours in advance. Visit the web site at <https://arizonamesh.org> for more information on the AMO Club and up-to-date news.

President: Michael Bailey, KI7LXY president@arizonamesh.org
 Vice-President: Steve Estes, KB7KWK vicepresident@arizonamesh.org
 Treasurer: Scott Gillins, W2KP treasurer@arizonamesh.org
 Secretary: Robert Fridell, N3BZ secretary@arizonamesh.org
 Board of Directors
 Dale Schmidt, N7QJK n7qjk@arizonamesh.org
 Heidi Brewer, K7ZAE k7zae@arizonamesh.org
 Gary Hinton, AC7R ac7r@arizonamesh.org
 Bob Howard, W8RH w8rh@arizonamesh.org
 Rodney Fritz, WB9KMO wb9kmo@arizonamesh.org

Mail Address: Arizona Mesh Organization Inc, 7939 E Golf Avenue, Mesa, Arizona 85209. DUES: Full Membership \$25.00 per year. Visit the AMO web site for more information on membership. Web Site https://arizonamesh.org/amo_membership.shtml

Please be sure your club has your current email and/or mailing address.



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The *Arizona Desert Aire Waves* is published monthly and is the official news media of the sponsoring clubs. All news items, articles and inquires should be submitted to each club's editor. Any information and opinions printed herein are those of the contributors and are not necessarily those of the sponsoring clubs. Full permission is granted to quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED. **Deadline is 10th of the month**

From The Editor's Desk

Happy April!

A very special celebration was held at the Arizona Amateur Radio Club's VE test session on Saturday, March 27. After the session was concluded, VE Lori Cripps, WA7EDI was presented with a certificate recognizing her achievement of 100 VE Exam Sessions. Her achievement was also commemorated with flowers and a special cheesecake contributed by master cheesecake baker, Charlie Zurenko N2TFS, which was enjoyed along with Lori's delicious chili.

Congratulations, Lori. Thanks for all your efforts in helping to administer exams to prospective Amateur Radio operators.

Can you believe it's April already? The days are getting longer and the temps are heating up. We have a hamfest to look forward to also! What could be better?

With the COVID-19 vaccine rolling out to the general public now and restrictions being eased, Amateur Radio hamfests, picnics, get-togethers, and social events are slowly returning. Club meetings, which mostly are being held on Zoom for April, may soon be in person again. It will be wonderful to have the opportunity to greet each other face-to-face once again.

The Radio Society of Tucson (RST) is holding their Tucson Spring Hamfest on April 10th. The event was rescheduled from March due to an unforeseen issue with their venue. The April event will be held at Elliott Electronic Supply. There's free admission and on street parking at this location. See the Hamfest Calendar on page 10 and the flyer in the included flyer file for all the details. A map and more information can be found at the club web site at <http://www.k7rst.org>.

The Arizona Amateur Radio Club (AARC) and Az Red Cross Communication Club's (AzRCCC) April Hamfest at DeVry is being postponed until a later date. Information will be provided as soon as it is available. Watch for updates on the Amateur Radio Council of Arizona's web site (www.arca-az.org) and here in ADAW.

The Cochise Amateur Radio Association (CARA) will hold it's annual Hamfest and Communications Exercise on Saturday, May 1st. This wonderful event is held in Sierra Vista at the club's site at 2756 S Moson Road. There's plenty to do and see in the general area, so why not make it a weekend get away. Enjoy a hamfest and a little sight seeing, too. Check it out! See flyer for details.

Enjoy the wonderful weather we are currently having and all the events coming up. Summer is just around the corner!

73 until next month,
Chris, N7PVL

ADAW



The program for the March meeting of the Arizona Amateur Radio Club was about HF Propagation. It was presented by Gary Hamman, K7GH.

It was determined that the AARC hamfest which usually is in April will be in the fall this year, possibly in October. Plans for the June Field Day for the AARC have not yet been solidified. Plans for a "cook out" were also discussed, possibly April 17 in the Anthem to New River area.

Bill Martin, AI0D, was recognized with a Certificate of Achievement for having served as volunteer examiner in 1,000 test sessions.

I thought I was going to a test session this morning (March 27, 2021). Actually I was, but it wasn't just a test session. It was also a celebration of an achievement of my 100 volunteer examiner test sessions. Could I really have participated in 100 test sessions?! Yes! And what could be more pleasant than seeing new ham radio operators join our ham radio fraternity! Every one of those test sessions has been a joy. Thank you for this celebration! Thank you for the flowers! Thank you for your friendship and the enthusiasm you exhibit in what our group does for ham radio!

--- Lori Cripps, WA7EDI



Photo by Gary Hamman, K7GH

ADAW



AMATEUR RADIO SERVICE DEMONSTRATION STATION

W7ASC is a Demonstration Station for the Amateur Radio (public) Service. The Volunteers who operate the station are members of the Center for Amateur Radio Learning (C.A.R.L.), a 501(c)(3) corporation. W7ASC is open to all who visit Arizona Science Center (ASC) during those hours when the ASC is open. The station is located on the third floor of the Science Center in the “My Digital World” gallery. Direct phone number is 602-716-2082.

Unfortunately, as I write this, the Harkin’s Ham Shack remains closed due to COVID-19 concerns. Additionally, our web page is temporarily down. However, our Twitter feed and Facebook page can be accessed at twitter.com/w7asc_arc and facebook.com/W7ASC, respectively. Also, all licensed amateur radio operators are invited to join us Wednesday and Saturday mornings at 0900 MST for the CARL Net on 440.375 MHz, offset +5.0, tone 100. The repeater is located on South Mountain.

Spring has sprung!

April is here again with Chamber of Commerce weather—warm in the Valley and snow in the mountains, take your pick! Last April, COVID-19 cases were just starting to be reported in Arizona. The peak would come three months later at the end of June, but that was a bittersweet event. The first wave would be tough on us, but a Fall resurgence would hit numbers twice that of the first surge. Still, many of you have found ways to keep in touch, work the airways, and promote the Amateur Radio Service. On the weekly CARL Net, participants report increased on-air presence, paper-chasing, building or purchasing new station equipment, and, of course, lots of remembrances of how they got started in amateur radio. All are activities that reach out to others while increasing our own skills and enjoyment of ham radio. Also activities that will help define our personal and corporate “new normals” when we finally get a handle on COVID-19.

Can “Normal” be far behind?

The question of the day on the CARL Net a few weeks back was, “When do you think we will be fully reopened at the Harkins Ham Shack?” Good question, but not an easy one to answer. Safety in COVID times was foremost in the discussions, followed closely by economic drivers. Arizona

CARL Continued from Previous Column

Science Center has bills to pay and their main revenue stream is a steady flow of visitors through the front door - half-a-million each year in pre-COVID times. What will it take to even approach a fraction of that? What changes will ASC and CARL have to make to once again provide up-close and personal attention to the guests that line up to send their names in Morse code; take their turn on the mic for a local repeater QSO; or experience the thrill of a stranger in Italy coming back to a CQ call? While the predictions ranged from Memorial Day weekend of this year to the beginning of 2022, the consensus appeared to be October of this year, but all respondents had a hint of indecision in their voices.

Keep on keeping on.

Personally, aside from coauthoring this column with Jean, W4CIH, I’m building a Peaberry SDR transceiver, managing three Twitter accounts, and planning a ZOOM lecture aimed at the youth we sorely miss by not having the Arizona Science Center station open at this time. Like some of you, I’ve also become something of a news junkie due to the decreased personal contact with the outside world. Perhaps you have found yourself trolling the Internet for interesting tidbits of news. Did you catch this story in the April 1, 2020 issue of Science News You Can Use?

Vulcanologists have always relied on analyzing chunks of surface lava to gain insight into conditions that existed at the time of eruption. Plant, mineral, and animal matter embedded in the lava speaks volumes. But, one vulcanologist, and amateur radio operator, always thought there was more to be discovered. His theory was that, as the hot lava flowed down the cinder cone, it trapped evidence of the ambient noise as it solidified. Not dissuaded by the teasing of professional colleagues and other hams, he pursued his theory and was able to reverse the state change history of the lava and recover those sounds. Mostly, it was white noise, but he employed signal processing techniques in hopes of enhancing the signal to noise ratio. Simultaneously melting large numbers of lava samples from the same area, he hit the jackpot. On April 1st, a faint but familiar sound emerged: SOS... SOS...

Well, I did warn you it was April 1st.

73 and never stop imagining
de WB4ZSC Steve
vyix99@yahoo.com
480.570.1041



Continued Next Column



For Sale / Wanted



**LOOK!
Great Deals!**

For Sale

Hello everyone. The weather continues to improve. Some of our members have begun to gather in the local parks. These have been fun and informative gatherings. No contest, no rules, just a group of Hams getting together. Several people set up their portable rigs. More conversation than operating takes place, but it is just good to see everyone in person again. Many new Hams who have gotten their ticket in the last year have actually never seen these types of events. The next one will be at Tumbleweed Park in Chandler on the 27th of March. The location is the east side of the park and people will be around from about 10 – 3 PM that day.

For obvious reasons our monthly club meetings continue to be held via Zoom. The meeting is currently held the second Saturday of the month at 9 AM. You can find a link to the meetings on our website; chandlerhams.org. Each month recently we have included a presentation of interest at the end of our regular club meetings. For April, the presentation will be given by Gary W9XT on the subject of Beginning Level Contesting. This should be interesting and informative. Please join us if you can.

Our Thursday evening net continues at 8 PM. It is located on 443.050 MHz, + offset, and with a PL tone of 100. Thanks to MARCA for the use of their repeater, located on South Mountain. Gary – KI7PBR is normally the net control and does a great job. Please ‘check in’ and see what it is all about.

VE testing continues on a limited basis at the Tri-City Baptist Church in Chandler at 10 AM on the first Saturday of the month. Check our website for registration.

Watch our website or this newsletter for coming events.

Mike – AA0MR
President CHRC

ADAW

For Sale - "The Dominator" 6 meter, 5/8 wave vertical antenna. Made like a tank in Italy by SIRIO. Is in perfect condition in Tucson. \$100.00

Contact Richard Bruns, K7VQ at d_brunz27@yahoo.com

11.0/13.5 KW 120/240 V Predator Generator

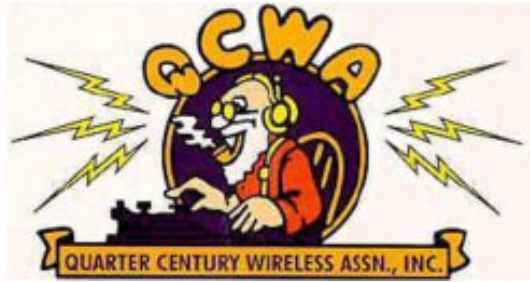
Looks and runs like new. Electric start with 12V battery and charger. Purchased 8/3/16, has 37 hours total run time. Comes with Manual, complete maintenance log, 90' 50-A cable, and dual 6' loading ramps. \$1800.00 Contact: Dave West K9JKN at WestDL@aol.com or 480.641.1480.

Cleaning out 50 year collection of ham related parts, connectors, ICs, cables, antennas, poles, and such, all on a "make offer" basis. Contact Bill, W7JSW at hoskingb@cox.net to arrange a meeting.

The **West Valley Amateur Radio Club** has radios and ALL kinds of supplies available for sale through the club. We get some old equipment that won't sell that will be added to the items for free. Contact: Ken Jenkins, WB6MMV at kjenkins5623@gmail.com or Jim Seay, WB7RBN at wb7rbn@arrl.com.



Hamfest Calendar



CHAPTER 16

BARRY M. GOLDWATER ARIZONA CHAPTER

10 April 2021 - **RST Tucson Spring Hamfest** - hosted by the Radio Society of Tucson will be held at Elliott Electronic Supply, 1301 S Tyndall Avenue in Tucson. Hours - 7:00 AM - 11:00 AM. Set up begins at 5:00 AM. Free Admission and On Street Parking. Seller Spaces \$10 per Parking Space. Coffee is ready at 6:00 AM. ARRL Card Checking - Morning Snacks - Prizes - NO VE Testing. Talk-In Frequency - 145.250 FM Tone 156.7. For Information & Map, visit <http://www.k7rst.org>

1 May 2021 - **Cochise Hamfest and 7th Region Communications Exercise** - hosted by the Cochise Amateur Radio Association will be held at the club site, 2756 South Moson Road in Sierra Vista. Gates open at 7:00 AM. Free Admission and Parking. Tailgating - \$5. Inside Table - \$10. VE Testing from 9:00 until 11:30 AM. Coffee, Pastry, and Drinks Available. Hourly Prizes with Main Prize drawing at 12:00 Noon. Talk-In on 146.76(-) PI 162.2 Hz.

25 September 2021 - **RST Tucson Fall Hamfest** - hosted by the Radio Society of Tucson will be held at the Target Store, 9615 E Old Spanish Trail in Tucson. Hours - 7:00 AM - 11:00 AM. Set up begins at 6:00 AM. Free Admission and Parking. Seller Spaces \$10 per Parking Space. ARRL Card Checking - Prizes - NO VE Testing. Snacks Brought to You by BSA Troup 157. No Alcohol, Drugs, or Firearms. Talk-In Frequencies - FM: 145.250 FM Tone 156.7; DSTAR: 445.900 K7RSJ B; Fusion: 146.800. For Information & Map, visit <http://www.k7rst.org>

2 October 2021 - **TARA Swapfest** - hosted by the Tonto Amateur Radio Association will be held at Rumsey Park in Ramada #5, 400 McLane Road in Payson. Hours are 9:00 AM until 12:00 Noon. A BBQ/Potluck will be held after close. VE Exams will be held. Table fee: \$5.00. Contact Hal Key, KG5LVG at 480.225.5987 or email to hkey073@gmail.com for more information.

30 October 2021 - **Copafest** - hosted by the Maricopa Amateur Radio Club will be held at The Ultrastar at Ak-Chin Circle, 16000 N Maricopa Rd in Maricopa. Hours are 7:00 AM until 1:00 PM. Admission Donation is \$5.00 per person. Spaces are \$10.00 for two parking spaces. Setup begins at 5:00 AM. Balloon Launch, VE Testing, Card Checking, Vendor Exhibits, Seminars, Prizes and more. Many activities available in the Multitainment Center including laser tag, bowling, movies, games, dining and more. Dining and Hotel also available. For information, email fest@copafest.org or visit the website at www.copafest.org.

6 November 2021 - **HARKfest** - hosted by the Hassayampa Amateur Radio Klub will be held at North Ranch Escapees RV Park, 30625 S Hwy 89 in Congress. Free Admission - Free Tailgate Sites (Pre-Registration Required). Watch for more details.

BARRY M GOLDWATER, ARIZONA CHAPTER 16, QUARTER CENTURY WIRELESS ASSOCIATION since 1962.

The Barry M Goldwater Arizona Chapter of the QCWA includes amateurs from all over Arizona that have been a ham for more than 25 years.

Due to Covid-19, all paid members will receive one free year of membership.

We are restarting quarterly meetings at the traditional three locations; Phoenix, Prescott, and Tucson areas. If you know of a restaurant with a meeting location, please let us know. A lot of the traditional locations have closed. We will use Zoom in the interim.

We would like to re-start the weekly on-air nets. They were previously on Sunday mornings on 75 meters. Some members requested that the weekly net be on 40 meters to accommodate those people who have smaller lots.

President: Tom Fagan, K7DF, president@azqcwa.org

Secretary/Treasurer: Carl Foster, KB7AZ, secretary@azqcwa.org

<http://azqcwa.org> <https://www.facebook.com/AZQCWA>
DUES: \$7.00/year and current national QCWA membership
www.qcwa.org

ADAW

Hamfest Calendar Continued from Previous Column

4 December 2021 - **Superstition Superfest** - hosted by the Superstition Amateur Radio Club. Time and Locations to be Announced. Visit the web site at superstitionsuperfest.org for latest details.

18-19 February 2022 - **Yuma Hamfest** - hosted by the Yuma Amateur Radio Hamfest Organization will be held at the Yuma County Fairgrounds, 2520 E 32nd Street in Yuma. Visit the web site at www.yumahamfest.org for up to date information.

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License Testing Information

When you are ready to take an exam for an Amateur Radio license, there are Volunteer Examiners available to assist you. Each Applicant will need to bring a picture ID (some test sessions require two forms of identification). If you are upgrading your class of license, be sure to bring the original (and a copy) of your license and/or Certificate of Successful Completion of Examination (C.S.C.E.). There may be a fee required.

PLEASE NOTE: Dates, times, locations, fees may change. Arrive promptly at time listed. Fees may vary and exact change or check is required at most sessions. Call test session contact to confirm information. Walk-ins are permitted unless otherwise specified.

IMPORTANT NOTICE: In light of the current situation with the COVID-19 virus, please call to verify whether test session will be held.

April Test Sessions

Apr 3rd - CHRC Laurel VE Team -- 10:00 AM
Tri-City Baptist Church, 2211 W Germann Rd, Chandler
Contact - Norman Fasoletos 602.319.4834
No Walk-Ins / Register or Call Ahead

Apr 3rd, 10th, 17th, 24th - NOMADS -- 9:00 AM
Venture Out RV Resort, 5001 E Main St, Mesa
Call or Email Team to Schedule a Test/On Demand Testing
Contact - Robert Bingham 480.404.1408
No Walk-Ins / Call Ahead

Apr 3rd - K7ARC VE Team -- 10:00 AM
American Red Cross, 4747 N 22nd St, Phoenix
Contact - Brandi Bridges 530.541.0760
No Walk-Ins / Register or Call Ahead

Apr 3rd - Yavapai ARC -- 9:00 AM
Jeep Posse Bldg in Pioneer Park, 1200 Commerce Dr, Prescott
Contact - Donald Bauer 928.775.4690
Pre-Register online: www.w7yrc.org

Apr 12th - Radio Society of Tucson -- 7:00 PM
Biscuits Country Cafe, 7026 E Broadway Blvd, Tucson
Contact - Diane Zimmerman 520.664.5070

Apr 17th - Hualapai ARC -- 10:00 AM
3571 E Lum Ave, Kingman

Apr 17th - West Valley Electronic Club -- 1:00 PM
The Shack, 11115 W Nevada Ave (111th & Nevada), Youngtown
Bring FRN, pencil & pen, and \$15.00
Contact - David Morrill 623.680.5011
No Walk-Ins / Register or Call Ahead / Limited Seating

Apr 20th - Hassayampa AR Klub -- 2:00 PM
Home, 30645 S Wandering Way, Escapees North Ranch, Congress
Contact - Charles Carter 316.651.7710
No Walk-Ins / Register or Call Ahead

Apr 21st - Thunderbird ARC -- 6:00 PM
<https://www.w7tbc.org/ham-radio-license-ve-exams/>
See Website for Location
Contact - Walter Reinert 602.668.7804
No Walk-Ins / Register or Call Ahead

Apr 25th - Arizona ARC -- 10:00 AM
American Red Cross, 4747 N 22nd St, Phoenix
Contact - Gary Hamman 602.996.8148
Masks Required / No Walk-Ins / Register or Call Ahead
Pre-Register Required by the Thursday before





KARC Continued from Previous Column

always be worked into your time frame. Even busy people like KI7JEU Renee Beecroft, KB5RUA Betty Troxel, and N7SKS Marie Mortensen find time to dust off their callsigns and get on the Air on occasion.

Our March meeting consisted of W7RJB Randy Beecroft and N7QVU Jerry Wyatt giving a presentation on WinLink. A basic introduction to it. For a person getting their feet wet for that mode of operating, it was great, and of course as any good presentation does, it generates a lot more curiosities, interest, and questions. There have been some people that have gotten set up for it already. Thank you two for the work you did. It's available in the Technical Library through our website.

On February 24th, Bill Turley KJ7GYH and Mike Lackey KB7VMG went over and helped Jim Mortensen W7AZY, put up a 35' pole for a horse fence [electric "poly tape" used for electric fencing] Inverted V Dipole Antenna. Jim used the quad to pull the pole up and the other three walked the pole up and helped secure the lines. This took place during 20 mph winds! We always plan for the winds as part of any work that gets done up here. If you look in our tool boxes, you'll notice amongst the wire cutters, pliers, screwdrivers and crimpers, we have rocks. We gauge to see if it will be a one, two or three rocks in your pockets kind of day and job. Just tools of the trade up here! Thank you, Bill & Mike! In the photos, Jim W7AZY is in the cowboy hat, Bill KJ7GYH is in the camo shirt, and Mike KB7VMG is in the black shirt. Way to go guys!



Continued on Page 13

Howdy to All from the Kachina Amateur Radio Club!

April is here and Spring Fever is abounding everywhere! Many people up here have been making preparations for the coming growing season, whether it be nurturing their plant starts, ordering seeds or tilling up the garden patch, or planning road trips to here and there, it's all happening and energizing! Sure, we've seen the dirt blow more and more from lack of moisture, but we're not discouraged by that for gardening. If anything we're more determined to make a go of it for the fresh things the garden will have to offer, without worry of supplies being low in the local store. We love to grow our salsa up here, onions, tomatoes, garlic, and peppers. We look forward to the many visits we'll have in our travels as well. However, we do keep a wary eye out for the coming season when wildfires can be an issue because of the dryness of the land. Come on moisture, of course, not too much, you understand. We keep our radios handy and in good condition for stuff like fire season.

Our other favorite activity up here is family and friend time, on and off the Air. We are so grateful when they make the trek up here to take time out from their daily lives elsewhere and hangout with us for a couple of days. It's refreshing! We also love spending Radio Air time with them too. Hand-me-down radios, antennas and other odd and end equipment that someone is very glad to put into use makes for a nice trading day. Some people may trade their favorite sports cards, but as for us Hams, we trade, buy, or sell something that was once useful to us, and then we either buy one too many, or we upgrade our equipment as the finances allow. It can become like a micro Hamfest, everyone happy with what they procured and excited to get it back home and get busy implementing it into their radio system. It's a treat.

The Airwaves have been very busy up here with people making Contacts on H.F. KJ7PNI Owen Rhoton had reported that he and his brother and sister and Dad had made some awesome Contacts in the A.R.R.L. Contest in March. They were pretty excited to be crossing the far distances riding the Airwaves. It's also good to hear those seasoned radio operators like N7QVU Jerry Wyatt and AD7EO Earl Lucas enjoy their Contacts made, even though they have been on the radio for years, they still enjoy making new Contacts. We still hear KC7OMZ Walt Davidson on the Air proving that no matter your age, and he's well into his 90's, Ham Radio is an all-time favorite thing to engage in wherever you are and can

Continued Next Column

ADAW



The Treasurer's Assistant

At the last board meeting, Jeff Rogers KD7PYE accepted the nomination, and is now the club's assistant treasurer. He will be working with Walt Reinert NJ8G on all things financial. Thanks Jeff!

Gary Cline Memorial Repeater

After voting at the last general meeting, the club decided to purchase the repeater that was owned by Gary Cline AF7BJ/SK from his estate. A club member agreed to donate \$1000 to this cause as well. The plan is to rename it to the Gary Cline Memorial Repeater and get it back on the air.

The club is also working with the estate to help them dispose of what's left of Gary's radio equipment. A work party was scheduled to take the antenna down on March 20.

A few hands make a huge difference!

As can be seen with Jeff's assistance with the Treasurer position, a hand or two can make a big difference for everyone. Have you got a hand or two? Why not think about signing up to chair a committee — the club needs good hams who are interested in activities and training/education. Talk to Charlie before or after the meeting to let him know you're interested.

April meeting

It's almost so close we can taste it! Although our April meeting will be virtual, we're fast approaching the day when those of us who are comfortable with it will be able to meet in person. As more and more of our members are vaccinated, they're more comfortable with meeting again. Until then, we'll be on Zoom! The login URL and details are on the TBARC website, w7tbc.org. See you at the (virtual) meeting!

Andrew Cornwall KF7CCC
kf7ccc@arrl.net



In other news for us, we had returned, for a brief time, to holding our monthly club meetings on the Air, but for April we are returning to meeting in person at our regular meeting place. Many of us are looking forward to that! Our club members are willing to lend a hand to help bring in new people into the world of Amateur Radio. We are always grateful to NQ5G Doug Troxel, for putting on the 2-day class each month for studying for the Technicians Exam for those who look forward to testing for their Amateur Radio License. What a great service, thanks Doug!

That's is from us up here, thanks to All who help their neighbors and communities to be a better place by being a better person and working and serving! You make the day brighter!

Keep bending the Airwaves, Take care.

Tara KI7KLJ



April 8th



Due to the ongoing situation with COVID-19, the April meeting will be held virtually using Zoom. **The meeting will be Thursday night, April 1st** (no joke, really, April 1st!), **starting at 7:00 p.m.** You can begin checking in at 6:30 p.m. and visit informally with other club members on Zoom until the meeting starts. We often start our in-person, and now Zoom, meetings with introductions and maybe a question to the group. I will start that about 10 minutes before 7:00 so as not to eat up too much meeting time. **Please turn off your computer camera and microphone when the formal part of the meeting starts.** The link to the Zoom meeting will be sent to all members just prior to the meeting. Our meetings are open to all. If any of you reading this would like to join via Zoom or would like any other information about CADXA, send me an email: aa4q@arrl.net.

Frank Donovan, W3LPL, will be joining our Zoom meeting with a presentation on **HF Ionospheric Propagation**. Frank's contesting career began as a 12-year-old at the Providence Radio Association 1959 ARRL Field Day, W1OP/1, on Neutaconkanut Hill two miles from his home in Providence, Rhode Island. Soon afterwards, he began to slowly build his own small contest station on 1/10th of an acre in a densely populated urban neighborhood.

Seventeen-year-old K1LPL finished first in USA in the 1964 ARRL CW DX Contest low power category. In 1968, he was the leader of W1OP/1 Field Day that finished in first place in the 4A category from a former WW2 FCC signals intelligence monitoring site in Scituate, RI. Immediately after college, US Air Force 2nd Lieutenant Frank Donovan's first military assignment was in the Washington D.C. area where he worked under PVRC member W3GN and with his multi-multi mentor W4BVV.

Frank finished first USA single operator in four CQWW CW and four ARRL CW DX contests from 1973 to 1978. His first multi-multi experience was with the world high scoring 1974 PJ9JT CQWW CW team. W3LPL multi-multi teams started 43 years ago with a small entry in the 1977 ARRL Phone DX Contest. Five years later, two incredible nights of 10 meter JA runs unexpectedly produced his team's first USA multi-multi win in the 1982 ARRL Phone DX Contest, the same year that renowned multi-multi competitor W2PV became a silent key.

W3LPL multi-multi teams have completed more than one million QSOs and achieved more than 50 first place USA

CADXA Continued from Previous Column

finishes out of more than 150 multi-multi entries in the CQWW and ARRL DX contests. Frank was inducted into the prestigious CQ Contest Hall of Fame in 1999, and is a regular presenter at Contest University. He retired nine years ago as a Chief Engineer at General Dynamics Corporation after a 45-year career in electronics and systems engineering.

Frank will answer questions following the presentation.

The March program was "**Station Tour at K9CT and a Peek at 2021 Enhancements.**" You can learn more about K9CT's contest station at <http://www.k9ct.us/>.

CADXA has several year-long on-the-air activities set up similar to CQ's DX Marathon. This allows members to track their progress working DX against other members. It encourages working the common ones again every year in between chasing the really rare DX entities. Also, someone with a smaller station working lots of casual QSOs might beat out a DXCC Honor Roll guy with a KW and a ton of aluminum in the air. For instance, two months into the year, we presented that club reporting leader on 30m CW only had two countries worked, and only one member reported only one DX entity worked at all on 60m CW! You don't need a real big station to beat that! And the clock restarts every year! Tune in to our meeting to see this month's status!

In this day and age, clubs may be looking for socially distanced speakers. At CADXA, many of our members have presentations on the world of DXing, QSLing, Contesting, Station Construction and related subjects ready to present to your club. We know how to present via programs like Zoom. Contact us through our website <https://www.cadxa.org/contact.html> or email us at cadxainfo@gmail.com or me at aa4q@arrl.net for details.

See you on Zoom for the April meeting.

73,
Bill Poole, AA4Q
CADXA President
aa4q@arrl.net

ADAW



Vecteezy.com

Continued Next Column



ARA Continued from Previous Column

Micor mobile radios were installed to replace the Micor base station and the Mocom control radio. The repeater, made up of a pair of 900 MHz Maxtrac radios, was added by Joe Oliver, N1KQ (WB7BNI at the time). The North Link radio (441.625) was added to the mix around the same time.

After one of the power outages, the batteries were added to the site.

Site: The water tower is located at 33.610250, -111.918596 approximately Thunderbird and Redfield Roads just off the southeast end of the Scottsdale Airport runway.

Antennas: The antennas are located on top of the 100-foot water tower. The ARA had to have a certified welder attach a mount for the antenna on top of the water tank.

Equipment: Seven radios supporting three repeaters, two links, and one control make up the site. Most radios are Motorola Micor mobile radios, old, but highly reliable. The three repeaters, 146.76 (Metrolink), 441.625 and 927.1625 (Northlink) repeaters are all controlled by one Link Communications RLC-3 Repeater Controller which allows all the radios to be interconnected as required. (Standard ARA site configuration) Autopatch service is available on the 2M MetroLink radio.

Power: Power redundancy is provided by on site battery backup with samlexpower charger.



History Corner –

few interesting facts about the ARA

- April 1988 – Post 599 reaches its one year anniversary
- April 23, 1987 – The ARA celebrated their 20th Anniversary at the monthly general meeting. A tape of the first 34/94 repeater operations was played. The party included a birthday cake and door prizes. Invitations were sent to the original 45 charter members from 1967.
- April 1, 1984 – ARA picnic was held at North Mountain Park
- April 25, 1981 – ARA members supported the March of Dime Walkathon in Encanto Park in two shifts staffing check points and the vans picking up people.
- April 3, 1976 – ARA members are onsite at White Tanks preparing the site concrete anchors. After receiving final approval from the BLM, the site development committee is constructing the site. Completion is forecasted for Mid May 1976. This will be the home of the ARA 34/94 Repeater.

ARA Site Profile

Scottsdale site profile courtesy of Site Manager Marty Dusenberry KE7DGP and Dennis Mills WA7ZZT

ARA has had a presence at Scottsdale Airpark since March 1978.

Scottsdale was first started as a standard Motorola outdoor cabinet about 3 feet high and not very secure. Later a railroad signal electrical box was donated by Whitey Behrmann K7PMS (SK) and was reworked for security by Dennis Mills WA7ZZT. This improvement required locking rods to be removed to gain access to the radio. The cabinet had just a fan blowing fresh air and accumulated much dirt. It consisted of a new Motorola Micor base station with a Bill Hosking, W7JSW controller. (The ARA was using this controller on all the sites at the time). The control receiver was a Mocom.

January 1981 Hartley Gardner W1OQ did a frequency swap with Mt Ord in one day swapping channel pairs from 146.16 / 76 MHz. to the 147.84 / 24 MHz. Unfortunately Mt. Ord on 16/76 was found to be in conflict with a Kingman repeater, 16/76 moved back to Scottsdale at a later date.

Later, Lance found an abandoned cell container that had a heat pump with a spare unit for cooling and brought it to Phoenix, where it was refurbished, and installed with the help of a work party and Dennis Mills, WA7ZZT, backhoe. Erv Heimback, K0OTZ, installed the power.

Continued Next Column



Public Service Calendar

Maricopa County Emergency Communications Group Events

President's Corner – by Steve, KB7KWK –

Hello everyone. I hope you are all doing okay. What a rough year it was in 2020 and into 2021, but things are looking a little better for all of us. I cannot wait until the world gets back to normal. It sure will be nice to meet you all in person again. However, it is looking like that will not be for a while. So I hope to see all of you at our club Zoom meetings.

We have a lot of new hams and a lot of new members on the repeaters and a few of you have been joining the meetings. It is always great to put a face with the voices you hear on the repeaters. Speaking of repeaters, the Board of Directors has voted to purchase a new antenna for the Usery mountain site.

The tech team is also going to be doing some work out at the Stone Castle site. The team is going to insulate the ceiling and add air conditioning to the building. You may remember the trouble we had last Summer with overheating there. The repeater cooling cabinet had failed and we ordered a new compressor. Unfortunately it did not help and there are more problems with it than we thought. We have limited power going to that building and we were a little worried that there would not be enough to run air conditioning inside the building. Fortunately, testing a couple of weeks ago show that we just might get away with it. The Tech team will be working hard to get the building ready before our summer heat gets here.

I hope all of you are enjoying the presentations that our program committee is bringing to the club meetings. Brian has a lot of good ones coming up for this year, so make sure you are getting club email notifications of events. You can also find all the information about the club on its website. Dale, N7QJK tries to keep the Superstitionarc.org site as up to date as he can.

Next Club Meeting is Tuesday, April 20 – 7:00 PM on Zoom

Please see Superstition ARC in Member Clubs, found on Page 3 in this ADAW, for visitor participation in our online meetings. For program information, please see the club web site, SuperstitionARC.org for current details as they emerge.

Club publication Article Submission deadlines:

For this ADAW column, please submit by 3rd of this month for next month. Publishes 24th of this month.

For the Communicator, the club's member newsletter: 27th of this month. Publishes first week of next month.

73 – Larry Kuck, WB7C for Superstition ARC's part of this ADAW

Continued Next Column

EVENT	LOCATION	DATE
ADA Bike Rides	North Phoenix	10/23/2021
Auxcomm Interest	TBD	12/31/2021

To sign up for an MCECG Public Service Event: www.mcecg.net

For information, contact Dennis Bietry - KE7EJF at 602.274.3732 - email, ke7ejf@cox.net, or contact the Event Coordinator for the event.



April 1st

Superstition Continued from Previous Column

- **Superstition ARC Repeaters**
- 147.120 MHz(+) 162.2 Hz - Linked to 449.600(-) (Analog Only)
- 449.600 MHz(-) 100.0 Hz - Linked to 147.120(+) (Analog Only)
- 448.275 MHz (-) 100.0 Hz - Fusion
- WB7TJD-L Echolink Node
- **Club Nets**
- **Morning Drive Time Net:** Mon-Fri, 7:00-8:00 AM - Trivia
- **Saturday Supershow:** Sat, 8:00-9:00 AM - Trivia
- **Weekly 6 Meter Sideband Net:** Wednesdays, 7:00 PM on 50.140 MHz, W7ASL-L EchoLink, and 145.575 FM Simplex
- **Club Net:** Wednesdays, 8:00 PM - Discussion, Elmer Q&A.
- **Mesh Information Net:** Thursdays, 7:00 PM - Net control Steve, KB7KWK
- **Fusion Confusion:** Monday & Friday, 8:00 PM - 448.275
- **10-Meter Rag Chew:** Thursdays, 8:00 PM, 28.465 MHz USB
- **Club Membership** is open to anyone with an interest in Amateur Radio. Visit: <https://superstitionarc.org> for more information.
- **Superstition SuperFest**
- The Superstition SuperFest is held on the first Saturday of December. Visit www.superstitionsuperfest.org for the latest information.

Superstition ARC Winter Field Day - 2021

at Usery Mountain Regional Park - January 2021





4747 N 22nd St. - Suite 100 - Phoenix, AZ 85016
 VHF – 146.84 MHz – PL 162.2 / UHF – 446.900 MHz – PL 131.8
 Echolink Node #731289 – K7ARC-R

As we continue to plan for another nationwide Red Cross Winlink exercise on May 8th, I thought I would pass along some information that was shared by one of the Red Cross EMCOMM leads in Texas.

In February, Texas suffered the largest power outage in the US since 2003, and the costliest Texas disaster in history. Together with power & water outages, there were 208 Reported communications outages affecting approximately:

- * 370,000 wireless customers,
- * 35,000 wireline customers,
- * 722,000 VoIP customers, and
- * 11,000 Network transmission lines failures

Fortunately, there is a long-standing partnership between the American Red Cross and ARRL. Amateur radio operators in both organizations were asked to stand by. Many were activated to assist with power failures, internet outages, communications failures and overloads. In addition, trained EMCOMM Winlink email over radio operators assisted locally to forward to public safety personnel and Red Cross any infrastructure problems, or Texans who had medical needs or who depended on medical equipment that required power. These trained operators provided early visibility into the downing of a public safety tower in Mason County TX, the first of many. These operators also referred clients with medical needs who were provided safe, non-congregate sheltering.

This is the first major failure in communications in Texas in some time. But we were more prepared and had the assistance of many valuable radio operators because of the great work the EMCOMM team has been doing over the last year.

You can see that training is important. When conditions deteriorate and help is needed, trained operators are a valuable asset. Winlink is another tool in the toolbox for amateur operators supporting EMCOMM. It allows us to efficiently and accurately exchange digital messages with other radio operators using template forms. With Winlink, we can also email directly to commercial email addresses such as gmail,

Continued Next Column



The Arizona Mesh Organization (AMO) is a newly formed 501(c)(3) amateur radio club. Our board meetings are the FIRST THURSDAY and club meetings are the SECOND THURSDAY of each month via Zoom.

The organization's goals are to support ARDEN MESH Networks throughout the state of Arizona, explore new technologies, support emergency and public service communications, and (of course) to have fun along the way. AMO's purpose is to promote the education of what amateur radio mesh is, to support and exchange information with mesh users throughout the state, and to further the technology of mesh radio itself. Our weekly AMO nets are held from 7:00 to 9:00 PM on the 3rd, 4th, and sometimes the 5th Thursday of the month on Zoom. If you would like to attend one of these, contact President: Michael, KI7LXY at president@arizonamesh.org at least 24 Hours in advance.

Visit the web site at <https://arizonamesh.org> for more information on Arizona Mesh Organization and Up-To-Date news.

ADAW



April 21st

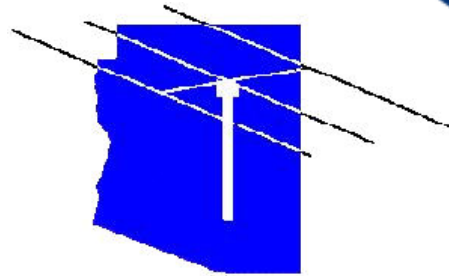
ARCCC Continued from Previous Column

yahoo, cox, etc.

To help us become proficient with Winlink, there are several VHF/UHF Winlink gateways in Arizona, including the Phoenix metro area, Apache, Yavapai and Coconino Counties and a new gateway being tested and planned for operation at Elephant Head, south of Green Valley. In addition HF gateways provide additional opportunities to pass traffic using gateways outside of Arizona.

If you would like to learn more about how Winlink email over radio works, you can subscribe to the ARC-EmComm-Training group at <http://arc-emcomm-training.org/>

No Reports Received



MARCA INC.



SARCCONSTANTS:

SARCC is a 501 (c)(3) club. That means all donations are fully tax deductible. Contact Paul Finell W7EFQ at 602.741.6563 for information on estate donations and equipment pick-up.

For membership information, call Ed Nickerson, WU7S at 480.949.5162. Please send address change requests to Judy no later than the 7th of the month in which you would like the change to occur.



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IC-705 | HF/50/144/430 MHz All Mode Transceiver

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ID-4100A | VHF/UHF Dual Band Digital Xciv

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IC-7300 | HF/50MHz Transceiver

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