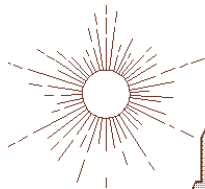


**ADAW**

1762 Golden Poplar Ave  
Sacramento, CA 95834



**ADAW**

**Arizona Desert Aire Waves**

**Vol 46, No 9**

**September 2021**

**CLUB MEETING SCHEDULE**

**SARC**

Sep 1st - 7:00 PM  
On Line

**AARC**

Sep 9th - 7:00 PM  
American Red Cross/Echolink

**YARC**

Sep 2nd - 7:00 PM  
Prescott Rodeo Grounds

**TBARC**

Sep 16th - 6:30 PM  
AZ Christian University

**CADXA**

Sep 2nd - 7:00 PM  
via Zoom

**ARA**

Sep 23rd - 7:30 PM  
Electronically

**MARCA**

Sep 21st - 6:30 PM  
via Zoom

**MARA**

Sep 4th - 9:00 AM  
Maricopa Public Library

**AzRCCC**

Sep 14th - 7:00 PM  
American Red Cross/MS Teams

**WVARC**

Sep 6th - 7:00 PM  
Via Zoom

**SuperstitionARC**

Sep 21st - 7:00 PM  
St. Katherine Orthodox Church

**CHRC**

Sep 11th - 9:00 AM  
Veterans Oasis Park Edu Ctr

**ANSR**

Sep 16th - 7:30 PM  
via GoToMeeting

**KARC**

Sep 14th - 6:30 PM  
New Hope Christian Fellowship

**OVARC**

Sep 17th - 7:00 PM  
Ascension Lutheran Church

**AMO**

Sep 9th - 7:00 PM  
Charles K Luster Bldg

**ATN (VOAR)**

Postponed  
[www.whereby.com/atn1](http://www.whereby.com/atn1)

**QCWA-AZ Chapter**

TBD  
Various

**SunLifeARC**

Every Monday - 10:00 AM  
Via Zoom

**CARL**

TBD  
Check Web Site

**MMRG**

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](http://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	<a href="mailto:n7ell@scottsdalearc.org">n7ell@scottsdalearc.org</a>
Vice President	Ray Vasquez	K4RMV	<a href="mailto:k4rmv@scottsdalearc.org">k4rmv@scottsdalearc.org</a>
Secretary	Open		
Treasurer	Douglas Mitchell	W7ADD	<a href="mailto:w7add@scottsdalearc.org">w7add@scottsdalearc.org</a>
Past President	Paul Finell	W7EFQ	<a href="mailto:w7efq@scottsdalearc.org">w7efq@scottsdalearc.org</a>
Board Members	Gene Geller	K0VN	
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](http://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	<a href="mailto:iamgadget1@yahoo.com">iamgadget1@yahoo.com</a>
Vice President	Clayton Jacobs	KJ6QJS	
Secretary	Steve Miller	W6SDM	
Treasurer	Bill McLean	K7WWM	<a href="mailto:bmclean@gmail.com">bmclean@gmail.com</a>

*ANSR, PO Box 31003, Mesa, AZ 85275-1003. DUES: \$10.00/YR. Web Site: [www.ansr.org](http://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 Arizona Christian University, 59th Avenue and Greenway Road in Glendale. Meeting is in building 3600, Auditorium #1. See the website (<http://w7tbc.org>) for a map and more details.

President	Charles Loftus	KG7KRN	<a href="mailto:president@w7tbc.org">president@w7tbc.org</a>
Vice President	Rick Tejera	K7TEJ	<a href="mailto:vicepresident@w7tbc.org">vicepresident@w7tbc.org</a>
Secretary	Andrew Cornwall	KF7CCC	<a href="mailto:secretary@w7tbc.org">secretary@w7tbc.org</a>
Treasurer	Jeff Rogers	KD7PYE	<a href="mailto:treasurer@w7tbc.org">treasurer@w7tbc.org</a>
Directors	Robert Lutes	N7NO	<a href="mailto:n7no@w7tbc.org">n7no@w7tbc.org</a>
	Clair Wyant	KG7MAJ	<a href="mailto:kg7maj@w7tbc.org">kg7maj@w7tbc.org</a>
	Chuck Erickson	K7CAE	<a href="mailto:k7cae@w7tbc.org">k7cae@w7tbc.org</a>
	Robert Fairfield	K7RQN	<a href="mailto:k7rqn@w7tbc.org">k7rqn@w7tbc.org</a>
Past President	Brian McCarthy	AK7F	<a href="mailto:ak7f@w7tbc.org">ak7f@w7tbc.org</a>
Trustee	Gary Duffield	WK7B	<a href="mailto:wk7b@w7tbc.org">wk7b@w7tbc.org</a>

*For further information about the ThunderBird Amateur Radio Club, visit our website at <http://w7tbc.org>, send an e-mail to: [info@w7tbc.org](mailto: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	KD7OIW	

*Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016. Web Site: [K7ARC.org](http://K7ARC.org) Email: [azrccc@gmail.com](mailto:azrccc@gmail.com)*

## MARICOPA AMATEUR RADIO ASSOCIATION

The Maricopa Amateur Radio Association (MARA) meets the **FIRST SATURDAY** of each month at 9:00 a.m. at the Maricopa Public Library - Redwood Room, 18160 N Maya Angelou Drive in Maricopa.

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

*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](http://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 who have been licensed for 25 or more years. Meetings are currently held in Phoenix, Prescott, and Tucson. The Arizona Chapter meets on the air every Sunday morning. Please check the website <http://www.azqcwa.org/> for the time and frequency.

President	Tom Fagan	K7DF	president@azqcwa.org
Vice President	Open		
Secretary	Carl Foster	KB7AZ	secretary@azqcwa.org
Treasurer	Carl Foster	KB7AZ	treasurer@azqcwa.org

Web Site: <http://www.azqcwa.org> Email: [info@gmail.com](mailto:info@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	K7BUD	
	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](mailto:kachinainfo@drwilx.com) Testing Info: White Mountain V.E. Team: [VETesting@cablone.net](mailto:VETesting@cablone.net). Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: [www.kachinaarc.org](http://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](http://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](mailto: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 meets the **THIRD TUESDAY** each month (except December) at 7:00 PM -- Charles K Luster Building, 640 N Mesa Drive, Mesa -- also via Zoom. **VISITORS** are Encouraged. **Board meeting:** Second Tuesday at 6:30 PM via Zoom. If you would like to attend one of our meetings via Zoom, please contact [president@superstitionarc.org](mailto:president@superstitionarc.org) at least 24 hours prior to the meeting for the Zoom link.

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](http://SuperstitionARC.org) and [SuperstitionSuperFest.org](http://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](mailto: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.cadx.org/meetings.html](http://www.cadx.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](mailto: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.cadx.org](http://www.cadx.org).



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

## 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](http://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 Snedden	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	W7VSX	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](http://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 7:00 p.m. via ZOOM. Check the web site at [www.tucsonhamradio.org](http://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. Starting June 12th, club meetings will be held in person in the "Jackrabbit" room at the Veterans Oasis Park Education Building at the NE corner of Chandler Heights and Lindsey Roads. You can still join via Zoom. Visitors are welcome. Check the web site at [chandlerhams.org](http://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](mailto: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](http://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](http://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](http://www.atn-tv.org). Email: [wb9kmo@gmail.com](mailto: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](mailto: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](mailto: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	<a href="mailto:happyham7777@gmail.com">happyham7777@gmail.com</a>
Vice President	Ralph Towers	KA0CET	<a href="mailto:retowers@hotmail.com">retowers@hotmail.com</a>
Secretary	Chuck Rogers	W7CBR	<a href="mailto:rogers_charles@hotmail.com">rogers_charles@hotmail.com</a>
Treasurer	Dwight Carlson	KF7WI	<a href="mailto:dec@kalama.com">dec@kalama.com</a>

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) is a 501(c)(3) amateur radio club. Our goals and purpose is to promote and support ARDEN MESH Networks throughout the state of Arizona, to explore new technologies, to promote the education of what amateur radio mesh is, to support and exchange information with mesh users throughout the state, to further the technology of mesh radio itself, to support emergency and public service communications, and (of course) to have fun along the way. AMO's board meets the **FIRST THURSDAY** and club meetings are held the **SECOND THURSDAY** of each month via Zoom. If you would like to attend either of these, contact the President, Michael, KI7LXY at [president@arizonamesh.org](mailto: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](mailto:president@arizonamesh.org)  
 Vice-President: Steve Estes, KB7KWK [vicepresident@arizonamesh.org](mailto:vicepresident@arizonamesh.org)  
 Treasurer: Scott Gillins, W2KP [treasurer@arizonamesh.org](mailto:treasurer@arizonamesh.org)  
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*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. If you would like to join, visit our web site and click on the HamClubOnline Banner: [https://arizonamesh.org/amo\\_membership.shtml](https://arizonamesh.org/amo_membership.shtml)*

### ARIZONA OUTLAWS CONTEST CLUB

The Arizona Outlaws Contest Club ("AOCC") does not hold routine meetings. At least once per year, we hold the AOCC Roundup, a catered event that rotates each year between Phoenix, Tucson, and Prescott. All members have access to an email reflector. Members post comments, questions, and their contest scores. All licensed amateur radio operators interested in amateur radio contesting (also known internationally as "radiosport") are eligible for membership. For more information, see our website, [www.arizonaoutlaws.net](http://www.arizonaoutlaws.net).

President: Mike Fulcher, KC7V [mikekc7v@gmail.com](mailto:mikekc7v@gmail.com)  
 V. P. North Area: Ray Benny, N6VR [n6vr@arrl.net](mailto:n6vr@arrl.net)  
 V.P Central Area: Chuck Zanella, KF7U [Chuck\\_KF7U@outlook.com](mailto:Chuck_KF7U@outlook.com)  
 V.P. South Area: Owen Watson, AK7W [ak7w.owen@gmail.com](mailto:ak7w.owen@gmail.com)  
 Secretary/Treasurer: Larry Reader, KE2VB [larry.ke2vb@gmail.com](mailto:larry.ke2vb@gmail.com)

*Arizona Outlaws Contest Club, 1099 N Olympic Pl, Tucson, AZ 85737. Dues are \$10 per year. For more information, contesting resources, and a membership application, visit our website: [www.arizonaoutlaws.net](http://www.arizonaoutlaws.net).*



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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**



Have you had any experience with encryption? Enigma? That's the question we were asked at the August 12 meeting of the Arizona Amateur Radio Club. If your answer was a NO, the program was certain to enlighten you on the subject.

Encryption is the process of encoding information. This process converts the original representation of the information, known as plaintext (written in lowercase), into an alternative form known as CIPHERTEXT (written in all uppercase). Ideally, only authorized parties can decipher a CIPHERTEXT back to the original plaintext message. Encryption does not itself prevent reception by others, but it denies the intelligible content to a would-be interceptor. Only people who know how to return CIPHERTEXT to its original form can read it. To anyone else, it'll appear as gibberish or a meaningless collection of characters.

The German Enigma Cipher machine changes plaintext letters into CIPHERTEXT letters. The Germans developed this machine and used it before and during WW2. The British worked on deciphering the messages and had some success in doing it with the help of a very talented Polish mathematician. An Enigma machine was used at the sending end to encode and another one used at the receiving end to decode. The two machines must have the same settings to encode and decode the message. These settings were on a chart that had the settings tabulated for each day. There were 20 columns of settings for each day and most columns had many choices. There were over 10 to the 25th power of possible settings (over a trillion trillions). No wonder the Germans considered it impossible for an interceptor to decode a message. The Russians, US Army, and a few others developed similar machines.

73,  
Lori Cripps, WA7EDI

ADAW

## Public Service Calendar

### Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Barnburner Mtn Bike Ride	Kendrick Peak NW of Flagstaff	09/18/2021
ADA Bike Rides	North Phoenix	10/23/2021
Xterra San Tan Trail Run	San Tan County Park	11/14/2021
Xterra Estrella Mtn Trail Run	Estrella Mtn Park	12/11/2021
Auxcomm Interest	TBD	12/31/2021
Xterra - White Tank	White Tank County Park	01/08/2022
Xterra McDowell Mtn	McDowell Mtn County Park	02/06/2022
Xterra Black Canyon Trail Run	Black Canyon City	03/13/2022

To sign up for an MCECG Public Service Event: [www.mcecg.net](http://www.mcecg.net)

For information, contact Dennis Bietry - KE7EJF at 602.274.3732 - email, [ke7ejf@cox.net](mailto:ke7ejf@cox.net), or contact the Event Coordinator for the event.

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 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.

ASC is open daily, 10:30 a.m. – 4:00 p.m., and the ham shack hours are essentially the same, dependent on availability of staff. Our Twitter feed and Face Book page can be accessed at [twitter.com/w7asc\\_arc](https://twitter.com/w7asc_arc) and [facebook.com/W7ASC](https://facebook.com/W7ASC), respectively. We hope to have our web page back up shortly. 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.

### **Help Wanted**

You’ve seen the signs. They’re everywhere. The end of COVID-19 may still be uncertain, but America is definitely reopening. Faster than the labor force can respond in some cases. C.A.R.L. isn’t hiring, but we are short of volunteers. We rely on local licensed amateur radio operators to staff the W7ASC demonstration station at the Harkins Ham Shack inside Arizona Science Center (ASC). As such, we compete with other activities for the operators’ spare time.

With the temporary shack shutdown during the pandemic, we lost some of our volunteers to those alternate activities. So, we’re hanging out the Help Wanted sign. The success of our demonstration effort—and our quarter-century tenancy at Arizona Science Center—depends on our ability to staff the station 363 days a year. That’s where you come in. Most of our volunteers commit to one specific day a week, but others sign up for our backup squad to cover vacancies as needed. Either way, it’s a win-win situation. For a few hours of demonstrating amateur radio, you go home knowing that you have had a positive influence on a population of visitors, of all ages, who may have not even heard of amateur radio and its mission.

### **Where do I sign?**

Glad you asked. These are not normal times and our

### ***CARL Continued from Previous Column***

volunteer certification process is in limbo. But, by the time you read this, we should have most of the kinks worked out. Please don’t let that delay your decision to volunteer with us. Contact the C.A.R.L. President, Jack Landon KD7ROB, via e-mail today at [jacklandon17@gmail.com](mailto:jacklandon17@gmail.com). Jack will get the ball rolling to have ASC approve you for volunteer service.

And, don’t forget, we always welcome licensed operators as visitors to ASC and the W7ASC ham shack. We’ll get you into ASC free and host you in the shack for a few hours, or the day. We think the experience will seal [the deal](#).

### **Still on the fence?**

Yesterday I (Sam Marshall, N7INV) had a very rewarding experience at W7ASC where I saw the effect of CARL’s mission. Upon my arrival I was greeted by a gentleman who had visited the shack in January 2020. Growing up in East Germany, he knew of ham radio & was really interested but never thought he would be afforded the opportunity to become one. Upon the reunification of Germany in the 1980’s he became a member of the German Air Force, spending some of his career in the US. He is now retired & living in Oro Valley, AZ. During the pandemic, his earlier visit to W7ASC launched his pursuit to become a ham. He currently holds a General license. His 10 year old daughter also became interested & now holds a Tech license plus she is fascinated by Morse Code!

73,  
de WB4ZSC Steve  
[vyix99@yahoo.com](mailto:vyix99@yahoo.com)  
480.570.1041

**ADAW**



**September 6th**

*Continued Next Column*



## Hamfest Calendar

25 September 2021 - **RST Tucson Fall Hamfest** - hosted by the Radio Society of Tucson will be held at Calvary Tucson Church, 8711 E Speedway 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 - All Shaded Spaces. Prizes/Door Prizes - NO VE Testing. Snacks Brought to You by BSA Troup 157. Talk-In Frequency - 145.250 FM Tone 156.7. 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](mailto:hkey073@gmail.com) for more information.

9- October 2021 - **Arizona QSO Party** - sponsored by the Amateur Radio Council of Arizona and the American Radio Relay League. Objective - AZ stations work everyone - Non-AZ stations work only AZ stations. Multiple entry categories. For more information, see the flyer included with this month's ADAW or visit the web site at [www.AZQRP.org](http://www.AZQRP.org).

9 October 2021 - **OctoberFest** - hosted by the Scottsdale Amateur Radio Club will be held in the Fender Parking Lot (west), 17705 N Pacesetter Way in Scottsdale. Vendors Entrance is at 17700 N Perimeter Drive. Gates open at 7:00 AM - Vendor set up begins at 6:00 AM. NO OVERNIGHT PARKING PERMITTED. Admission is \$5.00. Vendors - \$20.00 for 2 spaces. Raffle prizes and hourly drawings. Refreshments and Snacks available. For more information, visit the web site at [www.scottsdaleARC.org](http://www.scottsdaleARC.org) or [Facebook.com/ScottsdaleARC](https://www.facebook.com/ScottsdaleARC). Questions? Contact Bill Kouchis at [n9eiv@scottsdalearc.org](mailto:n9eiv@scottsdalearc.org) (480.331.1370) or Ray Vasquez at [k4rmv@scottsdalearc.org](mailto:k4rmv@scottsdalearc.org) (602.363.4207). NO GUNS - NO DRUGS - NO ALCOHOL.

16 October 2021 - **Amateur Radio Tailgate ShowLow** - presented by Rick Gurk, W8YBM and Dennis Mills, WA7ZZT will be held at the ShowLow Masonic White River Lodge #62, 741 E Whipple Street in ShowLow. More information will follow. Contact [w8ybm18@gmail.com](mailto:w8ybm18@gmail.com) for 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](mailto:fest@copafest.org) or visit the website at [www.copafest.org](http://www.copafest.org).

### Hamfest Calendar Continued from Previous Column

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. (GPS: 34 06.292, 112 49.880) Mile Marker 263.8 Free Admission - Free Tailgate Sites & Vendor Sites (Pre-Registration Required - email to [djgrooms@yahoo.com](mailto:djgrooms@yahoo.com)). Overnight Full RV hook-up & dry camping - Register with North Ranch Escapees ([northranch@escapees.com](mailto:northranch@escapees.com)). Testing via LARC VE Testing - Must Pre-Register (email to: [cecarter39@yahoo.com](mailto:cecarter39@yahoo.com)). Prizes - ARRL Card Checking. Visit Web Site: [harkaz.org](http://harkaz.org). For more information, email Duane Grooms, KD0KYK - [djgrooms@yahoo.com](mailto:djgrooms@yahoo.com).

13 November 2021 - **Tucson Hamfest** - hosted by the Oro Valley Amateur Radio Club will be held at Marana Middle School, 11285 West Grier Rd in Marana. Gates open at 7:00 AM, closes at 1:00 PM. Admission is \$5.00 which includes a bottle of water. Children under 12 with a paid adult and students with any Arizona school ID are free. Sellers spaces are \$10.00 per space and includes seller's admission. Indoor VE Session with pre-registration preferred, but not required. Send an email to pre-register (email [licensing@tucsonhamradio.org](mailto:licensing@tucsonhamradio.org)). Interesting Seminars - ARRL Card Checking and LOTW Assistance at ARRL Booth - Food Truck for Breakfast and Lunch. Contact [hamfest@tucsonhamradio.org](mailto:hamfest@tucsonhamradio.org) for more information. Visit the website at [www.tucsonhamradio.org](http://www.tucsonhamradio.org).

4 December 2021 - **Superstition Superfest** - hosted by the Superstition Amateur Radio Club will be held at Superstition Springs Center, 6555 E Southern Ave in Mesa. Hours are 7:00 AM to 3:00 PM. Prizes, Special Event Station, GOTA Station, Fox Hunts. Talk-In Frequencies 147.120 (+) 162.2 Hz and 449.600 (-) 100.0 Hz. Email [info@superstitionsuperfest.org](mailto:info@superstitionsuperfest.org) for more information and visit the web site for the latest details - [superstitionsuperfest.org](http://superstitionsuperfest.org).

15 January 2022 - **Thunderbird Hamfest** - hosted by the Thunderbird Amateur Radio Club will be held at the Glendale Nazarene Church, 5902 W Cactus Road, Glendale. Hours are 8:00 AM until Noon. General Admission - \$5.00 per person. Kids under 12 are free. Tailgating/Commercial Vendor spaces are \$10.00 per lined parking spot. Set up begins Friday after 5:00 PM and Saturday after 6:00 AM. VE Testing from 10:00 AM until 11:00 AM. Prizes - ARRL Card Checking - Seminars - Snack & Beverages. Talk-In Repeater - 147.040 MHz PL 162.2 - On-Site announcements - 146.56 MHz Simplex. For questions, email [hamfest@w7tbc.org](mailto:hamfest@w7tbc.org). Visit website at <http://www.tbirdfest.org/> for the latest information.

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](http://www.yumahamfest.org) for up to date information.

16 April 2022 - **April Hamfest at DeVry** - hosted by the Arizona Amateur Radio Club and the Arizona Red Cross Communications Club will be held at DeVry University, 2149 W Dunlap Avenue, Phoenix. Watch for details.



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

With Labor Day comes the unofficial end of summer. Our members have kept busy throughout the summer with projects to help further our EmComm focus. Some of our members, who are also Red Cross volunteers, have been supporting disaster responses for wildfires and flooding across the state. In the last couple of weeks, we have partnered with DEMA and Gila County Emergency Management to complete a damage assessment of those areas that were flooded following rains in and around the communities of Miami and Globe. Teams visited the homes and spoke with residents to ascertain the extent of the flooding damage and to offer assistance and referrals to residents whose homes were damaged.

In the Phoenix area, some of our members have been working to assemble “Go-Kits” that will be positioned at Red Cross offices around the state. We have several Icom IC-2100H 2-meter mobiles together with power supplies, mobile antennae and related accessories to allow for rapid deployment by Red Cross radio teams when needed. We are also working on two HF kits that will include a Yaesu FT-897, G5RV antenna, Signalink, power supply and accessories that can be quickly deployed when required.

At our regional office in Phoenix, we have added an AREDN® mesh node with a little help from some friends at the Arizona Mesh Organization. We also carry spare AREDN® mesh nodes on our Communications Van to be able to establish portable nodes at shelters or other sites when necessary. The AREDN® acronym stands for “Amateur Radio Emergency Data Network” and it provides a way for Amateur Radio operators to create high-speed ad hoc Data Networks for use in emergency and service-oriented communications. There are several nodes currently in service around the state including Mesa, Maricopa, Phoenix, Prescott and Wickenburg with more planned in the near future.

At our last meeting, we discussed a new VoIP tool that some of our members have been experimenting with. Hamshack Hotline (HH) is a dedicated Voice-Over-Internet-Protocol (VOIP) network that is free to amateur radio operators around the world. The goal of the Hamshack Hotline is not to replace the traffic that is carried over RF, but rather augment it when conditions are diminished or otherwise busy. We have successfully installed HH extensions in our radio room at the Red Cross in Phoenix and also in our Communication Van. HH

### *AzRCCC Continued from Previous Column*

relies on the internet to provide its service and once a phone has been connected to the service, it can be moved anywhere you have an internet connection, even wirelessly using a MiFi. This allows an operator to be reached at the same extension number no matter where in the world he or she may be. This allows us to perform some routine tasks like coordinating teams that might be working out of range of simplex or repeater coverage. While this is not something we would rely on in an emergency or disaster scenario, it does provide another channel of communications and can free up repeaters when coordinating tests or repairs that may require lots of back-and-forth discussions.

As we look to the fall, our K7ARC VE team is getting ready to resume monthly testing. Beginning October 2nd, and every first Saturday thereafter, we will be offering amateur radio license testing at the Phoenix chapter of the American Red Cross. This is in addition to the Arizona Amateur Radio Club’s test sessions held on the last Saturday of each month. Anyone looking to upgrade or earn a new amateur radio license can register for one of our free monthly sessions online by visiting our club website at [www.k7arc.org](http://www.k7arc.org).

We encourage any hams that are interested in Emergency Communications to check out the Arizona Red Cross Communications Club. We have members across the state and are always happy to welcome new hams and more experienced operators interested in learning how we support the Red Cross in Arizona and New Mexico. We have our general meeting on the second Tuesday of the month and also get together most Saturday mornings at the Phoenix chapter to test equipment and learn new skills. There are a few members in the Tucson area that are working closely with the Southern Arizona Red Cross chapter covering the southern counties in Arizona. For more information about our team, visit the Arizona Red Cross Communication Club’s website at [www.k7arc.org](http://www.k7arc.org).

# # #

**ADAW**



*Continued Next Column*

# 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.**

## September Test Sessions

**Sep 4th** - 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

**Sep 6th** - WVARC -- 6:00 PM  
Shepherd of the Desert Lutheran Church - Walton Hall,  
11025 N 111th Ave, Sun City  
Contact - David Morrill 623.215.2226  
No Walk-Ins / Register or Call Ahead

**Sep 7th** - ARRL Ham Radio Exams -- 6:00 PM  
Prescott Christian Church, 501 S Senator Hwy, Prescott  
Contact - J.M. Scherfling 928.632.2050  
No Walk-Ins/ Register or Call Ahead

**Sep 7th** - Oro Valley ARC -- 6:00 PM  
Town of Marana Community Room, 5100 W Ina Rd, Tucson  
Contact - David Beauchesne 520.639.8626  
No Walk-Ins / Register or Call Ahead

**Sep 11th** - NOMADS -- 10:00 AM  
Behind Church, 2228 E Brown Rd, Mesa  
Contact - Robert Bingham 480.404.1408  
No Walk-Ins / Register or Call Ahead

**Sep 13th** - East Valley VE Group -- 6:00 PM  
Charles K Luster Bldg, 640 Mesa Dr, Mesa  
Contact - Ray Vasquez 602.363.4207  
MUST obtain FRN prior to exam  
FACE MASKS ARE REQUIRED

**Sep 13th** - Radio Society of Tucson -- 7:00 PM  
Immanuel Presbyterian Church, 9252 E 22nd St, Tucson  
Contact - Diane Zimmerman 520.664.5070

**Sep 15th** - Thunderbird ARC -- 6:00 PM  
<https://www.ve@w7tbc.org> - See Website for Location  
Contact - Walter Reinert 602.668.7804  
No Walk-Ins / Register or Call Ahead

**Sep 18th** - Hualapai ARC -- 10:00 AM  
VE's Residence, 3571 E Lum Ave, Kingman  
Contact - Alyce Ingle 425.231.9173

**Sep 18th** - West Valley Electronic Club -- 9:00 AM  
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

**Sep 21st** - 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

**Sep 21st** - Boy Scout Troop 127 -- 8:00 PM  
St Francis Xavier Church - Anderson Hall,  
4715 N Central Ave, Phoenix  
Contact - John Kelly 480.823.8993

**Sep 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  
Pre-Register Required by the Thursday before







The Arizona Outlaws Contest Club has several committees, but the listing on the web page is out of date. Here is how it will look as we make changes.

**Committee Heads:**

- AOCC Ladder Competition: Dave Gilbert, AB7E
- Digital Contests (RTTY, FT8, etc.): Bob Epstein, K8IA
- Major DX Contests: Bob Epstein, K8IA
- Domestic Contests, all except QSO Parties (e.g., SS, NAQP, NA Sprints): Dave Hachadorian, K6LL
- IOTA Contests: Ray Benny, N6VR
- Needs of the Contest Newcomer: Empty
- Propagation: Jim Henderson, KF7E, Gary Hembree, N7IR
- QSO Parties: Chuck Zanella, KF7U, Captain; Andy Smith, KK7AC, Lieutenant
- VHF/UHF Contests: Gary Hembree, N7IR
- Log Submissions QA Reviews: Dick Zalewski, W7ZR, Chuck Zanella, KF7U
- Website Team: Mike Fulcher KC7V, Bob Epstein K8IA, Sandy Farley N7RQ, Owen Watson AK7W

We welcome Andy KK7AC who volunteered to help with the QSO Parties. Thank you, Andy! There is one empty spot for the Needs of the Contest Newcomer. Anyone want to volunteer?

We are getting close to the beginning of the fall contest season (it will be fall in some places just not our desert so quickly). The first big contest is the fairly new World Wide Digi Contest August 28-29. The big international contests are the CQ World Wide RTTY, CW World Wide SSB and CQ World Wide CW at the end of September, October, and November respectively. Don't forget there are many others on weekends between these three. Check out [contestcalendar.com](http://contestcalendar.com) for a full schedule.

Contest Tip this month – as you prep for a contest test everything BEFORE the contest begins. Many of us have learned the hard way by waiting to the last minute to set everything up only to find something is not working correctly. The first few hours of the contest are typically the best ones as everyone is excited and ready to operate. You will hate missing that time if you are troubleshooting.

Our members include elite contesters who have operated from many DXCC entities around the globe as well as beginners wanting to learn more and who may submit a score

*Continued Next Column*



My name is Gene Geller call sign K0VN and I've been appointed by the Scottsdale ARC board to provide information to Arizona Desert Aire Waves. My email is [gelle001@umn.edu](mailto:gelle001@umn.edu), phone number is 612-670-9358.

Our next meeting will be September 1st at 7:00 PM. This meeting will be held on Zoom.

The club has a weekly net on Tuesday evenings at 7:00 PM. This is held on the linked club repeaters, 147.180 / .780 162.2 HZ PL and 440.00 / 445.000 100HZ PL.

Recently our club secretary, Mike Childers K7URK, has resigned and the position is currently open.

The club is continuing to plan for the hamfest on October 9th. We currently have three prizes for the raffle, FTM 400, FT4, and FT70.

Due to COVID, our normal meeting space in the Scottsdale South Senior Center has been closed. This has forced the club like many others to online meetings. Let's hope this gets better soon.

Gene K0VN

**SARCCONSTANTS:**

**SARC 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.**



***AOCC Continued from Previous Column***

of only a few QSOs. We encourage all stations, big or small, to get on in ham contests and make contacts. There are excellent resources among club members and on our club website for contesting help.

We welcome all who wish to join the ham contesting/radiosport world.



ARA Daisy Mountain profile courtesy of Joe Godfrey

**Location** – Daisy Mountain Fire Station 145 at 11th Ave and Desert Hills Drive, New River

ARA this repeater began Operation Saturday, January 4, 2014.

**Latitude / Longitude:** 33.84301561034205, -112.08808331076662

**Elevation** – Approximately 1868'

The repeater is a Motorola XPR 8400 with a CDM used as the link control radio.

There is one repeater operating on 448.375 – 100.0Hz PL. Site is linked to MetroLink system.

**Antennas:** UHF DB products DB404 and Diamond X30a

When it was established at the original fire station, antennas were installed on the Cell / Microwave tower on January 4, 2014. A relocation of the antennas was complete by March of 2020. The initial antenna height was about 40' AGL, mounted on the cell tower, but has been relocated to the roof area of the fire house and is about 25' AGL.

**Redundancy Backup** – this site is on the Fire Department emergency generator for back up power

**Controller** - The radios are all controlled by one Link Communications RLC-4 Repeater Controller

Controller which allows radios to be interconnected as required.

This repeater went on the air with a joint effort between the Daisy Mountain Fire Department and the Arizona Repeater Association. It added coverage to Anthem and other parts of the north valley where Shaw Butte coverage lacked. It is linked full time to the Shaw Link system. The UHF repeater was installed vs. VHF due to space limitations and frequency availability.





## For Sale / Wanted



**LOOK!**  
**Great Deals!**

## For Sale

It has been a hard month for MMRG. First we lost Bill Herberg, K7RTH. Bill had been a MMRG member for about 25 years. Then we lost Lee Vaughn, K7ZHZ, who had been a member for five years.

We lost Peggy Williams, KD7AWU, and only the day after her funeral, we lost her husband, Mike Williams, KC7QKS. Both Peggy and Mike had been MMRG members for in excess of 22 years. Mike and Peggy were also former MMRG board members, as well as being very active in other MMRG social activities.



Bill, K7RTH



Lee K7ZHZ



Peggy, KD7AWU



Mike KC7QKS

On a lighter note we have a new member, Jerry McManus, KA7AG, of Sun City, AZ. Welcome, Jerry.

73,  
K7POF, President MMRG

**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](mailto: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](mailto:WestDL@aol.com) or 480.641.1480.

**70CM Yagi** - 70 CM Yagi, KLM model 440-16X. Gain 14.0 dBd, Broadbanded 420-450 MHz. Boom length - 10 ft, 3 in. \$50 including manual. Contact Erik Basilier K7TV at [ebasilier@cox.net](mailto:ebasilier@cox.net)

**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](mailto:hoskingb@cox.net) to arrange a meeting.

**Ham Home For Sale** - This beautiful home in Sun City West is perfect for amateur radio. The house features one very large bedroom, 1 and 1/2 bath, plus a large radio room. There is also a free standing one bedroom guest house with a kitchenette and bathroom. A 140 foot Glenn Martin tower with a 6 foot concrete base, a C-3 Force 12 rotating beam with hazer to crank down to roof level is included. House was built in 1989 in a Del Webb designated area for antennas.

Contact Flora Rutledge, WA0AAM at 623.975.0023 for more information.

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](mailto:kjenkins5623@gmail.com) or Jim Seay, WB7RBN at [wb7rbn@arrl.com](mailto:wb7rbn@arrl.com).





## TBARC Continued from Previous Column

you have a site in mind? Drop a note to [president@w7tbc.org](mailto:president@w7tbc.org).

Are you passionate about education?

The TBARC education coordinator position has been open for a while, and we really need to have someone who can set up training classes and schedule instructors. You don't need to be an Extra to coordinate the Extra class - but you do need to be organized and have a desire to help hams (including yourself!) learn. If you might be interested, we aren't going to say no to you! Let Charlie know at [president@w7tbc.org](mailto:president@w7tbc.org) - today's new hams need you!

### September meeting

Our September meeting will again be hybrid: in person at Arizona Christian University, or online with Zoom. Israel was still going through his Rolodex at press time... COVID has played havoc with his carefully-constructed schedule. The conference URL and details are on the TBARC website, [w7tbc.org](http://w7tbc.org). Join us and share the learning and conversation - in person at 59th Avenue and Greenway Rd or at the Zoom virtual meeting - it's your choice! Either way, we'll see you at the meeting!

Andrew Cornwall KF7CCC - [kf7ccc@arrl.net](mailto:kf7ccc@arrl.net)

TBARC has moved to hybrid meetings!

We're back at the school at 59th Avenue and Greenway, as well as presenting online in Zoom. What was once the Thunderbird School of Global Management is now Arizona Christian University - and our relationship with the school is very good, thanks to Charlie. July marked our first hybrid meeting, where Scotty WA2DFI presented a summary of what's been happening with the Tangerine SDK. As predicted, there were a few teething troubles. I know I had trouble finding the amphitheater on campus, and the clicker to advance slides seemed to have a built-in delay of about 20 seconds (sorry Scotty!), but we still enjoyed each others' company. Twenty-one of us at the meeting room itself, and another nine online with the Zoom meeting. As long as the school permits, we're looking forward to continuing with hybrid presentations.

### Repeater installed at Deer Valley

Thanks to a reinvigorated relationship with HonorHealth and a very helpful ham contact who's a new club member and also an ER doctor and a security pro, TBARC was able to do some much needed maintenance on the repeaters that are located at the hospitals. Deer Valley now has a new repeater operating on 145.330 (-600 kHz offset, 162.2 Hz tone). It's not yet linked to the rest of the TBARC repeater system, but is up and running. Give it a try. It needs the exercise!

### Help out at the hamfest!

If you haven't yet signed up to help out at the hamfest, now's the time! Rick is figuring out who goes where, so if you have a favorite position, let Rick know at [hamfest@w7tbc.org](mailto:hamfest@w7tbc.org) and you'll be sure to get what you want. Mark your calendars now: the 2022 TBARC hamfest will be happening on Saturday, January 15, 2022. See you then at the Glendale Nazarene Church, 5902 W. Cactus Road in Glendale. Keep an eye on [www.tbirdfest.org](http://www.tbirdfest.org) for updates.

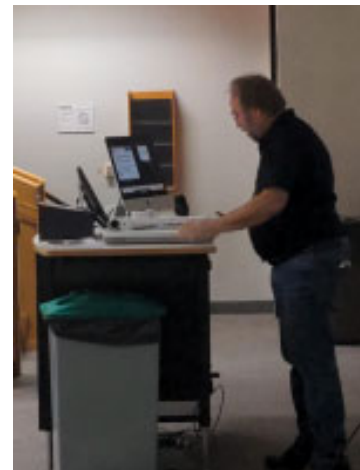
### Do you know good places to operate?

We've started to scout around for good places to operate ham radios. Particularly in the summertime, there's nowhere in the Valley that's really suited to gathering and making QSOs. So we're looking for somewhere that is family-friendly (has public bathrooms) and is not too warm. If it's got altitude and lets us operate generators overnight, that's even better. Do

*Continued Next Column*



Our Meeting Room



Scotty, WA2DFI



### ***Superstition Continued from Previous Column***

Our next club event will be our club camp-out in October. We will be out at Usery Mountain Park at the same place we had the Club picnic. It should be nice and cool by then, and we should be able to have a campfire where we will all hang out and tell lies.

This is a new club event, and we hope to have a lot of you there, especially because it is close to the valley and most folks should be able to come out and join us. Even if you don't stay all night, we hope everyone comes out for the lunch. Stay tuned to the radio and your emails for details. You will also find the information on the club website.

Speaking of getting together, the club will now be holding general meetings back at the City of Mesa Charles K. Luster building starting in August. So the first meeting will be August 17th. The door will open at 6:30 p.m. and the meeting will start at 7:00. The general meetings are all on the 3rd Tuesday of the month.

Also, further club events may be held at the St. Katherine's church where we held the June and July meetings. Some of those events may be the Club's Junque Auction, Christmas parties, and picnics.

73 for now and I hope to see you soon.

### **Club publication Article Submission deadlines:**

ADAW: Please submit information to this column by the 5th of this month, for next month's issue, to [Editor@us60.us](mailto:Editor@us60.us). ADAW will publish later this month. I also check my club email address for information at [WB7C@SuperstitionARC.org](mailto:WB7C@SuperstitionARC.org) before I start pulling this column together.

Communicator: Please submit articles by the 27th of this month, for next month's issue, to [Editor@SuperstitionARC.org](mailto:Editor@SuperstitionARC.org). Communicator will publish to club members early next month.

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

**ADAW**

### **Club Meetings Move Back to Mesa Again**

The club held its August meeting in Mesa at the Charles K. Luster Building, 640 N. Mesa Drive. If you can't make it in-person, the club will carry the meeting on Zoom. Members will be emailed a link. Others may request the link by emailing [President@SuperstitionARC.org](mailto:President@SuperstitionARC.org).

Visitors are encouraged to attend.

The side glass door by the main entrance opens at 6:30 PM, and the meeting starts at 7:00 PM (1900 hours).

### **Directions:**

From the south: Mesa Drive is Exit 180 on US 60. Go north to University Drive, then continue to the Sixth Street signal light.

From the north: Mesa Drive has intersections with McDowell, McKellips, and Brown roads. From Brown Rd, continue south to the Eighth Street signal light.

Continue from the signal light and look for the parking entrance on the west side of Mesa Drive, directly across from E. Royal Palms Drive

### **Club Picnic and Camp-Out, Friday – Sunday, Oct 22 – 24**

The event is open to active club members, and will be held at Usery Mountain Regional Park's Cholla primitive group campsite.

The park is located at 3939 N Usery Pass Rd, Mesa, AZ 85207.

The park charges \$7.00 per car for admission.

### **President's Corner**

*by Steve, KB7KWK*

I hope all of you had a good July. It sure has been a weird one this year, and one of the coolest that I can remember in a long time. It may have been one of the wettest as well. I am not complaining.

We had another great event this year at Organ Stop Pizza. We had 98 people there to listen to the great music, eat good pizza, and meet new people and put a face with the voice on the radio. The board handed out awards to deserving people as we always do at this event.

We had a new ham and a new club member there: Maximus, KJ7ZJY. He is only 16 years young and I believe he is our club's youngest member. I bet he was glad he attended the event. The club presented him with a new dual band mobile radio and antenna. I love giving out gifts to new members and new hams. I am sure Maximus is putting it to good use.

***Continued Next Column***



## Some Pictures from July at Organ Stop



### *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](http://www.superstitionsuperfest.org) for the latest information.





***KARC Continued from Previous Column***

Side Dishes or Desserts to go with it. A Fox Hunt will be held as well. That's always a fun time for all! This sums it up, Fun, Food, Fox Hunt and Friends!

October 2nd will be the Tour of the White Mountains Bike Ride. They can always use Volunteers for this. It's another chance to get some Air time and be of Service to the Community. Check it out to see where you can help as a Radio Operator.

October 12th Club Meeting will be time for Nominations for the 2022 Club Officers. Our Membership has really grown this last year. There will be many to choose from to fill those Nominations!

October 16th is the Amateur Radio Tailgate in Show Low. It's being put on by Rick Gurk W8YBM, w8ybm@cableone.net, Dennis Mills WA7ZZT, and Bobbye Mills KA7MIZ. Always a good time up here where it's cooler and pleasant! Come up and check it out!

We are enjoying our Summer up here and we wish everyone the BEST wherever your Callsign may take you!

Take care and be well,  
Tara KI7KLJ

It is Sweet September! Hello from the Kachina Club!

The branches on the fruit trees are hanging heavy with the ripening fruit. The apples are sure tasty if you don't mind them being a little on the green side still! The grass is tall in the yard, on the rolling hills and on the mountainsides. The domestic and wild animals are sure looking healthy, shiny and happy. It's been so great to be out and about and get On-the-Air with fellow Hams that are visiting in our area up here. It's a good time to be mobile with your Ham rig, driving around and seeing the sights. We are so happy to see everything dressed in the different hues of green everywhere, and well before the time of the frost!

Many people have experienced some flooding around the State, our hearts and prayers go out to those who have been affected by that destruction in any way. It's been a doozy!

We appreciate those voices we hear on the Radio that are friendly and can bring comfort to a long, hard day, or that makes the sky seem a much more deeper shade of blue and the sun shine much brighter when it's a great day, having a friendly QSO with another Operator!

The Testing Session that was held at Taylor in August brought these results:

- Drew M Bentley - Technician KI5RDB
- Stephen Kizer - Technician KK7AFY
- Gerald Gutz - General KJ7ZDD
- Donald Walters - General KJ7ZDE
- Donna Stanger - General KE7NOI
- Kim Jessup - General KE7WSF

CONGRATULATIONS TO ALL OF YOU! The next VE Testing Session up here will be Oct. 2nd.

The August Club Meeting was well attended, with 30 people showing up. Jim Mortensen W7AZY, our Club President, presented Bill Turley KJ7GYH with a Certificate of Appreciation for all of the hard work he put in as our Summer Field Day 2021 Committee Chairman. His work and many others that made the Field Day possible and a success was apparent. The weather was friendly enough and so were the Airwaves! Rick Paquette gave a nice power point presentation on some of the new changes to ARRL. That presentation can be found on our website.

Saturday, September 18th will be our Kachina A.R.C. Family Picnic/Meeting at the Beecroft Hangout. The Meeting will begin at Noon, followed by Lunch at 1:00 p.m. There will be Pulled Pork and lemonade. Everyone can bring a Potluck of

**ADAW**



*World Peace Day  
September 21st*

***Continued Next Column***



### *CADXA Continued from Previous Column*

Many of the prior CADXA programs are available for replay at: <https://www.youtube.com/channel/UC9nMKw-3r3ygdLWxsGcqV2A>

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. 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](mailto:cadxainfo@gmail.com) or me at [aa4q@arrl.net](mailto:aa4q@arrl.net) for details.

See you on Zoom for the September meeting.

73,  
Bill Poole, AA4Q  
CADXA President 2021  
[aa4q@arrl.net](mailto:aa4q@arrl.net)

Due to the ongoing situation with COVID-19, the September meeting will be held virtually using Zoom. The meeting will be Thursday night, September 3rd starting at 7:00 pm (0200Z). You can begin checking in at 6:30 PM and visit informally with other club members on Zoom until the meeting starts. At 7:00 PM, we will introduce our speaker and the presentation will begin. The club business meeting will be held after the presentation. Please turn off your computer camera and microphone when the presentation 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](mailto:aa4q@arrl.net).

September 2021 CADXA Presentation  
Speaker: Tom Whitted N7GP  
Topic: "A VHF Contesting Primer"

This month we are looking forward to a presentation from one of our own CADXA members. Tom Whitted, N7GP of Casa Grande will be giving us his presentation on VHF contesting. Tom is not only a member of CADXA but also a member of the Arizona Outlaws Contest Club. I am sure you will not want to miss his September 2nd presentation on Zoom at the meeting. Presentation starts at 7:00 PM MST or 0200 Z.

#### Bio N7GP

Tom was first licensed in 1967 as WN8WZG, and became the holder of his extra class ticket WA8WZG while living in Ohio. He also holds a First-Class phone ticket with a radar endorsement.

While in Ohio, Tom owned and operated a contest level VHF/UHF station. It was active on all modes from 6 meters thru 24 GHz, plus EME on 902 MHz, 1296 MHz, & 2304 MHz, obtainable on the web at: [WWW.WA8WZG.NET](http://WWW.WA8WZG.NET)

Tom is the only station to win all four major ARRL VHF/UHF contests, as well as the CQ WW VHF contests in the same year. He has also been a presenter at many central states' VHF & Microwave update conferences, as well as hosting a Microwave update in Sandusky, Ohio in 1997.

Tom moved to Arizona 6 years ago and obtained the call sign N7GP. He is currently active in HF contesting 160 meters thru 10 meters, as well as being a rover in all major VHF/UHF contests on 6 meters thru 10 GHz.

*Continued Next Column*

**ADAW**



**September 22nd**



*Emergency Communications Since 1961*

**SHORT SKIP**

## History of the West Valley ARC

Jim Rogers, N7YT

The original repeater committee consisted of Sam Lewbel W7JHQ, Stan Edgeton K8RAL, Tom Watts NY7S, Marty Shapiro KA7GKN, and George Hands KE7DH. They had the task of acquiring repeaters and getting them on the air.

In 1987, they obtained a Spectrum SCR-2000 to put on Boswell Hospital using the repeater pairing of 147.90 input and 147.30 output. This radio had an output of eight watts and did not have autopatch at the time. They used Don Starkey's call sign of K7NHR/R. This machine experienced intermod and interference over the next few years.

A second repeater came about in 1987 and installed on Del Webb Hospital using the pairing 145.29 output and 144.69 input and George Hands call of KE7DH. They used a Yeasu FTR-2410 with an output of 10 watts. Again, intermod and interference was a problem with this repeater as well.

With the issues they were having it was decided in 1993 to relinquish the 145.29 pair and retuned the Yeasu for 147.300 pair and it is still in use today. Although we have gone thru several different radios over the years. Currently, we have a Yeasu VXR-7000. In 2001, the club wanted to put a better antenna on the Del Webb repeater. So, 30 feet of Tower and a DB-224 was purchased, and after David Cain got all the FAA paper work approved, it was installed and remains there to this day.

After Tom Watts passed away, the club asked his son if it would be possible to get Tom's call to use on the 147.300 repeater, and he approved. So today we honor Tom by using NY7S on that repeater.

Our 70cm repeater was installed in 1991 on Boswell Hospital using 449.800/444.800 frequencies. Sam Lewbel lent his call for this repeater, but in 1992 after Sam passed away, they had to change the call to W7SHQ. Tom Watts obtained Sam's call in 1997 after the FCC had deactivated it. We still have that call today.



## Monthly Update

As our summer in the Valley of the Sun continues, we are continuing in-person club meetings. The regular club meeting is held the second Saturday of the month at 9AM. The meeting location from September on will be at the Chandler Tri-City Baptist Church. The church is located at the SW corner of Germann and S. Dobson roads. The church has rooms in the back, and that is where we will be located. Watch for temporary signage to direct you to the correct location. These in-person meetings are a welcome change for all, and we hope that they will continue. We have decided to discontinue doing both in-person and Zoom. It is not practical to view the monthly presentations with both modes. As always, check our website [chandlerhams.org](http://chandlerhams.org) for additional information. After the regular meeting a presentation of interest to Hams will take place.

Our Thursday evening net continues at 8PM. 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 Steve - KJ7UKA serves as the alternate. Both do a great job. Please 'check in' and see what it is all about.

Our new website continues to improve, with a great new look. You will find links to our meetings and the calendar gives other events as well. Please check it out! We have added information about upcoming Hamfests, including some we will be participating in. Copafest will be our first involvement this year in October.

VE testing continues at the Tri-City Baptist Church in Chandler at 10:00 AM on the first Saturday of the month. We are proud to say that we have continued the testing throughout the pandemic. Now we are able to increase the number of applicants due to changes in the building limits and additional test personnel. Please check our website for registration. Contact information is also given in this newsletter, and on the ARRL website. Slots are still booking fast but we do have access to an additional room going forward so check it out as need be.

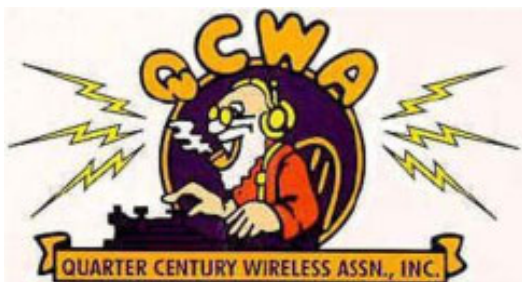
Mike – AA0MR  
President CHRC

**ADAW**

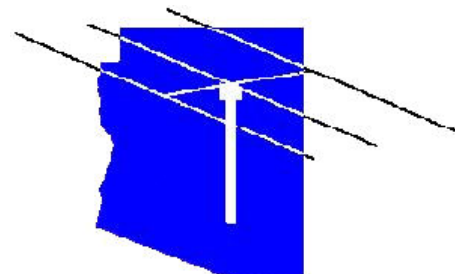
**ADAW**



*No Reports Received*



CHAPTER 16  
BARRY M. GOLDWATER ARIZONA CHAPTER



MARCA INC.





# HAM RADIO OUTLET

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### FTDX101MP | 200W HF/50MHz Transceiver

• Hybrid SDR Configuration • Unparalleled 79 dB Max. Attenuation VC-Tune • New Generation Scope Display 3DSS • ABL (Active Band Indicator) & MPVD (Multi-Purpose VFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



### FT-891 | HF+50 MHz All Mode Mobile Transceiver

Rugged Construction in an Ultra Compact Body • Stable 100 Watt Output with Efficient Dual Internal Fans • 32-Bit IF DSP Provides Effective and Optimized QRM Rejection • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control



### FTM-400XD | 2M/440 Mobile

• Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band



### FTDX10 | HF/50MHz 100 W SDR Transceiver

• Narrow Band and Direct Sampling SDR • Down Conversion, 9MHz IF Roofing Filters Produce Excellent Shape Factor • 5" Full-Color Touch Panel w/3D Spectrum Stream • High Speed Auto Antenna Tuner • Microphone Amplifier w/3-Stage Parametric Equalizer • Remote Operation w/optional LAN Unit (SCU-LAN10)



### FTM-300DR | C4FM/FM 144/430MHz Dual Band

• 50W Reliable Output Power • Real Dual Band Operation (V+V, U+U, V+U, U+V) • 2-inch High-Res Full Color TFT Display • Band Scope • Built-in Bluetooth • WIFES-X Portable Digital Node/Fixed Node with HRI-200



### FT-70DR C4FM/FM 144/430MHz Xcvr

• System Fusion Compatible • Large Front Speaker delivers 700 mW of Loud Audio Output • Automatic Mode Select detects C4FM or Fm Analog and Switches Accordingly • Huge 1,105 Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging



### FT-991A | HF/VHF/UHF All Mode Transceiver

Real-time Spectrum Scope with Automatic Scope Control • Multi-color waterfall display • State of the art 32-bit Digital Signal Processing System • 3kHz Roofing Filter for enhanced performance • 3.5 Inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



### FT-2980R | Heavy-Duty 80W 2M FM Transceiver

• Massive heatsink guarantees 80 watts of solid RF power • Loud 3 watts of audio output for noisy environments • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users



### FT-3DR C4FM/FM 144/430 MHz Xcvr

• High Res Full-Color Touch Screen TFT LCD Display • Easy Hands-Free Operation w/Built-in Bluetooth Unit • Built-In High Precision GPS Antenna • 1200/9600bps APRS Data Communications • Simultaneous C4FM/C4FM Standby • Micro SD Card Slot



### FT-65R | 144/430 MHz Transceiver

Compact Commercial Grade Rugged Design • Large Front Speaker Delivers 1W of Powerful Clear Audio • 5 Watts of Reliable RF Power Within a compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick Home Channel Access



### FTDX101D | HF + 6M Transceiver

• Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled - 70dB Maximum Attenuation VC-Tune • 15 Separate (HAM 10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



### FT-818ND | HF/6M/2M/440 All Mode Portable Xcvr

• Ultra-Compact/Portable • Multi-Color Easy to See LCD • 208 Memory Channels/19 Memory Groups • Built-in Electronic Keyer • Internal Battery Operation Capability • Two Antenna Connectors • Built-in High Stability Oscillator ±0.5 ppm



### FT-60R | 2M/440 5W HT

• Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations



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