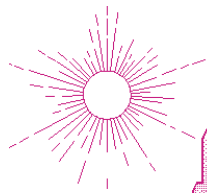


**ADAW**

10498 Monserrate St  
Elk Grove, CA 95757-1765



**ADAW**

**Arizona Desert Aire Waves**

**Vol 48 No 2**

**February 2023**

**CLUB MEETING SCHEDULE**

**SARC**

Feb 1st - 7:00 PM  
Via Zoom

**AARC**

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

**YARC**

Feb 2nd - 7:00 PM  
Prescott Rodeo Grounds

**TBARC**

Feb 16th - 7:00 PM  
Arizona Christian University

**CADXA**

Feb 2nd - 7:00 PM  
Bethany Luthern Church

**ARA**

Feb 23rd - 7:30 PM  
Denny's - Tempe & Zoom

**MARCA**

Feb 21st - 6:30 PM  
Via Zoom

**MARA**

Feb 4th - 9:00 AM  
Maricopa Public Library

**AzRCCC**

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

**SuperstitionARC**

Feb 21st - 7:00 PM  
Charles K Luster Bldg

**ANSR**

Feb 16th - 7:30 PM  
via GoToMeeting

**OVARC**

Feb 17th - 7:00 PM  
Mountain View Baptist Church

**ATN (VOAR)**

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

**CARL**

TBD  
Arizona Science Center

**WVARC**

Feb 6th - 7:00 PM  
Shepherd of the Desert Lutheran Church/Zoom

**AMO**

Feb 9th - 7:00 PM  
Via Zoom

**CHRC**

Feb 11th - 9:00 AM  
Tri-City Baptist Church

**KARC**

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

**SunLifeARC**

Every Monday - 10:00 AM  
Via Zoom

**QCWA-AZ Chapter**

TBD  
Various

**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	Randy Gault	KJ7RCN	
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 6:00 p.m. in Room 8 at the Granite Reef 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	n7ell@scottsdalearc.org
Vice President	Rick Aldom		natecf@gmail.com
Secretary	Bruce Harmsen	KA9EYX	ka9eyx@scottsdalearc.org
Treasurer	Douglas Mitchell	W7ADD	w7add@scottsdalearc.org
Past President	Paul Finell	W7EFQ	w7efq@scottsdalearc.org
Board Members	Jim Dye	AG7AU	
At-Large	Scott Gillins	W2KP	
	Bill Kouchis	N9EIV	
	Ed Nickerson	WU7S	
	Gene Geller	K0VN	

*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	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](http://www.ansr.org)*

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

## 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	Susan Gray	KK7FYB	president@w7tbc.org
Vice President	Aric Gray	AG7WR	vicepresident@w7tbc.org
Secretary	Andrew Cornwall	KF7CCC	secretary@w7tbc.org
Treasurer	Mike Willmoth	KJ7OPD	treasurer@w7tbc.org
Directors	Bruce Kabana	WB7SRC	wb7src@w7tbc.org
	Robert Lutes	N7NO	n7n0@w7tbc.org
	Gary McGriff	KK7DCR	kk7dcre@w7tbc.org
	Rick Tejera	K7TEJ	k7tej@w7tbc.org
Past President	Charles Loftus	KG7KRN	kg7kmf@w7tbc.org
Station 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](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.*

## K7ARC 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	Jerry Quenneville	K1GJQ	
Treasurer	Saroj Gilber	KM6BQD	
Past President	Frank Engstrom	KB7IQ	

*Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016. Web Site: [K7ARC.org](http://K7ARC.org) Email: [info@k7arc.org](mailto:info@k7arc.org)*

## 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	Cary Gielniak	K7CFG	president@copahams.org
Vice President	Dave Hagan	KK7FWJ	vicepresident@copahams.org
Secretary	TBD		secretary@copahams.org
Treasurer	George Hogan	K7TGH	treasurer@copahams.org
PIO:	Steve Miller	W6SDM	pio@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](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	KB7CN	
	Ken Rasback	KK7KEN	
	Tom Raczykowski	N7MMC	
	Sonja Hazlett	WB7CWW	
	Larry Dorrell	KG7TTD	

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	Kevin Parmenter	KG5Q	480.748.8182
Vice President	Bill Turley	KJ7GYH	923.536.2293
Secretary	Marie Mortensen	N7SKS	928.358.8748
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, 1343 W Broadway in Tempe (Southeast corner of Priest Dr and Broadway Rd - <https://www.w7ara.org/mtg/Meetings.aspx>). 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	Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Vice-President	Brian McCarthy, AK7F	ak7f@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
Lance Halle, KW7LH	kw7lh@w7ara.net
Joe Godfrey, AE7JG	ae7jg@w7ara.net
Joe Bakas, KE7WHE	ke7whe@w7ara.net
James Wasson, N7ELL	n7ell@w7ara.net
Bill Jackson, N9VJW	n9vjw@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 meets the **THIRD TUESDAY** each month at 7:00 PM: January through November at the Charles K Luster Building, 640 N Mesa Drive, Mesa. VISITORS are Encouraged to attend. Zoom is no longer available.

President	Steve Estes	KB7KWK	kb7kwk@superstitionarc.org
Vice President	Matt Churchill	K7YEG	k7yegt@superstitionarc.org
Secretary	Scott Simeon	KI7KIM	ki7kim@superstitionarc.org
Treasurer	Bryan Hubbard	KF7DPC	kf7dpc@superstitionarc.org
Directors:	Brent Butler	W7FK	w7fk@superstitionarc.org
	Jeff Harris	K2DFE	k2dfe@superstitionarc.org
	Jeff Heinze	N7CCW	n7ccw@superstitionarc.org
	JD Smaylis	KF7VOX	kf7vox@superstitionarc.org
	Doug Brown	AG7KU	ag7ku@superstitionarc.org
	John Jacques	KD8PC	kd8pcu@superstitionarc.org
	John Wolven	KG7NSP	kg7nsp@superstitionarc.org

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277.  
 Web Sites: [SuperstitionARC.org](http://SuperstitionARC.org) and [SuperstitionSuperFest.org](http://SuperstitionSuperFest.org).  
 For more information, send email to: [info@superstitionarc.org](mailto:info@superstitionarc.org).  
 The Superstition Amateur Radio Club, Inc. is a 501(c)(3) non-profit corporation.

# 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	Ray Vasquez	K4RMV	
Vice President	Tom Morrissey	KE7TM	
Treasurer	Norm Johnson	AA7OO	480.278.2886
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

We are finally back to in-person meetings! And we have a new location! The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. at Bethany Lutheran Church, 4300 North 82nd Street in Scottsdale. and we'll try to also share the meeting on Zoom. Most months we have a pretty interesting program or presentation. Visitors always welcome. See [www.cadxa.org/meetings.html](http://www.cadxa.org/meetings.html) for mor information. Contact club president for zoom link.

President	John Jolly	N7NWL	wa7nwl@gmail.com
Vice President	Virgil Silhanek	K7VZ	k7vz@arrl.net
Secretary	Temporarily Vacant		
Treasurer	Mike Wright	N7MW	n7mw@aol.com
Immed. Past Pres.	Bill Poole	AA4Q	aa4q@arrl.net
Directors	Ron Smith	N7RD	n7rd@cox.net
At-Large	Steve Protas	K7SP	sprotas@juno.com

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: [aa4q@arrl.net](mailto:aa4q@arrl.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](http://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](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	Ray Kolman	KI7COM	president@w7yrc.org
Vice-President	Mike Reid	WU7V	vice_president@w7yrc.org
Secretary	Tim Norton	K7PVY	secretary@w7yrc.org
Treasurer	Jane Lerette	K7ZHF	treasurer@w7yrc.org
Past President	Bill Noe	WG7W	
Board Members	Ron Levine		
	Debbie Kolman	KD7COM	
	Mike Schnell	NC7X	ka9cid@gmail.com
	Ron Shimek	W7WWB	
Past President	John Snedden	KT7P	

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 The Mountain View Church, 3500 W Overton Road in Oro Valley. (Monthly meetings are live-streamed.) Visitors are 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	Gary Pierce,	AE7GP	ae7gp1@gmail.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 at the Tri-City Baptist Church, Room 140, on the SW corner of Germann & Dobson Roads in Chandler. Our monthly club meetings are held in person. 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	Dave Hoffman	KJ4RS	pres@chandlerhams.org
Vice President	Debbi Smith	KJ7MIQ	vp@chandlerhams.org
Secretary	Cary Geilniak	K7CFG	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
Sec./Scheduling	Sam Marshall	N7INV	602.291.0992
Treasurer	Karen McConaghy	NO7D	602.799.7338
Station Engineer	Tom Boza	NE7X	602.499.6379
Board Members:			
	Tom Salt	AD7PM	At Large
	John O'Neal	K7JP	Teacher Packets
	Jerry Quenneville,	K1GJQ	ARCA Delegate
	Rusty Kinner,	WA8ZID	Satellite Ops

*Direct Phone: 602.716.2082 For information: 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 Thursday of the month at 10:00 AM as a Zoom meeting. 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 and at 8:00 PM. Please check our website (<https://westvalleyarc.com>) for other events and information.

President	Bill Ciccone	KA2KHV
Vice-President	Josh Cavender	KE7WIL
Secretary	Lee Ann Ciccone	KJ7AZR
Treasurer	Jeff Rogers	KD7KYE
Board Member:	Bob Runke	AB7RR
	Mike Stevens	K7BLT
	Frosty Oden	NQ1S
	Larry Johnson	WO7C

Committees:  
 Membership Krissy Larson KI7GJJ  
 Technical Advisory Frosty Oden NQ1S  
 Equip. Donations TBD  
 & Sales

*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 is a Snowbird Club and meets **EVERY MONDAY** at 10:00 AM from October through the end of April both in person and on Zoom at Greenfield Village, 111 S Greenfield Road in Mesa. 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	Ralph Towers, KA0CET	<a href="mailto:retowers@hotmail.com">retowers@hotmail.com</a>
Vice President	Jim Hood, K5TT	
Secretary	Greg Watkins, WB7VOK	
Treasurer	Cheri Goforth, KD7ZXD	<a href="mailto:treasurer.sunlifearc@gmail.com">treasurer.sunlifearc@gmail.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)  
Secretary: Robert Fridell, N3BZ [secretary@arizonamesh.org](mailto:secretary@arizonamesh.org)

### Board of Directors

Dale Schmidt, N7QJK [n7qjk@arizonamesh.org](mailto:n7qjk@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).

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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).*

## NORTHERN ARIZONA DX ASSOCIATION

The Northern Arizona DX Association is a small, but very active club in Flagstaff. We hold our monthly meetings the FIRST TUESDAY of each month via ZOOM at 6:00 p.m. MST (01:00 UTC). A ZOOM ragchew is held every Wednesday at 9:00 a.m. Visitors are welcome. Please e-mail President Mike at [michael-hanks@hotmail.com](mailto:michael-hanks@hotmail.com) to receive the ZOOM invite and password.

President: Mike Hanks, W7QS [michael-hanks@hotmail.com](mailto:michael-hanks@hotmail.com)  
Vice-President: Larry Gilbert, WB7EIJ  
Secretary: David Schaubert, NJ0W  
Treasurer: Ken Held, W7SS

*Website: [www.nadxz.com](http://www.nadxz.com). If you are interested in joining us, please read through our Bylaws (available on the website) and attend a club meeting or breakfast. A sponsor will be assigned to get you acquainted with our merry band.*



## THE AMATEUR'S CODE

### ONE

The Amateur is Considerate . . . He never knowingly uses the air in such a way as to lessen the pleasure of others.

### TWO

The Amateur is Loyal . . . He offers his loyalty, encouragement and support to his fellow radio amateurs, his local club and to the American Radio Relay League, through which Amateur Radio is represented.

### THREE

The Amateur is Progressive . . . He keeps his station abreast of science. It is well-built and efficient. His operating practice is above reproach.

### FOUR

The Amateur is Friendly . . . Slow and patient sending when requested, friendly advice and counsel to the beginner, kindly assistance cooperation and consideration for the interests of others; these are marks of the amateur spirit.

### FIVE

The Amateur is Balanced . . . Radio is his hobby. He never allows it to interfere with any of the duties he owes to his home, his job, his school, or his community.

### SIX

The Amateur is Patriotic . . . His knowledge and his station are always ready for the service of his country and his community.



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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

Greetings.

As I write this, Winter Field Day is fast approaching. It's January 28<sup>th</sup> & 29<sup>th</sup> this year. Sponsored by the Winter Field Day Association, this communications exercise allows amateurs to practice setting up in winter conditions. It is designed to increase preparedness for disasters and improve operating skills in less than optimal conditions. Of course in Arizona, freezing temperatures, snow, and ice aren't as much a concern as in other parts of the country - unless you're in the north country.

If this reaches you in time, think about taking part. You can find all the information, including rules and exchange information, on their web site - [winterfieldday.com](http://winterfieldday.com). Check it out and have fun!

This month we welcome a new club to the pages of ADAW. The Northern Arizona DX Association (NADXA) has decided to join the ADAW Family bringing news to their members and all our ADAW clubs. You can find information on the club on page 6 and in their first column on page 8. Please join me in extending a warm welcome to them.

There is no hamfest this month (February) due to the cancellation of the Yuma Hamfest. No news has been received as of yet on whether or not the event will be back in the near future. Hopefully it will return soon.

The Radio Society of Tucson will be conducting a Technician class license class beginning on February 2<sup>nd</sup> in the Witherspoon Hall at the Immanuel Presbyterian Church in Tucson. If you know someone who is looking to attend a class in the Tucson area, please pass the information along. Complete detail can be obtained by contacting Ken Lesniak at 520.572.3766 or email - [n7akl.ken@gmail.com](mailto:n7akl.ken@gmail.com).

Until next month -

73,  
Christine, N7PVL

ADAW



*Happy Valentines Day!*  
*February 14th*

## Silent Key



John Marshall, WA7BSR, became a silent key on November 21, 2022.

John was first licensed in 1965 and was a member of the American Radio Relay League (ARRL) for more than 10 years. He served as the Public Information Coordinator and Public Information Officer for the Arizona Section from 2014 until 2022.

John was the president of the QCWA Arizona Chapter from 2018 to 2020 and vice-president from 2014 to 2018. He was best known for the many photographs he took of the events throughout Arizona for the ARRL and Arizona clubs.

John served in the US Army from 1966 to 1969 in Bamberg, Germany as the Communications Chief. During his service, he established a MARS (Military Affiliate Radio System), was a Cryptography Custodian, and PIO Photographer.

John studied Industrial Science and Multimedia at Western Washington University graduating in 1973. His many occupations included Chief Engineer for Birchbay Broadcasting at KARI-AM and KERI-FM and Engineering Lab Manager for Tally Corporation where he was involved in the development of a line of dot matrix printers. Two patents were granted there. He was an Applications Engineer at Wyle Electronics and Hamilton Avent, the Distribution Sales Manager for Digital Equipment Corporation, President of M-Tech, and Senior Engineer for Verizon Wireless and Metawave.

John also found time to be an instructor in the Computer Network Technology program at Renton Technical College from September 1999 until August 2010. He said "Ninety-Four percent of students that take the CompTIA A+ exam pass on their first try."

John was an Advanced Square Dance Caller at Callerlab, the International Association of Square Dance Callers and an accomplished photographer. He was the owner of sound-photo.com for 57 years specializing in Wedding, Travel, and Portrait Photography. Even though he did not teach photography, he was always willing to share his knowledge and expertise with a beginner.

John and his wife Ana were big band enthusiasts. They could often be found at Iron Skillet in Glendale, AZ, whenever the community band of music teachers was playing there. They enjoyed sharing the music and dinner with friends.

Rest in Peace, my friend. You will be sorely missed.

N7PVL



The Northern Arizona DX Association is a very active club with DX chasing, contesting, and special events. One of our many special events includes one we created back in 2000, *Route 66 on the Air*. This one is now in its 23rd year and we are amazed at the world wide interest it has captured. It is held in September, and last year, it generated more than 80,000 QSOs! WOW!!

In February, we will be conducting our 3rd Pluto Discovery Anniversary special event (W7P).

Clyde Tombaugh discovered Pluto while working for Lowell Observatory in 1930. In 2020, Lowell decided they would create a 10-year count down to the 100th anniversary of the discovery of Pluto and asked the city and community, and our club, to participate.

Why our club? Well, back in 2015, Lowell Observatory and the City of Flagstaff were celebrating the 85th anniversary of the discovery and two of our club members attended their kick off meeting. We suggested operating from Lowell to tell the Ham world about it as a special event. It turned out so well with our thousands of contacts and more than 100 countries that Lowell wanted us to help out again!

BTW, a few years earlier, before the Pluto event, Doug Tombaugh (N3PDT), Clyde's nephew from Kansas City, called in on the air and worked NADXA member Bob, NF7E during the *RT 66 on the Air* special event! It was a great visit! Doug talked about his Uncle Clyde and his many personal telescopes.

Then a few years later when the Pluto SE came to be, Bob contacted Doug again and asked if he would like to come out and be a guest operator during the Pluto event? Doug's comment was "YES. I am packing!" Doug is now a part of our club and the annual Pluto SE working as W7P/0.

We will set up at Lowell Observatory on Feb 10th and operate daily through the 20th and use call sign W7P. Our operating hours at Lowell will be from 10:00 a.m. to about 6:00 p.m. We will be using our "heated" communication trailer (purchased from ARCA) now with three operating positions including SSB, CW, & FT8.

WE ARE ALWAYS LOOKING FOR EXTRA OPERATORS. If you would like to participate in the Pluto SE, let us know. More information at [www.nadxa.com](http://www.nadxa.com)

73 - Respectively submitted by  
Bob Wertz, NF7E - Past President NADXA  
ARCA's 2022 Ham of the Year  
928-600-6813

ADAW





Greetings from the Central Arizona DX Association!

Our December 1st meeting included a presentation on Remote HF Operations by Dan Quigley, N7HQ. Information included the use of FlexRadio, Elecraft, Icom, and Yaesu equipment in remote applications along with several remote client / server hardware and other peripheral equipment considerations. Topics ranged from 'how to get started' to more advanced aspects of remote interaction. The presentation is available on YouTube at <https://www.youtube.com/watch?v=x550L5wIfRo>.

On December 9th, CADXA members joined the Scottsdale Amateur Radio Club and MARCA in a joint banquet in the Eagles Buffet at Casino Arizona. Included with the good time and good food was a presentation on Advancements in Healthcare Electronics by James Wasson, PhD, N7ELL, from the Scottsdale ARC. Following the program, there were brief comments and award presentations by the Scottsdale ARC and CADXA.

At our January 5, 2023 meeting, the Central Arizona DX Association DX'er of the year for 2022 was awarded to Rick Spiegel, W0RIC, and the CADXA Presidential Service Award for 2022 went to Virgil Silhanek, K7VZ.

New Officers and Board members were elected at our January 5, 2023 meeting, and now includes -

President:	John Jolly, N7NWL	wa7nwl@gmail.com
Vice President:	Virgil Silhanek, K7VZ	k7vz@arrl.net
Secretary:	VACANT	
Treasurer:	Mike Wright, N7WM	n7mw@aol.com
Immed. Past Pres:	Bill Poole, AA4Q	aa4q@arrl.net
Director-at-Large:	Ron Smith, N7RD	n7rd@cox.net
Director-at-Large:	Steve Protas, K7SP	sprotas@juno.com

The CADXA website has been updated and can be viewed at: [cadxa.org](http://cadxa.org)

For information regarding CADXA or how to become a new member, please do not hesitate to visit our website or contact N7NWL at [wa7nwl@gmail.com](mailto:wa7nwl@gmail.com). For membership application, visit our website: [www.cadxa.org](http://www.cadxa.org).



*Continued Next Column*



I hope your 2023 is off to a good start. Happy New Year to everyone!

We are looking ahead to lots of ham radio events this year. Our regular Fall Hamfest is scheduled for Saturday, November 11, so circle that date on your calendars today.

Walt-AL7KE and Andreas-W1IXQ are working on scheduling a FoxHunt. Keep monitoring our website for more details. [www.tucsonhamradio.org](http://www.tucsonhamradio.org). We are also planning a spring outing. Stay tuned for more.

All of our repeaters are operating well. We hope the winter weather will be mild especially to our mountaintop Keystone repeater. We are always interested in learning more about other possible repeater sites around metro-Tucson. If you know of one, or have a contact, please send it to me at [W1SR@arrl.net](mailto:W1SR@arrl.net).

We are grateful for the ARRL grant which we received. Logan-KE7AZ is leading this effort to come up with some bullet-proof go-boxes. Thanks also to John Behrens-K7JWB for being the grant administrator.

Behind the scenes we are working on building a partnership with the K7UAZ club at The University of Arizona. Gerry-KK7HTF is also working on establishing a new club affiliated with OVARC at the Pima Community College. More details will be found here as things develop.

Please join us on our Sunday evening net. It happens every Sunday at 7:30PM local time on the Keystone Repeater. It is short and sweet and a good way to check out your station and equipment. Typically, the net is over in about 15 - 20 minutes.

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***CADXA Continued from Previous Column***



Outgoing President Bill Poole, AA4Q (left) presenting the 2022 Presidential Service Award to Virgil Silhanek, K7VZ (right) at the CADXA January 5, 2023 Membership Meeting:



### Meet the New Executives!

After some discussion and a little arm twisting, the board arrived at a new executive team. Taking on the role of president is Susan Gray, KK7FYB. Vice president is being handled by Aric Gray, AG7WR. Mike Willmoth, KJ7OPD is the treasurer. Andrew Cornwall KF7CCC remains as secretary. The remaining directors for 2023 are Bruce Kabana, WB7SRC, Gary McGriff, KK7DCR, Robert Lutes, N7NO, and Rick Tejera, K7TEJ. We've got a nice mix of enthusiasm and experience, and we're all looking forward to the coming year!

### Hamfest Thanks

Once again we held our hamfest at Haven Church. Thank you to everyone who attended! As I write this, we have yet to see how the day went - and most importantly the weather! But rain or shine, the only way this hamfest happens is thanks to our wonderful volunteers. Thank you to everyone who spent time in the parking lot, or at the club tables, or grading license exams, or arranging things like venue and payment systems behind the scenes. You are the force that keeps the club vibrant! We'll have news about the raffle winners in next month's ADAW, so stay tuned!

### VE Team Statistics

Speaking of our VE team, they've been hard at work, volunteering their time to administer ham examinations. Walt Reinert NJ8G reported the following statistics for the entire 2022 year. Sessions Held: 13, Applicants: 56, Successful: 57, Unsuccessful: 9. (Some applicants passed more than one test.) Congratulations to the VE team, and welcome to all the new hams of 2022!

### February Meeting

We'd love to see you at our next meeting! As usual, it's on the third Thursday of the month. The meeting will be hybrid: in person at Arizona Christian University or online with Zoom. As of press time, the speaker had not yet confirmed, so I can't announce it just yet - but I know it will be a good one! So check the website for the conference URL and Zoom dial in numbers. Or just join us in person at 59th Avenue and Greenway Rd. The choice is yours! Either way, we'll see you at the meeting!

Andrew Cornwall KF7CCC - kf7ccc@arrl.net

## Hamfest Calendar

18 March 2023 - **Scottsdale Springfest** - hosted by the Scottsdale Amateur Radio Club will be held in the Fender Musical Instrument Parking Lot, 17705 Pacesetter Way in Scottsdale. Vendors should enter at 17700 N Perimeter Drive. Gates open at 7:00 AM (6:00 AM for vendor set up). Admission is \$5.00 per person and vendor spaces are \$20.00 for two (2) parking spaces. There will raffle prizes, hourly drawings, and refreshments and snacks will be available, too. Talk-In 147.180+ MHz - PL162.2 Hz / 440.000+ MHz PL100 Hz / 443.575+ MHz PL100 Hz. For more information, visit the web site at [www.scottsdalearc.org](http://www.scottsdalearc.org). Questions? Email James Wasson or Bill Kouchis at [Hamfest@scottsdalearc.org](mailto:Hamfest@scottsdalearc.org)

25 March 2023 - **Tucson Spring Hamfest** - hosted by the Radio Society of Tucson will be held at Calvary Tucson Church, 8711 E Speedway in Tucson. Hours are 7:00 AM - 11:00 AM with seller set up starting at 6:00 AM. Admission and Parking are Free. Seller/Vendor spaces are \$10.00 per parking space. Seller spaces are shaded. Morning snacks provided by Scout Troop 157 and Pack 705. For map and morning information, visit the web site at <http://www.k7rst.org>

8 April 2023 - **April Hamfest at DeVry** - hosted by the Arizona Amateur Radio Club and the Arizona Red Cross Communications Club (K7ARC) will be held at DeVry University, 2149 W Dunlap Avenue, Phoenix. Watch for details.

6 May 2023 - **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(-) PL 162.2 Hz.

13 May 2023 - **Prescott Hamfest** - hosted by the Yavapai Amateur Radio Club will be held at Granville Elementary School, 5250 Stover Drive in Prescott Valley. Hours are 8:00 AM until 12:00 Noon. General Admission is \$5.00 per person. Full time students with student ID and those 16 years and younger are free. Swapfest spaces are \$10.00 each with a maximum of 3 spaces. Pre-registration for spaces is advised - [www.prescotthamfest.org](http://www.prescotthamfest.org). RVs, Campers, and Trailers will not be permitted due to limited space. Sorry - No guns, Drugs, Alcohol, Smoking, Vaping, or Fireworks. Only leashed animals are permitted. visit [www.prescotthamfest.org](http://www.prescotthamfest.org) for additional details

11 November 2023 - **Tucson Hamfest** - hosted by the Oro Valley Amateur Radio Club will be held in Marana. Watch for more details.

ADAW



YARC is one of the largest and most active amateur radio clubs in the southwest. Our home is in beautiful Prescott, Arizona, at an elevation of 5400 ft. Why not join us for one of our club meetings. All the info will be on our website, [www.w7yrc.org](http://www.w7yrc.org).



The 2023 Prescott Hamfest is currently in the planning stages. It is scheduled for Saturday, May 13, 2023 at the Granville Elementary School (as last year's event). See the early details including prizes and times at [www.prescotthamfest.com](http://www.prescotthamfest.com)

Back in November, YARC elected new officers for the 2023 year. President is Ray Kolman, VP is Mike Reid, Secretary Tim Norton and Treasurer Jane Lerette. Board members are John Snedden (past Pres), Ron Levine, Mike Schnell, Debbie Kolman and Ron Shimek. Welcome to all of our new and returning leaders.

License classes are back. And the schedule for 2023 is here.

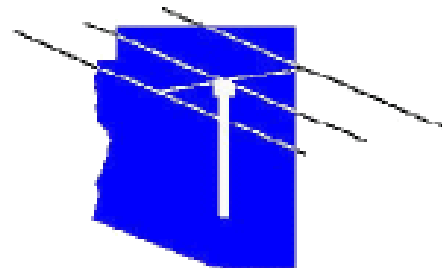
Technician Classes are February 25th, and March 4th, then September 23rd and 30th at the Jeep Posse Building 8:30 a.m. to 4p.m.

General Classes are April 22nd, 29th, and May 6th, then October 28th and November 4th, at Jeep Posse Building 8:30am to 4pm.

Amateur licensing tests are available in Prescott every month. Both YARC and our fellow licensing group "ARRL Ham Radio Exams" test on alternate months. YARC's next session will be on February 4, 2023. Pre-registration is recommended at [www.w7yrc.org/arrl-vec/](http://www.w7yrc.org/arrl-vec/). All test sessions for 2023 are now on the YARC website or the ARRL exams page on their site.

The Yavapai Amateur Radio Club has a 2-Meter and 70CM FM net dubbed the "1300 Net." It is held every week day (except Saturday & Sunday) at 1300 hours MST on 146.880 (PL of 100 Hz) and 447.650 (PL of 100Hz). These Linked repeaters have AllStar node 502370 and Echolink W7YRC-R.

*Continued Next Column*



MARCA INC.

We had an election in MARCA, and the results were not available in time for inclusion in the January ADAW. So, here's a list of the winners:

President: Ray Vasquez, K4RMV  
Vice President: Tom Morrissey, KE7TM  
Treasurer: Norm Johnson, AA7OO  
Secretary: Paul Bennett, KD7KDO  
Board of Director Member: David Yee, N7AJR

We've been having some issues with meeting place in recent months, so it's best to check our web page, [W7MOT.org](http://W7MOT.org), to make sure of the meeting place, as well as a link to attend via Zoom.

On a somewhat more personal note, I'm certainly glad that the traditional Field Day is held the fourth full weekend in June. For many years, MARCA has been scheduling our Field Day operation at the Gentry Campground at the base of Gentry Lookout Tower near Forest Lakes. I've been seeing reports of remarkable snowfalls at Forest Lakes! Due to my physical handicaps, I'd have to forego the event if it were in the winter.

I should also mention that one of the things I really appreciate about Ham Radio is that our community is very welcoming for people with physical disabilities. It's certainly rewarding to participate, and also heart warming to see how welcoming our community is.

Clark Jones, KI7TU

ADAW

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### *YARC Continued from Previous Column*

Other nets we conduct are:

Wednesday Night FM Net 7:00 PM

Friday Night 6 meter FM Net 7:00 PM

Saturday Coffee FM Net 9:00 AM

Details of all nets can be found on our website, [www.w7yrc.org](http://www.w7yrc.org)

Our public service events are back soon, beginning April 15, 2023 with the Whiskey Basin Trail Run and followed by the big Whiskey Off Road Bike Event on April 28, 29, and 30, 2023.

The Yavapai Amateur Radio Club meets at the Freeman Building at the Prescott Rodeo Grounds, 840 Rodeo Drive, Prescott, AZ 86305 on the first Thursday of every (almost) month, at 7:00 PM. Or, if you would like to join the fray via Zoom, the link can be found on the front page of our website, [www.w7yrc.org](http://www.w7yrc.org)

Remember; BE RADIO ACTIVE!

# 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). An FCC-issued FRN number is required. If you do not have an FCC-issued FRN number, visit <https://apps.fcc.gov/coresWeb/publicHome.do> to obtain one. 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 an exam 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.

## February Test Sessions



**Feb 4th** - Chandler Ham Radio Club -- 10:00 AM  
Tri-City Baptist Church, 2211 Germann Rd, Chandler  
Bldg D, Room 170  
Contact - Byron Garranbrant [ve@chandlerhams.org](mailto:ve@chandlerhams.org)  
Walk-Ins Allowed / Registration or Call Ahead  
Register at: [chandlerhams.org/testing/](http://chandlerhams.org/testing/)

**Feb 4th** - K7ARC VE Team -- 10:00 AM  
American Red Cross, 4747 N 22nd St, Phoenix  
Contact - Brandi Bridges [VE.Testing@k7arc.org](mailto:VE.Testing@k7arc.org)  
No Walk-Ins / Register at [k7arc.org](http://k7arc.org)

**Feb 4th** - Yavapai ARC -- 9:00 AM  
Jeep Posse Bldg in Pioneer Park, 1200 Commerce Dr, Prescott  
Contact - Donald Bauer 928.775.4690  
Pre-Reg online at [www.w7yrc.org](http://www.w7yrc.org) (Click on License Tests)

**Feb 4th** - Kachina ARC -- 9:00 AM  
Taylor/Snowflake Fire Dept, 425 Papermill Rd, Taylor  
Contact: Michael Abernathy 916.214.7300

**Feb 6th** - WVARC -- 6:00 PM  
Shepherd of the Desert Lutheran Church-Walton Hall  
11025 N 111th Ave, Sun City  
Contact - David Morrill 623.680.5011  
No Walk-Ins / Call Ahead by Friday

**Feb 13th** - East Valley VE Group -- 6:00 PM  
Charles K Luster Bldg, 640 Mesa Dr, Mesa  
Contact - Ray Vasquez 480.696.1581  
MUST obtain FRN prior to exam - \$15.00 Exam Fee Cash Only

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

**Feb 15th** - Thunderbird ARC -- 6:00 PM  
Northwest Christian School, 16401 N 43rd Ave, Phoenix  
Enter Gate 9, Room 423  
Contact - Walter Reinert 602.668.7804  
No Walk-Ins / Register or Call Ahead

**Feb 17th** - Oro Valley ARC -- 5:30 PM  
Mountain View Baptist Church, 3500 W Overton Rd, Tucson  
Contact - David Beauschesne 831.345.3308

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

**Feb 18th** - 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

**Feb 21st** - Boy Scout Troup 127 -- 7:00 PM  
St Xavier School, 4715 N Central Ave, Art Room, Phoenix  
Contact - John Kelly 480.823.8993

**Feb 21st** - Hassayampa AR Klub -- 2:00 PM  
Escapes North Ranch, 30645 S Wandering Way, Congress  
Contact - Charles Carter 316.651.7710  
Call for test and location Info

**Feb 21st** - MARCA ARC -- 5:00 PM  
Denny's Back Room, 825 S 8th St, Tempe  
Contact - Ray Vasquez 480.696.1581  
MUST obtain FRN prior to exam - \$15.00 Exam Fee Cash Only

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



Led by Chuck, KF7U, AOCC has moved our reflector to groups.io. This gives us more features such as attachments. If you are an AOCC member, and have not received an invite, reach out to Chuck at [Chuck\\_KF7U@outlook.com](mailto:Chuck_KF7U@outlook.com)

Happy New Year to all. Where does the time go? Personally I am working to get the rest of my tower up and some antennas up higher in the air. Need to take advantage of these nice sunspot conditions. If you are not too active, you are missing opportunities. The 10m contest in December was fabulous. Been a while since I exceeded 1,000 QSOs in the 10m contest. Conditions should stay favorable (without big flares) for the upcoming ARRL DX Contests. Get in and participate.

AOCC is now sponsoring the two NAQP Single Op CW Assisted plaques. Speaking of NAQP –

The Potomac Valley Radio Club is pleased to announce they are sponsoring a new club competition for the North American QSO Parties - the NAQP Online Scoreboard Club Challenge (NOCC). This competition is open to all clubs. The only requirement is to post your individual scores on the Contest Online Scoreboard ([contestonlinescore.com](http://contestonlinescore.com)) along with your club affiliation. Cumulative club scores will be tallied for all six NAQP events during 2023 and the winning club will be awarded a plaque.

The NOSCC club competition is not affiliated with the NAQP contests or its sponsors. Full details are in the attached announcement and at <http://pvrc.org/NOCC.html>.

As a reminder, you can find contest dates and links to rules by looking at [www.contestcalendar.com](http://www.contestcalendar.com). You can also check to see what dxpeditions will be on for DX contests at <https://www.ng3k.com/>.

Contest Tip this month – Receive antennas. Do you struggle hearing on 80/160 because of QRN? There are several inexpensive RX antennas you can build. Among them are the K9AY, the DHDL, the BOG (beverage on the ground), Flag, and pennant. You should protect your receiver RX input too, but having a quiet RX on the lowbands allows you to hear better. Might be worth a try for contesting and/or DXing. There is plenty of literature on all these via an internet search.

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*

## Public Service Calendar

### Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Pancake Run	Former Paradise Valley Mall	02/05/2023
Xterra McDowell Mtn Trail Run	McDowell Mt Regional Park, Fountain Hills	02/05/2023
Black Canyon 100K	Spring Valley to New River	02/18/2023
Lost Dutchman Marathon	Apache Junction	02/19/2023
Mesquite Canyon Trail Run	White Tank Park	03/11/2023
Xterra Black Canyon Trail Run	Black Canyon City	03/12/2023
ADA Tour De Cure: Arizona56	Goodyear	03/18/2023
Crown King Scramble	Lake Pleasant-Crown King	03/25/2023
Zane Grey 100K	Mogollon Rim, N. of Payson	04/22/2023
Mogollon Monster	Rim Country, E. of Pine	09/09/2023

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.



**February 20th**

#### ***AOCC Continued from Previous Column***

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

Here are a couple of AOCC accomplishments – AOCC Finishes #7 USA for the 2022 CQWPX (SSB+CW) Contests with 54,180,312 points from 51 entries.

AOCC finished #6 USA in 2022 CQWW 160 (CW+SSB) with 1,966,266 points from 32 entries.

I hope many of you will come to the Visalia DX Convention next April. We have a full slate of presenters, along with some fantastic prizes being given away. Registration is already open so consider joining us. It is a lot of fun and you get to meet many other contesters.

Keep posting your scores. We welcome all who wish to join the ham contesting/radiosport world.

73,  
Mike KC7V



### **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. The ham shack hours are essentially the same, dependent on availability of volunteer staff. You can also learn more about us by searching our W7ASC callsign on QRZ.com. Our Twitter feed can be accessed at [twitter.com/w7asc\\_arc](https://twitter.com/w7asc_arc). We hope to have our web page back up shortly.

Thomas NE7X

About a year ago, Thomas NE7X joined CARL and thus began a journey where he led the group's acquisition & installation of more modern gear to bring the station's capability in line with amateur radio's modern practices as mentioned in previous ADAW columns. Thomas has decided to move onto other adventures & CARL wishes him the best in these endeavors! We would sincerely like to thank him for the guidance, insight, & organization that he provided to CARL over the last year to make these improvements in W7ASC possible.

Music and Morse Code

I get to hear the initial Morse Code fist of many youngsters that stop by on their school field trips to the Arizona Science Center. Having played music for 60 years, I noticed that some of the participants take to the rhythm of the code more quickly than others. If they seem to have that knack, I will ask whether they play a musical instrument. More often than not, the response is "YES!" Violin, piano, drums, or guitar are the common responses to "What instrument do you play?" If they say they do not play an instrument, I suggest that they should consider it!

If you are interested in sharing your love of amateur radio with our interested & inquisitive visitors, then perhaps you would like to join the Center for Amateur Radio Learning and volunteer with us at W7ASC. If so, please contact Jack KD7ROB at [jacklondon17@gmail.com](mailto:jacklondon17@gmail.com).

73 de N7INV Sam - [w7asc.sked@gmail.com](mailto:w7asc.sked@gmail.com) - 602.291.0992

## **For Sale / Wanted**



**LOOK!  
Great Deals!**

## **For Sale**

### **For Sale - Military Tube Tester TV-7D/u**

Working. Very Clean. Recently updated and calibrated (May 2022) by Dan Nelson (an acknowledged expert). Can provide documentation and test report. Updated with Nelson's digital meter with plate current test button. Great for matching tubes. Built like a tank. Item dimensions 16"L x 9"W x 7"H. Weight 19 lbs. Located in North Central Phoenix, AZ.

\$1,300.00 (Or Best Offer)

Contact Wayne, KC9IC at 815.263.9329

### **For Sale - US Tower MA40 - 40 foot - 2 Sections**

includes: MARB Rotor Base, CX-2M 2 Coax Arms  
4 cement anchor bolts, 6-foot top mast  
All hardware, winches, and cables

\$1,000.00

(Current US Tower listing - \$6,560 including freight)

Located in 43rd Ave and W Bell Rd area of Phoenix

Contact Lee Weitzel K0CCU at 602.330.4840

**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.

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: TBD

**ADAW**



**ARA Continued from Previous Column**

**ARA History**

February 18, 1968 - ARA members installed a 2M antenna on the KOOL tower on South Mountain to support a new repeater installation under the call sign WA7CEM. Frequencies to be used were 146.94 / 146.34. The tower is located at 33.334°N 112.062°W at a height above average terrain of 1,654 ft. Several of the KOOL engineers were Hams.

February 1969 - ARA meeting conducted a transmitter hunt with 20 mobiles participating. Dave Cunningham, W7BEP, won with the shortest mileage and time. Dave was the winner of the Motorola “Handi-Talkie” first prize.

February 12, 1978, Sunday, the ARCA Winter Hamfest was held at South Mountain Park with over 500 in attendance. Temperatures for the hamfest were cold at Low 46’, High 59’

February 1997 - Jim Hoff reported that the Mt. Ord 147.36 repeater having a reduced range due to weather (ice/wind) damage to the repeaters antenna.

February 1998 - ARRL SW Division representative attends the ARA General meeting to present Lance Halle with plaque for his efforts related to interference management.

February 1998 - Tech committee braved the cold and snow to make necessary repairs to an antenna at Mt Elden.

February 1999 - ARA tech committee prepares for the new area code overlay plan which will include the 480 and 623 area codes. Ten digit dialing will be required on the ARA repeater auto-patch. Bank One will be the first site upgraded.

February 2003 - Members notified of pending Scottsdale construction for a planned site upgrade. The VHF and UHF will be off the air during the construction.

February 2013 - ARA approves purchase of repeater equipment to support the repeater installation at Daisy Mountain Fire Department.

**Meetings**

Join us at our next General Meeting in person or virtually. Our in-person meeting has recently moved to the Denny’s at Priest and Broadway. If you can’t join us in person, our ARA virtual meeting is the next best thing to being there without the food. Follow the link for more details. <https://www.w7ara.org/mtg/Meetings.aspx>. The March 2023 General Meeting will be a presentation on ARES and FirstNet by Brian, WB7OML

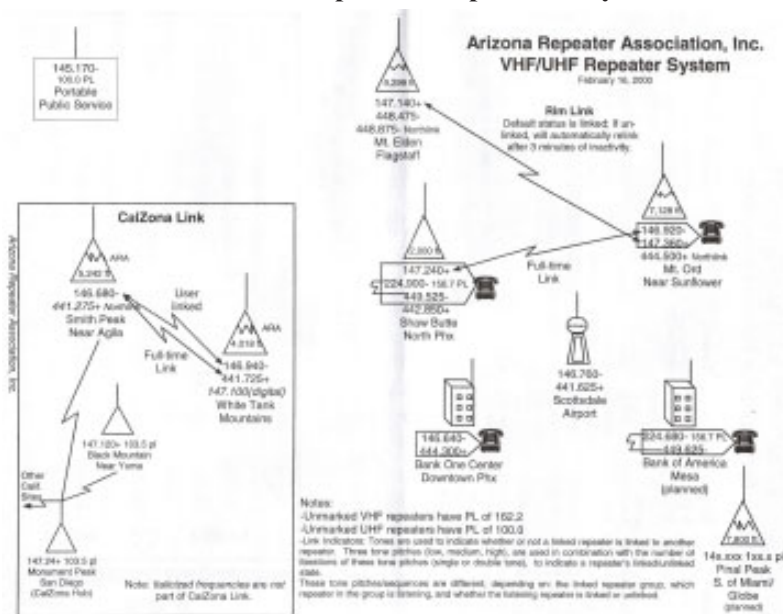
**Membership**

<https://www.w7ara.org/rcu/welcome.aspx>  
It’s time for annual renewal of your membership for 2023 supporting the ARA repeaters. Membership info is available at <https://www.w7ara.org/mbr/Membership.aspx> or send an email to [membership@w7ara.net](mailto:membership@w7ara.net).

**Tech Committee**

The Tech committee is always looking for interested members who are experienced or willing to learn about the ARA repeater system. Interested in knowing more details on how the ARA repeater system works? How the radios, controllers, filters, antennas, and power sources all come together to make the system? Have skills in assembly, soldering or installation? Contact Dennis Campbell [ae7wu@w7ara.net](mailto:ae7wu@w7ara.net) for more information.

**ARA Historical Repeater Map February 2000**



ARA Current Repeater Map - <https://www.w7ara.org/z/Repeaters.aspx>



## Rain Does Little to Dampen the SuperFest

Dave K7AV (From the SuperARC Communicator)

The weather forecast was gloomy, and the sky was overcast. But it takes more than that to keep hams away from the biggest hamfest in the state!

A full year's worth of planning and preparation culminated in the event running smoothly. While the weather threw us a curve, the club still turned a nice profit. We didn't make as much as if it were sunny and warm, but it was well worth all the effort.

In addition to the club booth and the usual array of vendors, we had booths from organizations including ARRL, Arizona Mesh Organization, the Arizona Repeater Association (ARA), and several others. The food vendor kept us supplied with coffee and donuts along with lots of other choices.

This year we were back at Maricopa Community College (MCC). Once again, we could have plenty of room for vendors, lots of parking, and an actual indoor classroom for the presentations.

As a bonus, the parking area was covered. I'm sure this was appreciated by those carrying their new purchases back to their cars after the rain started!

The classroom presentations were very popular, and included: RF Exposure Evaluation, presented by Bob Stephens W7BE; QRZ – Making the Most of the Site, by Fred Lloyd AA7BQ; Volunteer Emcomm in Maricopa County, by Michael Drapkin WB2SEF; Skywarn, by Austin Jamison; and Troubleshooting and Repairing Ham Radio Equipment, by Mark Carter KD7PHW.

As with past hamfests, John, KD8PC provided music. Unfortunately, he was cut short by the rain.

Planning for next year's event will begin soon. If the weather cooperates, it should be even better.

## SuperFest Grand Prize Winners:

1. Yaesu FT-991A goes to Paul W7EFQ; 2. ICOM ID-52A goes to Patrick KB7OM; 3. Yaesu FTM-400XDR goes to KJ7TET; 4. Connect Systems CS800D Plus also goes to Patrick KB7OM.

## January President's Corner

by Steve KB7KWK

Hello all. I hope all of you had a great Christmas and New Years. I want to thank everyone who helped out at the SuperFest. A special thanks to the committee who worked all year long to put on the event.

## Superstition Continued from Previous Column

This year we had News Channel 3 at the event. It was a great time. Having them there and airing the event brought out more radio amateurs. For some reason, a number of them did not know there was a hamfest that morning. Not sure how you could be a ham in this area and not know about our SuperFest. LOL. We advertised the heck out of this thing for a year. We even had someone who saw the news and brought out some equipment to donate. What a great time!

As far as I know, there were no complaints this year. We did have to cut out of there earlier than we ever did in the past. This was because of a storm that rolled through around 10:00 AM. As soon as the rain began falling, people started heading out. After looking at the radar, I decided to call the event before we really got slammed.

About thirty people stayed to see if they were the lucky winner of one of the grand prizes. We broke down everything and we were all out of there by 1:00 PM. We were all soaked and cold. Thanks to everyone who stayed to the very end.

In spite of the rain and short hamfest, the club still made enough money to pay for the event and made a little profit to add to the donations to the club. As we always say, it takes a lot of people to put on the event. Without the help of club members, we would not be able to put on the largest hamfest in Arizona. I hope to see that support again for 2023.

Sharon, KF7JTK will be the hamfest chairman for next year. She will need all the help she can get.

I want to thank all of you who came out to the club Christmas party. There were around 45 people there. It was great to meet some of you for the first time in person face to face. We had a lot of good food, told a few lies, and had a great time.

*(Editor's note: The remainder of the President's Corner discussed the "upcoming" January auction meeting. – WB7C)*

## Deadlines to Include Your Input in Our Publications:

We publish this column and the club Communicator newsletter. We welcome your input to both publications.

The Communicator: Please email [Editor@SuperstitionARC.org](mailto:Editor@SuperstitionARC.org) with your input by: January 27th. The Communicator will publish to club members in early February.

This publication: Please email [WB7C@SuperstitionARC.org](mailto:WB7C@SuperstitionARC.org) with your input by: February 5th. The March ADAW will publish to club members in late February.

73 – Larry Kuck WB7C for SuperARC's part of this ADAW.

ADAW





At our January meeting the Arizona Amateur Radio Club elected officers: President K7GH, Vice President W7WSV, Secretary KJ7RCN, Treasurer postponed until February meeting, Activities Manager WA7EDI. We also saw a sample of our new club badge to replace the ones that N7KKQ used to make for us and they look about the same. If you want a new badge, email KJ7RCN your information (first or nickname, call sign, mailing address) to [rgault2@cox.net](mailto:rgault2@cox.net). The cost of the badges will be covered by the club.



W7ISG, Ingrid, and K7RGG, Reinhard, gave us an introduction to the ARRL *Volunteer on the Air* program that is running now through the end of 2023. Check QST pages 77 and 78 for info. W7WSV, Steve, gave us info about handling traffic (radiograms) on digital modes. He shared info about the ORCA Digital Net that meets every Tuesday at 03:30 UTC on 3581 kHz. See <http://orcadigitalnet.com> for more info.

Our next test sessions are January 28 and February 25 at 10:00 AM at the Red Cross building. Register with K7GH by the Thursday evening before the session to take an exam.

The next club meeting will be on February 9 at 7:00 PM at the Red Cross Building.

73,  
Lori, WA7EDI

**ADAW**

**Superstition Continued from Page 16**

**Superstition ARC Repeaters**

<u>Output</u>	<u>CTCSS</u>	<u>Links To</u>	<u>Mode</u>
147.120 MHz +	162.2Hz	449.600*	FM Only
449.600 MHz -	100.0Hz	147.120*	FM Only
448.275 MHz -	100.0Hz	WIRES-X	Fusion

\* Also Links to Echolink Node: **WB7TJD-L**

\* Also Links to AllstarLink Node **52987**

**Club Nets**

**Morning Drive Time Net:** Mon-Fri, 7:00-8:00 AM - Trivia

**Club Net:** Wednesdays, 8:00 PM - Discussion, Elmer Q&A.

**Mesh Information Net:** Thursdays, 8:00 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

**SuperARC Merchandise Store**

<https://superARC.big3creative.com>

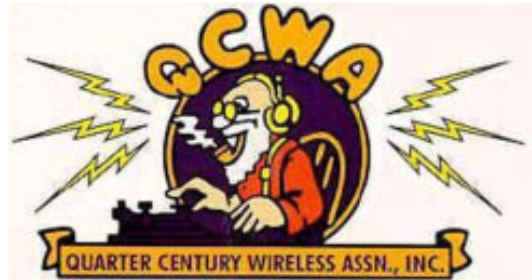
**Club Membership** is open to anyone with an interest in Amateur Radio. Visit: <https://superstitionarc.org> for more information.

**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.



**No Reports Received**



CHAPTER 16  
BARRY M. GOLDWATER ARIZONA CHAPTER



*Emergency Communications Since 1961*

**SHORT SKIP**



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



**SARC CONSTANTS:**

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.



# HAM RADIO OUTLET

WWW.HAMRADIO.COM

**Family owned and operated since 1971**



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

- Hybrid SDR Configuration • Upgraded 71 dB Max Attenuation vC-Tune • New Generation Scope Display 3DSS • AER (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



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

- Narrow Band and Direct Sampling SDR • Down Conversion, 5MHz 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 (SCL-LAN10)



### 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 16:9 Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



### FTDX101D | HF + 5M Transceiver

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



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

- Stable 100 Watt Output • 32-Bit IF DSP • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RIT/RTTY Control



### FTM-3000R | C4FM/FM 144/430MHz Dual Band

- 50W Output Power • Real Dual Band Operation • Full Color TFT Display • Band Scope • Built-in Bluetooth • WRCS-8, Portable Digital Mode/Fixed Mode with HRI-200



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

- 80 watts of RF power • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for various users



### FT-818ND | HF/VHF/UHF All Mode Portable Xcvr

- Ultra-Compact/Portable • 208 Memory Channels • Internal Battery Operation Capability • Two-Antenna Connectors • Built-in High Stability Oscillator ±0.5 ppm



### FTM-2000R | C4FM/FM 144/430MHz Dual Band

- 1200/9600bps APRS® Data Communications • 2" High-Res Full-Color TFT Display • High-Speed Band Scope • Advanced C4FM Digital Mode • Voice Recording Function for TX/RX



### FTM-400XD | 2W/440 MHz

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

### FT-700R 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-5DR C4FM/FM 144/430 MHz Dual Band

- 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 • Supports Simultaneous C4FM Digital • Micro SD Card Slot



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

- Compact Commercial Grade Rugged Design • Large Front Speaker Delivers 1W of Powerful Clear Audio • 3 Watts of Reliable RF Power/With in a compact Body • 3.5-hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick Heavy Channel Access



### FTM-6000R | 50W VHF/UHF Mobile Transceiver

- All New User Operating Interface-E2D-II (Easy to Operate-II) • Robust Speaker Delivers 3W of Clear, Crisp Received Audio • Detachable Front Panel Can Be Mounted in Multiple Positions • Supports Optional Bluetooth® Wireless Operation Using the SSM-BT10 or a Commercially Available Bluetooth® Headset



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

**YAESU**  
The radio

Happy February! Spring is almost here. HRO is your home to the latest gear at the best prices. We also have Gift Certificates when you are not sure what to get for those special occasions. The bands are OPEN so get "Radio Active" from everyone here at HRO PHX.

Now serving you at our Phoenix store:  
Manager Ron AJ7T, Mike K7DD, Bob W8RH, Richard K1RAB, Ira A17HC, Paul N0RWW, and Jim KE7EU.