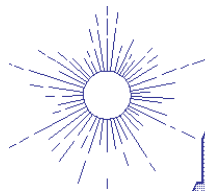


ADAW

10498 Monserrate St
Elk Grove, CA 95757-1765



January



ADAW

Arizona Desert Aire Waves

Vol 48 No 1

January 2023

CLUB MEETING SCHEDULE

SARC

Jan 4th - 7:00 PM
Via Zoom

AARC

Jan 12th - 7:00 PM
American Red Cross/Echolink

YARC

Jan 5th - 7:00 PM
Prescott Rodeo Grounds

TBARC

Jan 19th - 7:00 PM
Arizona Christian University

CADXA

Jan 5th - 7:00 PM
Bethany Luthern Church

ARA

Jan 26th - 7:30 PM
Denny's - Tempe & Zoom

MARCA

Jan 17th - 6:30 PM
Via Zoom

MARA

Jan 7th - 9:00 AM
Maricopa Public Library

AzRCCC

Jan 10th - 7:00 PM
American Red Cross/MS Teams

SuperstitionARC

Jan 17th - 7:00 PM
Charles K Luster Bldg

ANSR

Jan 19th - 7:30 PM
via GoToMeeting

OVARC

Jan 20th - 7:00 PM
Mountain View Baptist Church

ATN (VOAR)

Postponed
www.whereby.com/atn1

CARL

Jan 21st
Arizona Science Center

AMO

Jan 12th - 7:00 PM
Via Zoom

CHRC

Jan 14th - 9:00 AM
Tri-City Baptist Church

KARC

Jan 10th - 6:30 PM
New Hope Christian Fellowship

SunLifeARC

Every Monday - 10:00 AM
Via Zoom

QCWA-AZ Chapter

TBD
Various

MMRG

See Web Site

WVARC

Jan 2nd - 7:00 PM
Shepherd of the Desert Lutheran Church/Zoom

ADAW Member Clubs

ARIZONA AMATEUR RADIO CLUB

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

President	Gary Hamman	K7GH	602.996.8148
Vice President	Steve Tolnai	W7WSV	480.390.4446
Secretary	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 7:00 p.m. in Room 8 at the new Scottsdale Senior Center located at 1700 N Granite Reef Road (west side of Granite Reef Rd., 50 yards north of McDowell Rd. Parking on site) in Scottsdale. The club also holds a net every Tuesday night at 7:00 p.m. on the 147.78/.18 repeater.

President	James Wasson	N7ELL	n7ell@scottsdalearc.org
Vice President	David Yee	N7AJR	n7ajr@scottsdalearc.org
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	

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	iangadget1@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	Charles Loftus	KG7KRN	president@w7tbc.org
Vice President	Rick Tejera	K7TEJ	vicepresident@w7tbc.org
Secretary	Andrew Cornwall	KF7CCC	secretary@w7tbc.org
Treasurer	Jeff Rogers	KD7PYE	treasurer@w7tbc.org
Directors	Robert Lutes	N7NO	n7no@w7tbc.org
	Paul Veltman	WA6OKQ	wa6okq@w7tbc.org
	Chuck Erickson	K7CAE	k7cae@w7tbc.org
	Robert Fairfield	K7RQN	k7rqn@w7tbc.org
Past President	Brian McCarthy	AK7F	ak7f@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.

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

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



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	928.636.2146
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 Testing Info: White Mountain V.E. Team: VEtesting@cablone.net. Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: www.kachinaarc.org

ARIZONA REPEATER ASSOCIATION, INC

The Arizona Repeater Association general meeting is held the **FOURTH THURSDAY** of each month at 7:30 p.m. There are no meetings in July and December. The November meeting is held the Monday before Thanksgiving. Meetings are held at Denny's Restaurant, 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	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 and SuperstitionSuperFest.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. via Zoom - login info on W7MOT.org. Monthly presentations cover a broad spectrum of interesting subjects. Visitors are welcome to attend. Come early (6:00 p.m.) socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications.

President	Norm Johnson	AA7OO	480.278.2886
Vice President	Ray Vasquez	K4RMV	
Treasurer	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 for mor information. Contact club president for zoom link.

President	Bill Poole	AA4Q	aa4q@arrl.net
Vice President	Virgil Silhanek	K7VZ	k7vz@arrl.net
Secretary	Eric Schecter	KC7ES	eschecter@gmail.com
Treasurer	Mike Wright	N7MW	n7mw@aol.com
Immed. Past Pres.	Larry Loen	WO7R	lwloen@gmail.com
Directors	Ron Smith	N7RD	
At-Large	John Jolly	N7NWL	wa7nwl@gmail.com

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: 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.

YAVAPAI AMATEUR RADIO CLUB

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

President	John Snedden	KT7P	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		
	Jane Lerette	K7ZHF	
	Ray Kolman	KI7COM	spudsmn@gmail.com
	Mike Schnell	NC7X	ka9cid@gmail.com
	Bill Noe	WG7U	

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

ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at 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 for dates.

President	Steve Wood	W1SR	w1sr@arrl.net
Vice-President	David Beauchesne	AK2L	ak2l@arrl.net
Secretary	Logan Zintmaster	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 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 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 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	Bob Runke	AB7RR
Board Member:	Chris Van Camp	KJ7NOP
	Joe Jacobson	KJ7PUL
	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

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.

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	retowers@hotmail.com
Vice President	Jim Hood, K5TT	
Secretary	Greg Watkins, WB7VOK	
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. 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 at least 24 hours in advance. Visit the web site at <https://arizonamesh.org> for more information on the AMO Club and up-to-date news.

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

Mail Address: Arizona Mesh Organization Inc, 7939 E Golf Avenue, Mesa, Arizona 85209. DUES: Full Membership \$25.00 per year. Visit the AMO web site for more information on membership. If you would like to join, visit our web site and click on the HamClubOnline Banner: 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.

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.



ADAW Staff

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From the Editor's Desk

Editor Continued from Previous Column

Happy New Year! Hope everyone's holidays were wonderful.

Year 2023 will find two Legislative Bills winding their way through the U.S. House of Representatives. Both bills were introduced on December 22, 2022 and will have a direct impact on the Amateur Radio Service.

The first piece of legislation is H.R. 9664. Introduced by Congresswoman Debbie Lesko (AZ-08), this bill would require the Federal Communications Commission (FCC) to replace the current HF digital symbol rate with a 2.8 kHz bandwidth limit. Upon introducing the legislation, Congresswoman Lesko stated that "With advances in our modern technology, increased amounts of data can be put on the spectrum, so there is less of a need for a regulatory limit on symbol rates. I am pleased to introduce this important piece of legislation to update the FCC's rules to support the critical role amateur radio operators play and better reflect the capabilities of our modern radio technology."

The ARRL (American Radio Relay League) had petitioned the FCC in 2013 (RM-11708) for the same relief and the Commission issued a Notice of Proposed Rulemaking in 2016 (WT Docket No. 16-239) agreeing the symbol rate was outmoded, served no purpose, and hampered experimentation. The Commission further questioned whether a bandwidth limit was necessary at all. The ARRL, and many amateurs, objected to there being no bandwidth limit and there has been no further action by the FCC.

ARRL President Rick Roderick, K5UR, hailed the introduction of this bill stating "the FCC's delay in removing this outdated restriction has been incomprehensible, given the biggest effect of the delay is to require totally inefficient spectrum use on the already-crowded amateur HF bands."

ARRL Legislative Committee Chairman John Robert Stratton, N5AUS added that "For all practical purposes the field has been ceded to amateurs outside the U.S., where there is no comparable limit. Removing the restriction not only will allow U.S. amateurs to use the most efficient data protocol suitable for their purpose, but it also will promote and incentivize U.S. amateurs to experiment with and develop even more efficient protocols."

Representative Lesko and her husband Joe, W2SSH, are members of the West Valley Amateur Radio Club in Sun City, Arizona.

The second bill introduced on December 22, 2022 relates to private land use. H.R. 9670, introduced by Congressman Bill Johnson (OH-6), would eliminate private land use restrictions that prohibit, restrict, or impair the ability of an Amateur Radio Operator to erect antennas and operate on property under their control.

The prolific growth of communities with private land use restrictions significantly inhibits the growth of the Amateur Radio Service. These restrictions generally exist in residential communities, such as single-family subdivisions, condominiums, cooperatives, gated communities, etc. They directly impact an Amateur Radio Operator ability to fulfill their mandated duty of providing voluntary noncommercial emergency communications service.

John Robert Stratton, N5AUS, ARRL Legislative Advocacy Committee Chairman, noted that "Congress, in 1994 by Joint Resolution S.J.Res.90/H.J.Res.199, declared that regulations at all levels of government should facilitate and encourage the effective operation of Amateur Radio from residences as a public benefit." Chairman Stratton further stated, "H.R. 9670, the Amateur Radio Emergency Preparedness Act, is intended to fulfill that mandate and preserve the ability of Amateur Radio Operators to continue to serve as a key component of American critical communications infrastructure."

On behalf of the ARRL, its members, and the Amateur Radio community, ARRL President Rick Roderick, K5UR, and Mr. Stratton extended their thanks to Representative Johnson for his efforts to support and protect the right of Amateur Radio Operators.

In other news, the first hamfest of 2023 (the annual Thunderbird Hamfest) is set to take place on January 14, 2023 in the Haven Church parking lot in Glendale. Festivities and sales will get started at 8:00 A.M. and run until 12:00 noon. Set up begins at 5:00 P.M. Friday (the 13th) and at 6:00 A.M. Saturday. This is a cold, rain, wind, or shine event so be prepared. The Thunderbird Amateur Radio Club puts on a great event so don't miss it. For all the information, see the flyer in the flyer file and visit the Hamfest web site at www.tbirdfest.org.

"See" you next month!

73,
Christine, N7PVL

ADAW



Continued Next Column



CARL Continued from Previous Column

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. We hope to have our web page back up shortly.

HAPPY NEW YEAR- 2023!!!

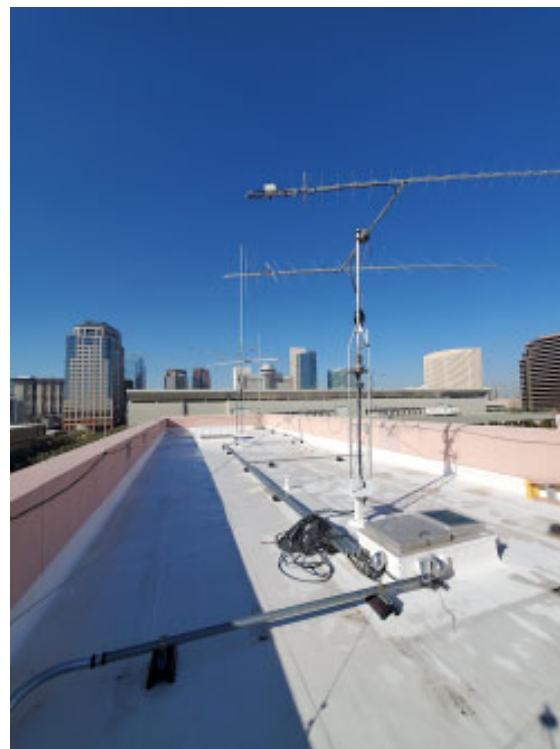
As I am preparing this column, it is mid-December. Like many, my thoughts are on the holidays and the coming new year. As the year closes, our CARL volunteers are continuing to make progress with our station improvements.

We have been working to roll out remote access capability using our new FlexRadio 6400 for our active W7ASC volunteers. Rusty WA8ZID reports that it is currently operational & stable.

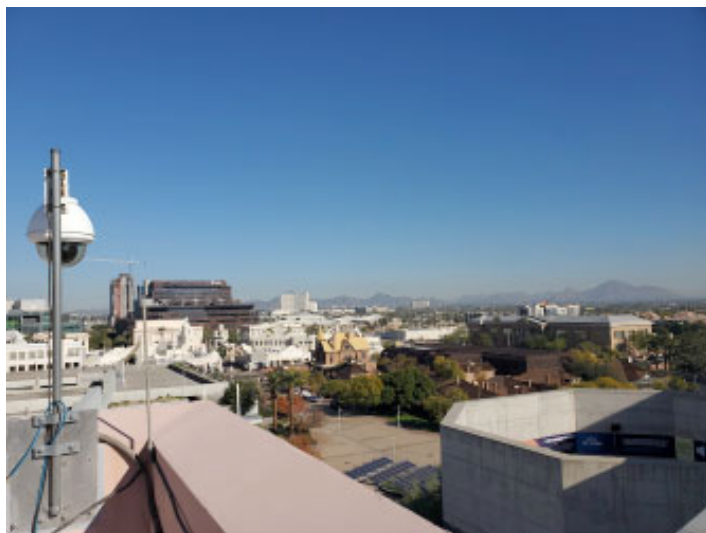
Jerry K1GJQ is taking preparatory steps into CARL’s consideration to install mesh network capability with the guidance from the folks at the Arizona Mesh Organization & the Red Cross Emergency Communications Group. Jerry took a great looking set of photographs showing the view of our antenna space on top of the 4th floor of the Arizona Science Center to help analyze how our location can benefit the local line of sight microwave mesh network. I have attached a couple of Jerry’s photos to allow the interested reader to peruse the W7ASC antenna complement.

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 jacklandon17@gmail.com.

73 de N7INV Sam
w7asc.sked@gmail.com
602.291.0992



View to the West looking at the Convention Center parking lot @ 5th St & beyond. Note satellite antenna, tri-band beam, and multi-band vertical.



Scenic view to the NNE on top of the 4th floor of the AZ Science Center.



Continued Next Column



“ RADIO STATION SAQ”

Here we are at the final edition for 2022. I hope everyone had a great Thanksgiving and is looking forward to festivities at the end of the year.

OVARC was blessed with a fantastic Hamfest in November and I am very grateful for everyone that helped to make it so successful. I am thankful to all of the hams that came to visit us from all over the state of Arizona including many that negotiated the I-10 on-ramp issues in metro Phoenix early in the morning. Thank you for your perseverance and making it down to our event.

I would like to thank our volunteers who put on such a great event. They include: Bev-WB7BEV, Logan-KE7AZ, Fred-W2HZ, Paul-KI7HLO, Gerry-KI7HTF, Gary-AE7GP, Roger-W7ROG, Hannah-KG7TPD, Andreas-W1IXQ, Don-KA2IYU, Dave-N7AKC, Darren-WB1LOV, David AK2L, John-K7JWB, Eddy, Kiersten-KI7FZ0, Carl-KB7AZ, Chuck-KJ7DDP, Joe-KC2J, Walt-AL7FE, Paul-W9PDC, Bruce-WA1BZQ and Steve. I am grateful to you all for your accomplishments and appreciate everything you’ve done for OVARC.

Preparations for our Hamfest are a year-long endeavor because we collect donations throughout the year. We hope to repeat this in 2023 and provide another great Hamfest to you on November 11, 2023.

Hats off to Logan for submitting a winning grant application for OVARC! This grant will provide us the funds to finish our Go-Box(s) and get back out into the field for some fun events.

Thank you again!! Have a Merry Christmas and a Happy Holiday Season.

73, Steve – W1SR

Today was a fun and special day, when one of the oldest operating radio stations was brought back on the air!

The station is “SAQ,” located in Grimeton, Sweden. It uses an Alexanderson alternator from 1924 to create CW transmissions without tubes or other electronics! It was built in the early 1920s to do Low Frequency communications with ships at sea (about 17.5 kHz). It operated in commercial service for decades and was saved from the scrap heap by volunteers in the 1990s after decommissioning.

This one is the very last machine of its kind, and the whole kit and caboodle, including the building made for it and the enormous antennas, is preserved as a UNESCO World Heritage Site (like a National Park, but designated for the world by the United Nations). Today the site is run by a volunteer association and they try to fire it up once or twice a year and put it on the air. Here’s the video from today’s activation:

<https://www.youtube.com/watch?v=DKmrY3XuSIw>

It shows all the interesting steps they have to take to get this amazing machine running. Then once it is up to speed, they fire up an automatic message (VVV DE SAQ) to test the antenna and occupy the frequency. When all is working as planned, the operator takes his seat at the historic straight key and pounds out a message of peace and connection to our collective shared human history.

Whether you like enormous old machines, or CW, or both, I hope you find this as interesting as I did.

73,
Eric N7VAZ

ADAW

ADAW



CADXA Continued from Previous Column

On December 1st, Dan Quigley N7HQ presented Flex Radio Remote Operation. He covered reasons you'd want to set up a remote station and the various configurations that may be required. Depending on your station needs, there are different equipment and scenarios to be prepared for to save hassle and extra trips to your remote station. Thanks Dan for the informational presentation. If you missed the meeting, the recording is available for viewing at <https://youtu.be/x550L5wIfRo>

Don't miss our next meeting on January 5th. We're encouraging members to attend in person, although the Zoom option will still be available. No presenter is scheduled, but we plan to have an open forum discussing new toys everyone may have received for Christmas and reflect on DX operations from 2022.

CADXA joined the Scottsdale ARC and MARCA for the Christmas Banquet on December 9th at the Eagles Buffet at Casino Arizona. There was a presentation by James Wasson, PhD, N7ELL on Advancements in Healthcare Electronics. N7ELL works for Medtronics here in Tempe. Medtronics is a world leader in pacemakers and implantable defibrillators and some other in-body electronic devices. Their most important design criteria are: reliability, long, long battery life, tiny electronics and ease of implant. He had some display samples to pass around. It was very interesting from an engineering point of view. Next came brief presentations of each club. K4ML of CADXA announced the DXer of the Year award to W0RIC, and AA4Q announced the club's Presidential Service Award for 2022 to K7VZ.

The club's DXCC Totals List has been updated on cadxa.org. If you haven't updated your totals recently, or (if a new member), submit your DXCC totals now. Download and complete the Excel spreadsheet available at <https://www.cadxa.org/dxcc-totals.html> and email the completed copy to dxcctotals.cadxa@gmail.com.



Continued Next Column

Hamfest Calendar

14 January 2023 - **Thunderbird Hamfest** - hosted by the Thunderbird Amateur Radio Club will be held at the Glendale Nazarene Church, 5902 W Cactus Rd in Glendale. Hours are 8:00 AM - 12:00 Noon. Admission - \$5.00 each which includes a door prize ticket. Commercial Vendor set up Friday after 5:00 PM and/or Saturday at 6:00 AM. Tailgaters and Clubs set up Saturday after 7:00 AM. Space are \$10.00 for each space used or blocked. Two admissions tickets included with space. Food provided by Queso Good - Quesadilla Truck. See the web site at tbirdfest.org for more details.

22-28 January 2023 - **Quartzfest** - will be held at the Roadrunner BLM outside of Quartzside. A full week of ham radio activities, seminars, off-road rides, swap meet, and flea market shopping. Check the web site at www.quartzfest.org for details.

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. More details to follow.

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 moring 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(-) PI 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. 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

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



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

We are saddened by the passing of one of the founding members of the Arizona Red Cross Communications Club and our past president, Peter Petrotta, KD7OIW. Peter became a silent key on Monday, December 12th after a brief illness. Peter had been active with the Red Cross in Phoenix, assisted with local public service events as a part of the Maricopa County Emergency Communications Group, and was also involved with the Amateur Television Network.

Peter was a proud Air Force veteran serving in Combat Communications in Vietnam and continued his service in the reserves for more than 30 years. He was always happy to help when there was a job to do and very much enjoyed Elmering other hams. Peter was instrumental in forming the Arizona Red Cross Communications Club to help support the communications and technology needs of the Red Cross across Arizona. He served as the club's president before moving to San Diego and continued to serve as a director until just a few short months ago.

Peter and his wife, Gina Marie, had moved to San Diego about two years ago to be closer to children and grandchildren. He continued to support and advise his many friends here in Arizona while also engaging with the EmComm community in Southern California. He coached many hams looking to sharpen their skills during our Thursday digital and HF nets. He had a passion for VHF/UHF/microwave weak signal contesting, participating in Field Days, satellite communications, and all modes of digital communications. Peter's energy and enthusiasm for whatever he did were infectious. No matter how busy he was, he always found time to answer questions and troubleshoot problems.

Peter is survived by his wife, Gina-Marie, his daughters, Sandy, Nicole, Sara, and Sherry, and 10 grandchildren. Our thoughts and prayers are with his family at this difficult time. He will be sorely missed by his family and many friends.

Information regarding memorials will be shared as details become available.

ADAW

Charles Zurenko, N2TFS
Regional Lead - Disaster Services Technology
Arizona - New Mexico Region
4747 N. 22nd Street
Phoenix, AZ 85016
(602) 336-6669 (p) ? (607) 435-3461 (c)
Charles.Zurenko@redcross.org

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.

January Test Sessions



Jan 2nd - 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

Jan 3rd - IPrivate VE Sessions

Prescott Public Library, 215 E Goodwin-second floor, Prescott
Contact - J M Scherfling 928.632.2050
No Walk-Ins / Register or Call Ahead

Jan 7th - 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/

Jan 7th - K7ARC VE Team -- 10:00 AM

American Red Cross, 4747 N 22nd St, Phoenix
Contact - Brandi Bridges VE.Testing@k7arc.org
No Walk-Ins / Register at k7arc.org

Jan 9th - 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

Jan 9th - Radio Society of Tucson -- 7:00 PM

Immanuel Presbyterian Church, Witherspoon Hall
252 E 22nd St, Tucson
Contact - Diane Zimmerman 520.664.5070

Jan 14th - Northern Arizona DX Association -- 10:00 AM

Flagstaff Fire Station #6, 3877 S Lake Mary Rd, Flagstaff
Contact - Mike Hanks 928.606.4437
No Walk-Ins / Register or Call Ahead

Jan 14th - Thunderbird ARC -- 10:00 AM

Haven Church TBARC Hamfest, 5902 Cactus Rd, Glendale
Contact - Walter Reinert 602.668.7804

Jan 17th - Hassayampa AR Klub -- 2:00 PM

Escapees North Ranch, 30645 S Wandering Way, Congress
Contact - Charles Carter 316.651.7710
Call for test and location info

Jan 17th - 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

Jan 18th - 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

Jan 20th - Oro Valley ARC -- 5:30 PM

Mountain View Baptist Church, 3500 W Overton Rd, Tucson
Contact - David Beauschesne 831.345.3308

Jan 21st - 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

Jan 24th - Boy Scout Troup 127 -- 7:00 PM

St Xavier School, 4715 N Central Ave, Art Room, Phoenix
Contact - John Kelly 480.823.8993

Jan 28th - 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



TBARC Continued from Previous Column

will come out before or after the hamfest. As of today, everyone's hoping for good weather and lots of attendees, with interesting seminars, excellent raffle prizes, and great deals. If you see this before January 14, 2023, you can help that happen by joining us on January 14 at Haven Church, 5902 W. Cactus Road in Glendale. If it's after January 14 – thanks for attending, and we hope you had a great time!

December Banquet

About twenty people joined us for the club banquet at the Black Bear Diner on December 8. The board held a hasty meeting in the corner before the event got started. The board read the results of the election into the minutes, and also appointed Aric Gray AG7WR as a director for the remainder of the year. After that, it was all smiles. Charlie KG7KRN announced the election results. Once that was done, we enjoyed all that the Black Bear Diner had to offer — along with good company and lots of talk about ham radio. Check out the pictures of happy attendees. (You won't see me: I was behind the camera!)

Election Results

If you weren't able to make the banquet, I'm sure you're curious: what were the results of the election? If you remember, there were two parts to the ballot. 1. The new directors. We elected four new directors for 2023 - 2024, who are: Bruce Kabana WB7SRC, Susan Gray KK7FYB, Mike Willmoth KJ7OPD, and Nic Holladay K7CLI. They join the 2022 - 2023 directors (Andrew Cornwall KF7CC, Rick Tejera K7TEJ, Robert Lutes N7NO). I expect Charles Loftus KG7KRN to slide into the immediate past president spot (an unelected, but voting position) and Gary Duffield WK7B to remain club trustee (also unelected, but voting). With Charlie's transition, we'll see one more appointment to bring us back to full strength.

The membership also unanimously approved an amendment to the bylaws that allows the board to make adjustments to the bylaws on a temporary basis, as well as a change to the ways the membership term can be calculated.

So who's the new president?

That's still in the air as I write this, a day after the results of the election were announced. In 2021, we changed the bylaws so that the incoming board, rather than the membership, is responsible for determining who would fill the positions of president, vice president, treasurer, and secretary. The new board will need to meet and decide who's doing what ... and they just found out!

Hamfest Thanks

Because of submission deadlines, I can't say for sure if this

January 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. In January, we'll have Michael Drapkin WB2SEF talking about emergency communications in Maricopa County. 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



Continued Next Column

More Pics on Page 14



TBARC Continued from Previous Column

The Arizona Amateur Radio Club Christmas pot-luck lunch party at Papago Park on December 8 was very special. The food was excellent and the comradery was enjoyed by everyone. We invited the Red Cross Club members and we enjoyed having many of them attend.

At our November 26 test session, we had three pass Technician tests, one of them being a youth of 15. Our next test sessions are December 31 and January 28.

The next club meeting will be on January 12 at 7:00 PM at the Red Cross Building.



73,
Lori, WA7EDI



TBARC Continued from Page 13





For Sale / Wanted



**LOOK!
Great Deals!**

For Sale

The Kachina Amateur Radio club had a very successful year making progress on our three key areas of focus. Education and training, community service, and enhancing and advancing technology.

Firstly, our training and education team provided training classes to create more amateur radio operators and assist existing ones to upgrade as they so desire. Many hams are moving to the White Mountain area and there is something for everyone in the Kachina Amateur Radio Club. As an adjunct to the education, our test team administered many tests in our usual location as well as expanding out into additional test locations throughout the White Mountains of Arizona.

From a business standpoint we have a team working on making the Club a 501(c)(3) which opens other possibilities for continued success.

We were interviewed for a feature on amateur radio which will be aired on Show Low TV on the area's cable providers as well as a YouTube video showcasing activity in the area. This will bring new interest for prospective hams as well as spreading the word that we are available in the area for events at no cost where communications are needed to support an activity. In 2022, we supported bike races, horse-mule races, and an orienteering team from Phoenix using the Petrified Forest as a training area.

The third and last is enhancing technology and capabilities in the area. The Kachina Club continues to partner with Navajo County office of emergency management to expand and install the Navajo Link Repeater System. Sites are active at Chevelon Butte, Show Low at the Torreon Country Club, Clay Springs and soon to add Brookbank and Holbrook. This will be a linked repeater system for general use and of course in emergencies. They are all backed up with emergency generators and battery banks and Chevelon is a solar site, so they are available in times of emergencies. We are also working to facilitate the Pinetop-Lakeside substation with UHF and VHF public safety, FirstNet Cellular as well as amateur band GMRS and HF. We also are working on equipping a new NCSO command van with similar capabilities which will also be portable on a moment's notice for emergency use as needed.

We look forward to achieving even more of our goals throughout 2023 with similar successes.

Kevin Parmenter KG5Q
President Kachina Amateur Radio Club

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

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





Club Meeting Zoom Is Discontinued for 2023 Tuesday, January 17 Club Meeting at 7:00 PM

Location: Mesa's Charles K Luster Building – Zoom has been discontinued.

This is our Junque Auction meeting! Doors open at 6:00 PM for sellers to arrive and register ahead of time. The club will get 10% of the winning bid unless the seller chooses to contribute more. The seller may set a minimum bid.

Bidders should arrive by 6:30 PM to have a chance to look over the auction goods. Our auction and meeting start at 7:00 PM. Visitors are always welcome. Our Member Clubs entry on Page 3 of this ADAW contains general information about the club meeting schedule.

SuperFest Unofficial Results *by Larry WB7C*

December's SuperFest has no official count yet, but I am told that we had our expenses covered by Opening Day.

Thanks to all of you who showed up for this year's event. It is you, the vendors and attendees, who make this event a success for this club.

It hasn't rained for most of November, but it did from before 11:00 AM on December 3 for the rest of the day. The prize drawing was held earlier than scheduled because of the weather. We have avoided the rainstorms in the past, even when it was hailing in east Mesa and rain was falling in Apache Junction, Sun City and New River. We can count our blessings that we got close to four hours in before the rain began in earnest!

The 2023 SuperFest is set for December's first Saturday. I want to add a big "Thank You" to all of the club members who worked the '22 SuperFest to make it the success that it was.

New Prospective Hams Must First Register With FCC *by Larry WB7C*

Today, new candidates for an amateur license must create an account with the FCC and obtain an FCC Registration Number (FRN) before attending a Volunteer Examiner test session. The FRN is used on your application paperwork, according to Temple Amateur Radio Club's VE Testing page. The FRN hides your Taxpayer Identification Number, usually a Social Security Number, from prying eyes. You never want to expose your SSN any more than absolutely necessary. (Credit: tarc.org/ve-testing/)

Old-timers like myself must create the FCC account and associate our FRN with the new account. I had downloaded

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my license copy from the FCC before. But now I had to register and associate my FRN before downloading again.

Visit www.fcc.gov/uls to get started. Below the yellow banner and under the "Filing" heading, is "New User Registration." Everyone starts here to register an account. Below the link for "New User Registration" is a tutorial page link to "Read more about registering." It is at: <https://www.fcc.gov/licensing-databases/commission-registration-system-fcc>

Upon following the "New User" link above, you will use the orange "Register" button to register a new account. Your email address is your username. Your password must be between 12 and 15 characters. It must contain at least one each of UPPER case, lower case letters, Numerals, and Special characters. You may use practically everything found on my standard PC keyboard, but check it against the FCC's list to be sure! Password specs are right there on the page that you are filling in.

Once you've created the account, you will receive an email from the FCC to activate your account. You can then log in and register a new FRN, and on the next page, as an Individual. On the next page, you will request a CORES FRN Registration. You will provide your Social Security Number as your Taxpayer ID Number (TIN) to receive your new 10-digit FRN.

December President's Corner *by Steve KB7KWK*

Hello fellow club members. By the time this article goes out, all of you will probably have heard that a longtime club member became a silent key. Radar Matt, KF7RM passed away on November 27th.

Matt was our club Ambassador. He always took the time to answer someone on the radio. Even when he was in the middle of watching one of his favorite old time movies or he was eating, he would always answer the call. Matt was also one of the club's morning drive time trivia net control operators for a long time. He loved Star Trek and I called him the Trek encyclopedia. He seemed to know everything about the show.

Matt, as he preferred to be called, was one of the nicest people I ever knew. He always took the time to talk to me at meetings and events. He would give me ideas on things that could be changed in the club. He also offered ideas for meeting presentations or projects. He would sometimes get an idea during the day and send me a text about it.

We will miss Radar more than I can say. I was very much saddened to hear that he passed. Although we knew he was not doing well with his failing health, we all hoped that he would be okay. He is in a better place now with no more pain. Matt is holding the hand of the Lord and watching over his loved ones. Until we meet again my friend, I bid you a final 73.

I want to thank everyone who is helping out at the SuperFest

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this year. Without a lot of help from club members, we would not be able to hold this great hamfest. Thank you Matt, K7YEG for taking on the task of Chairman this year. Also thank you to Ed, K7EDT, and John, KG7NSP for helping Matt through the year. Thanks to all of you who helped no matter what contribution you've made. This includes everyone from the Website committee to those who will be handling the raffle ticket sales. This should be a great SuperFest this year. I hope to see a lot of you there. We dedicate this year's SuperFest to Matt (Radar) KF7RM.

I would also like to congratulate all the new officers and board members for 2023: Vice President Matt Churchill, K7YEG; Doug Brown, AG7KU; and John Jacques, KD8PC. And thank you for voting me in as your President for another year.

This will be 14 years as your President. I took one year off during COVID. Thank you very much for voting me in again. I believe this will be my last year as President. It may be time to let someone else take the reins in 2024. We have a great team this year. It is our hope to bring the club members a lot of good presentations and social events.

The club Christmas party will be at the Golden Corral in Gilbert this year on December 21st at 6:00 PM. The location is one-quarter mile South of Baseline Road off Cooper Road. This is our first time back to the Golden Corral in a couple of years. We have always had a lot of people there. I hope to see a big crowd again this year.

The Arizona Mesh Organization will have a Christmas party on December 9th at the Denny's at Power and Hampton Roads in East Mesa.

73 for now.

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: December 27th. The Communicator will publish to club members in early January.

This publication: Please email WB7C@SuperstitionARC.org with your input by January 5th. The February ADAW will publish to club members in late January.

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

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Superstition Continued from Previous Column

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

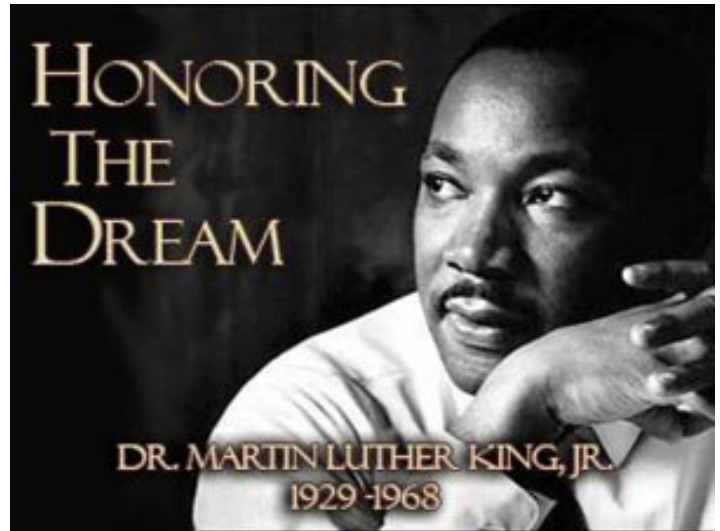
SuperARC Merchandise Store

<https://superARC.big3creative.com>

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

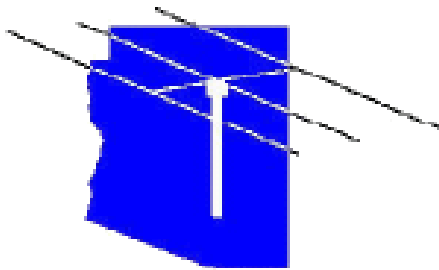
Superstition SuperFest

The Superstition SuperFest is held on the first Saturday of December. Visit www.superstitionsuperfest.org for the latest information.



**Martin Luther King Jr Day
January 16, 2023**





MARCA INC.

In December, we revived our tradition of joining with the Scottsdale Amateur Radio Club for a nice “Holiday Party.” This time around, we were also joined by members of the Central Arizona DX Association. We had a nice buffet dinner at the Eagle’s Nest at Casino Arizona. This was the first time we’ve held the event at this venue. We had a presentation from James Wasson, N7ELL, that covered a brief history of his employer, Medtronics, and an overview of some of the pacemakers and implanted defibrillators that they make, a couple of which are very leading edge, and some related products, both from Medtronics and other companies. James also touched on some of the engineering problems and considerations. I’m sure that both the Hams and non-Ham spouses found it to be a very interesting presentation. There were at least a couple of people in the audience who have first-hand knowledge of what it’s like to have a Medtronics product. I’ll also mention that I’ve seen James do similar presentations several times over the years, and it’s always been a fascinating program. It’s also been exciting to see the progress that they’re making.

I need to report on something that happened regarding our November meeting: When we showed up for the meeting at our usual location, the Denny’s on 48th Street, we found out that due to a shortage of personnel that evening, they were only serving “to-go” orders, and they were planning on closing early. We reconvened at the Denny’s on Broadway, just east of Priest Avenue. If you’re planning on attending the January meeting in person, please check the web page www.w7mot.org for the latest. The web page also will have the info you need to attend via Zoom.

Our “VE Team Liaison” (essentially, the local VE “manager”), Ray Vasquez K4RMV had requested that I help out on the exam session at the Superstition Superfest. I was pleased to do so, though since it was the first time in about three years for me, I spent several hours reviewing the Volunteer Examiner manual from the ARRL. The storm that hit just after the exam certainly triggered my arthritis, to the point where I was having thoughts of moving to the Atacama Desert in Chile.

Clark Jones, KI7TU



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>

January 2023 General Meeting will be a presentation by Gary, AC7R on Ham Radio Mesh Networks

Membership

<https://www.w7ara.org/rcu/welcome.aspx>
You can join the ARA to support these open repeaters! Membership is \$20 per year. Membership info at <https://www.w7ara.org/mbr/Membership.aspx> or email membership@w7ara.net

ARA Board 2023 Election results

President Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Vice President Brian McCarthy, AK7F	ak7f@w7ara.net
Treasurer Cole Cunningham, AA7RD	aa7rd@w7ara.net
Secretary James 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

Tech Committee activities

Interested in how the ARA system is architected? How the radios, controllers, filters, antennas, and power sources all come together to make the systems work? Have skills in assembly, soldering or installation? The Tech committee is always looking for interested members to become part of the tech committee. Contact Dennis Campbell ae7wu@w7ara.net for more information.

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



Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Xterra White Tank Trail Run	White Tank Park	01/08/2023
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

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



AOCC Continued from Previous Column

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.

If you like contesting and have not read Contact Sport by Jim, N3BB, you should get his book. It is a good read based on WRTC 2014 in Boston.

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

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

The fall contest season is over. My belief is that it was pretty successful especially having sunspots to help us out. More strategy is involved in making band change choices or putting in a single band effort. For example, in the CQWWCW contest three of our members chose to do a 15m single band effort. Those members are AA7A, N7DD and K8IA. They were within 20k points or so of each other with AA7A in the slight lead. Log checking will tell us who finished on top. There were many outstanding efforts put in by members. Now we prepare for the Spring contest season.

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

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 – Green Heron Engineering. For example, if you want some automation in antenna selection you might consider Green Heron Everywhere. This can cut down on the number of cables you may need and you can use the software to be able to select antennas on your desktop, laptop or tablet, heck maybe even your phone although I am not sure on that. This technology is not overly expensive. I've been told if you have an older antenna switch that has relays (like I do), the green heron stuff can work the switch remotely. I will be in the process of testing that in the near future.

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.

Here are a couple of AOCC accomplishments - Waiting on results from several contests. I will say that the 2022 CQWWCW contest was a good one for us Outlaws with over 48M claimed points. There were also some good efforts put forth in the terrible conditions of the ARRL 160m contest.

Continued Next Column

No Reports Received



CHAPTER 16
BARRYM.GOLDWATERARIZONA 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.



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FTDX101MP | 200W HF/50MHz Transceiver

- Hybrid SDR Configuration • Upgraded 71 dB Max Attenuation iC-Tune • New Generation Scope Display 3DSS • AER (Active Band Indicator) & MPVD (Multi-Purpose VFO Outer Dia) • 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 + 8M Transceiver

- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled -70dB Maximum Attenuation iC-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/RTY 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 Redible RF Power/With in a compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick-Access 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



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YAESU
The radio

Thank You for a very good 2022. We are so grateful for all our customers.
Thank You for all your support to help us grow this year.
We look forward to you stopping by and seeing us in 2023.
Happy New Year to all of you, from all of us, here at HRO Phoenix.

Now serving you at our Phoenix store:
Manager Ron AJ7T, Mike K7DD, Bob W8RH, Richard K1RAB, Ira AI7HC, Paul N0RWW, and Jim KE7EU.