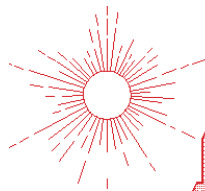


ADAW

10498 Monserrate St
Elk Grove, CA 95757-1765



ADAW

Arizona Desert Aire Waves

Vol 49 No 2

February 2024

CLUB MEETING SCHEDULE

SARC

Feb 7th - 6:00 PM
Granite Reef Senior Center

AARC

Feb 8th - 7:00 PM
AZ Red Cross Bldg

YARC

Feb 1st - 7:00 PM
Prescott Rodeo Grounds

TBARC

Feb 15th - 7:00 PM
Arizona Christian University

CADXA

Feb 1st - 7:00 PM
Bethany Lutheran Church

ARA

Feb 22nd - 7:30 PM
Denny's - Tempe & Zoom

MARCA

Feb 20th - 6:00 PM
Denny's Restaurant - Tempe

MARA

Feb 3rd - 9:30 AM
Maricopa Public Library

AzRCCC

Feb 13th - 7:00 PM
AZ Red Cross Bldg

AMO

Feb 19th - 7:00 PM
Charles K Luster Bldg

SuperstitionARC

Feb 20th - 6:30 PM
Red Mtn Center, East Mesa

CHRC

Feb 10th - 1:00 PM
Tri-City Baptist Church

ANSR

Feb 15th - 7:30 PM
Via GoToMeeting

NADXA

Feb 6th - 6:00 PM
Via Zoom

OVARC

Feb 16th - 7:00 PM
Pima Comm. College, NW
Campus

KARC

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

ATN (VOAR)

Postponed
www.whereby.com/atn1

QCWA-AZ Chapter

TBD
Various

CARL

TBD
Arizona Science Center

SunLife ARC

Every Monday - 10:00 AM
Via Zoom

WVARC

Feb 5th - 7:00 PM
Shepherd of the Desert
Lutheran Church/Zoom

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 for map. Visitors are welcome.

President	Gary Hamman	K7GH	480.216.2665
Vice President	Steve Tolnai	W7WSV	480.390.4446
Secretary	Randy Gault	KJ7RCN	480.329.1879
Treasurer	Dave DeBolske	WA7DGY	480.249.8286
Activities Mgr	Lori Cripps	WA7EDI	602.955.7517
Membership	Dave DeBolske	WA7DGY	480.249.8286

AARC c/o Dave DeBolske, WA7DGY, 2223 W Belmont Ave, #101, Phoenix, AZ 85021. 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	W7STS	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

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

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	Brandon McWhorter	KN6SEU	president@w7tbc.org
Vice President	Rick Tejera	K7TEJ	k7tej@w7tbc.org
Secretary	Don Cox	KK6NVN	bod@w7tbc.org
Treasurer	Joe Soublie	KG7COA	treasurer@w7tbc.org
Director 2023-24	Warren Gaspar	KC0GU	bod@w7tbc.org
Director 2023-25	Paul Veltman	W7OFG	bod@w7tbc.org
Director 2023-24	Mike Willmoth	KJ7OPD	bod@w7tbc.org
Director 2023-24	Bruce Kabana	WB7SRC	bod@w7tbc.org
Past President	Walter Reinert	NJ8G	nj8g@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 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.

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. Mailing address: P O Box 951, Maricopa, AZ 85139

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 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 Gielniak	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

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
 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	928.308.1164
Vice President	Tom Griswold	WN7E	
Secretary	Lori Cripps	WA7EDI	602.955.7517
Treasurer	Bob Sitterley	K7POF	928.636.2146
Board Members:	Gary Hamman	K7GH	
	Jerry Roberts	K7BUD	
	Ken Rasback	KK7KEN	
	Tom Raczykowski	N7MMC	
	Sonja Hazlett	WB7CWW	
	Larry Dorrell	KG7TTD	
	Ray Kolman	KI7COM	

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 Testing Info: White Mountain V.E. Team: VEtesting@cableone.net. Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: www.kachinaarc.org

ARIZONA REPEATER ASSOCIATION, INC

The Arizona Repeater Association general meeting is held the **FOURTH THURSDAY** of each month at 7:30 p.m. There are no meetings in July and December. The November meeting is held the Monday before Thanksgiving. Meetings are held at Denny's Restaurant, 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.

President	Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Vice-President	Marty Dusenberry, KE7DGP	ke7dgp@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
Brian McCarthy, AK7F	ak7f@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: \$20.00/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 6:30 PM: January through June at Red Mountain Multigenerational Center, Rooms 5 & 6, 7550 E Adobe St, East Mesa. VISITORS are Encouraged to attend.

President	Steve Estes	KB7KWK	kb7kwk@superstitionarc.org
Vice President	David Gardner	KC7MAD	kc7mad@superstitionarc.org
Secretary	Scott Simeon	KI7KIM	ki7kim@superstitionarc.org
Treasurer	Jack Sheldon	KN7Y	kn7y@superstitionarc.org
Directors:	Brent Butler	W7FK	w7fk@superstitionarc.org
	Ed Taggard	K7EDT	k7edt@superstitionarc.org
	Matt Churchill	K7YEG	k7yeg@superstitionarc.org
	Eve Glantz	W7EVE	w7eve@superstitionarc.org
	John Jacques	KD8PC	kd8pcu@superstitionarc.org
	Larry Fort	AB7C	ab7c@superstitionarc.org

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277.
 Web Sites: SuperstitionARC.org & superfest.superstitionarc.org
 For more information, send email to: 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. Denny's, 4403 S Rural Rd in Tempe (SE corner of Rural and US60) and 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 have finally returned to hybrid in-person meetings which include online Zoom capabilities. 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. We have a broad range of programs covering many aspects of amateur radio with an emphasis on DX-related. Visitors always welcome in-person or via Zoom. See www.cadxa.org/meetings.html for more information. Contact club president for zoom link.

President	John Jolly	N7NWL	wa7nwl@gmail.com
Vice President	Virgil Silhanek	K7VZ	k7vz@arrl.net
Secretary	Jim Charboneau	KC1BB	kc1bb.jim@gmail.com
Treasurer	Tom Boza	NE7X	ne7x@arrl.net
Immed. Past Pres.	Bill Poole	AA4Q	aa4q@arrl.net
Directors	Steve Thompson	N7TX	steve.n7tx@gmail.com
At-Large	Steve Protas	K7SP	sprotas@juno.com

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: wa7nwl@gmail.com. Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: www.cadxa.org.

YAVAPAI AMATEUR RADIO CLUB

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

President	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	Byron Wilkinson	KK7BFL	kk7bfl@w7yrc.org
	Debbie Kolman	KD7COM	kd7com@w7yrc.org
	Mike Schnell	NC7X	nc7x@w7yrc.org
	Ron Shimek	W7WWB	w7wwb@w7yrc.org
Past President	John Snedden	KT7P	kt7p@w7yrc.org

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

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 Email: info@k7arc.org

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 to receive the ZOOM invite and password.

President	Mike Hanks, W7QS	michael-hanks@hotmail.com
Vice-President	Harry Legrand, KK7IUJ	vicepresident@nadxa.com
Secretary	Keith Schlothman, KR7RK	secretary@nadxa.com
Treasurer	Ken Held, W7SS	treasurer@nadxa.com

Website: www.nadxa.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



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	Gary Malhoit	N4WU	
Sec./Scheduling	Sam Marshall	N7INV	602.291.0992
Treasurer	Karen McConaghy	NO7D	602.799.7338
Station Engineer	Rusty Kinner	WA8ZID	
Board Members:			
	Tom Salt	AD7PM	At Large
	John O'Neal	K7JP	Teacher Packets
	Jerry Quenneville,	K1GJQ	ARCA Delegate

Direct Phone: 602.716.2082

AMATEUR TELEVISION NETWORK

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

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

ATV Repeater Inputs: 434 MHz AM/DVB-T and 2441.5 MHz FM
 ATV Repeater Outputs: Phoenix - 1253.25 and 5910 MHz,
 Mesa - 421.25 and 1289.25 MHz, Tucson - 1277.25 MHz
 FM Repeater Outputs: Phoenix - 448.400 MHz PL 100.0,
 Mesa - 445.175 MHz PL 100.0, Tucson - 445.225 MHz PL 103.5
 DMR Talk Groups: 9410 "ATV Talk" and 31024 "ATN"

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

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

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

WEST VALLEY AMATEUR RADIO CLUB

The West Valley Amateur Radio Club, an Arizona 501(c)(3) non-profit corporation, has been providing emergency communications since 1961. Meetings are the **FIRST MONDAY** of each month at 7:00 PM at Shepherd of the Desert Lutheran Church, 11025 N 111th Avenue in Sun City. The board meets on the third Wednesday of the month at 7:00 PM on Zoom. 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	Bob Conlin	KJ7JNR	tallbob14@gmail.com
Board Member:	Bob Runke	AB7RR	
	Mike Stevens	K7BLT	
	Larry Johnson	W07C	
	Matt Browning	KK7CKE	

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

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 at the Greenfield Village RV Park, 111 S Green field Road in Mesa. We also gather every Thursday morning at Red Mountain Park.

Nets:

DMR Net: Monday at 2:00 UTC, Talk Group 31041
 20 M Net: Monday, Wednesday, & Friday, 14.329 Mhz SSB 19:30 p.m. UTC (18:30 a.m. UTC during daylight savings time).
 10 M Net: Tuesday & Thursday, 28.329 Mhz, SSB. 02:00 UTC.
 Also cross banded to KD8PC-L and AllStar 51772 on Tuesday nights.
 Venture Out: 2 M Net: Monday, Wednesday, & Friday, 20:00 UTC 146.460 MHz FM simplex

President	Jim Steinmetz, WX7G	steinmetzjb@aol.com
Vice President	Stephen Wagner, W7WHB	w7whb@arrl.net
Secretary	Roy Gager, KD7WRC	roygager@mac.com
Treasurer	Cheri Goforth, KD7ZXD	treasurer.sunlifearc@gmail.com

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



ADAW Member Clubs

AMO - ARIZONA MESH ORGANIZATION

The Arizona Mesh Organization (AMO) 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. **Board Meetings** are held the second Monday of each month on Zoom at 7:00 PM until approx. 9:00 PM. **General Meetings** are the **THIRD MONDAY** of each month at the Charles K. Luster Building, 640 N Mesa Drive in Mesa (a half mile north of W University Drive, west side of N Mesa Drive) and on Zoom. Doors open at 6:30; meetings are 7:00 PM until approx. 9:00 PM. **AMO Weekly Nets** are held the other Mondays at 7:00 PM on Zoom. If you need the Zoom link, please contact the AMO President at least 2 hours before the meeting at president@arizonamesh.org.

President:	Gary Hinton, AC7R	president@arizonamesh.org
Vice-President	Steve Estes, KB7KWK	vicepresident@arizonamesh.org
Treasurer:	Scott Gillins, W2KP	treasurer@arizonamesh.org
Secretary:		secretary@arizonamesh.org
Board of Directors		
	Tom Cloonan, NL7FQ	nl7fq@arizonamesh.org
	Michael Bailey, KI7LXY	ki7lxy@arizonamesh.org
	Charles Whitlatch, W7VF	wyvf@arizonamesh.org
	Bob Howard, W8RH	w8rh@arizonamesh.org
	Rod Fritz, WB9KMO	wb9kmo@arizonamesh.org

Web Site: <https://arizonamesh.org/> Email: info@arizonamesh.org
 DUES: \$25.00 per year. Membership year runs January 1 - December 31.

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.

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



ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at Northwest Campus, Pima Community College, 7600 N Shannon Road in Tucson. (Monthly meetings are live-streamed.) Visitors are welcome. Board Meetings are held the second Tuesday of every month at 7:00 p.m. via ZOOM. Check the web site at www.tucsonhamradio.org for dates.

President	Steve Wood W1SR	w1sr@arrl.net
Vice-President	David Beauchesne AK2L	ak2l@arrl.net
Secretary	Logan Zintsmaster KE7AZ	lrahnz@garlic.com
Treasurer	Beverley Hester WB7BEV	wb7bev@cox.net
Board Member	Fred Bresani W2HZ	w2hz@verizon.net
Board Member	Andreas Prorocok W1IXQ	teslarocks77@gmail.com
Board Member	John Behrens K7JWB	johnbehrens@comcast.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/>.



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.

ADAW Staff

PUBLISHER/MANAGING EDITOR

Christine Kesauer N7PVL 602.843.0960

AARC EDITOR

Gary Hamman K7GH 480.216.2665

AMO EDITOR

Robert Fridel N3BZ 610.577.6907

ANSR EDITOR

Steve Miller W6SDM 602.290.1603

AOC EDITOR

Mike Fulcher KC7V 480.522.4332

ARA EDITOR

Joe Bakas KE7WHE adaweditor@w7ara.net

AzRCC EDITOR

Charlie Zurenko N2TFS chazur@icloud.com

ATN EDITOR

Rod Fritz WB9KMO wb9kmo@gmail.com

CADXA EDITOR

Steve Thompson N7TX steven7tx@gmail.com

CAR EDITOR

Sam Marshall N7INV pdlstl@aol.com

CHRC EDITOR

Debbi Smith KJ7MIQ kj7miq@gmail.com

KARC EDITOR

Bobbye Mills KA7MIZ ka7miz@dmbam.com

MARA EDITOR

Cary Gielniak K7CFG cary.gielniak@gmail.com

MARCA EDITOR

Clark Jones KI7TU ki7tu@cox.net

MMRG EDITOR

Vacant

NADXA EDITOR

Ron Gerlak KG7OH 480.356.3663

OVARC EDITOR

Steve Wood W1SR nauset2222@yahoo.com

QCWA EDITOR

Carl Foster KB7AZ carlfoster@cactuscomm.net

SARC EDITOR

Gene Geller K0VN 612.670.9358

Sunlife EDITOR

Doug Ward K7AEZ dwardusa@gmail.com

SuperstitionARC EDITOR

Larry Kuck WB7C editor@us60.us

TBARC EDITOR

Mark Heroux N1MAE n1mae@arrl.net

WVARC EDITOR

Bob Conlin KJ7JNR tallbob14@gmail.com

YARC EDITOR

Don Bauer WB7TPH dbauer2250@aol.com

ADAW EMAIL

adaw@adaw.org

ADAW WEBSITE

www.adaw.org

The *Arizona Desert Aire Waves* is published monthly and is the official news media of the sponsoring clubs. All news items, articles and inquiries 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 all. Happy New Year! I know. I'm a month late. Hope everyone's start to a new year is going well.

It seems a bit odd not to remind you about the Yuma Hamfest this month. It was a wonderful event and lots of fun for all who attended. Fingers crossed that we'll see its return in the very near future. Keep happy thoughts!

We do have two events in Arizona this month. On February 17th, the West Valley Amateur Radio Club will hold its Ham Radio Swapfest/Tailgate. The event will take place in the south parking lot of the Shepherd of the Desert Lutheran Church in Sun City. Admission is free for buyers and lookers, tailgate spaces are \$10 each, and Vendor spaces are \$15 each.

Next is a new event - the GVARC Hamfest. The Green Valley Amateur Radio Club will hold their event at the Valley Presbyterian Church on Camino Del Sol in Green Valley on February 24th. Hours are 7:00 AM until noon. Admission is free and tables are \$5 which will go to the church. Refreshments will be available at this one.

Don't forget to mark your calendar now for the upcoming hamfests in March. Springfest will be returning to the Fender Parking lot in Scottsdale, and the Hamfest and Electronics Swap at DeVry will be moving to the last Saturday in March this year to coincide with the Easter break at the school. Both of these events are great and worth visiting.

For information on these hamfests and all the currently scheduled gatherings in Arizona, see the Hamfest Calendar on page 10 of this month's edition of ADAW. Visit the event web sites or email the contact listed for all the latest information.

I'd like to introduce Steve Thompson, N7TX who is joining the ADAW staff this month. Steve will be serving as the Central Arizona DX Association's (CADXA) club editor. His first column appears on page 17 of this month's edition. Welcome Steve. We look forward to reading all the news from CADXA each month.

Another addition to ADAW's staff is Doug Ward, K7AEZ. Doug is the editor for the SunLife Amateur Radio Club. His first column appeared in the January issue of ADAW. He'll be letting us know what the SunLife club is up to.

With the passing of Lori Cripps, WA7EDI, (long time editor for the AARC and MMRG clubs) in November, the position has been vacant. Gary Hamman, K7GH has stepped up and assumed the task for the Arizona Amateur Radio Club. The Mingus Mountain Repeater Group has not yet designated a replacement.

The ADAW staff and all our readers commend the club editors who tirelessly supply ADAW news of their respective clubs each month. It's great to read about each club and their activities both participated in and planned. Thank you for all your efforts.

73 until next month,
Christine, N7PVL

ADAW



AOCC Continued from Previous Column

good idea of grey line propagation, especially for potential long path openings. In a contest, this will be valuable in looking for a rarer multiplier. Make sure to take advantage of grey line propagation.

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 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.

AOCC accomplishments –

* In Club Competition, AOCC finished #7 USA with a score of 10,006,558 points from 21 Outlaw entries. Numerically our highest club total.

* AOCC finishes #6 USA with a final score of 84,399,013 points from 58 entries in the 2023 CQWPX Contests (SSB+CW). This is our highest score in this contest.

Please visit our website at www.arizonaoutlaws.net. We welcome any radio amateur with an interest in contesting – from cap gun to big gun – to join us.

See www.arizonaoutlaws.net/joinus.html for membership information. We welcome all who wish to join the ham contesting/radiosport world.

Keep posting your scores.

73,
Mike KC7V

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

Happy New Year. I hope 2024 brings you all huge contest success. The spring contest season is upon us with ARRL Contests and WPX contests coming. Time to prep for these and make sure you submit your scores for AOCC. We hope to see our ARRL club scores increase with the new 250 mile club circle, bringing in contesters who could not submit scores in the past based on the old ARRL 175 club circle. Perhaps we can jump up a place or two in these contests.

We are looking to make the ladder easier to manage. We will keep all the awards available on the ladder but cut down the number of plaques awarded to seven. We will offer downloadable certificates for the other awards. Still working out the details, but this allows the club to cut expenses rather than raising dues. We will consider an alternative to the ladder. If any of you have suggestions, please let me know.

Please think about holding a position on the AOCC board. John, N1JM, replaced Larry KE2VB, as secretary treasurer. We thank Larry for the tremendous job he has done over the years and thanks to John for stepping up.

As a reminder, you can find contest dates and links to rules by looking at 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 – Greylines

The “grey line” is a band around the Earth that separates daylight from darkness. Propagation along the grey line is very efficient. One major reason for this is that the D layer, which absorbs HF signals, disappears rapidly on the sunset side of the grey line, and it has not yet built upon the sunrise side. Contesters can optimize long distance communications to various areas of the world by monitoring this band as it moves around the globe. How do you watch for grey line propagation? There are several tools to do so. There is the original Geochron clock that is neat, but expensive. Geochron launched a software-based version that will run nicely on a 4k TV or monitor. A great addition to the shack. You can also try DX Atlas by VE3NEA. N1MM has a grey line map in the program you can use at no cost. Any one of these tools will give you a

Continued Next Column

ADAW



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 3rd - Chandler Ham Radio Club -- 10:00 AM

Tri-City Baptist Church, 2211 Germann Rd, Chandler
Bldg D, Room 170

Contact - Byon Garranbrant ve@chandlerhams.org

Walk-Ins Allowed / Registration or Call Ahead

Register at: chandlerhams.org/testing/

Feb 3rd - K7ARC VE Team -- 10:00 AM

American Red Cross, 4747 N 22nd St, Phoenix

Contact - Brandi Bridges k7arc.ve@gmail.com

No Walk-Ins / Register at k7arc.org

Feb 3rd - 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 (Click on License Tests)

Feb 3rd - Kachina ARC -- 9:00 AM

Taylor/Snowflake Fire Dept, 425 Papermill Rd, Taylor

Contact Vincent Cattolica 520.591.4576

Feb 5th - 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 / Register or Call Ahead

Feb 12th - MCC ARCKM7CC & East Valley VE Group -- 6:00 PM

Mesa Community College Bldg TC50, 1833 W Southern Ave, Mesa

Contact - Ray Vasquez 602.363.4207

Feb 12th - Radio Society of Tucson -- 7:00 PM

Immanuel Presbyterian Church, Witherspoon Hall
252 E 22nd St, Tucson

Contact - Diane Zimmerman 520.664.5070

Feb 16th - Oro Valley ARC -- 5:30 PM

Pima Community College, 7600 N Shannon Rd,
Bldg A, Room 108, Tucson

Contact - Steven Wood Steve.wood.tucson@gmail.com

Feb 17th - MCC ARCKM7CC & East Valley VE Group -- 10:00 AM

Mesa Community College Bldg TC50, 1833 W Southern Ave, Mesa

Contact - Ray Vasquez 602.363.4207

Feb 17th - 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

Feb 20th - Boy Scout Troop 127 -- 7:00 PM

St Francis Xavier School Common Rm, 4715 N Central Ave, Phoenix

Contact - John Kelly 480.823.8993

Feb 24th - 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



Hamfest Calendar

17 February 2024 - **WVARC Ham Radio Swapfest-Tailgate** - hosted by the West Valley Amateur Radio Club will be held at the Shepherd of the Desert Lutheran Church South Parking Lot, 11025 N 111th Avenue in Sun City. No Charge for Buyers & Lookers. \$10.00 per space for sellers - \$15.00 per space for Vendors. All items sold "As Is." Only leashed pets permitted. No Guns, Drugs, Alcohol or Fireworks. Contact: Rolf, KG0KM at 715.828.8860 or email: bignorsk@hotmail.com for more information.

24 February 2024 - **GVARC Hamfest** - hosted by the Green Valley Amateur Radio Club will be held at Valley Presbyterian Church, 2800 S Camino Del Sol in Green Valley. Hours are 7:00 AM until noon. Free Admission. \$5.00 per table with fee going to the Valley Presbyterian Church. Bring your own table, Chairs & Canopy. Refreshments Available. Visit the web site at www.gvarc.us for more.

16 March 2024 - **Scottsdale SpringFest** - hosted by the Scottsdale Amateur Radio Club will be held in the Fender Parking Lot, 17705 N Pacesetter Way in Scottsdale. Gates open to Public at 7:00 AM. Vendor Set up at 6:00 AM. Admission \$5.00 per person. Vendor Spaces - \$20.00 for 2 Parking Spaces - (Enter at 17700 N Perimeter Drive). Raffle Prizes, Hourly Drawings, Refreshments. Talk-In: 147.180+ PL162.2/440+ PL100/443.575+ PL100 South Mountain. For More info visit <http://www.scottsdalearc.org> or contact Bill or James at hamfest@scottsdalearc.org.

30 March 2024 - **Hamfest and Electronics Swap at DeVry** - hosted by the Arizona Amateur Radio Club and K7ARC AZ Red Cross Communication Club will be held at DeVry Institute, 2149 W Dunlap in Phoenix. Watch for more details. Email hamfest@k7arc.org for more information.

6 April 2024 - **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 more information, visit the web site at <http://www.k7rst.org>

20 April 2024 - **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. 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 for additional details

4 May 2024 - **Cochise Hamfest** - 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.

19-20 July 19-20 2024 (dates tentative) - **Flagstaff Hamfest** - hosted by the Northern Arizona DX Association. Grand Prizes, Hourly Prize Drawings, Tailgating, Lunch On-Site, Presentations, Inside Vendors, VE Exams, 2-Meter Talk-In. Watch for more details. For more information, visit the website at FlagstaffHamfest.org or NADXA.com/Events/Hamfest.org. Or send an email to: President@NADXA.com

Happy Valentine's Day!

ADAW



ADAW

February 14th



WISHING EVERYONE A HAPPY AND HEALTHY 2024! January is the time when many make plans for the year. What are your amateur radio plans for 2024? Perhaps this is a good time to consider a new mode of operating, POTA or joining another local club in your area. Support as many as you can.

After some unexplained issues at our Keystone Peak repeater site, we are back on the air. Many thanks to David – KCOLL for wrestling with the problems and getting things going again. Thank You! Thank You!

Have you renewed your commitment to your local club(s) by paying your 2024 dues? Now's the time. If you can support more than one club in your area, do it. They need your help too.

OVARC's annual meeting is coming up shortly. It is at this meeting where the membership welcomes a new board of directors to grow and make OVARC a fun club to experience. At our meeting we have four OVARC members making short-snippet presentations. Thanks to Walt, Fred, Joe and Paul for stepping up and sharing your expertise.

Many thanks to Wally - W7JCP for organizing an upcoming outing in January. Half of us will be drinking coffee and socializing and the other half will be attempting to rack up some contacts on the North American SSB QSP party. If you are visiting the area, check out our website for our location for the January 20th outing and please drop by and say hello.

Thanks to Tom – KK7OMV for maintaining our connections with local schools and scouting groups. With Tom's help we have arranged to demonstrate amateur radio at a Math & Science night at a local K - 6 school. These are always fun events for everyone. We have an additional event coming up in March at another school. We are always pleased to demonstrate amateur radio at these events.

Now is a great time to consider making plans to go to Hamvention this year. If you can get there, it's a fabulous event. It's also a great time to think about what your Field Day station will look like in June. No time like the present to get things ready.

73, Steve W1SR

At our January 11 meeting, we started making plans for the DeVry Hamfest that will be on March 30. The chairperson for it this year is Krissy Larson, KI7GJJ. Although not a member of AARC, she attended our meeting and shared information from a January 6 planning meeting, including a multi-page planning document. Let me or Krissy know if you can help at the hamfest on Friday afternoon for setup and/or Saturday morning during the event.

We had election of officers with all of last year's officers reelected except the Activities Manager is Ingrid Geissler, W7ISG. We also discussed the ARRL proposed change to the Code of Conduct for ARRL directors, vice directors, officers, and staff. We all agreed it amounts to a gag order that is not appropriate for a membership organization like ARRL. It prevents the leaders from discussing or revealing most things to members that happened in board meetings and other meetings. It is scheduled to be voted upon at the January 19-20 board meeting.

We continue to have VE Test Sessions on the last Saturday of the month at the Red Cross building. At our December 30 session there were two upgrades to General and one new Tech. If you or others want to take an exam, let me know not later than the Thursday evening prior to the Saturday session.

73,
Gary Hamman, K7GH

ADAW

ADAW



NADXA Continued Previous Column

2024 Feb14 - 2024 Feb24	Guyana	8R
2024 Feb17 - 2024 Mar03	Madagascar	5R
2024 Feb19 - 2024 Mar09	Wallis and Futuna	FW8
2024 Feb20 - 2024 Feb27	Mauritius	3B8
2024 Feb22 - 2024 Mar07	Temotu	H40WA
2024 Feb25 - 2024 Mar04	St Kitts and Nevis	V4

The NORTHERN ARIZONA DX ASSOCIATION is a DX club and so much more. We participate in contests, educational and special events, good will projects and we host the Flagstaff Hamfest. Our monthly meetings are on the first Tuesday of the month, at 6 p.m. MST. We use Zoom for our regular meeting and we also have a casual weekly rag chew on ZOOM at 9 a.m. every Wednesday where we talk about club projects, equipment, problems or whatever. Everyone is welcome to attend. E-mail president@nadxa.com for the Zoom links. We would really enjoy having you join us! For more details check out our club website. <https://www.nadxa.com/>

CONTESTS and SPECIAL EVENTS

CONTEST RESOURCES

The ARRL provides lots of good information on contesting and they sponsor 19 annual contests. See the link here for their calendar and more information. <http://www.arrl.org/contest-calendar>.

Another good source for contest calendars is <https://www.contestcalendar.com/>. This one has several calendars and include contests that are not sponsored by ARRL.



DX IS
 Hey – Don’t miss getting Clipperton Island in your log if you need them. They are #38 most wanted on the Clublog list and have not had a major DXpedition since 2013. See the TX5S web page for more details. <https://clip.pdxg.net/>



There will be lots of DX available and the CW guys will fill in some of those missing slots during this February 2024 contest. ARRL Inter. DX Contest, CW 0000Z, Feb 17 to 2359Z, Feb 18

ARRL VOTA

The NORTHERN ARIZONA DX ASSOCIATION had at least three members in the top 100 in Arizona VOTA. Two of them NF7E and W7SS were in the top 10. Check out the VOTA results on the ARRL web site. <https://vota.arrl.org/leaderboard.php>

You can find more info on these and other “Announced DX Operations” at: <https://www.ng3k.com/misc/adxo.html>



2024 Jan16 - 2024 Feb04	St Helena	ZD7Z
2024 Jan17 - 2024 Jan24	Dominica	J79
2024 Jan18 - 2024 Feb01	Clipperton I	TX5S
2024 Jan19 - 2024 Jan31	Aruba	P4
2024 Jan20 - 2024 Jan27	Chatham I	ZL7D
2024 Jan20 - 2024 Feb10	Morocco	CN2DX
2024 Jan21 - 2024 Jan28	African Italy	IG9
2024 Jan22 - 2024 Feb01	Indonesia	YB9
2024 Jan24 - 2024 Feb06	Maldives	8Q7WR
2024 Jan25 - 2024 Feb12	Yemen	7O2WX
2024 Jan28 - 2024 Jan28	Pitcairn I	VP6

SPECIAL EVENTS – QUARTZFEST DISTANCE CHALLENGE

By the time you read this the 2024 NADXA Distance Challenge held at Quartzfest will be history. The Quartzfest schedule included an off-road ride, hootenanny, daily seminars, antenna walk, a two day yard sale (ham radio stuff) and more than a dozen other events going on. The whole thing was free, free, free including the seven days of dry camping on BLM land. There were thousands of \$\$ in prizes given away. The Quartzfest always has lots of prizes and the NADXA Distance Challenge added prizes from Bioenno Power (batteries), The DX Store (in Chino Valley), Cable X-Perts, Inc., Heil Sound, N3FJP, DX Engineering, PreciseRF, MFJ, CQ Amateur Radio Magazine and new this year was a free drawing for a SteppIR PrepIR antenna valued at over \$1,800. To “top” it all off the NADXA awarded the Distance Challenge famous headgear to the winners and Runners-up. See the NADXA website for the winners photos and lots more information. <https://nadxa.com/>.

February

2024 Feb04 - 2024 Feb11	Vanuatu	YJ
2024 Feb06 - 2024 Feb20	Antigua and Barbuda	V26CV
2024 Feb10 - 2024 Feb18	Georgia	4L
2024 Feb10 - 2024 Feb24	Juan Fernandez	CB0ZA
2024 Feb10 - 2024 Feb28	Solomon Is	H44MS

Continued Next Column

Continued on Page 13



Don't miss it next year. Mark you 2025 calendar for the third week of January and watch <https://quartzfest.org/> for the exact dates and lots of more information.

PLUTO DISCOVERY

100TH ANNIVERSARY SPECIAL EVENT



Dates: February 10 – 18, 2024 and every February through 2030.

Each year in February on the last UTC Saturday before the 18th at 00:00 UTC (5:00 PM MST) and ending 9 days later on Sunday evening at 23:59 UTC (4:59 PM MST) we will hold this event celebrating the discovery of Pluto.

This year the set-up and operations start on February 10, 2024. We will be using our NADXA club trailer recently equipped with dedicated solar recharged LiFePO4 batteries and Heil Pro 7 headsets for all three stations, thanks to the ARRL Grant recently received by our club. The new furnace should be keeping us toasty warm. As always you are welcome to help set up and/or operate. Call ahead (Bob 928-600-6813) to reserve a time on the SSB, FT8 or CW station or just show up and we will work you in as best we can.

Come out and join us in the heated club trailer. You can operate or just see our set up and visit with us. Locations: Lowell Observatory, Flagstaff, AZ and at the home QTH of the NADXA members.

GUD DX and 73,
Ron Gerlak, KG7OH
Northern Arizona DX Association
NADXA Editor



For Sale / Wanted



**LOOK!
Great Deals!**

For Sale

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

Contact Richard Bruns, K7VQ at d_brunz27@yahoo.com

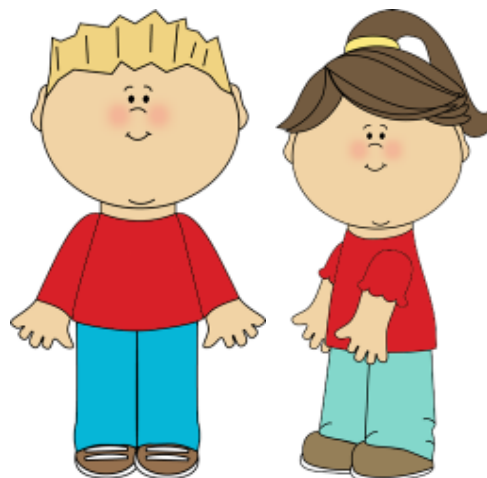
11.0/13.5 KW 120/240 V Predator Generator

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

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

Wanted

Looking for a set of "Spider" antennas. Contact John, K2AOP at k2aop@arrl.net or k2aop.7@gmail.com or by text to 480.991.0124



**National Wear Red Day - 2024
February 2nd**



YARC Continued Previous Column

station. Don't worry about being the new kid on the block, we will partner you up with an experienced operator to bring you up to speed. So, what event are you signing up for?

Know anyone who wants to get their Technician License? How about upgrades to the General and Extra License? Has YARC got a deal for you! We have two Technician Classes scheduled, one in March and another in September, and two General Classes scheduled, one in May and the other in November. The classes are held the first and second Saturday of the months listed. You can sign up and get registered by going to our website and click on the Join/Classes tab and scroll to the schedule. YARC now has three, yes, three VECs and teams to assist in obtaining or upgrading your license. We provide testing each month and can even work out special testing sessions for your group, class, or individual. All three groups are using online testing, however, we can do the paper tests if needed. So, what ticket are you looking for?

We are looking forward our Prescott Hamfest on April 20th at Granville Elementary School in Prescott Valley. Grand Prizes are a Yaesu FTDX10 HF/6M Hybrid SDR Transceiver, Comet CAA-500 Mark II Antenna Analyzer, and a Yaesu FTM300DR C4FM Digital Dual Band Mobile. Plus hourly prizes, a consignment booth, tailgate swapfest, VE testing, coffee and doughnuts, and whatever else we can work into the 0800 – 1200 operating hours. You can purchase Grand Prize tickets, register for the tailgate spaces, fill out a consignment booth request, and grab our flyer on our website, www.prescotthamfest.org or go to our club website, www.w7yrc.org and click on the Hamfest tab. So, what's on your Hamfest schedule?

Looking forward to another year of playing radio, bringing more people into the hobby, working in the community and just being Radio Active! Hope you are all off to a good start in 2024. My favorite holiday, well it should be a holiday, is coming up on the 2nd of February, you got it, Ground Hogs Day! That chubby four-legged critter is just about as accurate as the two legged ones we see on the news. Be safe, stay healthy and always be Radio Active! So, what is in your wallet?

73,
W7YRC

You just gotta love Winter. The new year begins, the temperature drops, the morning after the snow looks clean and fresh . . . 2024 is off to a great start up here in the Quad City area and the view across the Central Highlands after the first snow is one you just have to experience. Then you open the door to take that photo and the reality smacks you as the lens fogs up from the cold air, the wind slams the door shut and you hope you are not locked out for all to see.

YARC hasn't wasted any time bringing in the New Year either. We had our first meeting and presentation on Portable HF, followed the next evening by the W7YRC Station open house, and the day after that, the first T-Hunt of the year. Oh, and throw in a VE testing session, on tablets, and three new Technician Class hams left the room smiling. So, what's in your wallet?

About the same time ADAW comes out this month, Quartzfest 2024 should be running full speed ahead. A whole week of seminars, testing, antenna walkabouts, campfires, DX Distance contests sponsored by NADXA with killer prizes, SOTA activation, SSTV, off-road adventure, potluck dinner, nightly campfires, and all the fun you can have off the grid and in the dirt! Just a short drive from the valley and it is FREE! Check out their website at www.quartzfest.org and click on the schedule tab. The last day of Quartzfest is also the first day of Winter Field Day 2024 so this year is off to a great start and it is only January! So, what's on your list?

We are getting ready for the Public Service Events lined up from April through October up here in the Prescott area. If you have never worked a Public Service Event or there are not any opportunities in your area, take a minute and look at our website, www.w7yrc.org, click on the Public Service tab, and take a look at the dates and events for 2024. You do not need to be a YARC member to sign up for these events. If you are a part of a CERT group, ARES group, or a neighborhood preparedness group, you probably don't get a lot of RED time. RED stands for Real Event Drills. Public Service Events will give you the experience that weekly nets, check-in or roll call nets cannot provide you. The ability to react and work through situations that may arise during the event cannot be duplicated in a classroom or on a weekly net. You will improve your operating skills, develop new contacts, operate in some beautiful surroundings, and have that warm fuzzy feeling as the participants wave and say "thank you" when they pass by your

ADAW

Continued Next Column



YARC Continued Previous Column

Sue has served both as Vice-President and President. Sue with her husband (Chuck Rogers – W7CBB), teaches Ham Radio Classes and is a Volunteer Examiner. Currently, Sue is in charge of sending out important information to the club members. These includes: Health and Welfare of club members, ADAW Newsletters, Hamfests, Club Events, FCC Proposed Changes, Interesting Ham Radio websites, and much more.

Sue constantly volunteers for anything the club members ask for. Sue has a big heart and we are grateful she shares it with everyone. We can never say it enough, THANK YOU SUE, for all you do!



73

AMATEUR RADIO CLASSES

Want to get your Amateur Radio License or get your upgrade to General or Extra Class?

Dates: Tuesday, January 9, 2024 to Thursday, February 22, 2024 (exam date)

Every Tuesday and Thursday for a seven-week period

Time: 12:00 PM to 5:00 PM

Where: The Venture Out Resort – Electronics Building, 5001 E Main Street, Mesa, AZ 85205. Tell the Security Guard you are here for the Ham Radio Classes and they will let you in the gate.

We will be using the Gordon West books which are available on Amazon. Make sure to get the current Version as listed below:

- Technician Class - 2022 – 2026
- General Class - 2023 – 2027
- Extra Class - 2020 - 2024

For more info, contact Dick Vance at his email k7nex1@gmail.com

Note: If you are coming to the class a week or two late, don't worry; the instructors will help you catch up with the others.

Ham Radio in the Park

This is our outdoor weekly event at Red Mountain Park in Mesa, Arizona. Now that you have your Ham Radio License: Now what? Come spend some time with the Ham Radio Experts and we will help you out. Common discussions at the event: Make your first contact, Learn how to talk on the radio, How to set up a portable radio station, Solve problems with your antenna, How to build an antenna, and more.

Where: Red Mountain Park, 7745 E Brown Rd, Mesa, AZ 85207

Winter: Falcon Ramada West Side (across from the High School, off of Sunvalley Blvd)

Summer: Eagle Ramada East Side

When: Every Thursday Morning, from 7:00 AM to 10:00 AM

A Tribute to Sue Rogers – W7SKH

On November 27, The Sunlife Amateur Radio Club, honored one of our Most Valued Volunteers - Sue Rogers – W7SKH.

ADAW



**Chinese New Year
Year of the Dragon
February 10th**

Continued Next Column



Public Service Calendar

Maricopa County Emergency Communications Group Events

The Thunderbird Amateur Radio Club (TBARC) is a 503(c)(3) nonprofit club based out of AZ Christian University, Glendale, AZ, serving the Northwest area of Maricopa County since 1995 and has members from all over. TBARC is an affiliated Club.

Greetings and Happy New Year from Thunderbird Amateur Radio Club.

TBARC Elections, Officers for 2024

We want to thank the outgoing board and officers for their dedication and hard work. They have done a fantastic job keeping our club active during these challenging times. We also want to welcome the new board and officers who have stepped up to take on new roles and responsibilities.

TBARC's By-Laws state that the BOD comprises eight directors, a past president, and a club trustee. The club elects four directors to serve 2-year terms each year. The BOD meets before the start of the new year and elects the president, vice-president, treasurer, and secretary from BOD-elected members. The results of the November BOD elections were: Joe Soubie KG7COA, Brandon McWhorter KN6SEU, Paul Veltman W7OFG, and Rick Tejera K7TEJ were each elected to a 2-year term.

The new BOD, in the December reorganization meeting, elected the officers for 2024: Brandon McWhorter, KN6SEU President; Rick Tejera, K7TDJ Vice-president; Joe Soubie, KD7COA Treasurer; and TBD Secretary. We welcome 2024 officers and look forward to them improving our club.

TBARC Activities

2023 brought many changes to the Thunderbird club; we brought back things like our Spring and Fall picnics, had a field trip to the Titan Missile Museum, and did four Parks on The Air (POTA). The parks were 1.) K-4433 Agua Fria National Monument, 2.) K-8297 Miggins Mountain Wilderness Area, 3.) K-7382 Arlington State Wildlife Area, and 4.) K-4435 Sonoran Desert National Monument. As for this year, we will fit as many POTAs into our schedule as possible. The club will start off with Winter Field Day/ POTA on January 27th and 28th at Alamo Lake State Park, POTA Park K-1052. For February 18th, we are planning on park K-0177 Kofa National Wildlife Refuge. Since the start of Parks on The Air, I have not

EVENT	LOCATION	DATE
Xterra McDowell Trail Run	McDowell Mtn Regional Park - Fountain Hills	02/04/2024
Black Canyon 100K	Spring Valley to New River	02/10/2024
Lost Dutchman Marathon	Apache Junction	02/18/2024
PVGSRCC Evaluation Exercise	TBD A West Valley HS	03/14/2024
Xterra Black Canyon Trail Run	Black Canyon City	03/17/2024
Crown King Scramble	Lake Pleasant - Crown King	03/23/2024
Zane Grey 50 Mile UltraRun	Mogollon Rim N. of Payson	04/27/2024
AUXCOMM Class Interest	TBD	12/31/2024
Comt Class Interest	TBD	12/31/2024
RADO Class Interest	TBD	12/31/2024

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

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

ADAW

TBARC Continued Previous Column

seen this much activity on the HF Bands in years, so you should check it out and have some fun again.

Monthly Meeting

Enjoy monthly presentations on all aspects of ham radio and radio communications at our monthly meetings. Members enjoy the opportunity to meet other hams to discuss the hobby, ask questions, and the opportunity to contribute to the hobby on a local level. Meetings are welcome to everyone interested in the hobby. The Meeting is held on the third Thursday of the month at the AZ Christian University, Glendale, in Building 3600 Auditorium #1 and via ZOOM (meeting ID 824 5152-5997- Code 446150) for more info see <https://www.w7tbc.org/monthly-general-meeting/>

Continued Next Column



CADXA Continued from Previous Column

CADXA's end of year Annual Awards Banquet is the pinnacle of socializing and recognition for club members. At this year's Awards Banquet, the membership was treated to a fantastic program presented by Bob Davies, K7BHM. As one of the club's earliest members, Bob told our story from the early days in the 1970s when a small group of local hams bonded over their love of chasing DX and decided to help one another find, work, and confirm the most elusive DX. That small group of hams grew into one of the more successful and influential DX organizations in the world, one which is recognized today by many accomplished ham operators worldwide.

While there are many club members who contribute throughout the year to CADXA's success, this year's Awards Banquet presented special recognition to the following outstanding Amateur Radio operators:

DXer of the Year: Bob Lawson, N6RW

Presidential Service Award: Mike Wright, N7MW

Presidential Service Award: Tom Kramer, NQ7R

Special Service Award: Ron Freeman, K5MM

Special Service Award: Lee Finkel, KY7M

Certificate of Appreciation – Program Presentation: Bob Davies, K7BHM

January's meeting program was "Pass the Mic," an opportunity for all club members to share their 2023 accomplishments and their 2024 ham radio goals. The broad range of knowledge and experience across the membership made for some great stories in this open forum discussion! Who would have thought that we'd barely have enough time to fit in everyone's turn at the mic?

NEXT MEETING - Please join us at the CADXA General Meeting on February 1st to see Mike Fulcher, KC7V, present "WRTC Experience 2023." World Radiosport Team Championship (WRTC) is Amateur Radio competition like you've never seen before. Mike's role as a WRTC referee has him on the "inside" of one of ham radio's most intensely competitive environments. You won't want to miss out on this presentation!

The CADXA challenges the Arizona ham community to make 2024 all about improving a radio skill:

Want to learn CW? YouTube is your best friend – search on "Learn CW."

Want to improve your CW? Do some contesting, and your DX chasing skills will skyrocket.

Want to learn how to chase DX? Read Bob Locher W9KNI's book "The Complete DX'er."

Want to truly understand antennas? Pick up an old edition of ARRL's "Antenna Handbook." If it doesn't put you to sleep, your friends will marvel at aerial mastery.

Not sure where to go with some of this? Ask other hams if they will help you. Hams love to teach!

73,
Steve N7TX

The Central Arizona DX Association is celebrating our 50th Anniversary throughout 2024!

We have been holding our hybrid in-person + Zoom meetings since the beginning of 2023 and the combination works well for us. Within a day or two after the meeting, the program portion is uploaded to YouTube and can be found by doing a Google search for 'Central Arizona DX Association.' Additionally, we have a general [Groups.io](https://groups.io) reflector and members-only CADXA Slack chat room (go to our website at cadxa.org, click on the 'Discussion Groups' tab and follow the easy instructions to sign-up).

Unless otherwise announced, CADXA meets the FIRST THURSDAY each month at 7:00 p.m., with an informal 'meet-and-greet' starting at 6:30 p.m. Our meeting location is the Bethany Lutheran Church, 4300 North 82nd Street in Scottsdale. We have a broad range of programs covering many aspects of amateur radio with an emphasis on DX-related topics.

Whether you are a newly licensed ham or seasoned veteran wanting to know "So what is this DX thing?" please join us. There is never a dull moment (we 'do' CW, SSB, FT-8, Moon-bounce and several other exciting things)! Visitors and guests are always welcome in-person or via Zoom. For the meeting Zoom link, simply go to our website at cadxa.org, click on the 'Contact' tab in the upper yellow area, fill in the contact form and email to [wa7nwl\[at\]gmail\[dot\]com](mailto:wa7nwl[at]gmail[dot]com). Please request the Zoom link at least two (2) days before a meeting. Additional meeting information can also be found via www.cadxa.org/meetings.html

Officers and Board Members for 2024

President	John Jolly, N7NWL	wa7nwl@gmail.com
V-President	Virgil Silhanek, K7VZ	k7vz@arrl.net
Secretary	Jim Charboneau, KC1BB	kc1bb.jim@gmail.com
Treasurer	Thomas Boza, NE7X	ne7x@arrl.net
Immed. Past Pres.	Bill Poole, AA4Q	aa4q@arrl.net
Directors-at-Large	Steve Protas, K7SP	sprotas@juno.com
	Steve Thompson, N7TX	steve.n7tx@gmail.com

THIS MONTH'S REPORT FROM CADXA

DXers are having a blast right now with the better winter propagation and top-of-the-solar-cycle benefits offered to the HF spectrum. Now's the time to take advantage of great propagation and work the world. Curious how to do that? Join our monthly meeting and ask us how!

Continued Next Column

ADAW



Club Meeting—Tuesday, February 20 at 6:30 PM

Red Mountain Center will host the meeting in Rooms 5 and 6 from 6:30 until 8:30 PM. We must be out of there by 9:00 PM. Please see our Member Clubs entry on page 3 of this ADAW for the details. There, you will also see the Officers and Board for 2024.

The President's Corner will take up the rest of the column this month.

The President's Corner

by Steve, KB7KWK (January Communicator)

Hello fellow club members. I hope everyone had a great Christmas and a happy new year. It seems like I just wrote that yesterday. Boy the days are flying by. I can't believe it is already 2024.

This past year was a busy one for the club. The rest of the Board of Directors and I had to make a lot of decisions on many items last year. The big one was the decision to go all electronic with regards to the SuperFest, as well as having a professional company redesign the club websites. Mostly, the SuperFest site.

Now that the SuperFest has passed, we will have the professionals start on the main club site. It was a big decision because it cost a lot of money for the club. However, we thought it was best for the club to go forward with it. The new site went hand-in-hand with going electronic.

We also had to purchase a program for handling the electronic ticketing. This was a first for the club and it turned out to be a great decision as it made running the SuperFest so much easier for those working the event. The new program keeps track of every cent and makes it easy at the end of the event to see where all sales came from.

Speaking of the SuperFest, the 2023 SuperFest was the biggest and best I have seen in 20 years. The club has never sold every vendor spot for the event. This was almost a problem as we ran out of vendor spots. We are not complaining though. This is a good problem to have.

We really thought that last year's SuperFest was going to be a bad one. As we got closer to the event, we were not selling as many tickets as we did in previous years at that same time. All the sales started coming in one week before the event, and of course we sold a ton on the day of the event. I would like to again thank Sharon and the rest of the SuperFest committee for their hard work to make this event so huge.

It takes a team of volunteers to run the event smoothly.

Superstition Continued from Previous Column

Without those people, there would be no SuperFest. The team is already having meetings for 2024. Yes, it takes one year to plan a six-hour event. If you can help out this year, please let us know. We can use all the help we can get. It seems to always be the same people and some of those people are getting tired, so please volunteer for this year. The next time you see Sharon and the rest of the crew, give them a big thank you.

Some other things the Board had to deal with this past year are the tower up at Lost Eden and the tower at the Stone Castle site. The tech crew installed a 64-foot tower up at the Lost Eden property where the club holds Field Day each year. Working with the property owner, we were able to get that tower up quickly. Now we need to wait until Spring to get back up there and install some equipment on it.

The Stone Castle site was hit by a micro burst that damaged the tower. It is bent and leaning a little bit. We did turn a claim into insurance and received a check to replace it. However, the amount was only \$1500 because that is what the value of the tower was at the time the policy was taken out. Of course that is not enough money to replace the concrete and other work that will need to be done.

The Tech crew is working on solutions for that, and we hope to either have a new tower put up there or move the site somewhere else. I would like to thank the entire tech crew for all your work in 2024. Without you, there would be no communications.

I am proud to be your President again for 2024 and I would like to welcome all the new Board of Directors for this year. Thank you for stepping up and I look forward to moving the club forward with more improvements for our large club of more than 225 members. Without folks like you to make the much needed decisions, the club would fall apart.

73 for now and I hope to see all of you at the next meeting.

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 with your input by January 27th. The Communicator will publish to club members in early February.

This publication: Please email 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.

No Reports Received

Superstition ARC Repeaters

Output	CTCSS	Links To	Mode
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>

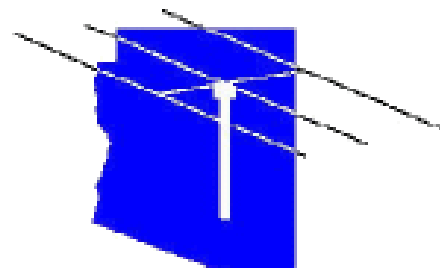
Club Membership is open to anyone with an interest in Amateur Radio. Visit: <https://superstitionarc.org> for more information.

Superstition SuperFest

The Superstition SuperFest is held on the first Saturday of December.

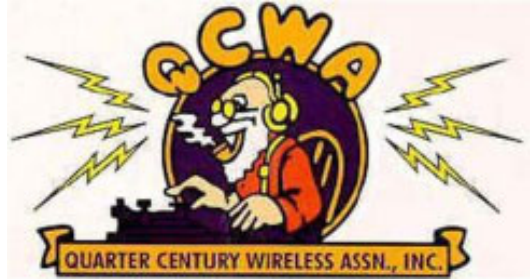


AMATEUR RADIO SERVICE DEMONSTRATION STATION



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

No Reports Received



CHAPTER 16
BARRY M. GOLDWATER ARIZONA CHAPTER



Emergency Communications Since 1961

SHORT SKIP



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

***Free Shipping and Fast Delivery!**



IC-9700 | All Mode Tri-Band Transceiver

- VHF/UHF/1.2GHz • Direct Sampling Now Enters the VHF/UHF Arena • 4.3" Touch Screen Color TFT LCD • Real-Time, High-Speed Spectrum Scope & Waterfall Display • Smooth Satellite Operation



IC-905 | VHF/UHF/SHF All Mode Portable

- GPS-Controlled Oscillator for Ultimate Frequency Stability • Separate Controller & RF Unit Configuration • Industry First 144 MHz to Microwave Transceiver • Wideband 50 MHz Span Real-time Spectrum Scope • Full D-STAR Functions



IC-V3500 | 144MHz FM Mobile

- 65W of Power for Long Range Communications • 4.5 Watts Loud & Clear Audio • Modern White Display & Simple Operation • Weather Channel Receive & Alert Function



IC-7851 | HF/50MHz Transceiver

- 1.2kHz "Optimum" roofing filter • New local oscillator design • Improved phase noise • Improved spectrum scope • Dual scope function • Enhanced mouse operation for spectrum scope



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

- RF Direct Sampling • Real-Time Spectrum Scope and Waterfall Display • Large Color Touch Screen • Supports QRP/QRPp • Bluetooth® and Wireless LAN Built-in



D-Star Repeater Infrastructure

- Mix Mode Operation Can Relay Both D-STAR DV and Analog FM Signals • LTE Capable with Optional LX-262 to Connect an LTE Network and Internet • Integrated Controller Built-in and Functions with the RF Module Unit • RF Direct Sampling and FPGA Platform • 3rd Generation D-Star Repeaters with More Features & Power



IC-7300 | HF/50MHz Transceiver

- RF Direct Sampling System • New "IP4" Function • Class Leading RINOR and Phase Noise Characteristics • 15 Discrete Band-Pass Filters • Built-In Automatic Antenna Tuner



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen interface • Built-in RTTY Functions

IC-V86 | VHF 7W HT

- 7W Output Power Plus New Antenna Provides 1.5 Times More Coverage • More Audio, 1500 mW Audio Output • IP54 & MIL-STD 810G-Rugged Design Against Dust & Water • 19 Hours of Long Lasting Battery Life • 200 Memory Channels, 1 Call Channel & 6 Scan Edges



IC-7610 | HF/50 MHz All Mode Transceiver

- Large 7-inch color display with high resolution real-time spectrum scope and waterfall • Independent direct sampling receivers capable of receiving two bands/two modes simultaneously



IC-2730A | VHF/UHF Dual Band Transceiver

- VHF/VHF, UHF/UHF simultaneous receive • 50 watts of output on VHF and UHF • Optional VS-3 Bluetooth® headset • Easy-to-See large white backlit LCD • Controller attachment to the main Unit



IC-T10 | Rugged 144/430 MHz Dual Band

- Disaster Ready - Excellent Fit for Your Emergency Bag • Loud Audio - New Speaker Design • Long Battery Life - Up to 11 Hours • FM Broadcast & Weather Channels



IC-R8600 | Wideband SDR Receiver

- 10 kHz to 3 GHz Super Wideband Coverage • Real-time Spectrum Scope w/Waterfall Function • Remote Control Function through IP Network or USB Cable • Decodes Digital Inl P25, NXDN™, D-STAR • SD Card Slot for Receiver Recorder



ID-5100 AD VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch

ID-52A | VHF/UHF D-STAR Portable

- Bluetooth® Communication • Simultaneous Reception in VV, UV, VU and DV/DV • Enriched D-STAR® Features including the Terminal Mode/Access Point Mode • UHF (225-374.995MHz) Air Band Reception



- 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



ANAHEIM, CA
(800) 854-6046

PORTLAND, OR
(800) 765-4267

PHOENIX, AZ
(800) 559-7388

MILWAUKEE, WI
(800) 558-0411

WOODBIDGE, VA
(800) 444-4799

WINTER SPRINGS, FL
(800) 327-1917

SACRAMENTO, CA
(877) 892-1745

DENVER, CO
(800) 444-9476

PLANO, TX
(877) 455-8750

NEW CASTLE, DE
(800) 644-4476

SALEM, NH
(800) 444-0047

ATLANTA, GA
(800) 444-7927

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 KE7EEU.