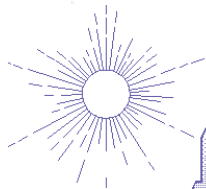


ADAW

10498 Monserrate St
Elk Grove, CA 95757-1765



ADAW

Arizona Desert Aire Waves

Vol 47 No 2

February 2022

CLUB MEETING SCHEDULE

SARC

Feb 2nd - 7:00 PM
via Zoom

AARC

Feb 10th - 12:00 PM
American Red Cross/Echolink

YARC

Feb 3rd - 7:00 PM
Prescott Rodeo Grounds

TBARC

Feb 17th - 6:30 PM
Arizona Christian University

CADXA

Feb 3rd - 7:00 PM
via Zoom

ARA

Feb 24th - 7:30 PM
Electronically

MARCA

Feb 15th - 6:30 PM
via Zoom

MARA

Feb 5th - 9:00 AM
Maricopa Public Library

AzRCCC

Feb 8th - 7:00 PM
American Red Cross/MS Teams

SuperstitionARC

Feb 15th - 7:00 PM
Charles K Luster Bldg-Mesa

ANSR

Feb 17th - 7:30 PM
via GoToMeeting

OVARC

Feb 18th - 7:00 PM
Mountain View Baptist Church

ATN (VOAR)

Postponed
www.whereby.com/atn1

SunLifeARC

Every Monday - 10:00 AM
Via Zoom

WVARC

Feb 7th - 7:00 PM
Via Zoom

CHRC

Feb 12th - 9:00 AM
Tri-City Baptist Church

KARC

Feb 8th - 6:30 PM
New Hope Christian Fellowship

AMO

Feb 10th - 7:00 PM
Charles K Luster Bldg

QCWA-AZ Chapter

TBD
Various

CARL

TBD
Check Web Site

MMRG

See Web Site

ADAW Member Clubs

ARIZONA AMATEUR RADIO CLUB

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

ADAW



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
	Clair Wyant	KG7MAJ	kg7maj@w7tbc.org
	Chuck Erickson	K7CAE	k7cae@w7tbc.org
	Robert Fairfield	K7RQN	k7rqn@w7tbc.org
Past President	Brian McCarthy	AK7F	ak7f@w7tbc.org
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.

AZ RED CROSS COMMUNICATIONS CLUB

The Arizona Red Cross Communications Club meets the **SECOND TUESDAY** of each month at 7:00 PM at the Red Cross Building located at 4747 N 22nd Street in Phoenix. The group meets at emergency drills and at the call of the officers.

President	Charlie Zurenko	N2TFS
Vice President	Mark Steele	KI7RB
Secretary	Saroj Gilbert	KM6BQD
Treasurer	Doug Bessemer	K0VPL
Past President	Peter Petrotta	KD7OIW

Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016. Web Site: K7ARC.org 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	Bob Howard	W8RH	president@copahams.org
Vice President	Scott Bushman	WI7Y	vicepresident@copahams.org
Secretary	Bob Proctor	N6YPE	secretary@copahams.org
Treasurer	George Hogan	K7TGH	treasurer@copahams.org
PIO:	Steve Miller	W6SDM	pio@copahams.org
Webmaster:	Louis Sandoval	W8LES	w8les@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

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	K7BUD	
	Ken Rasback	KK7KEN	
	Tom Raczykowski	N7MMC	
	Sonja Hazlett	WB7CWW	

Web Site: <http://www.k7mrg.org> DUES: \$20.00 per year, due prior to July 1. MEMBERSHIP YEAR - July 1 - June 30.

KACHINA AMATEUR RADIO CLUB

The Kachina Amateur Radio Club meets the **SECOND TUESDAY** of each month at 6:30 PM at New Hope Christian Fellowship, 989 Cheney Ranch Loop (US260 & Cheney Ranch) in Show Low.

President	Kevin Parmenter	KG5Q	
Vice President	Bill Turley	KJ7GYH	
Secretary	Marie Mortensen	N7SKS	
Treasurer	Dennis Wilkes	W7DRW	928.739.4700

Mailing Address: Kachina Amateur Radio Club, P O Box 2996, Show Low, AZ 85902. Email: kachinainfo@drwilx.com 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, 825 S 48th Street in Tempe, near SR143 and University Drive. Visitors are welcome. Come early for food and social time before the meeting starts. For further information about the ARA, including repeaters, site status, and the tech/board meeting, please visit our web site at www.w7ara.org.

President	Brian McCarthy, AK7F	ak7f@w7ara.net
Vice-President	Erv Heimbeck, K0OTZ	k0otz@w7ara.net
Treasurer	Cole Cunningham, AA7RD	aa7rd@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net

Board Members:

Dennis Campbell, AE7WU	ae7wu@w7ara.net
Mike Montalvo, KF7MBK	kf7mbk@w7ara.net
Marty Dusenberry, KE7DGP	ke7dgp@w7ara.net
Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Lance Halle, KW7LH	kw7lh@w7ara.net
Joe Godfrey, AE7JG	ae7jg@w7ara.net
Patrick Baldwin, KI4NSF	pbaldwin99@gmail.com
James Wasson, N7ELL	n7ell@w7ara.net

For Membership Information, contact (Joe Godfrey, AE7JG membership@w7ara.net) 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 only - Zoom and St Katherine Greek Orthodox Church, 2716 N Dobson Rd, Chandler. February through November - Zoom and Charles K Luster Building, 640 N Mesa Drive, Mesa. **VISITORS** are Encouraged to attend. If you would like to attend one of our meetings via Zoom, please contact president@superstitionarc.org at least 24 hours prior to the meeting for the Zoom link.

President	Steve Estes	KB7KWK	kb7kwk@superstitionarc.org
Vice President	Brian Betz	W7JET	w7jet@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
	Dan Devlieger	KC7MSU	kc7msu@superstitionarc.org
	Bob Thomas	N8ANV	n8anv@superstitionarc.org
	Matt Churchill	K7YEG	k7yeg@superstitionarc.org
	Robert Fridell Jr	N3BZ	n3bz@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	Don Aldridge	WA7RLL	
Secretary	Paul Bennett	KD7KDO	
Board Member	David Yee	N7AJR	
Trustee:	Norm Johnson	AA7OO	480.278.2886
Webmaster:	Norm Johnson	AA7OO	480.278.2886

MARCA, Inc., c/o Norm Johnson, 5756 S Wildrose, PO Box 85140, Mesa, Arizona 85212. Membership dues \$25 annually. See our website (<http://w7mot.org>) for more information about meeting schedules, membership, repeaters, library, and club activities.

CENTRAL ARIZONA DX ASSOCIATION

The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. Until further notice, meetings will be held virtually on Zoom. Visitors always welcome. See www.cadx.org/meetings.html for a map.

President	Bill Poole	AA4Q	billpoole@yahoo.com
Vice President	(Position Open)		
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: [cadxa@cox.net](mailto:cadx@cox.net). Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: www.cadx.org.



February 21st

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	Sam Prather	K7SCP	treasurer@w7yrc.org
Past President	Bill Noe	WG7W	
Board Members	Dave Erlach	W7VXSX	rocketdog@dslxtreme.com
	Mike Schnell	NC7X	ka9cid@gmail.com
	John Laing	K7PRS	k7prsextra@gmail.com
	Ray Kolman	KI7COM	spudsmen@gmail.com

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

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 Zintsmaster	KE7AZ	lrahnz@garlic.com
Treasurer	Hanna Eckert	KG7TPD	haneck@aol.com
Board Members	Fred Bresani	W2HZ	w2hz@verizon.net

DUES: \$25.00/year (Household members living at same address \$15.00 each additional). To join or for additional information, visit website at <http://www.tucsonhamradio.org/>.

CHANDLER HAM RADIO CLUB

The Chandler HAM Radio Club (call sign N7CHN) meets the **SECOND SATURDAY** of each month at 9:00 AM 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	Mary Stephen	AE6Q	sec@chandlerhams.org
Treasurer	Byron Garrabrant	N6BG	treas@chandlerhams.org

Web Page: <http://chandlerhams.org>. DUES: \$25/year primary member; \$10/year family member.

ADAW Member Clubs

CENTER FOR AMATEUR RADIO LEARNING

The Center for Amateur Radio Learning is a hands-on amateur radio station, W7ASC, located within the Arizona Science Center at 600 E. Washington, Phoenix. Hours of operation are the same as the Arizona Science Center (subject to availability of volunteers.) The station is located on the third floor of the Science Center, in the "My Digital World" gallery. Board meetings are held the last month of each quarter at the AZ Science Center. An annual meeting for all volunteers is held the **THIRD SATURDAY** of January. Watch ADAW for details.

President	Jack Landon	KD7ROB	480.759.5195
Vice President	Jim Felkey	N7BBS	480.966.7084
Sec./Scheduling	Sam Marshall	N7INV	602.291.0992
Treasurer	Karen McConaghy	NO7D	602.799.7338
Station Engineer	Ron Taylor	WA7GIL	602.390.5335
Board Members:			
	Steve Warford, WB4ZSC	ADAW	
	Tom Salt AD7PM	At Large	
	John O'Neal K7JP	Teacher Packets	
	Bob Burleson KG7QJ	Trustee/President Emeritus	
	Robert Faerber W9AQ	Log Book	
	Scott Gillins W2KP	At Large	

Direct Phone: 602.716.2082 Web Site: <http://www.w7asc.org>
 For information: Email to carl@w7asc.org or call Jack, KD7ROB at 480.759.5195.

AMATEUR TELEVISION NETWORK

The Amateur Television Network (ATN) promotes video operation on linked repeaters and mesh networks. Business meetings are in January and July. Monthly social meetings are postponed due to the pandemic. Join us online at www.whereby.com/atn1 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 Tuesday of the month at 1:00 PM at Lou's Tivoli Gardens, 12535 W Bell Rd in Surprise. A weekly breakfast is held on Thursdays at Lou's Tivoli Gardens, 12535 W Bell Rd at 7:00 AM. Club nets are held on 147.300 (tone 162.2) at 9:00 AM daily and Monday - Thursday at 8:00 PM. Please check our website (below) for other events and information.

President	Danny Hoerr	KM4HFT
Vice-President	Bill Ciccone	KA2KHV
Secretary	Lee Ann Ciccone	KJ7AZR
Treasurer	Willa Prato	KE5CPM
Board Member:	Ron Shipp	K1WAZ
	Joe Jacobson	KJ7PUL
	Frosty Oden	NQ1S
	Larry Johnson	WO7C
Past President	Danny Hoerr	KM4HFT
Committees:		
Membership	Krissy Larson	KI7GJJ
Technical Advisory	TBD	
Equip. Donations & Sales		
	Ken Jenkins	WB6MMV
	or Jim Seay	WB7RBN

WVARC, P O Box 1573, Sun City, AZ 85372-1573. DUES: \$15.00/YR for family residing at the same address. MEMBERSHIP YEAR - January - December. Web Site: <http://westvalleyarc.com>. Email: suncitywvarc@gmail.com

SUNLIFE AMATEUR RADIO CLUB

The Sunlife Amateur Radio Club meets **EVERY MONDAY** from October through April each year at 13:00 (1:00 p.m.) on Zoom. For access, please contact Sue Rogers, W7SKH at happyham7777@gmail.com.

Nets:

20 Meter Net: Monday, Wednesday, & Friday, 14329 Mhz SSB 12:30 p.m./11:30 a.m. during daylight savings time.

10 Meter Net: Tuesday & Thursday, 28.329 Mhz, SSB. 7:00 p.m./8:00 a.m. during daylight savings time.

Venture Out: 2 Meter Net: Monday, Wednesday, & Friday, 1:00 p.m., 146.58 MHz FM simplex, 12:30 p.m.

President	Sue Rogers	W7SKH	happyham7777@gmail.com
Vice President	Cheri Goforth	KD7ZXD	treasurer.sunlifearc@gmail.com
Secretary	Chuck Rogers	W7CBR	rogers_charles@hotmail.com
Treasurer	Dwight Carlson	KF7WI	dec@kalama.com

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

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



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

Hamfest season is well underway in Arizona. Eight hamfests and one operating event were held in the fall and winter of last year. From all accounts, these were well attended, successful events. January saw the annual Thunderbird hamfest being held at the Glendale Nazarene Church again. A great location for a popular event.

The ARRL Southwestern Division Convention will be held February 18 & 19 in conjunction with the Yuma Hamfest. This event is one of the largest hamfests in the state and boasts the biggest main prize line-up of any hamfest/convention anywhere. This year, \$25,000 + worth of prizes will be raffled off during the event. There will be all the usual amenities a convention/hamfest offers and more. A Near Space Balloon launch will take place too, weather permitting that is. The Saturday night Buzzard BBQ is always a "must attend." Delicious food, amicable company, great conversation, and lots of prizes! Check their flyer in the flyer file for a list of all the activities that will take place. Visit the website at www.yumahamfest.org for up-to-date information.

The West Valley Amateur Radio Club will be holding their Annual Auction on February 26th. It's a fast pace auction of amateur radio equipment. Check the Hamfest Calendar on page 12 and their flyer for details.

As of "press time," there are three events scheduled for March (two in person and one virtual). Information on these and other events is listed in the Hamfest Calendar on page 12.

Is your club planning any ham radio license classes? If so, why not list the information in ADAW. It is an excellent way to spread the word about your class to potential new and upgrading hams. Just send an email to adaw@adaw.org with all the information and it will appear the next month. Just remember to give plenty of advanced notice so the information gets to readers in time.

Speaking of classes, Marc N9WIB from Wisconsin has put together an on-line Technician Class License series. There are 20 presentations which cover all the topics for the Technician License. The presentations are free and are available to all Amateur Radio Clubs to use as an education tool or for candidates to use as a quick review. The presentations can be found at <https://radiosignals.org/main/tech>.

Did anyone participate in Winter Field Day? How about dropping a note to ADAW about your experiences during Winter Field Day. Where did you operate - remote or at home? Were you part of a group or by yourself? How did you do, score wise? Did you have a good time? Just a couple of sentences - like a review of the event. It would be interesting to those who could not take part. Also, it may entice more people to participate next year making the event even more enjoyable for all.

73 until next month -
Chris, N7PVL

Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Xterra McDowell Mtn	McDowell Mtn County Park	02/06/2022
Black Canyon 100K	Spring Valley to New River	02/12/2022
Black Canyon 60K	Spring Valley to Black Canyon City	02/13/2022
Pancake Run	Former Paradise Valley Mall	02/13/2022
Lost Dutchman Marathon	Apache Junction	02/20/2022
Mesquite Canyon Trail Run	Waddell	03/05/2022
ADA Tour De Cure	West Valley	03/06/2022
Xterra Black Canyon Trail Run	Black Canyon City	03/13/2022
Crown King Scramble	Lake Pleasant - Crown King	03/26/2022
El Tour De Mesa	Mesa	04/02/2022
March of Dimes March for Babies	Wesley-Bolin Park, Downtown Phoenix	04/09/2022
AuxComm Interest	TBD	12/31/2022

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



AMATEUR RADIO SERVICE DEMONSTRATION STATION

W7ASC is a Demonstration Station for the Amateur Radio Service. The Volunteers who operate the station are members of the Center for Amateur Radio Learning (C.A.R.L.), a 501(c)(3) corporation. W7ASC is open to all who visit Arizona Science Center (ASC) during those hours when ASC is open. The station is located on the third floor of the Science Center in the “My Digital World” gallery. Direct phone number is 602-716-2082.

ASC is open daily, 10:30 a.m. – 4:00 p.m., and the ham shack hours are essentially the same, dependent on availability of staff. Our Twitter feed and Face Book page can be accessed at twitter.com/w7asc_arc and facebook.com/W7ASC, respectively. We hope to have our web page back up shortly. All licensed amateur radio operators are invited to join us Wednesday and Saturday mornings at 0900 MST for the CARL Net on 440.375 MHz, offset +5.0, tone 100. The repeater is located on South Mountain.

We still need more volunteers to keep the shack open and fully staffed daily at Arizona Science Center. The pandemic has been hard on our recruiting efforts but be assured that we and ASC are taking every possible precaution to keep our volunteers and the public safe. Call the number above or contact me (contact info is at end of column) to set up a date to discover the joy of sharing your love of amateur radio with the visitors at ASC.

Welcome Thomas, NE7X!

The last paragraph in our boilerplate above says it all. Or, does it? The most important piece of recruitment is a volunteer in the seat. Thanks Thomas for starting that process and we look forward to seeing you soon at the Harkins Ham Shack in Arizona Science Center.

Neither snow nor rain nor gloom of night...

Most of have heard this quotation before. It’s the unofficial motto of U.S. postal workers. In the Valley of the Sun, snow is very rare, rain is infrequent, and gloom of night is far outweighed by sunny days over eighty-five percent of the year. But I thought of this motto when Jim, N7BBS, sent me a report of his day at the recent Superfest in Mesa.

As evidenced in his photo from the event, he definitely arrived for set up in the gloom of night. His dedication to this

CARL Continued from Previous Column

task throughout the year is appreciated as the sale of donated equipment is a good source of income for a club that does not collect dues from its members. The remainder of this month’s column is basically a paraphrase of Jim’s observations of just what he and others get from attending hamfests. Being a bit lazy, I’ll dispense with the formality of quotation marks.

Why Attend Hamfests?

I got up at 0400 and loaded my SUV with the remaining gently used amateur gear in the C.A.R.L. inventory of donated equipment. A couple of antennas and an HT. Great items for new hams or hams looking to replace older equipment.

Being my first ever trip to Superstition Springs Mall, I took a twenty-minute self-directed tour of that section of Mesa, in the depths of darkness. Luckily I spotted a sign and pulled onto the parking lot where the wonderful volunteers directed me to my reserved setup spot. My old friend Scott, a software developer, arrived and set up next to me. Once set up, I spent the day there selling and recruiting, with only short excursions to the j-john.

Visitors to my location included Ron, WA7GIL, and Attila, W7AMR from the C.A.R.L. group. They seemed to be enjoying the Superfest. At the end of the day, I had sold one of the antennas and the HT. C.A.R.L. was a bit richer for the day, but the ham community was the real winner. Good friends, new friends, lots of good conversations. Hope to see more C.A.R.L. members join me at the next hamfest.

73,
de WB4ZSC Steve, with thanks to Jim, N7BBS
vyix99@yahoo.com
480.570.1041



Continued Next Column



Emergency Communications Since 1961

SHORT SKIP

What a great year we had as a ham radio club, and I can already feel the excitement for this year! Many people would like to have, "Talk more on ham radio," as their number one New Year's Resolution! A great way to do that is to come on down to our Annual Auction on February 26th, and find yourself a radio! (See our flyer.) The rest will come naturally.

From our humble beginnings of seven members, we are up to about 350+ in membership, but there is always room for more! About 75 people of all ages attend our General meetings held on the first Monday night of the month, at 7:00 PM. If you have any interest in Amateur Radio, I suggest you attend a meeting, introduce yourself and start to get to know others with the same interest. There is no need to be a ham to join, but if you can answer 35 questions, you can get your FCC License and begin talking on the radio!

Keep checking back to our website: <https://westvalleyarc.com/> as you never know when you might see an "Antenna Build" for a Fox Hunt or a rather large Potluck/Picnic or a "Simplex in the Park," where we test the range of our Hand-Helds and Mobile radios with larger antennas. For "Digital" radio, we have a new WIRES-X room on Boswell. That room number is 81854, and Tuesday nights at 7:00 PM we have a Net on 449.800 MHz. We also have regular analog Nets on 147.300, both at 9:00 AM and 8:00 PM on a daily basis.

So drop us a line on the "About Us" page of our website and ask for a Zoom link, or pop into a meeting on the first Monday, and say, "Hello," as we would love for you to join us! There are TWO upcoming dates to remember, February 7th is our General meeting and February 26th is a really fun auction that we hold every year. If you would like to sell some ham-related gear at the auction, our club retains only 10% of the proceeds, and you receive the rest! Be sure to see our club website for details and directions. <https://westvalleyarc.com/>

73

April, KI7GFJ, Webmaster

The pictures of a recent Antenna-Building event in the next column were taken by Fred, KI7FGZ.



Continued Next Column

For Sale / Wanted



**LOOK!
Great Deals!**

For Sale

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

Contact Richard Bruns, K7VQ at d_brunz27@yahoo.com

11.0/13.5 KW 120/240 V Predator Generator

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

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

The **West Valley Amateur Radio Club** has radios and ALL kinds of supplies available for sale through the club. We get some old equipment that won't sell that will be added to the items for free. Contact: Ken Jenkins, WB6MMV at kjenkins5623@gmail.com or Jim Seay, WB7RBN at wb7rbn@arrl.com.

WVARC Continued from Previous Column





With a new year ahead of us, we expect 2022 to be a great year. Our objectives include participation as a club in emergency communications and supporting local events in the White Mountains. The influx of people to the area has provided an opportunity to grow our ranks. We are supporting everyone who wants to obtain a license to do so successfully with our training and VE team. Kachina plans to support education and training for the community and our members. We expect large growth this year in membership. Additionally, we plan to build a linked repeater system which will cover major areas of Navajo County to keep us prepared for emergency communications should the need arise. Moreover, we plan to build an emergency communications center to once again keep us prepared for handling traffic in a variety of amateur and public safety communications should the need arise.

Once again, this year we plan to have our tailgate swap meet which attracts hams from Arizona and New Mexico to participate. We are looking forward to a successful year and wish you all successes in your endeavors as well. For more information, the club's website is <http://kachinaarc.org/>

Kevin Parmenter
KG5Q



TBARC Continued from Previous Column

Management. He'll explain more about how emergency communications works in Maricopa County, and how you can have a role in that. Bring your emcomm questions! The conference URL and details are on the TBARC website, w7tbc.org. Join us and share the learning and conversation - in person at 59th Avenue and Greenway Rd or at the Zoom virtual meeting - it's your choice! Either way, we'll see you at the meeting!

Andrew Cornwall KF7CCC
kf7ccc@arrl.net



**World Radio Day
February 13th**

New Board Members

As I write this, we have yet to have the board meeting where the directors decide who will be president, vice president, treasurer and secretary. By the time you read this, you'll know - the positions will be filled from our elected directors: Chuck Erickson K7CAE, Andrew Cornwall KF7CCC, Charlie Loftus KG7KRN, Robert Lutes N7NO, Paul Veltman WA6OKQ, Jeff Rogers KD7PYE, Robert Fairfield K7RQN, and Rick Tejera K7TEJ. The board is rounded out with two non elected positions: the club trustee Gary Duffield WK7B and the immediate past president, who will be Brian McCarthy AK7F unless there's a new president.

Thanks for a Great Hamfest!

January 15 was the date for TBirdFest, the Thunderbird Amateur Radio Club's hamfest and electronics swap meet. We have a lot of people to thank for all the work that went into it - the executive team, ably led by Rick Tejera, the team leads and volunteers - both ahead of time and on the day - who kept everything running smoothly, the Glendale Nazarene Church - who provided the venue. And not least, thanks to everyone who came out - your continued interest is what's made TBirdFest one of the most exciting hamfests in the Phoenix metro area. Thank you all!

Grounding and Bonding with Tim Duffy K3LR

It's quite possible that by the time you read this, it will have happened - but just in case it hasn't already, we anticipate a great meeting on January 20 with Tim Duffy K3LR, CEO of DX Engineering and the force behind the K3LR superstation. Thanks to Israel Vicente K7HI for lining this one up. The topic will be (or was?) "Grounding and Bonding." I anticipate an excellent presentation - if there's still time, join us in person or on Zoom. If it's already passed, I hope you learned how you can improve your station's potential!

February Meeting

We've got an exciting meeting for you again this February. As is the new normal, the meeting will be hybrid: in person at Arizona Christian University or online with Zoom. Michael Drapkin WB2SEF will be there. Among other things, he's the ARES DEC for Maricopa County and a communications unit leader for the Maricopa County Department of Emergency

Continued Next Column

License Testing Information

When you are ready to take an exam for an Amateur Radio license, there are Volunteer Examiners available to assist you. Each Applicant will need to bring a picture ID (some test sessions require two forms of identification). If you are upgrading your class of license, be sure to bring the original (and a copy) of your license and/or Certificate of Successful Completion of Examination (C.S.C.E.). There may be a fee required.

PLEASE NOTE: Dates, times, locations, fees may change. Arrive promptly at time listed. Fees may vary and exact change or check is required at most sessions. Call test session contact to confirm information. Walk-ins are permitted unless otherwise specified.

IMPORTANT NOTICE: In light of the current situation with the COVID-19 virus, please call to verify whether test session will be held.

February Test Sessions

Feb 5th - CHRClub Laurel VE Team -- 10:00 AM
Tri-City Baptist Church, 2211 Germann Rd, Chandler
Contact: ve@chandlerhams.org
No Accepted/Registration Preferred at:
chandlerhams.org/testing/

Feb 5th - 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

Feb 5th - Yavapai ARC -- 9:00 AM
Jeep Posse Bldg in Pioneer Park, 1200 Commerce Dr, Prescott
Contact - Donald Bauer 928.775.4690
Pre-Register online: www.w7yrc.org

Feb 12th - Yuma ARC -- 9:00 AM
Yuma County Sheriff's Office, 141 S 3rd Ave, Training Rm 2, Yuma
Contact - John Ham 970.927.3273
No Walk-Ins/Register or Call Ahead
Appointment Only - Pre-register by Wednesday

Feb 14th - East Valley VE Group -- 6:00 PM
Charles K Luster Bldg, 640 Mesa Dr, Mesa
Contact - Ray Vasquez 602.363.4207
MUST obtain FRN prior to exam

Feb 14th - Radio Society of Tucson -- 7:00 PM
Immanuel Presbyterian Church, 9252 E 22nd St, Tucson
Contact - Diane Zimmerman dzimmerman2002@gmail.com

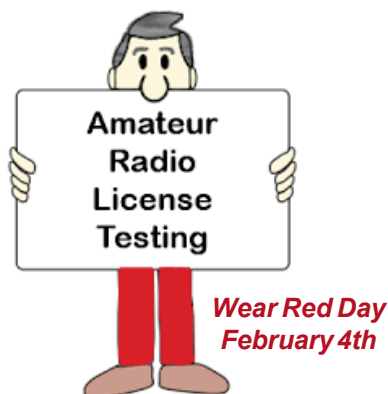
Feb 15th - Boy Scout Troop 127 -- 8:00 PM
St Francis Xavier Church - Anderson Hall,
4715 N Central Ave, Phoenix
Contact - John Kelly 480.823.8993

Feb 16th - Thunderbird ARC -- 6:00 PM
Northwest Christian School, , 16401 N 43rd Ave, Phoenix
Enter Gate 9, Room 423
Contact - Walter Reinert 602.668.7804
No Walk-Ins / Register or Call Ahead

Feb 19th - Hualapai ARC -- 10:00 AM
VE's Residence, 3571 E Lum Ave, Kingman
Contact - Alyce Ingle 425.231.9173

Feb 19th - West Valley Electronic Club -- 9:00 AM
The Shack, 11115 W Nevada Ave (111th & Nevada), Youngtown
Bring FRN, pencil & pen, and \$15.00
Contact - David Morrill 623.680.5011
No Walk-Ins / Register or Call Ahead / Limited Seating

Feb 26th - Arizona ARC -- 4:00 PM
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
FACE MASKS ARE REQUIRED





Hamfest Calendar

Happy New Year from the Arizona Amateur Radio Club. After a very enjoyable Christmas dinner in Papago Park, we received positive comments from everyone.

At our last meeting elections for new officers for 2022 were held. Apparently our club members are satisfied with the AARC activities because it was moved and seconded to accept the following who were nominated by acclamation vote:

President: Gary Hamman, K7GH
Vice President: Steve Tolnai, W7WSV
Secretary: Randy Gault, KJ7RCN
Treasurer: Bob Hodges, K7JJT
Activities Manager: Lori Cripps, WA7EDI

The April 16, 2022 Hamfest at DeVry which will be hosted by AARC and AzRCCC was discussed. The event will include an ARCA Meeting at 11:00 AM and VE Testing. The need for helpers was noted. Input at the meeting was given for the Field Day survey.

The Red Cross has recently acquired a new vehicle. Some of the club members have been working on the wiring and radio equipment installation. It is a Nissan pickup with extended cab and a camper. The vehicle will be at the April Hamfest at DeVry, as well as the Thunderbird Hamfest, Quartzfest, and the Yuma Hamfest.

There was a brief discussion of the Forest Service imposing a \$1400.00 fee for usage of a wireless site on forest service land. It was noted that those of us who have repeaters presently pay about a \$130.00 annual fee. The deadline for inputting response is February 22, 2022.

W7WSV said that in the January 2022 QST, there was a note regarding EZNEC antenna analysis software. Its author retired at the end of 2021 and is making EZNEC6 available free of charge beginning in 2022.

The next AARC meeting will be February 10, 2022 at the Red Cross Building.

73,
Lori, WA7EDI

18-19 February 2022 - **Yuma Hamfest** - hosted by the Yuma Amateur Radio Hamfest Organization will be held at the Yuma County Fairgrounds, 2520 E 32nd Street in Yuma. Visit the web site at www.yumahamfest.org for up to date information.

26 February 2022 - **WVARC Annual Auction** - hosted by the West Valley Amateur Radio Club will be held in Walton Hall at Shepherd of the Desert Lutheran Church, 11025 N 111th Avenue in Sun City. Doors Open at 12:30 PM for Sellers and 1:30 PM for Buyers. Auction begins at 2:30 PM. For More Information, email sunciywvarc@gmail.com. Be sure to check the web site at www.westvalleyarc.com.

12-13 March 2022 - **QSO Today Virtual Ham Expo** - sponsored by QSO Today will be held on-line. Visit <https://www.qsotodayhamexpo.com/> for details.

19 March 2022 - **Springfest** - hosted by the Scottsdale Amateur Radio Club will be held in the Fender Parking Lot, 17705 N Pacesetter Way in Scottsdale. Watch for more details. Visit the web site at www.scottsdaleare.org for updates.

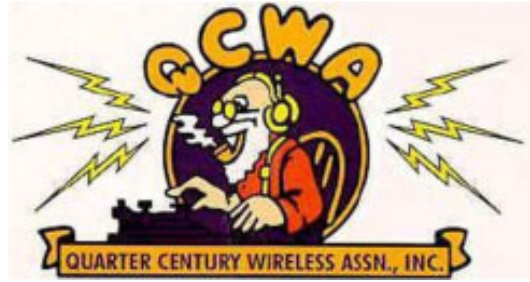
26 March 2022 - **Tucson Vernal Equinox Hamfest** - hosted by the Radio Society of Tucson will be held at Calvary Tucson Church, 8711 E Speedway in Tucson. Hours are 7:00 AM until 11:00 AM with set up beginning at 6:00 AM. Admission and Parking. Seller Spaces \$10 per Parking Space. ARRL Card Checking - Prizes - NO VE Testing. Snacks Brought to You by BSA Troup 157. No Alcohol, Drugs, or Firearms. Talk-In Frequencies - FM:145.250 FM Tone 156.7. For Information & Map, visit <http://www.k7rst.org>

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

14 May 2022 - **2022 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 - \$5.00 per person. Full time students with ID and 16years old and younger - FREE. Swap spaces - \$10.00 per space. Pre-registration for seller spaces at www.prescotthamfest.com is required. Due to limited space, RVs, Campers, and trailers will not be permitted. Talk-In Frequencies - 146.880 MHz (-) PL 100 Hz, 447.65 MHz (-) PL 100 Hz, or 146.580 Simplex. Contact Hamfest Chairperson - Frank Bender, K8FB at k8fb@w7yrc. Visit the web site at www.prescotthamfest.com for updates and additional details. SORRY NO GUNS, DRUGS, ALCOHOL, SMOKING, VAPING, OR FIREWORKS. ONLY LEASHED ANIMALS ARE PERMITTED.

ADAW

ADAW



CHAPTER 16
BARRY M. GOLDWATER ARIZONA CHAPTER

Happy New Year! We look forward to the ARRL DX contests coming in February and March. We've seen some nice periods of sunspots that have made being on the bands fun. Those of you into 6-meters have experienced some winter E's and an opening to ZL7 and ZL. I continue to be impressed by the Outlaw contest efforts. Lots of participation and some darn good scores. Many of us old-timers don't have many sunspot peaks left so I encourage everyone to get on and make some noise as we head into cycle 25.

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 – Checking the long path. Throughout the contest season (especially October through March) don't forget to check for greyline long path openings. 40 is open at times to EU at our sunrise. Pay attention to the greyline map for sunrise and sunset paths along the terminator mostly 40, 80 and 160m. You will find 160 meters has the shortest sunrise and sunset peaks. They can last for a minute and if lucky 20 to 30 minutes at most. I've worked very short 160m openings that last two to three minutes with a nice big out of the noise peak and then the signal is gone. This is how I caught 3B9 on topband on a very short opening.

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 – NA7TB (KY7M & K9DR) finished 2nd worldwide in the Stew Perry Topband Distance Challenge and was only 90 points away from finishing 1st in the Multi-Op high power category. N7AT (K8IA & KC7V) managed a 7th place finish. N7IR finished 3rd worldwide in the Single Op low power category.

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

At the Oro Valley ARC hamfest in November, President Tom Fagan, K7DF, and Secretary/Treasurer Carl Foster, KB7AZ, set up a QCWA Booth. Many QCWA members including a past president, John Marshall, showed up and sat for a while. Several hams joined QCWA and the Arizona chapter. John was nice enough to take the picture of the Tom and Carl at the booth. Tom gave a presentation on Grounding that was enjoyed by many. He continued to answer questions for half an hour after the presentation. Tom and Carl are planning on having another booth at the ARRL Southwestern Division Convention in Yuma Arizona on Feb 18th & 19th, 2022. Both Tom and Carl are expected to give presentations. We hope to see you there.

In other news we are still looking for meeting locations around the state. As we have said in previous notes, we lost a lot of our normal restaurants with meeting rooms. If you know of one, let Tom and Carl know.





Support the ARA by joining the team. Membership info is located at <https://www.w7ara.org/mbr/Membership.aspx>

ARA members are encouraged to log in to the member services on the ARA website and review / update their email addresses.

ARA Mt Elden profile courtesy Brian McCarthy

Location – Mt Elden, Flagstaff

Discussion of this location began within the board in July 1995. On October 28, 1995 there was a meeting with the site owners. An ARA delegation visited Mt Elden site and began the process to plan and install a 2M & 70cm repeater with links to the Phoenix valley. Plans included working with NorthLink Association for a repeater in Flagstaff linked to their Navajo Mountain site. After planning, frequency coordination, permitting, and installation the Mt Elden site became operational in June 1996. The link from Mt Elden to Mt Ord was established in July 1996.

Latitude/Longitude: 35.2412907329683,-111.59757341676992

Elevation of 9,301 feet

Radios – Mt Elden has 4 Repeaters and 2 Links. The site uses Motorola Micors radios for the repeaters and links. Only the 146.980- Repeater is the only radio running on the new CDM stack.

There are four repeaters operating at this site.

The 147.14 MHz + 162.2 Tone is a part of the RimLink system. On demand to UT Link

The 146.98 MHz - 162.2 Tone Phone Patch (Flagstaff)

The 448.475 MHz - 100.0 Tone Phone Patch (Flagstaff)

The 448.875 MHz - 100.0 Tone - Utah Link is full time on.

Rimlink is a half-duplex link to Mt Ord

UT Link is a full-duplex link to Intermountain Intertie in Utah and beyond

The control/link radios for this site links to Mt Ord (RimLink) and Navajo Mountain (Utah)

Controller - The radios are all controlled by one Link Communications RLC-3 Repeater Controller which allows all the radios to be interconnected as required.

Antennas

The VHF Antennas are Super Storm Master antennas with the 146.980- located at the top of the tower around 75'. The

ARA Continued from Previous Column

147.140+ Repeater has its antenna around 40'.

Both UHF Repeaters are multiplexed with the Transmit antenna around 70' and the Receive Antenna at 50' and are Super Storm Master antennas. Both Links are 3- element Yagi's with UT Link at around 70' and Rimlink around 60' Power / Redundancy - The site is powered with a large battery 700AH floated / charged by a samlexpower SEC-1280UL 12VDC 80 AMP Automatic Battery Charger. The new batteries are able to run the site for 10 days.

Milestone - Connected to Utah on 11/01/13

ARA Repeaters <https://www.w7ara.org/pdf/ARA-Repeater-Map.pdf>

ARA Board 2022 Election results

Newly Elected Directors 2022-2023

Brian McCarthy AK7F

Mike Montalvo KF7MBK

Dennis Campbell AE7WU

Marty Dusenberry KE7DGP

Joe Bakas KE7WHE

Appointed Directors 2022

Patrick Baldwin KI4NSF

James Wasson N7ELL

Continuing Directors 2021-2022

Joe Godfrey AE7JG

Cole Cunningham AA7RD

Dennis Bietry KE7EJF

Lance Halle KW7LH

James Hoff N7XXX

Officers 2022

President Brian McCarthy AK7F, Vice-President Dennis Bietry KE7EJF, Secretary James Hoff N7XXX, and Treasurer Cole Cunningham AA7RD

Retiring Director

Erwin Heimbuck, "Erv," K0OTZ, decided to retire from the ARA board at the end of his term in 2021. Erv was first appointed to a board position on Dec 1, 1994 by Cole AA7RD. Erv has served the ARA wearing many hats as Program and Education Chair, Site Manager, Treasurer, and Vice President. Erv will continue as a member of the Tech Committee to share his technical skills and tribal knowledge for the benefit of the organization. Erv is a life member of the Arizona Repeater Association and the ARRL.

Background

As a young teen, the family doctor, who happened to be a

Continued Next Column

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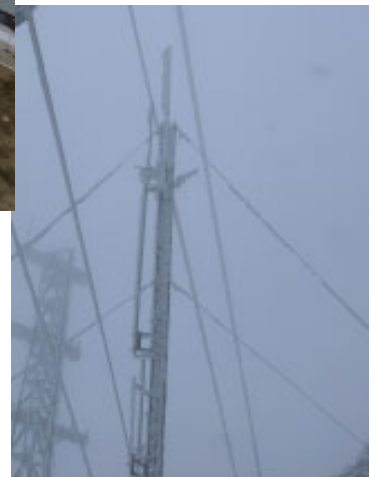
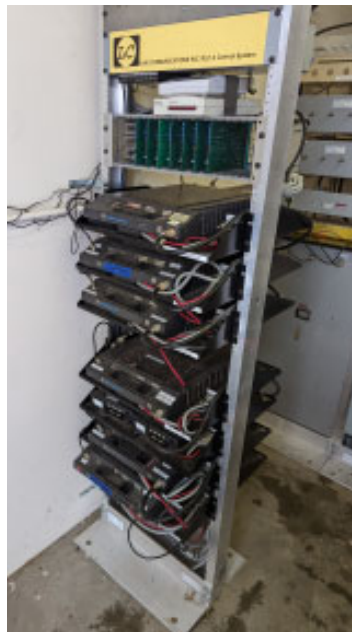
ARA Continued from Page 14

ham, told Erv's mother that her son had a fine mind, and asked if she would mind if he shared his interest in Amateur Radio with Erv. The rest of the story is a long history of Amateur Radio achievements for Erv. Erv was first licensed in 1957 at age 13 as KN00TZ as a Novice. He upgraded to a Conditional in 1959 and then to Advanced license when the class was first reopened.

He currently holds an Extra class license. He has also held an FCC 1st Class Radiotelephone license and currently holds an FCC General Radiotelephone Commercial ticket.

Erv has worked HF both AM and SSB most of his ham life. He was active in message traffic handling and enjoyed SSB VHF work on 6 and 2 meters while still in South Dakota. He was active with ham clubs in Brookings, Watertown, and Rapid City South Dakota where he did a lot of work on repeaters for those clubs. He actively participated in the development of the first linked repeater system in South Dakota in the early 70's during the era when repeaters had to have their own separate licenses, often with a WR0 callsign prefix. Erv moved to Arizona in 1984 and has been active on VHF and UHF FM as well as HF SSB and RTTY. He is currently active on HF traffic nets and with the ARA Tech Committee where he serves as co-site engineer for Pinal Mountain and Usery. Erv has been a member of the ARA for more than 30 years.

Our hats off to Erv! Thank you for your faithful service to the Amateur Radio Community!



ADAW

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

Our license test sessions have been very successful and well attended. Our next session will be on February 5, 2022. Pre-registration is required at www.w7yrc.org/arrl-vec/. We require registration ahead of the test sessions because of the variability of dates due to outside factors. Time and place of testing can be changed without much warning. For the rest of our test dates in 2022, please check our website, or the ARRL exams page on their site.

Much looked for during the past year have been license classes, and we happily report that they are back. Check for schedules on our website, www.w7yrc.org. The next Tech class is in February, so get registered for that if you are new to ham radio.

Don't miss the upcoming Prescott Hamfest on May 14th. After being absent last year, we are looking forward to an abbreviated (one day) fest this time, but one with a good deal of tailgate activity and some great prizes. Check out the website, www.hamfest.w7yrc.org

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

Other nets we conduct are:

Wednesday Night FM Net 7PM

Friday Night 6 meter FM Net 7PM

Saturday Coffee FM Net 9AM

Details of all nets can be found on our website, www.w7yrc.org

YARC is an ARRL Special Service club. We provide communications for several community events each year. We are looking forward to the bike races, walks and marathons of 2022. We will post a schedule soon. Our volunteers are always ready.

YARC is one of the largest and most active amateur radio clubs in the southwest. Our home is in beautiful Prescott, Arizona, at an elevation of 5400 ft. When things return to normal,

why not join us for one of our regular club meetings. All the info will be on our website, www.w7yrc.org.

Remember - BE RADIO ACTIVE!

Superstition SuperFest 2021



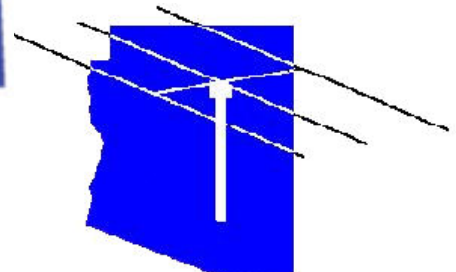
No Reports Received



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.



MARCA INC.



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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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 VFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



FTDX10 | HF/50MHz 100 W SDR Transceiver

- Narrow Band and Direct Sampling SDR • Down Conversion, 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-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



FTDX101D | HF + 6M Transceiver

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



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

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



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

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



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

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



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

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



FTM-400XD | 2M/440 Mobile

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



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-3DR C4FM/FM 144/430 MHz Xcvr

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



FT-65R | 144/430 MHz Transceiver

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

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

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



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



The Yuma Hamfest is scheduled for Friday, February 18th and Saturday, February 19th.

HRO Phoenix will be back and selling there again this year!!!

From all the staff here in Phoenix, we will be looking forward to seeing you in Yuma 2022.

Now serving you at our Phoenix store:

Manager Ron AJ7T, Mike K7DD, Bob W8RH, Richard K1RAB, Ira AI7HC, Jim KE7EU and Cregg.