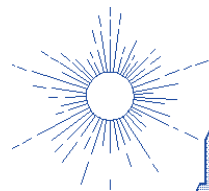


**ADAW**

10498 Monserrate St  
Elk Grove, CA 95757-1765



**ADAW**

**Arizona Desert Aire Waves**

Vol 47 No 7

July 2022

**CLUB MEETING SCHEDULE**

**SARC**

Jul 6th - 7:00 PM  
via Zoom

**AARC**

Jul 14th - 12:00 PM  
American Red Cross/Echolink

**YARC**

Aug 4th - 7:00 PM  
Prescott Rodeo Grounds

**TBARC**

Jul 21st - 6:30 PM  
Arizona Christian University

**CADXA**

Jul 7th - 7:00 PM  
Bethany Lutheran Church

**ARA**

Aug 25th - 7:30 PM  
Electronically

**MARCA**

Jul 19th - 6:30 PM  
via Zoom

**MARA**

Jul 2nd - 9:00 AM  
Maricopa Public Library

**AzRCCC**

Jul 12th - 7:00 PM  
American Red Cross/MS Teams

**AMO**

Jul 14th - 7:00 PM  
Charles K Luster Bldg

**SuperstitionARC**

Jul 19th - 7:00 PM  
Charles K Luster Bldg-Mesa

**CHRC**

Jul 9th - 9:00 AM  
Tri-City Baptist Church

**ANSR**

Jul 21st - 7:30 PM  
via GoToMeeting

**KARC**

Jul 12th - 6:30 PM  
New Hope Christian Fellowship

**OVARC**

Jul 15th - 7:00 PM  
Mountain View Baptist Church

**SunLifeARC**

Every Monday - 10:00 AM  
Via Zoom

**ATN (VOAR)**

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

**QCWA-AZ Chapter**

TBD  
Various

**CARL**

TBD  
Check Web Site

**MMRG**

See Web Site

**WVARC**

Jul 4th - 7:00 PM  
Shepherd of the Desert Lutheran Church/Zoom

# ADAW Member Clubs

## ARIZONA AMATEUR RADIO CLUB

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

President	Gary Hamman	K7GH	602.996.8148
Vice President	Steve Tolnai	W7WSV	480.390.4446
Secretary	Randy Gault	KJ7RCN	
Treasurer	Bob Hodges	K7JJT	602.375.9982
Activities Mgr	Lori Cripps	WA7EDI	602.955.7517
Membership	Bob Hodges	K7JJT	602.375.9982

*AARC c/o Bob Hodges, K7JJT, 15214 N 7th Place, Phoenix, AZ 85022. DUES: \$15.00/YR, Prorated (\$18.00 Family, \$9.00 Student), MEMBERSHIP YEAR BEGINS FEB. 1.*

## SCOTTSDALE AMATEUR RADIO CLUB, INC.

The Scottsdale Amateur Radio Club meets the **FIRST WEDNESDAY** of each month at 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	<a href="mailto:n7ell@scottsdalearc.org">n7ell@scottsdalearc.org</a>
Vice President	David Yee	N7AJR	<a href="mailto:n7ajr@scottsdalearc.org">n7ajr@scottsdalearc.org</a>
Secretary	Bruce Harmsen	KA9EYX	<a href="mailto:ka9eyx@scottsdalearc.org">ka9eyx@scottsdalearc.org</a>
Treasurer	Douglas Mitchell	W7ADD	<a href="mailto:w7add@scottsdalearc.org">w7add@scottsdalearc.org</a>
Past President	Paul Finell	W7EFQ	<a href="mailto:w7efq@scottsdalearc.org">w7efq@scottsdalearc.org</a>
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](http://www.scottsdalearc.org)*

## ARIZONA NEAR SPACE RESEARCH

The Arizona Near Space Research group meets the **THIRD THURSDAY** of the month at 7:30 p.m. via GoToMeeting. Technical meetings are held the first Monday of the month at 7:30 p.m. on GoToMeeting. Please contact an officer about joining our meetings.

President	Stephen Thomas	KE7TLS	<a href="mailto:iangadget1@yahoo.com">iangadget1@yahoo.com</a>
Vice President	Clayton Jacobs,	KJ6QJS	
Secretary	Steve Miller,	W6SDM	
Treasurer	Bill McLean,	K7WWM	<a href="mailto:bmclean@gmail.com">bmclean@gmail.com</a>

*ANSR, PO Box 31003, Mesa, AZ 85275-1003. DUES: \$10.00/YR. Web Site: [www.ansr.org](http://www.ansr.org)*

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

## THUNDERBIRD AMATEUR RADIO CLUB

The Thunderbird Amateur Radio Club meets the **THIRD THURSDAY** of each month at 7:00 p.m. at Arizona Christian University, 59th Avenue and Greenway Road in Glendale. Meeting is in building 3600, Auditorium #1. See the website (<http://w7tbc.org>) for a map and more details.

President	Charles Loftus	KG7KRN	<a href="mailto:president@w7tbc.org">president@w7tbc.org</a>
Vice President	Rick Tejera	K7TEJ	<a href="mailto:vicepresident@w7tbc.org">vicepresident@w7tbc.org</a>
Secretary	Andrew Cornwall	KF7CCC	<a href="mailto:secretary@w7tbc.org">secretary@w7tbc.org</a>
Treasurer	Jeff Rogers	KD7PYE	<a href="mailto:treasurer@w7tbc.org">treasurer@w7tbc.org</a>
Directors	Robert Lutes	N7NO	<a href="mailto:n7no@w7tbc.org">n7no@w7tbc.org</a>
	Paul Veltman	WA6OKQ	<a href="mailto:wa6okq@w7tbc.org">wa6okq@w7tbc.org</a>
	Chuck Erickson	K7CAE	<a href="mailto:k7cae@w7tbc.org">k7cae@w7tbc.org</a>
	Robert Fairfield	K7RQN	<a href="mailto:k7rqn@w7tbc.org">k7rqn@w7tbc.org</a>
Past President	Brian McCarthy	AK7F	<a href="mailto:ak7f@w7tbc.org">ak7f@w7tbc.org</a>
Station Trustee	Gary Duffield	WK7B	<a href="mailto:wk7b@w7tbc.org">wk7b@w7tbc.org</a>

*For further information about the ThunderBird Amateur Radio Club, visit our website at <http://w7tbc.org>, send an e-mail to: [info@w7tbc.org](mailto:info@w7tbc.org) or call 602.938.8219. The Thunderbird Amateur Radio Club is a 501(c)(3) non-profit organization. Mailing address: PO Box 11394, Phoenix, AZ 85318-1394.*

## 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](http://K7ARC.org) Email: [info@k7arc.org](mailto:info@k7arc.org)*

## MARICOPA AMATEUR RADIO ASSOCIATION

The Maricopa Amateur Radio Association (MARA) meets the **FIRST SATURDAY** of each month at 9:00 a.m. at the Maricopa Public Library - Redwood Room, 18160 N Maya Angelou Drive in Maricopa.

President	Bob Howard	W8RH	<a href="mailto:president@copahams.org">president@copahams.org</a>
Vice President	Scott Bushman	WI7Y	<a href="mailto:vicepresident@copahams.org">vicepresident@copahams.org</a>
Secretary	Bob Proctor	N6YPE	<a href="mailto:secretary@copahams.org">secretary@copahams.org</a>
Treasurer	George Hogan	K7TGH	<a href="mailto:treasurer@copahams.org">treasurer@copahams.org</a>
PIO:	Steve Miller	W6SDM	<a href="mailto:pio@copahams.org">pio@copahams.org</a>
Webmaster:	Louis Sandoval	W8LES	<a href="mailto:w8les@copahams.org">w8les@copahams.org</a>

*The Maricopa Amateur Radio Association is a 501(c)(3) non-profit organization. DUES: \$25.00/year individual, \$30.00/year family. Apply on-line at [www.copahams.org](http://www.copahams.org). Mailing address: P O Box 951, Maricopa, AZ 85139*



# ADAW Member Clubs

## BARRY M GOLDWATER, ARIZONA CHAPTER QUARTER CENTURY WIRELESS ASSOCIATION

The Barry M Goldwater Arizona Chapter of the QCWA includes amateurs from all over Arizona who have been licensed for 25 or more years. Meetings are currently held in Phoenix, Prescott, and Tucson. The Arizona Chapter meets on the air every Sunday morning. Please check the website <http://www.azqcwa.org/> for the time and frequency.

President	Tom Fagan	K7DF	president@azqcwa.org
Vice President	Open		
Secretary	Carl Foster	KB7AZ	secretary@azqcwa.org
Treasurer	Carl Foster	KB7AZ	treasurer@azqcwa.org

Web Site: <http://www.azqcwa.org> Email: [info@gmail.com](mailto:info@gmail.com)  
 DUES: \$7.00/year and current national QCWA membership.

## MINGUS MOUNTAIN REPEATER GROUP

Meetings are held twice a year, an annual board meeting in Phoenix and a picnic meeting in Chino Valley. Dates, times, and locations are announced in the newsletter.

President	Bob Sitterley	K7POF	928.636.2146
Vice President	Tom Griswold	WN7E	
Secretary	Lori Cripps	WA7EDI	602.955.7517
Treasurer	Bob Sitterley	K7POF	928.636.2146
Board Members:	Gary Hamman	K7GH	
	Butch Merrill	K7JOG	
	Jerry Roberts	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	480.748.8182
Vice President	Bill Turley	KJ7GYH	923.536.2293
Secretary	Marie Mortensen	N7SKS	928.358.8748
Treasurer	Dennis Wilkes	W7DRW	928.739.4700

Mailing Address: Kachina Amateur Radio Club, P O Box 2996, Show Low, AZ 85902. Email: [kachinainfo@drwilx.com](mailto:kachinainfo@drwilx.com) Testing Info: White Mountain V.E. Team: [VEtesting@cablone.net](mailto:VEtesting@cablone.net). Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: [www.kachinaarc.org](http://www.kachinaarc.org)

## ARIZONA REPEATER ASSOCIATION, INC

The Arizona Repeater Association general meeting is held the **FOURTH THURSDAY** of each month at 7:30 p.m. There are no meetings in July and December. The November meeting is held the Monday before Thanksgiving. Meetings are held at Denny's Restaurant, 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](http://www.w7ara.org).

President	Brian McCarthy, AK7F	ak7f@w7ara.net
Vice-President	Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Treasurer	Cole Cunningham, AA7RD	aa7rd@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net

### Board Members:

Dennis Campbell, AE7WU	ae7wu@w7ara.net
Mike Montalvo, KF7MBK	kf7mbk@w7ara.net
Marty Dusenberry, KE7DGP	ke7dgp@w7ara.net
Lance Halle, KW7LH	kw7lh@w7ara.net
Joe Godfrey, AE7JG	ae7jg@w7ara.net
Joe Bakas, KE7WHE	ke7whe@w7ara.net
Patrick Baldwin, KI4NSF	ki4nsf@w7ara.net
James Wasson, N7ELL	n7ell@w7ara.net

For Membership Information, contact (Joe Godfrey, AE7JG [membership@w7ara.net](mailto: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](mailto: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](http://SuperstitionARC.org) and [SuperstitionSuperFest.org](http://SuperstitionSuperFest.org).  
 For more information, send email to: [info@superstitionarc.org](mailto:info@superstitionarc.org).  
 The Superstition Amateur Radio Club, Inc. is a 501(c)(3) non-profit corporation.



# ADAW Member Clubs

## MARCA, Inc. / W7MOT

MARCA is an Arizona 501(c)(3) Non-Profit organization. The club call sign in W7MOT. Membership is open to all amateur radio enthusiasts. Meetings are held the **THIRD TUESDAY** of each month at 6:30 p.m. via Zoom - login info on W7MOT.org. Monthly presentations cover a broad spectrum of interesting subjects. Visitors are welcome to attend. Come early (6:00 p.m.) socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications.

President	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

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

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

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: [aa4q@arrl.net](mailto:aa4q@arrl.net). Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: [www.cadxa.org](http://www.cadxa.org).

## YAVAPAI AMATEUR RADIO CLUB

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

President	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	Ron Levine		
	Jane Lerette	K7ZHF	
	Ray Kolman	KI7COM	spudsmn@gmail.com
	Mike Schnell	NC7X	ka9cid@gmail.com
	Bill Noe	WG7U	

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

## ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at The Mountain View Church, 3500 W Overton Road in Oro Valley. (Monthly meetings are live-streamed.) Visitors are welcome. Board Meetings are held at 7:00 p.m. via ZOOM. Check the web site at [www.tucsonhamradio.org](http://www.tucsonhamradio.org) for dates.

President	Steve Wood	W1SR	w1sr@arrl.net
Vice-President	David Beauchesne	AK2L	ak2l@arrl.net
Secretary	Logan Zintsmaster	KE7AZ	lrahnz@garlic.com
Treasurer	Gary Pierce	AE7GP	ae7gp1@gmail.com
Board Members	Fred Bresani	W2HZ	w2hz@verizon.net

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

## CHANDLER HAM RADIO CLUB

The Chandler HAM Radio Club (call sign N7CHN) meets the **SECOND SATURDAY** of each month at 9:00 AM at the Tri-City Baptist Church, Room 140, on the SW corner of Germann & Dobson Roads in Chandler. Our monthly club meetings are held in person. Visitors are welcome. Check the web site at [chandlerhams.org](http://chandlerhams.org) for dates and presentation topics of club meeting. Weekly net is held every Thursday at 8:00 PM on 443.050+ PL100.

President	Dave Hoffman	KJ4RS	pres@chandlerhams.org
Vice President	Debby Smith	KJ7MIQ	vp@chandlerhams.org
Secretary	Mary Stephen	AE6Q	sec@chandlerhams.org
Treasurer	Byon Garrabrant	N6BG	treas@chandlerhams.org

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





# ADAW Member Clubs

## CENTER FOR AMATEUR RADIO LEARNING

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

President	Jack Landon	KD7ROB	480.759.5195
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](mailto: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](http://www.whereby.com/atn1) on Sundays at 7:00 PM AZ time and Tuesdays at 8:30 PM AZ time for our ATV Nets. It's a lot of fun!

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

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

We also stream 24x7 on [www.youtube.com/amateurtelevisionnetwork](http://www.youtube.com/amateurtelevisionnetwork) and on YouTube at W7ATN-Arizona Live and W7ATN-Mesa Live.

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

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

## WEST VALLEY AMATEUR RADIO CLUB

The West Valley Amateur Radio Club, an Arizona 501(c)(3) non-profit corporation, has been providing emergency communications since 1961. Meetings are the **FIRST MONDAY** of each month at 7:00 PM at Shepherd of the Desert Lutheran Church, 11025 N 111th Avenue in Sun City. VE Testing with prior registration before each general meeting at 6:00 PM. The board usually meets on the third week of the month on Zoom. A weekly breakfast is held on Thursdays at Lou's Tivoli Gardens, 12535 W Bell Rd at 7:00 AM. Daily call-in nets are held on 147.300 (tone 162.2) at 9:00 AM and at 8:00 PM. Check our website (<https://westvalleyarc.com>) for other events and information.

President	Danny Hoerr	KM4HFT
Vice-President	Bill Ciccone	KA2KHV
Secretary	Lee Ann Ciccone	KJ7AZR
Treasurer	Bob Runke	AB7RR
Board Member:	Ryann Shipp	K1WAZ
	Joe Jacobson	KJ7PUL
	Frosty Oden	NQ1S
	Larry Johnson	WO7C
Committees:		
Membership	Krissy Larson	KI7GJJ
Technical Advisory	Frosty Oden	NQ1S
Equip. Donations & Sales	Ken Jenkins	WB6MMV
	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](mailto:suncitywvarc@gmail.com)

## SUNLIFE AMATEUR RADIO CLUB

The Sunlife Amateur Radio Club is a Snowbird Club and meets **EVERY MONDAY** at 10:00 AM from October through the end of April both in person and on Zoom at Greenfield Village, 111 S Greenfield Road in Mesa. Please contact Sue Rogers, W7SKH at [happyham7777@gmail.com](mailto:happyham7777@gmail.com).

Nets:

- 20 Meter Net: Monday, Wednesday, & Friday, 14329 Mhz SSB 12:30 p.m./11:30 a.m. during daylight savings time.
- 10 Meter Net: Tuesday & Thursday, 28.329 Mhz, SSB. 7:00 p.m./8:00 a.m. during daylight savings time.
- Venture Out: 2 Meter Net: Monday, Wednesday, & Friday, 1:00 p.m., 146.58 MHz FM simplex, 12:30 p.m.

President	Ralph Towers, KA0CET	<a href="mailto:retowers@hotmail.com">retowers@hotmail.com</a>
Vice President	Jim Hood, K5TT	
Secretary	Greg Watkins, WB7VOK	
Treasurer	Cheri Goforth, KD7ZXD	<a href="mailto:treasurer.sunlifearc@gmail.com">treasurer.sunlifearc@gmail.com</a>

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



## ADAW Member Clubs

### AMO - ARIZONA MESH ORGANIZATION

The Arizona Mesh Organization (AMO) is a 501(c)(3) amateur radio club. Our goals and purpose is to promote and support ARDEN MESH Networks throughout the state of Arizona, to explore new technologies, to promote the education of what amateur radio mesh is, to support and exchange information with mesh users throughout the state, to further the technology of mesh radio itself, to support emergency and public service communications, and (of course) to have fun along the way. AMO's board meets the **FIRST THURSDAY** and club meetings are held the **SECOND THURSDAY** of each month via Zoom. If you would like to attend either of these, contact the President, Michael, KI7LXY at [president@arizonamesh.org](mailto:president@arizonamesh.org) at least 24 hours in advance. Visit the web site at <https://arizonamesh.org> for more information on the AMO Club and up-to-date news.

President: Michael Bailey, KI7LXY [president@arizonamesh.org](mailto:president@arizonamesh.org)  
 Vice-President: Steve Estes, KB7KWK [vicepresident@arizonamesh.org](mailto:vicepresident@arizonamesh.org)  
 Treasurer: Scott Gillins, W2KP [treasurer@arizonamesh.org](mailto:treasurer@arizonamesh.org)  
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 Rodney Fritz, WB9KMO [wb9kmo@arizonamesh.org](mailto: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](https://arizonamesh.org/amo_membership.shtml)*

### ARIZONA OUTLAWS CONTEST CLUB

The Arizona Outlaws Contest Club ("AOCC") does not hold routine meetings. At least once per year, we hold the AOCC Roundup, a catered event that rotates each year between Phoenix, Tucson, and Prescott. All members have access to an email reflector. Members post comments, questions, and their contest scores. All licensed amateur radio operators interested in amateur radio contesting (also known internationally as "radiosport") are eligible for membership. For more information, see our website, [www.arizonaoutlaws.net](http://www.arizonaoutlaws.net).

President: Mike Fulcher, KC7V [mikekc7v@gmail.com](mailto:mikekc7v@gmail.com)  
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 V.P. South Area: Owen Watson, AK7W [ak7w.owen@gmail.com](mailto:ak7w.owen@gmail.com)  
 Secretary/Treasurer: Larry Reader, KE2VB [larry.ke2vb@gmail.com](mailto:larry.ke2vb@gmail.com)

*Arizona Outlaws Contest Club, 1099 N Olympic Pl, Tucson, AZ 85737. Dues are \$10 per year. For more information, contesting resources, and a membership application, visit our website: [www.arizonaoutlaws.net](http://www.arizonaoutlaws.net).*



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

## From the Editor's Desk

Summer is here! As I write this, it is just days before Field Day. Most clubs hold activities centered around the Field Day event. It is a contest, of sorts, with clubs (and individuals) making contacts with other stations to gather points. While it is a contest, it's also more than that. It's a chance to get together in cooler climates, build communications skills in less than optimum conditions, share knowledge, eat delicious food, and generally just enjoy each other's company. Nothing could be better. Hopefully, everyone (or at least most of you) got to experience this year's Field Day. If you're unable to take part this year, make plans to check it out next year. Field Day is always the fourth weekend of July, so mark your calendars now.

Hamfests are taking the summer off in Arizona. The next one won't be until the temperatures begin to decline. The Show Low Tailgate event will be held on September 17<sup>th</sup> at the Show Low Masonic White River Lodge in the beautiful White Mountains. More information can be found in the Hamfest Calendar on page 14 and on the flyer in the flyer file.

Also in September, the Radio Society of Tucson will hold their Tucson Autumn Hamfest at Calvary Tucson Church. This is the same location where their Spring Hamfest took place. You can find out more in the Hamfest Calendar (page 14), on their flyer, and on the website at <http://www.k7rst.org>.

Public Service Events are also on hiatus for the summer. Keep checking the listing on page 9 for updates and consider volunteering.

The Center for Amateur Radio Learning (CARL) at the Arizona Science Center is always in need of volunteers. With the heat of summer, most of their "snow-bird" volunteers have headed home to escape the high temperatures. This makes it more difficult to fill the volunteer slots at the shack. What better way to give back and help spread the news about Amateur Radio than to volunteer at the Science Center. You get into the Center for free, visit with the public, and operate the radios all in cool air-conditioned comfort. Give one of the officers a call and see how you can help them out. Their numbers are listed on page 5.

Until next month - Stay Cool!

73,  
Chris, N7PVL

ADAW

## 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](mailto:d_brunz27@yahoo.com)

### 11.0/13.5 KW 120/240 V Predator Generator

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

**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](mailto: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](mailto:kjenkins5623@gmail.com) or Jim Seay, WB7RBN at [wb7rbn@arrl.com](mailto:wb7rbn@arrl.com).



NRPA'S PARK AND RECREATION MONTH

**July is National Parks Month**

Visit the National Park nearest you!





### ***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](https://twitter.com/w7asc_arc) and [facebook.com/W7ASC](https://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 at Arizona Science Center. Call the number above to set up a visit to check us out, or visit us on QRZ.com to start the process of becoming a volunteer at ASC.

### **Squirting the Birds the Hard Way**

Some years ago, the Wednesday Crew of C.A.R.L. volunteers at Arizona Science Center got the bug to work satellites. Why not? We had a nice dual band, computer-controlled VHF/UHF transceiver and a matching pair of antennas on a dual axis rotator mount.

Piece of cake. Right? Not exactly. The transceiver used mechanical relays to switch from one band to the other and when the computer made a correction for Doppler shift or XMT/RCV keying, it reverted to VFO A for the shift and then went back to VFO B. The ensuing clicks and clacks took up most of the time in the QSO. We were lucky to copy the minimal information required to log the contact.

One operator manned the microphone, a second operated the manually controlled rotators, and a third tried to manage the Doppler shifts. A recipe for disaster, but, with our naive determination, we did make a few satellite connections only because the big-guns on the other end made up for what we lacked. The scene was reminiscent of the old Keystone Cops slapstick comedy routines. Needless to say, that did not last long. With just a few satellite QSOs in the station log, the

### ***CARL Continued from Previous Column***

Wednesday Crew retired from their lofty aspirations, taking what credit we could for our small part.

### **Sayonara to the Keystone Cops**

Thanks to the hard work of Rusty WA8ZID, Thomas NE7X, and others, W7ASC is ready to resume satellite communications with new equipment and software generously provided by ARCA and CSN Technologies. ARCA funded the purchase of an Icom 9700 VHF/UHF/SHF transceiver and CSN Technologies donated a complete S.A.T. (Self-contained Antenna Tracker) system that controls the Yaesu antenna rotators and the IC 9700 radio, including Doppler frequency tracking. Going forward, we just have to pick the right time and satellite and our chances of a QSO are greatly improved over our former attempts.

So, why is this important? At the risk of repetition, amateur radio is just one thread in the fabric of global communications and satellite communication capability strengthens our presence in that fabric. Just like repeaters and nets strengthen our ability to communicate closer to home, satellites are one solution to the vagaries of worldwide HF communications. As amateur radio operators, we probably know that better than most of the public.

### **Be Prepared**

The next time somebody holds up their cell phone, as if to say this is all I need, smile and politely explain that their cell phone is one type of radio and, while a big piece of the communications fabric, neither self-sufficient nor the final answer to worldwide, full-time communications. It can become an expensive paperweight in an instant. Not so with amateur radio.

73 de WB4ZSC Steve  
[vyix99@yahoo.com](mailto:vyix99@yahoo.com)  
480.570.1041

**ADAW**



*Continued Next Column*





## Public Service Calendar

### Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
AEN-MAR Barnburner Simulation		07/26/2022
	AEN-MAR Net - Metrolink Repeaters	
Barnburner Mountain Bike Race		09/17/2022
	Kendrick Peak, NW of Flagstaff	
AuxComm Interest	TBD	12/31/2022

To sign up for an MCECG Public Service Event: [www.mcecg.net](http://www.mcecg.net)

For information, contact Dennis Bietry - KE7EJF at 602.274.3732 - email, [ke7ejf@cox.net](mailto:ke7ejf@cox.net), or contact the Event Coordinator for the event.

#### May Foxhunt Event

At around 9:00 a.m. on Saturday, May 21, an intrepid group of hunters met at Thunderbird Conservation Park. Their prey: the wily fox. Not the canine kind, but the ham radio kind - eight radio transmitters that had been hidden around the park by Byon Garrabrant N6BG, the owner of Byonics.com. Byon's a hidden transmitter expert and a local ham. About ten people joined in the hunt, discovering how well a radio can be disguised... or overlooked, if you're not expecting it. Everyone had a great time and learned valuable skills for direction finding, and we may end up at Thunderbird Conservation Park again - one member mentioned that he thought it was one of the best venues we could have.

#### Field Day June 25-26

Depending on when this comes out, you may already be at Field Day - either in Flagstaff (where Jack Lunsford has graciously agreed to host) or facing much warmer temperatures down here in the Valley. Either way, remember to use "Thunderbird Amateur Radio Club" as your club affiliation when you submit your Field Day log to the ARRL. If you're at Jack's, I know the food will be (or was?) excellent. If you're down in the Valley, you're on your own for meals! Here's to lots of QSOs and no QRM no matter where you're operating from!

#### Hamfest Raffle

It feels like ages away, but the hamfest is coming up fast. Brian has already purchased the raffle prizes, and this year looks really good. We're going to have a Yaesu FT-101DX, a Yaesu FT-5DR, an Anytone 878UVII+, a PowerWerx DB-750X with programming kit, and a ClearNode Pi 4B hotspot. That's five prizes, a 67% increase from last year. Which one do you want to add to your desk... or car... or pocket? Additional details will be coming soon on our hamfest website, [tbirdfest.org](http://tbirdfest.org) - check it out!

#### July meeting

We'd love to see you at our next meeting! As usual, it's on the third Thursday of the month. The meeting will be hybrid: in person at Arizona Christian University or online with Zoom. Israel scored another big name for July: Bob Heil K9EID, who's the man behind Heil Sound and Ham Nation, now part



#### *TBARC Continued from Previous Column*

of the Ham Radio Crash Course Youtube channel. Bob will be joining us virtually to talk about "Proper Radio Adjustments and the Importance of Speech Articulation." It doesn't hurt to have a monster beam and an amplifier the size of a file cabinet, but even if you can't there are still things you can do to help yourself be heard. The conference URL and details are on the TBARC website, [w7tbc.org](http://w7tbc.org). Join us and find out more - 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](mailto:kf7ccc@arrl.net)

*Continued Next Column*

**ADAW**



*CHRC Continued from Previous Column*



## HAPPY ANNIVERSARY CHANDLER HAM RADIO CLUB

CHRC was founded July 13, 2019 and has grown to over 100 members today. We are a social group of amateur radio enthusiasts that meet regularly for Field Day events, monthly breakfasts, club meetings with guest speakers, Hamfest, POTA, SOTA Fox Hunts, Contesting, Em Comm, CERT, FEMA and help with local events. We also enjoy helping NEW and OLD Hams with expert advice and experience, so please don't be afraid to ask!

We have our Anniversary Party in July and our Annual Christmas Party in December. We also have special member led events:

Weekly - The R.O.M.E.O Lunch

Monthly - The Be-H.I.P. Event

Quarterly - The R.O.M.E.O. Breakfast.

“A BIG THANK YOU TO ALL THE AWESOME MEMBERS!”

The Chandler VE Team Test Session is on the first Saturday of every month at 10:00 a.m. at the Tri-City Baptist Church, 2211 W. Germann Rd., Building D, Room 170 in Chandler, AZ. All newly licensed hams (TECH) receive a free gift membership to the Chandler Ham Radio Club for the remainder of the calendar year. Sign up online at the CHRC website, [www.chandlerhams.org](http://www.chandlerhams.org).

The CHRC holds their Monthly Business Meeting the second Saturday of every month at 9:00 a.m. at the Tri-City Baptist Church, 2211 W. Germann Rd., Building D, Room 140 in Chandler, AZ. On most months, these meetings are immediately followed by a ham radio related presentation and free raffle for club memorabilia. The meeting is open to anyone, and all members are encouraged to attend. Please check out our website for more information. [www.chandlerhams.org](http://www.chandlerhams.org)



## Chandler Ham Radio Club and Area Events

**4th Saturday of every Month** - Chandler Ham Radio Club breakfast at Denny's on the NE corner of Germann and Gilbert roads. All are invited.

## WEEKLY EVENTS

**WEDNESDAY Evenings @ 8:00 p.m.:** The SHOW NET on South Mountain Repeater, 443.050 + pl100. This is a social net but also hope to get TECH questions and conversations as well. Please join us every WEDNESDAY and be a part of this NET.

**THURSDAY Evenings @ 7:00 p.m.,** Maricopa County New Hams Net on South Mountain Repeater 440.375 + PL100. This net is targeted at newly licensed hams to learn and get over the fear of pressing that PTT button on your radio. Good variety of new and seasoned hams...no such thing as a dumb question here.

**THURSDAY Evenings @ 8:00 p.m.:** The Chandler Ham Radio Club weekly net on South Mountain Repeater, 443.050 + pl100. All though this is the weekly club net it is open to all ham radio operators in the valley.

**FRIDAY's @ 11:00 AM,** THE NATIONALLY FAMOUS “ROMEO LUNCH” AT CULVER'S ON ARIZONA AVE AND WILLIS RD, Chandler, AZ

*Continued Next Column*

**ADAW**

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The Yavapai Amateur Radio Club meets at the Freeman Building at the Prescott Rodeo Grounds, 840 Rodeo Drive, Prescott, AZ 86305 on the first Thursday of every (almost) month, at 7:00 PM. Or, if you would like to join the fray via Zoom, the link can be found on the front page of our website, [www.w7yrc.org](http://www.w7yrc.org). Please note: Due to the Prescott Rodeo, there will be no July meeting.

Amateur licensing tests are available in Prescott every month. Both YARC and our fellow licensing group “ARRL Ham Radio Exams” test on alternate months. Our next session will be on August 6, 2022. Pre-registration is recommended at [www.w7yrc.org/arrl-vec/](http://www.w7yrc.org/arrl-vec/). 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. A Technician class will be held July 23rd and July 30th, at Jeep Posse Building 8:30 a.m. to 4:00 p.m. General classes are October 22nd, October 29th and November 5th, at Jeep Posse Building 8:30 a.m. to 4:00 p.m. Check our website for corrections or further details, and to register.

While activity on the FM repeaters is not what it was several years ago, YARC is doing its part to bring life back to the airwaves. The Yavapai Amateur Radio Club has a 2-Meter and 70CM FM net dubbed the “1300 Net.” It is held every week day (except Saturday & Sunday) at 1300 hours MST on 146.880 (PL of 100 Hz) and 447.650 (PL of 100Hz). These Linked repeaters have AllStar node 502370 and Echolink W7YRC-R.

Other nets we conduct are:

Wednesday Night FM Net 7:00 PM

Friday Night 6 meter FM Net 7:00 PM

Saturday Coffee FM Net 9:00 AM

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

Our first hamfest in a couple of years was held on May 14. If you attended, thank you. While it was a mini-fest as these things go, it was a success, and it is great to have these back.

Upcoming YARC events include our participation in ARRL Field Day, June 25 at the Yavapai Jeep Posse facility, 1200 Commerce Drive, Prescott. And we will, once again, be operating the N7GMH memorial radio station on June 30. This operation is in memory of the Granite Mountain Hotshots who

### *YARC Continued from Previous Column*

lost their lives on June 30, 2013. Look for us on the air.

YARC is an ARRL Special Service club. We provide communications for several community events each year. Upcoming on our calendar are:

1. Prescott Rodeo Parade – July 02, 2022
2. Contact: Frank Bender K8FB ([fhb47@hotmail.com](mailto:fhb47@hotmail.com)). Please fill out the Prescott Rodeo Volunteer/Waiver form at this link and return it to Frank K8FB.
3. Skull Valley Loop Challenge – September 18, 2022 – Contact: John Snedden KT7P ([kt7p19@gmail.com](mailto:kt7p19@gmail.com))
4. Groom Creek Classic – September, 2022 (TBD) – Contact: Frank Bender K8FB ([fhb47@hotmail.com](mailto:fhb47@hotmail.com))
5. Chino Grinder – September 24, 2022 – Contact: Don Sears N7PLL ([donsears@zoho.com](mailto:donsears@zoho.com))
6. Whiskey Row Marathon – October, 2022 (TBD) – Contact: John Broughton B9VGJ ([wb9vgj@arrl.net](mailto:wb9vgj@arrl.net))

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

Remember; BE RADIO ACTIVE !



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### *CHRC Continued from Page 10*

#### **NON-WEEKLY EVENTS**

**NEXT ROMEO BREAKFAST** -Wednesday June 15th, 2022 @ 8:30 a.m. at Biscuits Café, 9542 E Riggs Rd, Sun Lakes, AZ 85248. This is just west of Dobson on Riggs Rd on the NE corner. Looks like a giant red brick with windows....

**SUMMER FIELD DAY** - Weekend of July 25th and 26th, 2022 - Groups meeting at Gentry Lookout Campground - See link for details...

<https://www.w7mot.org/index.php/field-day-map>

Walter  
KK7AEV

*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). 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.**

## July Test Sessions

**Jul 2nd** - CHRC Laurel VEC Team -- 10:00 AM  
Tri-City Baptist Church, 2211 Germann Rd, Chandler  
Bldg D, Room 170  
Contact: [ve@chandlerhams.org](mailto:ve@chandlerhams.org)  
No Walk-Ins / Registration or Call Ahead  
Register at: [chandlerhams.org/testing/](http://chandlerhams.org/testing/)

**Jul 2nd** - 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  
**FACEMASKS ARE REQUIRED**

**Jul 4th** - 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

**Jul 5th** - ARRL Ham Radio Exams -- 6:00 PM  
Quadcity Christian Church, 501 S Senator Hwy, Prescott  
Contact - J.M. Scherfling 928.632.2050  
No Walk-Ins/ Register or Call Ahead

**Jul 9th** - 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

**Jul 11th** - Radio Society of Tucson -- 7:00 PM  
Immanuel Presbyterian Church, Witherspoon Hall  
252 E 22nd St, Tucson  
Contact - Diane Zimmerman  
[dzimmerman2002@gmail.com](mailto:dzimmerman2002@gmail.com)

**Jul 15th** - Oro Valley ARC -- 5:30 PM  
Mountain View Baptist Church, 3500 W Overton Rd, Tucson  
Contact - David Beauchesne 831.345.3308

**Jul 16th** - Northern AZ DX Association -- 10:00 AM  
Flagstaff Fire Station #6, 3877 S Lake Mary Rd, Flagstaff  
Contact - Mike Hanks 928.606.4437  
No Walk-Ins / Register or Call Ahead

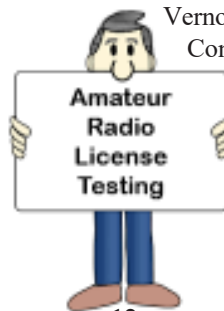
**Jul 16th** - Hualapai ARC -- 10:00 AM  
VE's Residence, 3571 E Lum Ave, Kingman  
Contact - Alyce Ingle 425.231.9173

**Jul 16th** - 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

**Jul 18th** - 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

**Jul 20th** - 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

**Jul 29th** - Vernon Teaching Testing Center -- 6:00 PM  
Vernon Community Park, 1567 ACR 3148, Vernon  
Contact - Anthony Romyak 928.892.3098  
Walk-Ins Allowed





*AOCC Continued from Previous Column*

January 2022:

NAQP CW: AOCC Bandits:  
(Call-Score-QSOs/Mults)

\* = Unassisted

\*N2IC - 611,184 - 2247/272 - An impressive New Record

NAQP CW score

KY7M - 340,746 (at NA7TB) - 1159/294

N4ZZ - 328,189 - 1277/257

K8IA - 293,760 - 1224/240

K6LL - 265,650 - 1050/253

---

TOTAL - 1,839,529

This score is significantly ahead of the 2nd place team, FRC Team Cyan, who had 1,548,071 points

NAQP SSB: AOCC Outlaws:  
(Call-Score-QSOs/Mults)

\* = Unassisted

\*N2IC - 365,500 - 1700/215

\*ND7K - 358,433 (KI6RRN op) - 1579/227

K6LL - 259,120 - 1264/205

N4ZZ - 222,906 - 1149/194

\*N7RQ - 174,410 - 1070/163

---

TOTAL - 1,380,369

This score is way ahead of 2nd place GMCC Avs who had 678,920 points.

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

73,  
Mike KC7V

Dayton (Xenia) Hamvention 2022 has come and gone. I attended Contest University for the first time and really enjoyed it. Lots of great topics and I always learn something. The event was well attended. The downside is that many testers tested positive for COVID after the event, so care must be taken in the future. There were quite a few Outlaws in attendance.

The 2022 CQWPXCW contest had a ton of participation. Lots of fun but unfortunately the bands suffered from poor conditions due to solar disturbances and that limited DX openings. Even so, some big scores were attained. Thanks to all Outlaws that participated.

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

Contest Tip this month – Contest pileups. There are two schools of thoughts put forward by K1DG and N9RV. Doug K1DG encourages sticking and working with what you hear even if the station is weaker. Pat N9RV recommends working the loudest guy first to keep the pileup moving. For example, if two guys are calling you and the first one is weaker and starts first, then a much louder signal calls over the top of that station, Pat recommends calling the louder station first as the QSO should be quick without repeats. I tend to follow the Pat method to keep the pileup timing.

Our members include elite testers 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-  
Once again, NAQP Teams in both January 2022 NAQP CW and NAQP SSB earn 1st place Team honors. This is the 8th time AOCC Teams have been 1st place in both modes for a January NAQP CW. All in the past 11 years.



**July 28th**

## Hamfest Calendar

17 September 2022 - **Show Low Tail Gate Swap Meet** - will be held at the Show Low Masonic White River Lodge #62, 741 Whipple Street in Show Low. Hours are 7:00 AM to 12:00 PM. Set up starts at 6:00 AM. Free Admission. Spaces - \$5.00 for 10X10 space. Food & Drink available by the Ladies of Masonic Eastern Star. VE Testing - to pre reserve, contact Vince at [vetesting@gmail.com](mailto:vetesting@gmail.com). Contact [w8ybm18@gmail.com](mailto:w8ybm18@gmail.com) for more information.

24 September 2022 - **Tucson Autumn 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 to 11:00 AM with seller set up starting at 6:00 AM. Free Admission. Seller/Vendor Spaces - \$10/parking space. Morning Snacks by Scout Troop 157 and Pack 705. Talk-in - 145.250 MHz, Tone 156.7 Hz. For more information, visit the web site at <http://www.k7rst.org>.

1 October 2022 - **TARA Ham Swapfest** - hosted by the Tonto Amateur Radio Association will be held at Rumsey Park, 400 McLane Road in Payson. Hours are 8:00 AM until 2:00 PM. Admission is free. Tailgaters are \$10.00 and vendors are \$20.00 per table. VE testing will be held from 7:00 AM until 9:00 AM. There is a \$15.00 fee for the test. A potluck BBQ will follow the swapmeet until 4:00 PM. Bring your own meat and something to share. Contact Bruce Johnson at 928.474.4154 (email - [stretch8@q.com](mailto:stretch8@q.com)) for more info. Visit the website at <https://n7tar.org/>

29 October 2022 - **Copafest** - hosted by the Maricopa Amateur Radio Club will be held at The Ultrastar at Ak-Chin Circle, 16000 N Maricopa Rd in Maricopa. Hours are 7:00 AM until 1:00 PM. Admission Donation is \$5.00 per person. Spaces are \$10.00 for two parking spaces. Setup begins at 5:00 AM. Balloon Launch, VE Testing, Card Checking, Vendor Exhibits, Seminars, Prizes and more. Many activities available in the Multitainment Center including laser tag, bowling, movies, games, dining and more. Dining and Hotel also available. For information, email [fest@copafest.org](mailto:fest@copafest.org) or visit the website at [www.copafest.org](http://www.copafest.org).



5 November 2022 - **HARKfest Tailgate Hamfest** - hosted by the Hassayampa Amateur Radio Klub will be held at North Ranch Escapees RV Park, 30625 S Hwy 89 in Congress. Hours are 8:00 AM until Noon. Free Admission. Free Tailgating & Vendor Sites. Must pre-register via email to [djgrooms@yahoo.com](mailto:djgrooms@yahoo.com). Overnight full RV hook-up or dry camping. Contact North Ranch Escapees at [northranch@escapees.com](mailto:northranch@escapees.com) to reserve. Free Ham Radio License Testing - Must pre-register via email to [cecarter39@yahoo.com](mailto:cecarter39@yahoo.com). Grand Prizes - Door Prizes - ARRL Card Checking. Talk-in on 146.580 (simplex) or 146.620 repeater (PL 162.2). Contact Duane Grooms, KD0KYK at [djgrooms@yahoo.com](mailto:djgrooms@yahoo.com) for more information. Visit the website at [harkaz.org](http://harkaz.org).

12 November 2022 - **Oro Valley Hamfest** - hosted by the Oro Valley Amateur Radio Club will be held at Marana Middle School, 11285 W Grier Road in Marana. Gates open at 7:00 AM (5:00 AM for sellers). Closes at 1:00 PM. \$5.00 Admission includes a bottle of water. Children under 12 are free with a paid adult. Students are free with any AZ school ID. Seller spaces - \$10.00 per space (includes the seller). Indoor VE session. Pre-registration preferred - email [licensing@tucsonhamradio.org](mailto:licensing@tucsonhamradio.org). ARRL Card Checking, Interesting Seminars, Prizes! Food Truck available for Breakfast and Lunch. Contact [hamfest@tucsonhamradio.org](mailto:hamfest@tucsonhamradio.org) for more information.

3 December 2022 - **Superstition SuperFest** - hosted by the Superstition Amateur Radio Society will be held at Mesa Community College, Southern & Dobson Campus in Mesa. Watch for more details.

ADAW



July is National Picnic Month!





Field Day is upon us but the ARRL has made it much easier to participate in hot and sunny Arizona. Check out the news rules and see how easy it is to stay right at home and accumulate Field Day points.

With the passing of Jim, W5ZIT, the board purchased a Diamond Terrace brick from The ARRL. In a small show of appreciation of Bobbie, Jim's wife, we presented her with a certificate and a Lucite replica of the brick. Attending were Mike-K7VTT, Howard-KC7AC, Gary-KT7AZ, Tom-W7TRA, David-AK2L, and Steve-W1SR. Bobbie was thrilled to receive these items in memory of Jim-W5ZIT.

The OVARC board has been exchanging ideas of a grant submission. We have quite a collection of ideas and we are now beginning to shorten the list.

Several club members attended Hamvention this year along with Contest University that occurs the day prior to Hamvention. The weather was very cooperative and I believe everyone enjoyed themselves.

The annual OVARC hamfest is on for November. The date is Saturday, November 12th. Please circle your calendars. If you attended in 2021 and noticed the many items we had for sale, 2022 will be even bigger. Fred-W2HZ has been busy taking in donations of all kinds so we'll have another large sales table at the November hamfest. Please plan to join us in November. It's the largest hamfest in Southern Arizona.

I hope everyone enjoys Field Day. Happy 4th of July to everyone. Best wishes and good health to all, especially our friend and club Vice President David-AK2L.



The ARA is known for its high quality repeaters across all of Arizona. These repeaters are supported by the members of ARA. You can join the ARA to support these open repeaters! Membership is \$20 per year. Membership info @ <https://www.w7ara.org/mbr/Membership.aspx> or email [membership@w7ara.net](mailto:membership@w7ara.net). ARA members are encouraged to log into the member services on the ARA website and review / update their email addresses.

Join us at our next General Meeting Virtually or in person. <https://www.w7ara.org/mtg/Meetings.aspx>

#### ARA Site Profile UPDATE

ARA Mesa site contributors Dennis Campbell, Marty Dusenberry, Bill Kouchis, and James Wasson

Mesa Tower (previously named Bank of America building), the blue building in Mesa.

Location - Alma School and Southern Avenue Mesa

Elevation - 1,566 ft. Height 224' 16 Stories

Radios – Three modified Motorola Micor radios

There are two linked repeaters operating on 224.680 – 156.7 and 449.625 – 100.0

Auto-patch service is available on both radios. Autopatch is local to that building; it's not shared with other radios, as is the case for the Metrolink autopatch.

The third radio is used for control functions or linking to other systems as needed.

Antennas – 70cm Telewave ANT450F6, 1.25 M Hustler G7-220, and Diamond X30A

Power supply - Astron 50RM

Backup - Site is 100% AC without battery backup

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

September 20, 2000 - ARA receives approval for immediate installation of the equipment. This has been a three year process, since the application was submitted. All the equipment for the site, (antennas, mounts, lighting protectors, and hard line connectors have arrived.) The radio equipment has been completed and running in test mode at a temporary location for over two years.

November 2000 - 220 (224.68-) repeater is on the air. UHF is pending installation of the antenna.

*Continued on Page 16*

*ARA Continued from Page 15*

December 2000 - Both repeaters are fully operational but not linked. ARA asks for member input on whether to link or not. Repeaters are sharing the phone line for auto-patch.

Update 2021

Early 2021, the new building owners of Mesa Tower advised the ARA they were preparing for a roof maintenance project. In a June 8, 2021 meeting, the owners shared a plan to remove unneeded structure from the roof of the building in preparation for roof maintenance. Current occupants were directed to ensure all of their roof equipment and wiring was marked every 25' as soon as possible.

The following Saturday, June 12th, a crew of three, Dennis, Bill, and Ray went to the site to label all three antennas and coax runs from antenna to the equipment cabinet. The task took the team two hours as they had to follow the coax runs across the roof, through the cable bundles, down the wall in the cooling tower well, through the wall, across the ceiling, into our equipment rack, and into each filter bank.

Update 2022

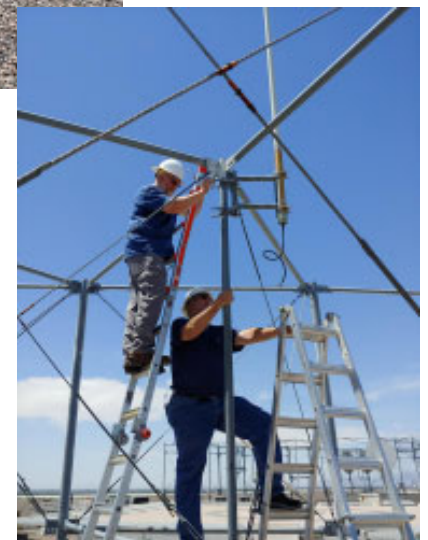
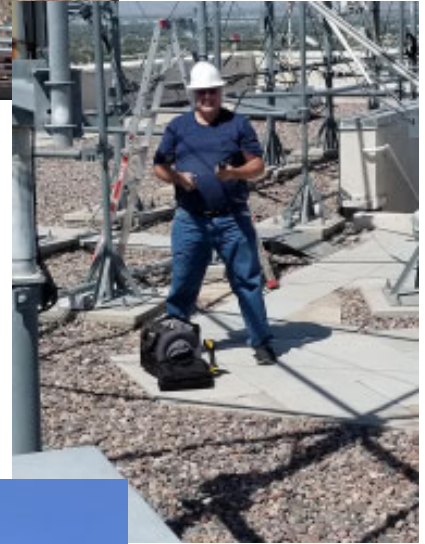
May 2022

Plans have been finalized for the West roof structure to be removed from the Mesa building. The ARA will relocate three antennas and their feedlines to the East side antenna structure.

June 4, 2022

Marty Dusenberry, James Wasson, Bill Kouchis, and Dennis Campbell went to the roof of the Mesa Tower building. They moved the three antennas from the West support structure to the East support structure and rerouted the coax for each. Now the building owners are clear to demolish the West structure.

Note the photo of Marty and James putting the finishing touches on the 449.625 antenna. The horizontal pipes of the structure are about 14 feet above the roof.



ADAW

*Continued Next Column*



### **Independence Day Net July 4th**

The Club holds an annual net every July 4th at 12:00 Noon for the reading of the Declaration of Independence by net participants. Please watch your email for instructions to preregister in advance of the net. We will send preregistered participants the Declaration of Independence, so that each participant may take turns reading a paragraph or two.

### **Club Meeting Tuesday, July 19, 7:00 PM**

The Club will meet at the Charles K Luster Building and on Zoom. Members, please check your email for the Zoom link. Doors open at 6:00 PM, but it takes a bit of time to set the Zoom connection up. It should be available at 6:30 PM.

Visitors are always welcome to visit our meetings. We encourage you to join the club, of course, but that's your choice to make.

The address and more can be found in ADAW Member Clubs, Page 3.

### **Organ Stop Pizza at Noon, July 23rd**

Our traditional July event at Organ Stop Pizza is scheduled for Saturday, July 23. The doors open at 11:45 AM to club members and their guests with music beginning at 12:00 Noon. In addition to the music itself, you will learn a great deal about the organ and its history. We also use this event to pass out awards to various club members for their efforts over the past year on behalf of the club.

The cost is \$9.50 each, credit/debit cards now accepted, and that covers all you can eat (drinks not included).

Please check your email for a link to a Survey Monkey poll to let us know how many family and friends will be in your group. We need to provide the restaurant with a headcount in advance of our private party.

Organ Stop Pizza is located at: 1149 E Southern Ave, Mesa, AZ 85204 (SW Corner of Southern Ave and Stapley Drive.)

– June Communicator

### **HamClubOnline Member Account**

When you join the Superstition ARC, your membership gets you access to a Members-Only portal on HamClubOnline.com. You can visit the website, log in, and visit the SuperARC Members-only portal to see, among other things, the club's Roster, meeting Minutes, and your Club Profile. **Once you visit your account**, club admins can no longer help you change your email address or phone number by accessing your account.

### ***Superstition Continued from Previous Column***

All members, please log into HamClubOnline.com, then go to the club link (SuperARC) to check your Club Profile. Here you can maintain your email address that you want the club to use. You have the option of setting just your account email address, which will serve as your club email, or you can specify a club email address, too. You may share your phone number here with the club also. The members-only portal is out of public view. It cannot be indexed by Google.

In order to receive the club newsletters or ADAW newsletter, your email address must be current and active.

### **The President's Corner**

*By Steve KB7KWK*

Hello fellow club members. I hope all is going well. Good old Arizona is warming up and that means it is time to get ready for Field Day. This is one of the club's biggest events. We all head up to our private property we have access to up in Northern Arizona, Lost Eden. Field Day is Saturday, June 25th. Of course this all depends on the fire situation. If for some reason we can not make it to Lost Eden because of fire in the area, we have a back up location up near Alpine. It is a lot farther to drive but it is our only alternate location that is almost always open during the fire season.

Our next big event is our annual Organ Stop Pizza event. We always seem to have a lot of people attend this event. It will be held on Saturday, July 23rd from 12:00 p.m. until 2:00 p.m. This is a private event for our club so we have the place to ourselves. You can see the details above my column.

It has been great seeing all the folks coming out to the club meetings again. The Board of Directors has voted to go ahead and continue using Zoom during the meetings. There are a lot of club members who still wish to stay at home and not be in a crowd. Also we have a few members who are out of state and this gives them the opportunity to join meetings from wherever they are.

Brian and Ed continue to bring great presentations to the club meetings. If you have any ideas for a presentation please let Brian, Ed, or me know what you have in mind and it will be considered for future club meetings. I am also trying my best to move the business portion of the meeting along as quickly as possible so that we have more time for the presentations and fellowship.

I would like to end this month's President's Corner by reminding club members that our repeater system is open to all hams. Occasionally we have people that will come on and disrupt our communications in the form of obscene language, playing recordings, or just plain being stupid. As hard as it is, it is best to just ignore them and most of the time they will go away. We have a great tech team with the technology to track these folks. In a lot of cases, we can just listen back on the recording and figure out who the person was. YES we record every transmission made on our repeaters. The audio is archived for a month.

*Continued Next Column*

*Continued on Page 18*



## Superstition Continued from Page 17

That all being said, let's remember our repeater etiquette. No use of foul language, racial slurs, or talking someone down will be tolerated on the systems. Please be courteous to all new members and all other hams who use the club's repeaters.

73 for now and I will listen for you on the air.

### End-Fed Halfwave Antenna Build

On Saturday, May 21st, about two dozen people assembled under the pavilions at the LDS Church, 2222 E Brown Rd. to assemble the ARRL end-fed half-wave antenna kits. The full article appears in the June Communicator newsletter, but overall, these kits went together and performed well.

Some pictures from the event will follow this column.

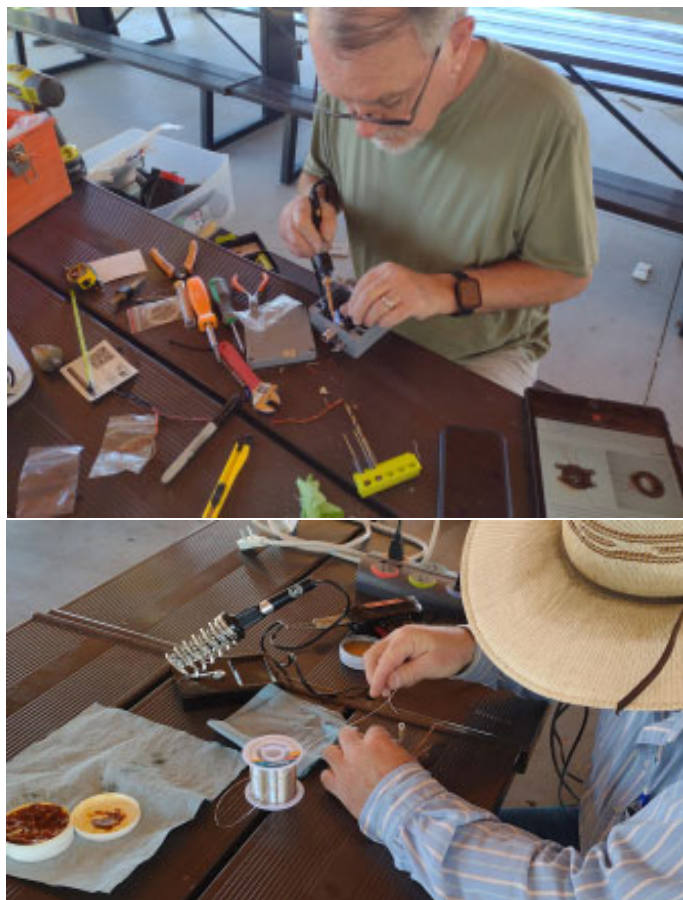
### Deadlines to Include Your Input in Our Publications:

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

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

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

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



Continued Next Column

## Superstition Continued from Previous Column



### Superstition ARC Repeaters

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

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

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

### Club Nets

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

**Saturday Supershow:** Sat, 8:00-9:00 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

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

### Superstition SuperFest

The Superstition SuperFest is held on the first Saturday of December. Visit [www.superstitionsuperfest.org](http://www.superstitionsuperfest.org) for the latest information.

# No Reports Received



CHAPTER 16  
BARRY M. GOLDWATER ARIZONA CHAPTER



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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**SHORT SKIP**



MARCA INC.



**SARCCONSTANTS:**  
SARC is a 501 (c)(3) club. That means all donations are fully tax deductible. Contact Paul Finell W7EFQ at 602.741.6563 for information on estate donations and equipment pick-up.  
For membership information, call Ed Nickerson, WU7S at 480.949.5162. Please send address change requests to Judy no later than the 7th of the month in which you would like the change to occur.





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### IC-718 | HF Transceiver

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### ID-4100A | VHF/UHF Dual Band Digital Xcvr

• Compact, Detachable Controller for Flexible Installation • DWFN Near Repeater Search Function • Apps for iOS™ and Android™ devices • Wireless Operation with VS-3 & UT-137 Bluetooth® Headset & Module • MicroSD Card Slot



### IC-7851 | HF/50MHz Transceiver

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



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### IC-2300H | VHF FM Transceiver

• 65W RF Output Power • 4.5W Audio Output • MIL-STD 810 G Specifications • 207 alphanumeric Memory Channels • Built-in CTCSS/DTCS Encode/Decode • DMS



### IC-7300 | HF/50MHz Transceiver

• RF Direct Sampling System • New "IP+" Function • Class Leading RMDR and Phase Noise Characteristics • 15 Discrete Band-Pass Filters • Built-in Automatic Antenna Tuner



### IC-7100 | All Mode Transceiver

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

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### IC-7610 | HF/50 MHz All Mode Transceiver

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### IC-2730A | VHF/UHF Dual Band Transceiver

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



### IC-R30 | Digital/Analog Wideband Xcvr

• 100 kHz to 3.3 GHz Super Wideband Coverage • P25 (Phase 1), NXDN™, ePMRTM, D-STAR Mode • 2.3" Large LCD Display & Intuitive User Interface • MicroSD Card Slot for Voice & Data Storage • USB Charging & PC Connection



### IC-R8600 | Wideband SDR Receiver

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



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ICOM

*As we celebrate our nation's independence, let us remember our past leaders who lost their lives battling for the freedom we are enjoying today.*

*Happy 4th of July from everyone here at your local Ham Radio Outlet.*

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*Manager Ron AJ7T, Mike K7DD, Bob W8RH, Richard K1RAB, Ira AI7HC, Paul N0RWW, and Jim KE7EEU.*