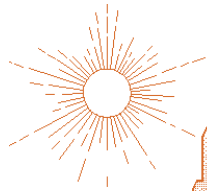


ADAW

10498 Monserrate St
Elk Grove, CA 95757-1765



ADAW

Arizona Desert Aire Waves

Vol 49 No 6

June 2024

CLUB MEETING SCHEDULE

SARC

Jun 6th - 6:00 PM
Granite Reef Senior Center

AARC

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

YARC

Jun 6th - 7:00 PM
Prescott Rodeo Grounds

TBARC

Jun 20th - 7:00 PM
Arizona Christian University

CADXA

Jun 6th - 7:00 PM
Bethany Lutheran Church

ARA

Jun 27th - 7:30 PM
Denny's - Tempe & Zoom

MARCA

Jun 18th - 6:00 PM
Denny's Restaurant - Tempe

MARA

Jun 1st - 9:30 AM
Maricopa Public Library

AzRCCC

Jun 11th - 7:00 PM
AZ Red Cross Bldg

AMO

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

SuperstitionARC

Jun 18th - 6:30 PM
Red Mtn Center, East Mesa

CHRC

Jun 8th - 9:00 AM
Tri-City Baptist Church

ANSR

Jun 20th - 7:30 PM
Via GoToMeeting

NADXA

Jun 4th - 6:00 PM
Via Zoom

OVARC

Jun 21st - 7:00 PM
Pima Comm. College, NW
Campus

KARC

Jun 11th - 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

Jun 3rd - 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. 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	Ingrid Geissler	W7ISG	
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	Thomas James	KK7KHS	vp@chandlerhams.org
Secretary	Charles Fredrick	K5CYA	sec@chandlerhams.org
Treasurer	Ralph Arrendondo	K7RNJ	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	Bud Winters	N7BUD	
Treasurer	Bob Sitterley	K7POF	928.636.2146
Board Members:	Gary Hamman	K7GH	
	Ken Rasback	KK7KEN	
	Tom Raczkykowski	N7MMC	
	Larry Dorrell	KG7TTD	
	Ray Kolman	KI7COM	
	Steve Stock	WA0A	

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	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	Bryan Hubbard	KF7DPC	kf7dpc@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.) for 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. MARCA also has a net every Tuesday evening EXCEPT meeting nights at:00 PM on our South Mountain repeater, 443.050 MHz(100.0Hz tone).

President	Ray Vasquez	K4RMV	
Vice President			
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	KD7RK	president@w7yrc.org
Vice-President	Steve Stock	WA0A	vice_president@w7yrc.org
Secretary	Tim Norton	K7PVY	secretary@w7yrc.org
Treasurer	Jane Lerette	K7ZHF	treasurer@w7yrc.org
Board Members	Byron Wilkinson	KK7BFL	kk7bfl@w7yrc.org
	Debbie Kolman	W1QT	w1qt@w7yrc.org
	Mike Schnell	NC7X	nc7x@w7yrc.org
	Bernie Sakowicz	W1RAD	w1rad@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@nadxa.com to receive the ZOOM invite and password.

President	Lou Arminio, W7KFT	president@nadxa.com
Vice-President	Bob Wertz, NF7E	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 maintains & operates W7ASC aka "The Harkins Ham Shack." It is open to all who visit Arizona Science Center (ASC) in Downtown Phoenix. The station is located on the third floor of ASC in the "My Digital World" gallery.

ASC is open daily, 10:30 a.m. - 4:00 p.m. The ham shack hours are manned by our volunteer staff who are typically in the shack until at least 2:00 p.m. You can also learn more about CARL by searching our W7ASC callsign on QRZ.com.

President	Jack Landon	KD7ROB	480.759.5195
Secretary	Paul Siken	KI7LW	
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	
	Sam Marshall, N7INV	Scheduling	

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	Bob Runke	AB7RR	cowboybob13@cox.net
Vice-President	Josh Cavender	KE7WIL	ke7wil@gmail.com
Secretary	April Kramer	KI7GFJ	kramer5335@gmail.com
Treasurer	John Clancy	KG7DHO	james.clancy.wa@gmail.com
Directors:	Matt Browning	KK7CKE	matt@echhvac.com
	Rolf Nestingen	KG0KM	bignorsk@hotmail.com
	Jim Cummins	N7YO	n7yo.jim@gmail.com
	Mike Stevens	K7BLT	k7bltmike@gmail.com

Committees:			
Membership	Krissy Larson	KI7GJJ	krissyjlanson@gmail.com
Tech Chairman	Jim Cummins	N7YO	
Equip. Donations & Sales	George Forsyth	AA7GS	aa7gs1@gmail.com

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, N7WEM	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: Joe Silvasi KC2J kc2j@arrl.net
Board Member: Wally Wilson W7JCP wally.wilson2011@gmail.com
Board Member: Darren Wright WB1LOV wb1lov@yahoo.com
Board Member: Gerry Rohewski KK7HTF grojewski@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/>.

WEST VALLEY HAM SHACK

The West Valley Ham Shack (WVHS) is a non-profit organization dedicated to preserving the history of radio, electronics, and amateur radio. WVHS is in a building with all sorts of facilities and resources for amateur radio and electronics hobbyists. These resources include: a museum, workshop, library, and fully operational radio station. Ham radio and electronics courses are periodically given. Electronic components, radio parts, and test gear are also available, and ham radio exams are conducted monthly. The shack also has an extensive work bench all the trimmings needed for work on equipment and accessories. Lifetime memberships are \$10.00. Drop by to see this wonderful facility.

President: Fred Peters, K7WFP tpeters5227@gmail.com
Vice President: Gary Franklin, K8BKB franklin6209@att.net
Treasurer: Alven Brite, WE7L alvenbrite@gmail.com
Founder: Dick Stout, KE7RD ke7rd@webtv.net
Director: Krissy Larson, KI7GJJ krissyjlarson@gmail.com
Director: Pat Regan, KB7OM kb7om@yahoo.com
Director: Greg Lahaie, K7YDL gregk7ydl@gmail.com
Director: Bob Manning, KF5NOX private
Director: Bill Powell, W9WRP w9wrp@yahoo.com
ADAW Editor: Bill Powell, W9WRP w9wrp@yahoo.com

Web Page: <https://www.westvalleyhamshack.com>. Lifetime membership fee: \$10.00. Address: 11115 W. Nevada Ave, Youngtown, AZ 85363. Phone: (623) 248-5174
Email: westvalleyhamshack@gmail.com

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

ADAW Staff

PUBLISHER/MANAGING EDITOR

Christine Kesauer N7PVL adaw@adaw.org

AARCEDITOR

Gary Hamman K7GH 480.216.2665

AMOEDITOR

Robert Fridel N3BZ 610.577.6907

ANSREEDITOR

Steve Miller W6SDM 602.290.1603

AOCCEEDITOR

Mike Fulcher KC7V 480.522.4332

ARAEDITOR

Joe Bakas KE7WHE adaweditor@w7ara.net

ATNEEDITOR

Rod Fritz WB9KMO wb9kmo@gmail.com

CADXAEDITOR

Steve Thompson N7TX steven7tx@gmail.com

CARLEEDITOR

Sam Marshall N7INV pdlstl@aol.com

CHRCEDITOR

Debbi Smith KJ7MIQ kj7miq@gmail.com

K7ARC-AzRCCCEEDITOR

Charlie Zurenko N2TFS chazur@icloud.com

KARCEEDITOR

Bobbye Mills KA7MIZ ka7miz@dmbam.com

MARAEDITOR

Cary Gielniak K7CFG cary.gielniak@gmail.com

MARCAEDITOR

Clark Jones KI7TU ki7tu@cox.net

MMRGEDITOR

Bob Sitterley K7POF k7pof@yahoo.com

NADXAEDITOR

Ron Gerlak KG7OH 480.356.3663

OVARCEEDITOR

Steve Wood W1SR nauset2222@yahoo.com

QCWAEDITOR

Carl Foster KB7AZ carlfoster@cactuscomm.net

SARCEEDITOR

Gene Geller K0VN 612.670.9358

SunlifeEDITOR

Vacant

SuperstitionARCEEDITOR

Larry Kuck WB7C ellsworth@us60.us

TBARCEEDITOR

Bruce Kabana WB7SRC cjeep82@cox.net

WVARCEEDITOR

Bob Conlin KJ7JNR tallbob14@gmail.com

WVHSEEDITOR

Bill Powell W9WRP w9wrp@yahoo.com

YARCEEDITOR

John Snedden KT7P kt7p19@gmail.com

ADAWEMAIL

adaw@adaw.org

ADAWWEBSITE

www.adaw.org

ADAW

From the Editor's Desk

Greetings!

I want to extend my sincere apologies to the West Valley Ham Shack for placing the wrong column under their logo in last month's edition. And apologies to the Yavapai Amateur Radio club whose column was duplicated and put under West Valley Ham Shack's logo. The time line for the May issue was extremely short on this end, and I picked up the wrong column when rearranging the content. Thank you Bill, W9WRP, for alerting me of the error and sending the correct information to the WVHS members.

Are you ready for summer? The longest day of the year (that's the first day of summer) is just around the corner. Unfortunately, there aren't any hamfests in the north country for you to enjoy this month. However, there is the ARRL Field Day on June 22 and 23rd. Clubs throughout the state are planning get togethers to operate over this 24-hour event. Most plan an entire weekend around it. It's a great way to learn from seasoned amateur radio operators, practice your communications skills, and just have a wonderful time with your fellow hams. Check out what your club has lined up for Field Day, and plan on taking part. You'll enjoy it!

The next hamfest in Arizona is the Flagstaff Hamfest in - yeah, you got it - Flagstaff! The event returns to the Sinagua Middle School on July 20th and plans to be even bigger and better this year. There are more talks, seminars, meetings, and prizes. The inside vendors and meeting rooms will be air conditioning for your comfort, and a shuttle bus is being added to take visitors from the main hall to the swap meet area for your convenience. An informal get together dinner is planned for Friday evening (7/19) at Sizzler Restaurant at 5:00 PM, if you'd like to join in.

A new swap meet has been added to the event lineup. The Rim Country Amateur Radio Club will present their first Swap Meet/Amateur Radio Event on September 7th at All Seasons Lodge/Barn on Bison Ranch Trail in Overgaard. There will be covered and uncovered spaces, prizes, VE testing, and radio communications demonstrations and operations. Admission and swap meet spaces are free. Plan to check out this debut event and help to make it a success. It'll be cooler there than in the valley!

That's it from me. Have a wonderful month.

See you next time!

Christine, N7PVL

ADAW





**Douglas Ward - K7AEZ
(Extra Class)**

Doug was the Sunlife Amateur Radio Club's representative for the ADAW newsletter. He did a wonderful job - which seemed to be his forte and niche in life.

Doug's working career consisted of being a production engineer in the auto industry, a commercial landscaper, and a commercial photographer. He lived at Apache Wells and could usually be found operating portable on his backyard patio.

Bill Maynard W7ZT was one of Doug's Elmers. Besides sharing his technical ham expertise, Bill would encourage Doug to give back to the ham community by helping others, especially the new ones to the hobby. With that, Doug volunteered to test new hams through the ARRL VE Testing Program, volunteered to help run the Superstition ARC Super Fest, volunteered as an active member of the National Weather Service Skywarn program, and generally helped any ham who needed a hand. Doug was very proud of his efforts to give back to the ham community.

As Doug was an accomplished talker, you can probably guess that SSB was his favorite mode. Doug is the guy who would always want to rag chew with the POTA activator who is trying to manage a pile up. He was never satisfied with just a short contact. He was both a POTA activator (4 activations / 91 QSOs) and hunter (168 parks / 200 QSOs).

Doug's favorite activity was hunting DX with one of his homemade antennas. Doug was never happier than when he was telling his friends about his latest DX portable contacts.

Doug took great pride in logging all his contacts. He always added special notes to his logs that would remind him of the special aspects of his contacts. Because of his extraordinary logging effort, he would love sharing his logs with his ham friends.

Doug truly loved his fellow hams and would regularly follow his friends' ham activity on the POTA, SOTA, and QRZ websites. He said he wasn't in it for the numbers, but enjoyed boasting about the total number of logged QSOs he had.

Continued Next Column

SunLife ARC Continued from Previous Column

This past year, Doug was very active operating portable at his favorite locations: Red Mountain Park, Lost Eden, Utery Regional Park, Peralta Regional Park, Pobrecito - Tonto NF, and Weavers Needle Vista - Tonto NF.

He loved building antennas and was very meticulous in his workmanship.

Doug also loved to attend hamfests with his good friends Terry Laduke W7RNF and Dick Vance K7NEX. He usually brought home a treasure that would advance his portable station.

With the recent passing of his mother, Doug turned to his Sunlife ham family to help fill the void. Doug lived with his mom and was a wonderful son and caregiver.

Doug was a wonderful Ham operator, an asset to the Amateur Radio community, and a fine gentleman. We at Sunlife ham radio club, and I am sure Superstition ham radio club, surely miss him.

The Sunlife Amateur Radio Club
Sunlifearc.org



Doug & Bill at SunLife Picnic



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.

June Test Sessions

Jun 1st - Chandler Ham Radio Club -- 10:00 AM

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

Contact - Byron Garranbrant ve@chandlerhams.org

Walk-Ins Allowed / Registration or Call Ahead

Register at: chandlerhams.org/testing/

Jun 1st - 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)

Jun 1st - Kachina ARC -- 9:00 AM

Taylor/Snowflake Fire Dept, 425 Papermill Rd, Taylor

Contact Vincent Cattolica 520.591.4576

Jun 3rd - 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

Jun 10th - 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

Jun 10th - Radio Society of Tucson -- 7:00 PM

Immanuel Presbyterian Church, Witherspoon Hall

252 E 22nd St, Tucson

Contact - Diane Zimmerman 520.664.5070

Jun 15th - 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

Jun 15th - 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

Jun 19th - Thunderbird ARC -- 6:00 PM

Northwest Christian Academy School, 16401 N 43rd Ave, Phoenix

Enter Gate 9, Room 423

Contact - Walter Reinert 602.668.7804

No Walk-Ins / Register or Call Ahead

Jun 21st - 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

Jun 29th - Superstition ARC -- 10:00 AM

Mesa Public Library, Saguaro Room, 64 E 1st St, Mesa

Contact - Matt Churchill 602.739.6496

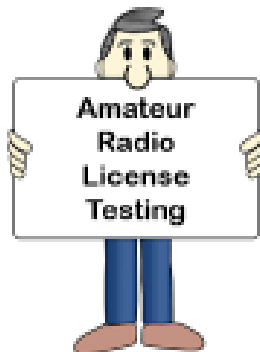
Jun 29th - Arizona ARC -- 10:00 AM

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



June 22 - 23

Hamfest Calendar



20 July 2024 - **Flagstaff Hamfest** - hosted by the Northern Arizona DX Association and sponsored by the Amateur Radio Council of Arizona will be held at Sinagua Middle School, 3950 E Butler in Flagstaff. Hours are 7:00 AM to 3:00 PM. Grand and Hourly Prize Drawings, Tailgating, Lunch On-Site, Presentations, Inside Vendors, VE Exams. Talk-In - 146.98 (-) Tone 162.2. Visit the website at FlagstaffHamfest.org or NADXA.com/Events/Hamfest.org for all the details. Or send an email to: info@flagstaffhamfest.org

7 September 2024 - **RCARC Swap Meet/Amateur Radio Event** - hosted by the Rim Country Amateur Radio Club will be held at the All Seasons Lodge/Barn, 2365 Bison Ranch Trail in Overgaard. Hours are 8:00 AM to 1:00 PM - Set up at 7:00 AM Free Admission and Swap Meet Spaces. Covered and Uncovered Space Available. Raffle & Door Prizes, VE Testing (email contact person), and Radio Communication Demonstrations and Operations. Talk-In - 146.8MHz, 162.2kHz Tone For more information visit the Web Site W7RIM.COM or email Bill Hansen at w7rimradio@gmail.com

5 October 2024 - **TARA Swapfest** - hosted by the Tonto Amateur Radio Club will be held at the Ponderosa Bible Church, 1800 Beeline Highway in Payson. Hours are 8:00 AM until Noon. A Social BBQ/Potluck will follow the event. Contact Rick Lovdahl at rick.lovdahl@gmail.com for more information.

5 October 2024 - **RST Fall 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 up-to-date information, visit the web site at <http://www.k7rst.org>

2 November 2024 - **HARKfest** - hosted by the Hassayampa Amateur Radio Klub (HARK) will be held at Redeemer Lutheran Church Annex, 470 Rose Lane in Wickenburg. Hours are 8:00 AM until Noon. Watch for more details.

7 December 2024 - **Superstition Superfest** - hosted by the Superstition Amateur Radio Club will be held at Mesa Community College, US60 & Dobson Rd in Mesa. Hours are 7:00 AM until 2:00 PM. Watch for more details.

Hamvention 2024 was fabulous. Even if you didn't get there, you'll probably see lots of deals aimed at the Hamvention event. So, if you're looking for a radio or another item, this could be a good time to find a good deal.

Tom - KK7OMV, connected us with the Boy Scouts to participate in their local Camporee. A bunch of OVARC members went to the event and had a good time setting up and talking about ham radio. Gerry - KK7HTF commented on the cleanliness of the restroom facilities. We plan to participate in future Boy Scout events as well.

On Friday, April 26th, thanks to Jerry K7HT F, we participated in the Pima Community College STEAM night. This was a family night for students and their family to see some of the science related activities going on at Pima Community College. We had quite a good turnout from OVARC members and we also had our Go-Box station on the air demonstrating amateur radio.

We participated in the 7QP contest as a primer for Field Day. The K3 station came together nicely and we were on the air in no time. It was a great exercise for us although the bands did not seem to be lively in the particular location where we were. We were hoping for more activity on 10 meters. Nevertheless, it was a great experience for all of us and we are that much more prepared for Field Day

I had my first opportunity to see our installation at Keystone Peak a few weeks ago. Mountaintop repeaters are pretty special and Keystone definitely fits this description. The views at the peak were incredible and so was the change in the temperature at that elevation. Thanks to David AK2L for inviting me.

Try to get your last outing in before we hit the century mark. No matter how, just get on the air.

73,
Steve - W1SR

ADAW

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Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
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

AOCC Continued from Previous Column

MST (medium speed test) on Mondays at 20-25wpm and the SST (slow speed test) for leisurely CW or new CW operators and contesters with speeds up to 20wpm. All these can be looked up online. They are short, fun events to participate in and build your skills.

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 the January 2024 version of the NAQP CW contest, the team AOCC Ambushers finished 2nd, ending a 7-year run of having the #1 team. It was close though, finishing 2nd by a mere 37k points. Steve N2IC finished #1 in the QRP category.

AOCC has finished #6 USA Club (#13 World of 78 Clubs) in the latest CQWPX RTTY 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

I apologize to our members as I missed the May ADAW deadline. I was traveling for work and spaced it out. CQWPXCW will be over by this edition and hopefully conditions remained strong for the contest. It is one of my favorites. Many club members are participating in the various state QSO parties. This is good to see as they are a fun way to spend some operating time. We are headed into the VHF contest season with ARRL VHF in mid-June and CQ VHF in mid-July. Both contests get a lot of participation. Get your stations ready, at least for 6m. The ARRL VHF contest has good activity on 2m and 432, along with some 1296 activity. It is also a great way to work new grids if you like to chase them.

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. We will consider an alternative to the ladder and are open to suggestions. This may be the last year for the ladder. Those verifying everything and maintaining it wish to step down. The ladder requires good Excel understanding to tally and finalize results each year.

Elections for the 2024-2025 AOCC year will be held in May. Please consider holding a position on the AOCC board. Steve, KJ5T, is our new webmaster taking over from long-time webmom Sandy, N7RQ. Sandy did a brilliant job over the years having developed an awesome website and AOCC logo. We all thank her for the work she did.

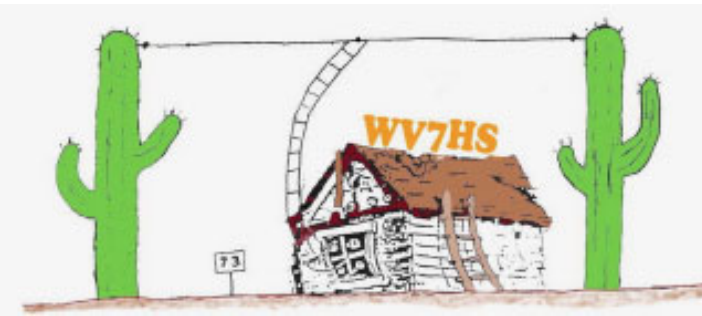
Led by Chuck, KF7U, AOCC has moved our reflector to groups.io. This gives us more features such as attachments. If you are an AOCC member, and have not received an invite, reach out to Chuck at Chuck_KF7U@outlook.com

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 – Improving CW Skills.

Every Wednesday, locally at 1300z, 1900z and Thursday 0300z and 0700z there are 1-hour CW operating events. These are great for working on your CW copying skills or practice “running” stations. Scores get posted on 3830 but there are no winners or certificates except for participation. There are awards for overall operating for the year. There are also the

Continued Next Column



WEST VALLEY HAM SHACK

If you are in the market for vintage gear, we have several lots still available from the auction held earlier this year. Our website lists Auction Closeouts and eBay Auction Items to choose from. Many of the closeout items are Hallicrafters and include receivers, transceivers, and other radio-related equipment. The eBay auction items include more specialty and hard to find items. Go to the website to browse: westvalleyhamshack.com. See the example item picture of a Hallicrafters S-40A receiver.



On May 1, The Shack hours changed to the summer version (09:00 a.m. to 1:00 p.m., Tuesday through Saturday). Classes are still held mostly on Mondays when the facility is closed. A monitor is present during the open times, so drop by to say hello and check out the resources available.

When you visit the facility over the next couple months, you may see some construction to improve the HVAC system. The modifications should be more efficient and make it more comfortable for visitors. Construction should not adversely affect any of the ongoing activities.

The WV7HS repeater is again operational. Currently the repeater is analog only, but in the future, it will be configured for DMR operation. If you are in the NW valley, give it a try. Access: 441.775+/100.0 Hz

Next VE testing session is Saturday, June 15th, from 9:00 a.m. to 11:00 a.m. Please call David Morrill at 623-680-5011 to preregister for your exam.

Do you have a piece of radio gear that is not operating, and you would like to get it back in working order? The Shack may just have what you need to make that happen. If you can do the repairs or modifications, you can use the test equipment to do the work. Other members can also help with diagnoses and repairs if needed. You might be able to repair equipment very inexpensively. Many parts and supplies are available too.

Continued Next Column

For Sale / Wanted



**LOOK!
Great Deals!**

For Sale

For Sale (New Lower Price!) - "The Dominator" 6 meter, 5/8 wave vertical antenna. Made like a tank in Italy by SIRIO. Is in perfect condition in Tucson. \$50

Contact Richard Bruns, K7VQ at d_brunz27@yahoo.com

For Sale - From the Estate of Doug Heller, KE7NF
Palstar Amplifiers # LA-1K. Solid state, like new condition (new unit cost \$3,695 - <https://www.palstar.com/en/la1k/>). Make offer

Palstar HF-Auto Tuner # PAS-HF-AUTO - 1800 watt, companion (matches design of Palstar Amplifier). Like new condition (new unit cost \$1,695 - <https://www.palstar.com/en/hf-auto/>) - Make offer

ICOM 7200 HF/50MHz 100w Transceiver - Like new condition \$750 obo

ICOM 7300 HF/50MHz 100w Transceiver - Like new condition \$900 obo

Miscellaneous items for sale at google photos link here <https://photos.app.goo.gl/H6LXBW4im9hhf3wm9>
Make offer.

All reasonable offers will be considered!

Contact: Kevin, K9NTZ at 317.523.9909

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: George Forsyth, AA7GS - aa7gs1@gmail.com

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

WVHS Continued from Previous Column

Our June class schedule is still being planned. See the website for the most up-to-date information about events and classes. <https://www.westvalleyhamshack.com/calendar-of-events>

Have a great month!
73, Bill Powell, W9WRP





CADXA Continued from Previous Column

transmit there, your chances of being the next station the DX selects is high. If you guess wrong, someone else will win. If you listen well enough, you may discover a pattern that enables a very shrewd guess as to where the DX will listen next. Now, some really rare DX stations have howling pileups. Just avoid those. Look for one like Figure 1.

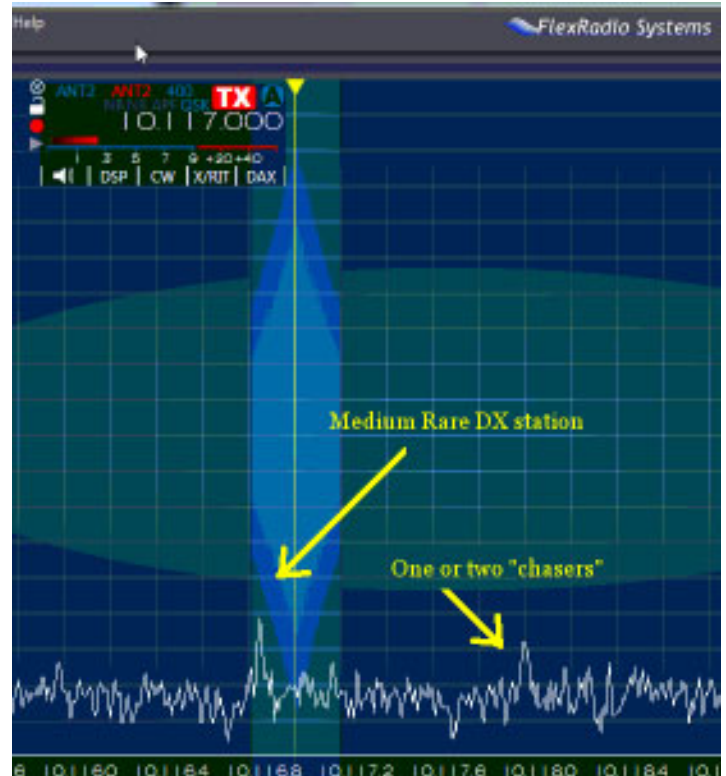


Figure 1:

Beginning DX – Part I
by Larry Loen, WO7R

Interested in working DX – distant stations? Here’s how to get started.

For a station, you don’t need much – a basic one hundred watt HF rig and simple wire antennas. Just make sure the antennas are efficient. Easiest? Put up a 20-meter dipole. If it has good SWR, it is probably a good enough performer to start with. Just get it up as high as you can – at least 20 feet. If you can’t manage that, try 15 or 17 meter dipoles. For licensing, you only need a General class license. So, get your General or maybe even your Extra.

How do you actually do it? Many DX stations have limited English. So, they often prefer contests or just sitting on a frequency working as many stations as fast as they can. For the basic countries like France or Wales (yes, it counts separately), they are easy to work. Big secret: nobody cares if you actually turn in a contest log. This happens all the time. Just learn the proper contest “exchange” and go for it. This is by far the easiest way to run up a big score. Eventually, you will care about whether it is France, Guadeloupe, or something else. To get started, just work everything you can.

If you contact stations in contests, especially on bands like 15 and 20 meters (you can put up a “fan” dipole and work both bands from one antenna), you will start to learn about propagation. Basically, you’ll hear Europe and Africa in the morning, South America and the Caribbean throughout the day, and Asia and Pacific just before sunset and (on 20 meters) into the evening.

Soon, you’ll hear what we DXers call a pileup. As a beginner, you will want to avoid those. There’s a lot of DX to be worked that is easy to do and on the same frequency you listen on. Just like a stateside HF net, really. But, you’ll soon realize that many stations that “should be” easy to work keep saying “up five” and don’t respond to you. What’s that all about? When a DX station has many hams calling him or her, their strategy is to transmit on one frequency and then listen “up” – that is, to a different, higher frequency. Almost all HF rigs have two VFOs and can be put into a “split” mode that transmits on one frequency and listens on another. The DX will transmit on the lower frequency and you have to guess how far up (higher in frequency) the DX is listening. If you can figure that out and

ADAW



June 14th

Continued Next Column



NADXA Continued from Previous Column



NADXA

The NORTHERN ARIZONA DX ASSOCIATION is a DX club and so much more. Our Officers are: President – W7KFT: Lou Arminio. Vice President: NF7E, Bob Wertz. Secretary: KR7RK Keith Schottman. Treasurer: W7SS, Ken Held. 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 9:00 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/>

FLAGSTAFF HAMFEST

Be sure not to miss Dave Casler in person, KE0OG as he presents to the “Oggies World Wide” right here in Flagstaff, Arizona.



Dave Casler



DX IS

This list is a good first step to finding, working, and confirming many DX stations. Knowing who may be out there, what bands, frequencies, times and even more like where and how to confirm contacts. Look up their call sign on QRZ.com. This short list is likely to grow. Much more information and current updates are available at: <https://www.ng3k.com/misc/adxo.html>

Fred Lloyd, AA7BQ: President & Founder of QRZ will be presenting. The ARRL will have their Arizona and New Mexico Section Managers at the ARRL QSL card checking booth. There will be donuts and hot drinks in the morning then pizza and pop available for lunch. The Tailgaters will have a bigger area than last year and the presentations, inside vendors, VE testing and Navajo Code Talkers will all have air conditioning.

This event is presented by Northern Arizona DX Association, in association with ARRL and sponsored by The Amateur Radio Council of Arizona.

DON'T MISS THIS ONE!

Start Date	End Date	Location	Call Sign
2024 May30	2024 Jun10	Pitcairn	VP6DF
2024 May30	2024 Jun20	Crete	SV9
2024 Jun01	2024 Jun15	Mozambique	C91AHV
2024 Jun16	2024 Jun29	Maldives	8Q7JF
2024 Jun18	2024 Jun30	Tanzania	5H3DX



Navajo Code Talkers

CONTESTS & SPECIAL EVENTS

The ARRL is sponsoring four contests during June 2024.
 June 1 - 2, International Digital Contest
 June 8 - 10, VHF Contest
 June 15, Kids Day
 June 22 - 23, Field Day This is the biggest ham radio event of the year. Don't miss it.

The ARRL web page with links for additional information is: <http://www.arrl.org/contest-calendar>. Also check out the following website for lots of opportunities. <https://www.contestcalendar.com/>. This one has several calendars and include contests that are not sponsored by ARRL.

From boB's Corner (NF7E)

Yes, that is how the club refers to me, as there are two Bob's in our club so they recognize me as boB!

We are all working hard preparing for the FLAGSTAFF HAMFEST in July!

Our second Hamfest in as many years, is going to be great! We are making a number of positive changes including moving the tailgating area to the main parking lot out front and using the larger parking lot in the rear of the complex for visitor parking. This brings the visitors closer, with easier access to the inside vendors & common areas Then we are adding a shuttle van to

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All who attended our Spring picnic on April 27th at the Rio Verde Park in Peoria had a great time. The food was good and the conversation was nonstop. The club supplied the main dish of pulled pork and brisket from Pork on a Fork, and members supplied the side dishes. We started about 1:00 PM and started to disband around 4:00 PM. I think the only down side of the day is when the subject of MFJ shutting down was brought up. This is not the first time that a ham radio manufacturer has closed their doors and will not be the last. But when a company that represents so many brands closes, it will make a dent in our hobby. I just keep hoping that someone will step up and pick up the pieces.

Now that our Spring picnic is done, I must start on the Fall Picnic in October. We have changed our venue for our first Saturday breakfasts, our second and fourth Wednesday lunches, to Fast Eddies on Bell Rd. and 33rd Ave. Our before meeting dinners are now at the Denny's at Thunderbird Rd. and 51st Ave. It is time that we start looking at our other events for the year. Since the weather is starting to warm up, we must look at moving to the high country or move indoors. We are looking at doing a POTA on the rim, along the General Crook Trail in June and of course we will be back in Flagstaff for Field Day, and doing the Arizona QSO Party. I believe that we have a full calendar for our presentations, and we are looking at doing some workshops as well. We are negotiating with the Arizona Christian University to create a permanent Amateur radio station on the campus, and invite students to get their licenses and join the club where they will have access to the station. Some of our members have asked about Fox Hunting so we have invited Byron Garrabrant N6BG to do a presentation on the subject, which he has done for us in the past. If received well, we are planning on doing a workshop to make the tape measure Yagi antenna for 2-meters which will be used for hunting, and then we will try to put on some hunts.

Since we are approaching midterm and elections are just a few months away, our members may want to start considering if they would like to run for the Board. One of our biggest goals is to get more members active within the club, I always tell them that this is their club and it is what you make of it!

73
Bruce Kabana, WB7SRC



NADXA Continued from Page 14

help move people back and forth to the tailgate area.



This year we will have cool air-conditioned auditoriums for our speakers and their programs.

We have some amazing raffle items including the YAESU FTdx 101D! In fact, our raffle items are the most expensive in the state.

And talk about DOOR PRIZES! We have so many door prizes that we will be giving away six or seven door prizes each hour, starting at 8:00 a.m. through 2:00 p.m., There are seven door prizes valued at \$100 or more, including two valued over \$200. WOW! Each admission ticket will also get you one door prize ticket! You can buy extra tickets if you like!

Mark your calendars now for Saturday, July 20th and plan to join us!

73,
boB, NF7E
Contributing Editor

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



June 20th



President - Dave Hoffman KJ4RS
 Vice President - Thomas James KK7KHS
 Treasurer - Ralph Arredondo KK7RNJ
 Secretary - Charles Frederick K5CYA
 Member at Large - Dave Nolan K0NNN
 Member at Large - Matt Fiscus KK7MNZ
 Member at Large - John Calkins KK7MTH

Weekly Nets

Digital Net - Tuesdays at 7:00 p.m. Everybody with a hotspot is welcome to join us. <https://urf847.kk7mnz.com/>
 CHRC Weekly NET - Thursday 8:00 p.m. 443.050 MHz + PL 100 Hz

The CHRC board has been busy with several revamped and new initiatives. We have refreshed our logo and are working hard to modernize our club website.

CHRC's PRIMARY AREAS OF FOCUS:

CW - Learn from beginning to advanced and potentially have club support for group activities and gear purchases.

ANTENNAS - (Charles Frederick - K5CYA) Learn, build, and use all manner of antennas!

HT / HF OPERATIONS - Learn the basics to the advanced in the use of HT and HF units, including programming and use in field exercises such as POTA and SOTA or Preparedness scenarios.

DIGITAL - (Matt Fiscus KK7MNZ) Explore the various digital modes of operation and potentially have club support to purchase and build hotspots and other digital devices to expand your Ham Radio journey!

The CHRC now has a multi-mode digital reflector. It can handle YSF, D-Star, DMR, M17, P25, and TGIF talk groups. We conduct a digital net on Tuesdays at 7:00 p.m. Everybody with a hotspot is welcome to join us. <https://urf847.kk7mnz.com/>

RESPONSE STUDY GROUP - (T.D. Kennard, N7ISR) We are meeting for the study of the Incident Command System (ICS) focusing on four nationally recognized training courses: IS-100, IS-200, IS-700, IS-800. This will be instructor-led via Zoom.

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CHRC Continued from Previous Column

CHRC'S COMMITTEES:

TECHNOLOGY - (Matt Fiscus KK7MNZ) - New Website is being deployed with a new logo!

WINTER FIELD DAYS - (Charles Frederick - K5CYA) - We already started making plans for the 2025 WFD where we will operate the full 24-hour period.

OUTREACH COMMITTEE - Craig Dupree, N6FCU

HOSPITALITY COMMITTEE - Dave Nolan K0NNN, Debbie Smith KJ7MIQ

Monthly Club Meeting - We have a great lite breakfast selection at our monthly club meeting. Please join us. Monthly Club Breakfast - We have a monthly club breakfast at IHOP, 3877 S Arizona Ave, Chandler, AZ 85248. Quarterly Lunch After Meeting - We plan on having a quarterly lunch meeting in the fall of 2024.

VE TESTING COMMITTEE - (Byon Garrabrant N6BG)

5/4/24 VE Session Report - Congratulations to the 12 sign ups and 1 walk-in:

- 8 new Technicians
- 1 new General
- 3 new Extras



 **Happy
 Father's
 Day!** 
June 19th



Superfest Committee Report by Eve, W7EVE

The Superstition ARC Superfest committee has a new, organizational framework to coordinate resources and have clear roles and responsibilities for our volunteers. This will allow for a more enjoyable experience for volunteers as well as the attendees.

With this additional organization, we will have the opportunity to showcase the Superfest as a Hamfest and Electronics Show, with the goal of attracting not only new and existing amateur radio operators, but non-Hams to introduce them to the hobby.

Of course, we can't forget the prizes! Grand prizes have been purchased, and they are not to be missed; first prize is a Yaesu FTDX-10, second prize is a Kenwood TH-D75A HT and third prize is a Yaesu FTM-500DR. The Superfest website has been updated and grand prize tickets are available now. <https://store.superstitionarc.org/tickets>

Amateur Radio Emergency Preparedness Act

Companion bills, S. 3690 and H.R. 4006 have been introduced in each house of Congress. The bills have yet to be passed by either chamber.

I saw the Congress.gov Tracker for H.R. 4006 with the string of words Introduced>Passed>Passed>To President>Became Law and submitted the news that the bill has become law to our May Communicator. Unfortunately, I failed to recognize that the Tracker had only highlighted the Introduced step.

My bad. — Larry WB7C

Club Meeting is Tuesday, June 18 at 6:30 PM

Located at Red Mountain Center on E. Adobe St., Mesa, our meeting is held in Rooms 5 and 6. Visitors are welcome.

The Charles K Luster Building is due to reopen in July, following its refurbishment since last January. If that comes true, then July's meeting will be back on North Mesa Drive. Otherwise, we will meet another time here at Red Mountain Center. Please see our NEW SuperstitionARC.org website for the latest.

President's Corner by Steve, KB7KWK (May edition)

Hello fellow club members. I hope all is going well. I start this Month's article on a sad note. The club lost a long time club member on Thursday, April 25th. Doug Ward, K7AEZ has become a silent key following injuries from a fall one week earlier. Doug liked to go out with the group to Red Mountain

Superstition Continued from Previous Column

park to chat with people and talk on the radio.

While there, he was carrying some items and lost his balance. Emergency crews were called to the scene. He had a couple of broken bones in his leg that required surgery. After only a couple of days he was sent home.

I understand at some point he ended up with a blood clot and was back in the hospital. He passed away a couple of days later. Doug, thank you for always taking the time to talk to me at all of our club events. We always had great conversations, and I always admired you for the care you had for your parents in their advanced age. I will miss our conversations and will never forget you. Until we meet again, I bid you a final 73.

The club picnic was a very big success. I was unable to be there this year. However, I heard a lot of great things about it. There was the normal telling stories around the campfire and people telling lies. I wish I could have been there. All the camp spaces were used, and there were 28 people that attended lunch.

A big thank you goes out to our Vice President Dave, KC7MAD for putting that together. There was a cost of \$15 per person for lunch and that just barely covered the park fees. I look forward to being there next year. We also plan to have more campouts in the future.

Our next outing will, of course, be Field Day coming up at the end of June. We always have a great turnout for that event and I look forward to seeing everyone there. We always have a great time there.

As most of you know, the club put up a 64-foot tower there at the end of last year. The tower was mainly put up to assist with cell phone coverage at the site. It will also be used for some Ham radio antennas at some point in the future. It will not be ready to use for Field Day this year. The club is still working with the landowner to work out some details but we hope to go forward with the project soon.

On Tuesday April 30th, Josh, KE7WIL drove up to meet with the Verizon team at Lost Eden. They did a survey on the site to see if a cell phone repeater will work there the way we hope. April 30th is the day after I wrote this article so I do not have the details yet. As soon as Josh reports back to me, I will pass along the information. Thank you, Josh, for taking time out of your schedule to drive two and half hours to meet the Verizon team.

Thank you to all the Team leads who are taking time out of their busy schedules to help this club out. Without all of your help, things would never get done, and the club would not grow.

73 for now and I will catch you all on the air or at club meetings.

Deadlines to Include Your Input in Our Publications:

The Club publishes this column and the club Communicator newsletter. We welcome your input to both publications.

The Communicator: Please email . . .

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Superstition Continued from Page 17

Editor@SuperstitionARC.org with your input by May 27th. The Communicator will publish to club members in early June.

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

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

Wow! Solar Cycle 25 has come alive with all sorts of spots, flares, ejections, and space-traveling particles for all of us to enjoy. Arizona's Central Highlands were even treated to a couple evenings of colorful dancing Northern Lights. Of course, the downside was having a weekend of blank scopes and lots of noise during the Military Crossband Exercise. Mother Nature just seems to have more fun with Amateur Radio Operators whether it is seasonal as in local weather phenomenon or space weather storms that move at the speed of light. She can be a very noisy neighbor!

A big THANK YOU to our Ham Operators who worked the Whiskey Off-Road Bike Race at the end of April. The three-day event started Friday afternoon with the 15 miler and ended Sunday afternoon with the 50-mile Pros. Rain, sleet, snow, and wind came in during the race and the last part of the 15 miler had to be shortened and returned to the asphalt. Saturday brought out more weather issues and close to 2,000 bikes on both the 30-mile circuit and 50-mile circuit. With the many microclimates in the Prescott back country the bikers ran into a bit of everything. We were fortunate to have the Southern Arizona Rescue Association (SARA) working the event with the 782 Rescue Truck, a Medical Team with a tent next to our MARC Comms truck, and they are Ham Operators. We had several medical issues early on and being able to communicate with medical staff and on-scene operators was a major victory. Collar bone injury, broken ribs, head injury, and scrapes and bruises kept the teams busy. Some of the area is only accessible with a bike, quad, or on foot, and our broken ribs case was in one of those areas. Our Operator was on a quad, the medical team hiked in with a Stokes basket, loaded up the patient, held the Stokes on the back of the quad, and slowly moved up the hill to a roadway for an ambulance transport. No cell coverage in the area and no vehicle access, when all else fails.... Ham Radio is there! This weekend just happened to be the ten-year anniversary of the big snowstorm that came in on the race in 2014. The race was shut down and school buses sent out to round up the riders before hypothermic conditions set in. You just never know.

June brings us to the "halfway through the year" and the "where did it go" wake up call. Have you upgraded your license yet? Done a POTA or SOTA yet? Become a VE yet? Made your DXCC award yet? Worked a DXpedition yet? Signed up to work a public service event yet? Volunteered to be a Mentor or an Elmer yet? Operated a Special Event Station

Continued Next 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.

ADAW

YARC Continued from Previous Column

(SES) yet? Chased the ISS or worked the satellites yet? Worked meteor or airplane scatter yet? Well, if you have, congratulations and step on out to the next adventure of your choice. If you haven't, well, why not? You still have half the year left so why not step on out and try something new. Just pick a radio adventure and make it happen!

Fire season is here now, triple digit days are in the valley, and the monsoon season is up next. Stay alert, look around you, and if you see something, say something! Don't hope that someone else called it in or wonder if "they" know about it yet, be Radio Active, be part of the solution and not part of the problem.

Stay safe, be healthy and play radio!

73, W7YRC





AMATEUR RADIO SERVICE DEMONSTRATION STATION

CARL volunteers get to introduce school groups and families to amateur radio every day in the Arizona Science Center. Essentially, CARL is a youth recruitment department for all the other clubs in ARCA. We focus on people, not radios. So don't expect this monthly report to sound like the rest.

CARL and ASC Supports STEM Education With Upcoming ARISS Contact

CARL believes that young people with the “knack” for technology who discover what they can do with ham radio open themselves to opportunities they'd never considered before. Many students coming through our station on school field trips show great interest and are perfect fits for science, technology, engineering, and math (STEM) fields. A ham license can help pave their way to STEM. Many of us old timers already followed that path to rewarding careers and want to give back.

In our ongoing effort to utilize amateur radio in encouraging STEM education, CARL/W7ASC and the Arizona Science Center are proud to announce that ARISS selected us for an upcoming International Space Station contact! The Arizona Science Center will provide an educational package to go along with this using their popular science camp curriculum. Wireless technology and satellite radio communications will be included in the special material that will be presented. The 10-minute long contact will allow these students to learn firsthand what it is like to live, work, and perform scientific research on the ISS. More will be posted in the coming months.

A VINTAGE HAM STORY -

Since CARL is all about the human side of ham radio, we love to share stories of people's lives improved by radio. This month we bring you the third installment of “A Vintage Ham Story,” a young boy's tale of discovery and his fumbling steps to find his rightful place in the world he is growing up in.

Last month, young Sam (a rare fiction that's NOT a figment of ChatGPT) explored the CB walkie-talkies he got for Christmas. This month, he and his buddies discover Morse code. Sam's story might even resemble your own – or maybe your grandfather's – origin story. So, for your reading pleasure...

The Original “Bro” Code

“I'm going to send a Morse message. Tell me when you're ready. Over,” said Sam.

CARL Continued from Previous Column

“Roger. I'm ready. Send slowly. Over,” replied Johnny.

And the “beeps” commenced. The ability to talk to one another really helped when learning Morse code.

What happens when radio technology of their parents' generation from the Second World War falls into the hands of 11-year old boys 25 years later? Answer: The boys can't get enough of it!

That's what happened when Sam and Johnny discovered Morse code on the walkie-talkies. In TV and movies, the spies and field agents beeped secret messages in Morse code back and forth to one another. The boys tackled the code so they could send secret messages, too. Anyone can talk into a microphone. But only real radiomen can talk with only a push button.

The sending was easy: Look up the letter, send a short beep for a “dot,” and a long one for a “dash.”

But making sense of the rhythms spilling out of the receiver was the hard part. At first, Sam and Johnny sent slowly enough that the other could either write down the dot-dash pattern or else scan the dot-dash table on front of the walkie-talkie, find the pattern matching the beeps, and write down the letter. After a while, the more commonly used letters became familiar by ear, so the table look-up got faster. And eventually, the boys had memorized the table and could do the “look-up” mentally without referring to the printed table.

They didn't know it, but they walked in the footsteps of the first telegraph operators. Originally, Samuel Morse and his assistant Alfred Vail intended the Morse code to be a written language of dots and dashes printed on a moving paper tape. Their receiving mechanism used an electromagnet with a pen-like stylus on an arm. When the magnet operated, the stylus made an impression or tiny dent in a paper tape that wound past a clockwork motor. The operator then read the tape and translated the marks into English letters.



But, over time, the operators found that they could just listen to the stylus click-clack rhythms and write the letters. They didn't need the paper tape. And thus Morse code went from a written language to a purely spoken language. The only pen-to-paper was no longer dots and dashes, but English letters.

Kent heard about it. “Hey! What're all those beeps about?” he said.

“It's Morse code. We're learning how to send messages that no one but us can understand,” replied Johnny.

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“That sounds kinda cool. Can I try it, too?” asked Kent. And then there were three. It might be nerdy, but Morse as a “bro” code certainly was contagious.

The three scampered through the woods near their neighborhood. As most boys did at that age, they played “army,” hiding from one another, trying to ambush each other with mock combat. Hide and seek with a Second World War theme. The radios came in handy. And so did Morse. By plugging in earphones, the walkie-talkie speaker didn’t make a racket and give away their position. The boys could tap out messages to one another with nary a sound. It was slow and tedious, but it was silent as a shadow, and that worked for them.

One day, Kent suggested, “Hey, why don’t we try Morse with flashlights, Sam? How about we try talking across the street from our bedroom windows at night?”

Instead of fumbling and thumbing a flashlight on and off, Sam wired a telegraph key from a Morse kit – a gift from his mom, of course – to a battery-powered lantern that sat in his window facing Kent’s house. “If I have a Morse station, I’m going to do it right,” thought Sam. It was his first Morse transceiver station.

Thus, blinky lights passed between their houses like ships in the night.

What’s Your Story?

Tell us your ham radio story. What triggered your interest in ham radio? Who taught you the “ropes?” How did it affect your life’s trajectory? How did ham radio improve your life? And what are you doing with it today? Drop us a line at w7asc.sked@gmail.com.

New CARL Volunteer

CARL welcomes a new volunteer to help us at the Harkins Ham Shack! Trevor W7TJH has joined CARL as a W7ASC volunteer. He plans on volunteering Saturdays when his schedule allows. Thanks for joining us Trevor!

Volunteer Teachers Welcome!

CARL has volunteer opportunities for hams with the knack to connect with young people. With a VHF/UHF FM station at home, you can be the ham to thrill our guests on the air. Or you can formally volunteer with the Arizona Science Center to teach and encourage visitors face-to-face in the W7ASC radio shack.

Learn more about CARL and our mission by looking up “W7ASC” on QRZ.com. That page has a link to a volunteer application to the Arizona Science Center if you want to join us. (If you apply, be sure to note that you want to volunteer at the Ham Shack.) Bring any questions to me at my e-mail address, below.

73 de N7INV Sam
w7asc.sked@gmail.com



General Meeting Programs

Join us at our next General Meeting in person or virtually. ARA general meetings are held on the fourth Thursday of the month. Our in-person meeting is at the Denny’s at Priest and Broadway in Tempe. If you can’t join us in person, our ARA virtual meeting is the next best thing to being there without the food.

Thursday, May 23rd Program - Dennis Campbell, AE7WU will be presenting Batteries and your Radio. Follow the link for more meeting details. <https://www.w7ara.org/mtg/Meetings.aspx>

Tech Committee

Please report any site problems to the techcom@w7ara.org
The ARA Tech Committee is seeking additional climbers for ARA tower work. If you are interested, please contact Dennis Campbell at ae7wu@w7ara.org

Greens Peak

The VHF antenna was determined to be damaged on a previous site visit. A VHF Super Stationmaster Omni antenna will replace the existing antenna when the weather permits access to the site. The repeaters remain operational.

The Tech committee will be evaluating the batteries at the site for possible replacement.

Scottsdale Air Park

On Sunday, April 14, a few of us went to Scottsdale to check out the antenna on the MetroLink spoke radio.

We discovered two issues. The first was that the VSWR trace on the coax showed a periodic dip to a much better value. We removed and tested both coax jumpers, the one in the cabinet and one at the antenna. Both tested OK. The hard line showed open circuit on an ohmmeter test. When we connected a dummy load in place of the antenna, the VSWR trace was the same. When we disassembled the connectors on the hard line, they had what appeared to be a thin plastic film around the center conductor.

Second, Dennis watched the status LED’s on the link radio card as signals were sent into Shaw and Scottsdale. With signals into Shaw, he got a carrier operated relay (COR) but no PL on the link radio. He tried again using the spare antenna connected using the jumper from inside the cabinet and holding the antenna above the cabinet. Same result, COR but no PL.

Continued on Page 21

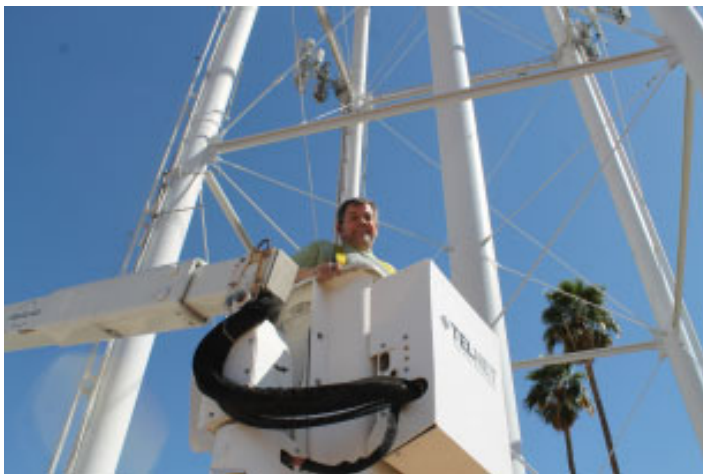
ARA Continued from Page 20

Dennis' conclusion is that the PL chip on the radio card at Scottsdale has failed, AND the hardline has been open-circuit (proximity capacitance only) possibly since installation. He thinks the 10-Watt power and the gain of the six element beam have provided enough signal to make the link work.

Dennis is planning a site visit with a replacement radio card and attempt to fix the connectors on the hardline or just replace it.

A big thank you to Bill, N9EIV, for the use of his bucket truck to access the link antennas without repeated climbs. Leading the effort Tech Chair Dennis Campbell AE7WU, with support from Bill Kouchis N9EIV, Bill Jackson N9VJW, Scott Gillins W2KP, and Joe Bakas KE7WHE.

The 2M radio remains operational in standalone mode. The 33 and 70cm radios are fully operational.



Shaw Butte

Cole AA7RD visited the site to test the battery plant May 11 & 12. Currently the site is supported by a samlexpower 12V 50A charger with an AGM 325Ah battery weighing 400#. This battery was installed in Jan 2018. There is no generator at Shaw Butte. Cole conducted tests on two days under various conditions and has concluded there are two failed cells. The tech committee is researching a replacement battery for the site.

Smith Peak

On Saturday, May 4th, Dennis AE7WU and Marty KE7DGP went up Smith Peak in response to reports at the Tech committee meeting that the site was down. After thoughtful discussion with Cole AA7RD, they decided that a total battery failure (high charge current but not charging) would be required to cause a dead site with no failure messages or low voltage messages.

Since the batteries were twelve years old, they took a replacement set with them. Upon arrival, they tested the batteries at 2.2 Volts and the charger was in foldback current

ARA Continued from Previous Column

limit. They installed the replacement set, and rebooted the controller. The site came back to life.

They tested the sensitivity of the Calzona link radio @ 0.200 UV. They ran the input up to 10 UV and measured 3 KHz deviation coming out of 146.68, and the level from 441.725 sounds about right. Sending calibrated tones from Phoenix and reading them coming out of Smith headed for Monument Peak proved that our side is properly set for levels. The trip was a success with only two hours on site.

Towers Mountain

The Tech committee will be evaluating the batteries at this site for possible replacement.



White Tanks

The UHF radio continues to work normally at this time. The tech committee has not monitored or received any additional reports of intermittent noise on the 442.275 repeater.

Membership

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

ARA Updated Repeater Frequency list and Repeater maps https://www.w7ara.org/mbk/ARA_Frequencies.pdf
<https://www.w7ara.org/mbk/>



Continued Next Column

No Reports Received

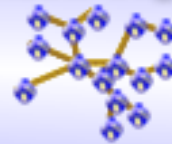


Emergency Communications Since 1961

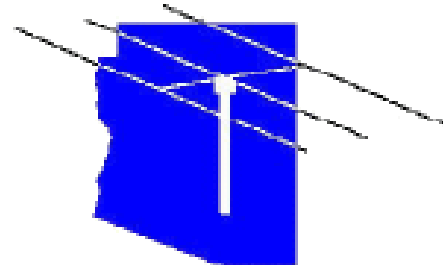
SHORT SKIP



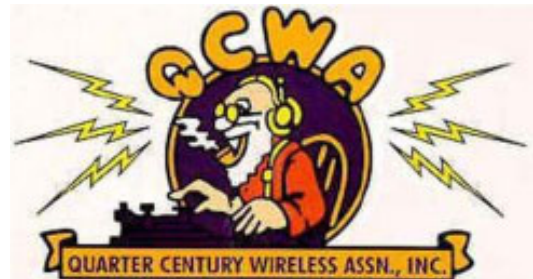
Arizona Mesh Organization



Connecting Arizona



MARCA INC.



CHAPTER 16

BARRY M. GOLDWATER ARIZONA CHAPTER



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



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March is Yaesu Month at HRO!



FTDX101MP | 200W HF/50MHz Transceiver

- Hybrid SDR Configuration • Unparalleled 70 dB Max. Attenuation VC-Tune • New Generation Scope Display 3DSS • ABL (Active Band Indicator) & MPVD (Multi-Purpose YFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



FT-710 Aess | HF/50MHz 100W SDR Transceiver

- Unmatched SDR Receiving Performance • Band Pass Filters Dedicated for the Amateur Bands • High Res 4.3-inch TFT Color Touch Display • AESS: Acoustic Enhanced Speaker System with SP-40 For High-Fidelity Audio • Built-in High Speed Auto Antenna Tuner



FTM-500DR | C4FM/FM 144/430MHz Dual Band Xcvr

- Front Firing Acoustically Enhanced Speaker System • True Dual Band Operation, C4FM/C4FM Digital D-D Dual Receive • 2.4" High-Resolution Full-Color Touch Panel Display • Built-in High Precision GPS Receiver • Wireless Operation Capability with Optional Bluetooth® Headset



FTDX10 | HF/50MHz 100 W SDR Transceiver

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



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/RTTY Control

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

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



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

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



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

- 50W Output Power • Real Dual Band Operation • Full Color TFT Display • Band Scope • Built-in Bluetooth • WRES-X Portable Digital Node/Fixed Node with HFI-200

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-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 serious users

FT-65R | 144/430 MHz Transceiver

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



FTDX101D | HF + 6M Transceiver

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



FTM-200DR | 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-6000R | 50W VHF/UHF Mobile Transceiver

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



- **RETAIL LOCATIONS** – Store hours 10:00AM - 5:30PM - Closed Sunday
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