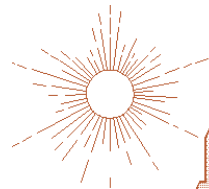


**ADAW**

10498 Monserrate St  
Elk Grove, CA 95757-1765



**ADAW**

**Arizona Desert Aire Waves**

**Vol 47 No 9 September 2022**

**CLUB MEETING SCHEDULE**

**SARC**

Sept 7th - 7:00 PM  
via Zoom

**AARC**

Sept 8th - 7:00 PM  
American Red Cross/Echolink

**YARC**

Sept 1st - 7:00 PM  
Prescott Rodeo Grounds

**TBARC**

Sept 15th - 6:30 PM  
Arizona Christian University

**CADXA**

Sept 1st - 7:00 PM  
Bethany Lutheran Church

**ARA**

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

**MARCA**

Sept 20th - 6:30 PM  
Denny's - Tempe & Zoom

**MARA**

Sept 3rd - 9:00 AM  
Maricopa Public Library

**AzRCCC**

Sept 13th - 7:00 PM  
American Red Cross/MS Teams

**AMO**

Sept 8th - 7:00 PM  
Charles K Luster Bldg

**SuperstitionARC**

Sept 20th - 7:00 PM  
Charles K Luster Bldg-Mesa

**CHRC**

Sept 10th - 9:00 AM  
Tri-City Baptist Church

**ANSR**

Sept 15th - 7:30 PM  
via GoToMeeting

**KARC**

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

**OVARC**

Sept 16th - 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**

Sept 5th - 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, 1343 W Broadway in Tempe (Southeast corner of Priest Dr and Broadway Rd - <https://www.w7ara.org/mtg/Meetings.aspx>). Visitors are welcome. Come early for food and social time before the meeting starts. For further information about the ARA, including repeaters, site status, and the tech/board meeting, please visit our web site at [www.w7ara.org](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) 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	Norm Johnson	AA7OO	480.278.2886
Secretary	Paul Bennett	KD7KDO	
Board Member	David Yee	N7AJR	
Trustee:	Norm Johnson	AA7OO	480.278.2886
Webmaster:	Norm Johnson	AA7OO	480.278.2886

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

## CENTRAL ARIZONA DX ASSOCIATION

We are finally back to in-person meetings! And we have a new location! The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. at Bethany Lutheran Church, 4300 North 82nd Street in Scottsdale. and we'll try to also share the meeting on Zoom. Most months we have a pretty interesting program or presentation. Visitors always welcome. See [www.cadxa.org/meetings.html](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	Jane Lerette	K7ZHF	treasurer@w7yrc.org
Past President	Bill Noe	WG7W	
Board Members	Ron Levine		
	Jane Lerette	K7ZHF	
	Ray Kolman	KI7COM	spudsmn@gmail.com
	Mike Schnell	NC7X	ka9cid@gmail.com
	Bill Noe	WG7U	

Yavapai Amateur Radio Club, P O Box 11994, Prescott, AZ 86304-1994. DUES: \$20.00/yr. Visit the website at [www.w7yrc.org](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	Debbi 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:	Chris Van Camp	KJ7NOP
	Joe Jacobson	KJ7PUL
	Frosty Oden	NQ1S
	Larry Johnson	WO7C

Committees:		
Membership	Krissy Larson	KI7GJJ
Technical Advisory	Frosty Oden	NQ1S
Equip. Donations & 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)  
 Secretary: Robert Fridell, N3BZ [secretary@arizonamesh.org](mailto:secretary@arizonamesh.org)  
 Board of Directors  
 Dale Schmidt, N7QJK [n7qjk@arizonamesh.org](mailto:n7qjk@arizonamesh.org)  
 Heidi Brewer, K7ZAE [k7zae@arizonamesh.org](mailto:k7zae@arizonamesh.org)  
 Gary Hinton, AC7R [ac7r@arizonamesh.org](mailto:ac7r@arizonamesh.org)  
 Bob Howard, W8RH [w8rh@arizonamesh.org](mailto:w8rh@arizonamesh.org)  
 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)  
 V. P. North Area: Ray Benny, N6VR [n6vr@arrl.net](mailto:n6vr@arrl.net)  
 V.P Central Area: Chuck Zanella, KF7U [Chuck\\_KF7U@outlook.com](mailto:Chuck_KF7U@outlook.com)  
 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).*



## ADAW Staff

### PUBLISHER / MANAGING EDITOR

Christine Kesauer	N7PVL	602.843.0960
<b>AARCEDITOR</b>		
Lori Cripps	WA7EDI	602.955.7517
<b>AMOEDITOR</b>		
Robert Fridel	N3BZ	610.577.6907
<b>ANSREEDITOR</b>		
Steve Miller	W6SDM	602.290.1603
<b>AOCCEEDITOR</b>		
Mike Fulcher	KC7V	480.522.4332
<b>ARAEDITOR</b>		
T D Kennard	N7ISR	<a href="mailto:adaweditor@w7ara.net">adaweditor@w7ara.net</a>
Joe Bakas	KE7WHE	<a href="mailto:adaweditor@w7ara.net">adaweditor@w7ara.net</a>
<b>AzRCCCEEDITOR</b>		
Charlie Zurenko	N2TFS	<a href="mailto:chazur@icloud.com">chazur@icloud.com</a>
<b>ATNEEDITOR</b>		
Rod Fritz	WB9KMO	<a href="mailto:wb9kmo@gmail.com">wb9kmo@gmail.com</a>
<b>CADXAEDITOR</b>		
Bill Poole	AA4Q	<a href="mailto:billpoole@yahoo.com">billpoole@yahoo.com</a>
<b>CARLEEDITOR</b>		
Steve Warford	WB4ZSC	480.570.1041
<b>CHRCEDITOR</b>		
Walter Lawrence	KK7AEV	<a href="mailto:walter.dkk@gmail.com">walter.dkk@gmail.com</a>
<b>KARCEEDITOR</b>		
Bobbie Mills	KA7MIZ	<a href="mailto:ka7miz@dmbam.com">ka7miz@dmbam.com</a>
<b>MARAEDITOR</b>		
Bob Howard	W8RH	<a href="mailto:w8rh@live.com">w8rh@live.com</a>
<b>MARCAEDITOR</b>		
Norm Johnson	AA7OO	480.278.2886
<b>MMRGEDITOR</b>		
Lori Cripps	WA7EDI	602.955.7517
<b>OVARCEEDITOR</b>		
Steve Wood	W1SR	<a href="mailto:nauset2222@yahoo.com">nauset2222@yahoo.com</a>
George Cooley	NG7A	<a href="mailto:george@ng7a.com">george@ng7a.com</a>
<b>QCWAEDITOR</b>		
Carl Foster	KB7AZ	<a href="mailto:carlfoster@cactuscomm.net">carlfoster@cactuscomm.net</a>
<b>SARCEEDITOR</b>		
Gene Geller	K0VN	612.670.9358
<b>SunlifeEDITOR</b>		
Judy Ferrara	K7JLF	<a href="mailto:k7jlf@yahoo.com">k7jlf@yahoo.com</a>
<b>SuperstitionARCEEDITOR</b>		
Larry Kuck	WB7C	<a href="mailto:editor@us60.us">editor@us60.us</a>
<b>TBARCEEDITOR</b>		
Andrew Cornwall	KF7CCC	<a href="mailto:kf7ccc@arrl.net">kf7ccc@arrl.net</a>
<b>WVARCEEDITOR</b>		
Bob Conlin	KJ7JNR	<a href="mailto:tallbob14@gmail.com">tallbob14@gmail.com</a>
<b>YARCEEDITOR</b>		
Don Bauer	WB7TPH	<a href="mailto:dbauer2250@aol.com">dbauer2250@aol.com</a>
<b>ADAWEMAIL</b>		<a href="mailto:adaw@adaw.org">adaw@adaw.org</a>
<b>ADAWWEBSITE</b>		<a href="http://www.adaw.org">www.adaw.org</a>

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

It's the start of Hamfest Season in Arizona. Now through June of 2023, there's a hamfest in Arizona every month. September, October, and November's calendar has two events each month. It's time to decide which event you want to attend and to circle those dates your calendar. Help support the sponsoring clubs and enjoy some time with fellow hams. You might even score some treasures while you're at it.

The Show Low Tailgate Swapmeet is taking place on September 17<sup>th</sup> at the Show Low Masonic Lodge in Show Low. The hours are 7:00 AM until 12:00 PM, with vendor/tailgate set up starting at 6:00 AM. It's free to attend and 10X10 spaces are only \$5.00. There'll be VE testing and food and drink will be provided by the Ladies of Masonic Eastern Star. Visit the cool country and enjoy a great event!

The second September hamfest is the annual Tucson Autumn Hamfest on September 24<sup>th</sup>. The event will be held Calvary Tucson Church in Tucson. Hours are 7:00 AM until 11:00 AM with seller set up starting at 6:00 AM. Admission is free and shaded Seller spaces are \$10.00 per parking space. Morning snacks will be provided by Scout Troop 157 and Pack 705. The Radio Society of Tucson does an excellent job presenting this event. Check it out, especially if you're in the southern part of the state. You won't be sorry you did.

The Amateur Radio Council will be holding its next meeting at the Tucson Autumn Hamfest on September 24<sup>th</sup>. The 2022-2023 Board of Directors will take office at the meeting. Everyone is invited to attend. Visit the ARCA web site at [www.arca-az.org](http://www.arca-az.org) for full details on the meeting.

For these two great events and all the upcoming ones scheduled throughout Arizona, see the Hamfest Calendar on page 11 of this month's ADAW.

Have a wonderful Labor Day holiday! See ya next month!

73,  
Christine, N7PVL

ADAW



## For Sale / Wanted



**LOOK!**  
**Great Deals!**

## For Sale

**For Sale** - US Tower MA40 - 40 foot - 2 Sections includes: MARB Rotor Base, CX-2M 2 Coax Arms 4 cement anchor bolts, 6-foot top mast All hardware, winches, and cables \$1,000.00

(Current US Tower listing - \$6,560 including freight) Located in 43rd Ave and W Bell Rd area of Phoenix Contact Lee Weitzel K0CCU at 602.330.4840

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

Contact Richard Bruns, K7VQ at [d\\_brunz27@yahoo.com](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).

ADAW



### **AMATEUR RADIO SERVICE DEMONSTRATION STATION**

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

ASC is open daily, 10:30 a.m. – 4:00 p.m., 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.

The Center for Amateur Radio Learning received a sizable grant from Amateur Radio Digital Communications (ARDC) that is allowing us to continue our upgrades to the W7ASC ham shack. This will improve our amateur radio demonstration station’s outreach & impression to the Arizona Science Center’s visitors.

Our HF technical capability will be greatly enhanced through the purchase of the new Flex 6400 SDR system. Its high resolution pan-adaptor graphics will allow the visitors to actually see RF activity in action. We are planning to receive & install this state of the art radio in early September.

The club’s plan to install a new satellite antenna system meshes well with CARL’s effort to expand our VHF/UHF radio capability footprint. Our renewed satellite efforts also complement the space oriented displays that are located near the W7ASC shack.

CARL’s new satellite tracking system is controlled by the CSN Technology S.A.T. controller. CSN Technology graciously provided this controller system to CARL. An excellent review of this product is found in the February 2022 QST. We find the S.A.T. controller system is surprisingly automatic to operate & it has provided a huge improvement in our ability to work the sats with our new IC-9700 that was purchased with a grant from ARCA. We will replace our satellite antenna located on top of the 4th floor of the Arizona Science Center once the brutal Arizona summer is over for 2022.

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

On another front, CARL is making an effort to improve our outreach with the visitors by using a new GeoChron Atlas 4k system presented on a SONY Bravura 65 inch 4k monitor. This has already proven to be quite an attention grabber. Using the various graphic “layers” of the GeoChron, CARL volunteers are able to provide real time information for the tangential conversations that can evolve with our inquiring visitors.



For example, Paul KI7LW describes using the GeoChron on his Monday, 1 Aug volunteer shift at W7ASC - “Having the GeoChron and the IC-9700 working with the S.A.T. made for an awesome day for me today. The GeoChron attracted a lot of attention and the live feed let me show folks what was going on in the world in real time. It allowed me to have several conversations with folks and kids that I never could have done before.”

Using the S.A.T., I “was able to start tracking some satellite passes. Then, just after 1300, the ISS was overhead and a couple with their kids listened in on the ISS repeater traffic which really impressed them (and me) and generated lots of questions. The GeoChron let me show them where the ISS was as it approached AZ, then CO, NE, and finally to MN where we had LOS.”

As you can tell, this is a very exciting time for CARL & W7ASC! If you are interested in joining our organization, please visit us at the Arizona Science Center or leave a message at the number provided above.

73 de N7INV Sam  
[w7asc.sked@gmail.com](mailto:w7asc.sked@gmail.com)  
602.291.0992

**ADAW**

*Continued Next Column*





## Public Service Calendar

### Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
AEN-MAR Barnburner Simulation	AEN-MAR Net - Metrolink Repeaters	07/26/2022
Barnburner Mountain Bike Race	Kendrick Peak, NW of Flagstaff	09/17/2022
Cave Creek Cactus Classic	Cave Creek	11/12/2022
Phoenix Half Marathon	Downtown Phoenix	11/13/2022
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.

#### *TBARC Continued from Previous Column*

the third Thursday of the month. The meeting will be hybrid: in person at Arizona Christian University or online with Zoom. Details are still TBA at press time, so keep your eye on your inbox - or visit the club website, [w7tbc.org](http://w7tbc.org). That's also where you'll find the conference URL and Zoom dial in numbers. Or just join us and find out then - in person at 59th Avenue and Greenway Road 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)

#### AZ QSO Party in Phoenix

We sent out a poll and the members have spoken. This year, we'll participate in the Arizona QSO Party from Phoenix (probably Arizona Christian University) rather than Flagstaff. First question: What is the Arizona QSO Party? It's an operating event - sort of like Field Day but on a smaller scale. Arizona stations work everyone they can, and non-Arizona stations try to work Arizona stations only. It starts on October 8 from 8:00 a.m. and runs until 10:00 p.m. local time. This might be a good chance to learn about HF operation in a pileup, especially if you're a technician and haven't yet experienced one!

#### VE Team now using new Tech exams

It's after July 1, which was the date when we switched from the old technician exam to the new one. Our VE team has transitioned smoothly. If you know someone who wants to get their first ham license, be sure to let them know to update their materials as well. And if you're interested in becoming a VE, the team would love to have you. They usually meet at Northwest Christian School (16401 N 43rd Ave) on the third Wednesday of the month. Occasionally it will move forward or backward a week due to the school calendar. If you've got an interest in helping others, get in touch with the VE Coordinator using the "Contact Us" tab on the website.

#### Seeking an education coordinator

Another retraction for me, I'm afraid - last month I announced we had an education coordinator. I was on Zoom, and missed the winking in the room at the June meeting. We're still looking! Unless you're the one? If you've got an interest in helping out, are able to work a calendar, and know how to send email, you have the skills you need. Let Charlie know and he'll get you set up!

#### Club callsign renewed

Gary WK7B is our station trustee, and he knew that the club callsign W7TBC was going to expire within 90 days. He sent the renewal off near the beginning of August, and I can see that we are good for another ten years. Thanks, Gary!

#### September meeting

We'd love to see you at our next meeting! As usual, it's on

*Continued Next Column*

ADAW



September 11th



The 2nd half of 2022 is already here and we are planning for a busy fall season.

Our regular Fall Hamfest is scheduled for November 12 and it will be bigger than last year. We have received a number of large equipment donations throughout the year so our sales table will be enormous.

OVARC is preparing for a fall outing on a date yet to be determined. We are anxious to operate at a nice outdoor location, but we also don't want to cook ourselves in the process. Our club operating equipment is ready to roll. Thanks to Andreas, W1IXQ for taking the lead on this activity.

Also, coming up will be a Fox Hunt on a date to be determined. Unlike the Spring Fox Hunt, we plan to allow plenty of notice on this one so that we can maximize the participation. We usually have some good prizes for our winners, too. Thanks to Walt, AL7KE for leading this.

A Christmas Holiday Party almost seems to be a thing of the past, but we are planning to have one this year. Tentatively, we are hoping for Sunday, December 11 at about 3:00 PM. We have applied for the space at our meeting location, The Mountain View Baptist Church, and are awaiting approval. Next, we'll tackle the details, like the food. Much more to come on this.

Please continue to check the club website for all of the details on these upcoming events. [www.tucsonhamradio.org](http://www.tucsonhamradio.org).

The Keystone repeater is now back up and running better than it was previously. With summer rain and lightening, it is typically this time of year when we run into performance problems. Winter seems more survivable, but we've had our issues with icing, too.

We are always hunting for more repeater sites as we continue to look at ways that we can expand our repeaters to operate on different modes.

Please join us on our Sunday evening net. It happens every Sunday at 7:30 PM local time on the Keystone Repeater. It is short and sweet and a good way to check out your station and equipment. Typically, the net is over in about 15 - 20 minutes.

73, Steve – W1SR

The ARRL Foundation Announced 2022 Scholarship Awards where 139 scholarships ranging from \$500 to \$25,000 were awarded. In total, \$921,250 was given to deserving radio amateurs pursuing higher education. The Central Arizona DX Association Scholarship of \$1,000 was awarded to Daniel Lavy, KJ7EVL of Scottsdale, Arizona. Please join us in congratulating him.

In March 2022, CADXA returned to in person general meetings on the first Thursday of each month at 7:00 p.m. If you're interested in attending, the location is Bethany Lutheran Church, 4300 N. 82nd St., Scottsdale, AZ 85251, located approximately 2-blocks west of Granite Reef Road, half way between Indian School and Camelback Roads. If you're unable to attend in person, there is a Zoom meeting option as well as recordings are uploaded to YouTube.

On June 2, Bill Straw KO7SS presented on the upcoming 3Y0J Bouvet Island 2023 DXpedition. He talked about the team that has been assembled, some of the plans of their trip, as well as the preparation they are doing. The ship, tents, radios, and antennas have all been reviewed for the upcoming trip in January, 2023. We are all very excited to follow their progress to activate Bouvet Island, #2 on the DXCC most wanted list. If you missed the meeting, the recording is available for viewing at <https://youtu.be/sHAYFsL3aaM>

On July 7, Tim Duffy K3LR presented Antenna Building at the general meeting. Tim is known for being the CEO of DX Engineering as well as the owner of the K3LR Multi-Multi Contest Station. He covered basic antenna types and fundamentals first, followed by descriptions and pictures of several antennas that were built and in use at the K3LR station. If you missed the meeting, the recording is available for viewing at <https://youtu.be/Z491pYpV9uo>

On August 4, Glen Popiel KW5GP presented on Arduino Basics for Amateur Radio. Glen is the author of the High Speed Multimedia for Amateur Radio, Arduino for Ham Radio, and More Arduino for Ham Radio books sold by the ARRL. He gave an overview of some of the projects that can be created with Arduino boards in Amateur radio to help control and automate ham shack functions to small transceivers. The Arduino platform fits perfectly in the ham toolbox to experiment and home brew electronics. If you missed the meeting, the recording is available for viewing at <https://youtu.be/Jahf3OI-4Yk>

Don't miss our next meeting on September 1st. The presenter will be Arnie Shatz N6HC on DXpedition Operations and serving as a DXpedition medic.

## 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 Blvd 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/>

8 October 2022- **Arizona QSO Party 2022** - See flyer for details.

29 October 2022 - **2022 ARRL Arizona State Convention/ 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. Set up 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 web site 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.





# 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.

## September Test Sessions



**Sep 3rd** - 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)  
Walk-Ins Allowed / Registration or Call Ahead  
Register at: [chandlerhams.org/testing/](http://chandlerhams.org/testing/)

**Sep 3rd, 10th** - NOMADS -- 9:00 AM  
Venture Out RV Resort, 5001 E Main St, Mesa  
Contact: Robert Bingham 480.404.1408  
No Walk-Ins / Register or Call Ahead

**Sep 5th** - WVARC -- 6:00 PM  
Shepherd of the Desert Lutheran Church-Walton Hall  
11025 N 111th Ave, Sun City  
Contact - David Morrill 623.680.5011  
No Walk-Ins / Register or Call Ahead

**Sep 6th** - 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

**Sep 10th** - 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

**Sep 12th** - 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)

**Sep 16th** - Oro Valley ARC -- 5:30 PM  
Mountain View Baptist Church, 3500 W Overton Rd, Tucson  
Contact - David Beauchesne 831.345.3308

**Sep 17th** - Hualapai ARC -- 10:00 AM  
VE's Residence, 3571 E Lum Ave, Kingman  
Contact - Alyce Ingle 425.231.9173

**Sep 17th** - West Valley Electronic Club -- 9:00 AM  
The Shack, 11115 W Nevada Ave (111th & Nevada), Youngtown  
Bring FRN, pencil & pen, and \$15.00  
Contact - David Morrill 623.680.5011  
No Walk-Ins / Register or Call Ahead / Limited Seating

**Sep 19th** - 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

**Sep 20th** - Hassayampa AR Klub -- 2:00 PM  
Escapes North Ranch, 30645 S Wandering Way, Congress  
Contact - Charles Carter 316.651.7710  
Call for test and location Info

**Sep 20th** - MARCA ARC -- 5:00 PM  
Denny's Back Room, 4403 S Rural Rd, Tempe  
Contact - Ray Vasquez 480.696.1581  
MUST obtain FRN prior to exam - Checks not accepted

**Sep 21st** - 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

**Sep 24th** - 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

**Sep 30th** - Vernon Teaching Testing Center -- 6:00 PM  
Vernon Community Park, 1567 ACR 3148, Vernon  
Contact - Anthony Romyak 928.892.3098



The Arizona Outlaws Contest Club has several committees, but the listing on the web page is out of date. Here is how it will look as we make changes.

**Committee Heads:**

AOCC Ladder Competition: Dave Gilbert, AB7E

Digital Contests (RTTY, FT8, etc.): Bob Epstein, K8IA

Major DX Contests: Bob Epstein, K8IA

Domestic Contests, all except QSO Parties (e.g., SS, NAQP, NA Sprints): Dave Hachadorian, K6LL

IOTA Contests: Ray Benny, N6VR

Needs of the Contest Newcomer: Empty

Propagation: Jim Henderson, KF7E, Gary Hembree, N7IR

QSO Parties: Chuck Zanella, KF7U, Captain; Andy Smith, KK7AC, Lieutenant

VHF/UHF Contests: Gary Hembree, N7IR

Log Submissions QA Reviews: Dick Zalewski, W7ZR, Chuck Zanella, KF7U

Website Team: Mike Fulcher KC7V, Bob Epstein K8IA, Sandy Farley N7RQ, Owen Watson AK7W

We welcome Andy KK7AC who volunteered to help with the QSO Parties. Thank you, Andy! There is one empty spot for the Needs of the Contest Newcomer. Anyone want to volunteer?

We are getting close to the beginning of the fall contest season (it will be fall in some places just not our desert so quickly). The first big contest is the fairly new World Wide Digi Contest August 28-29. The big international contests are the CQ World Wide RTTY, CW World Wide SSB and CQ World Wide CW at the end of September, October, and November respectively. Don't forget there are many others on weekends between these three. Check out [contestcalendar.com](http://contestcalendar.com) for a full schedule.

Contest Tip this month – as you prep for a contest test everything BEFORE the contest begins. Many of us have learned the hard way by waiting to the last minute to set everything up only to find something is not working correctly. The first few hours of the contest are typically the best ones as everyone is excited and ready to operate. You will hate missing that time if you are troubleshooting.

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



The Kachina club has been busy this summer. Not only have we participated in Field Day weekend, we have been again focused on our primary mission objectives - education and training. Our team has been busy teaching training classes to assist individuals obtaining their Amateur Radio licenses. Our VE team has held several test sessions resulting in new and upgraded tickets and some emails thanking our team for their efforts and dedication. Our donations of ARRL handbooks and license study guide manuals resulted in a nice thank you letter of appreciation for the donation of the materials. We are partnering with the Rim club to provide a class and test session in Heber Overgaard Aug 20<sup>th</sup>.

The technical team has successfully linked the Torreon 449.150 repeater with our popular greens peak repeater 145.310 and more work is scheduled to finish up the Chevelon Butte repeater to tie it into the system. The Navajo link system expansion will give us opportunities to cover various public service events in the White Mountains and, as always, increase our capabilities and preparedness for either planned or unplanned events where area hams can provide necessary emergency communications. More information on the Navajo link system and area repeaters can be found on our website at <http://kachinaarc.org/>



---

---

***AOCC Continued from Previous Column***

of only a few QSOs. We encourage all stations, big or small, to get on in ham contests and make contacts. There are excellent resources among club members and on our club website for contesting help.

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

***Continued Next Column***



*CHRC Continued from Previous Column*

## WEEKLY EVENTS

**WEDNESDAY Evenings @ 8:00 p.m.:** The SHOW NET on South Mountain Repeater, 443.050 + p1100. 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 + p1100. 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

Walter Lawrence  
KK7AEV



*Anthony KK7OJE & KK7OJF score matching N7CHN mugs*



*Don, Val, & Larry*

The Chandler HAM Radio Club N7CHN celebrated their third anniversary July 23rd. The Old Spaghetti Factory in the Chandler Fashion Center was the selected venue for the occasion. We had about 27 members and guests in attendance.

Besides good food and good people, a raffle was conducted for some good ham radio loot. Prizes included N7CHN pens, N7CHN notebooks, N7CHN coffee mugs, N7CHN tote bags, and a Yaesu FT-70D.

N7CHN Club President Dave KJ4RS brought a projector for a wonderful pictorial montage of prior events with musical accompaniment. Despite COVID-19, over the past three years, N7CHN has grown to be one of the larger clubs in Arizona. This is a testament to the dedication and enthusiasm exhibited by our members, our officers, our examiners, and our love of this great hobby.

Special thanks to Dave KJ4RS, Gary KI7PBR, Debbi KJ7MIQ, and Byon N6BG for making this happen. If I missed anyone, I would be happy to credit them, also.

Also, great news from our VE team! This from Byon N6BG. We had a successful VE session last Saturday. Thank you to our VE Team: Dean N7DBG, Lee N7LP, John KE7OHK, Lin KB7CWV & Joellene KK7FYG. Also, thank you to Tri-Cities Baptist Church for providing our venue.

Congratulations to:

Alexander, AI7OC - New Amateur Extra! Passed all three tests on Saturday!

Michael, KI5TPH - Upgrade to Amateur Extra

Marc, KK7GYG - Upgrade to General

Jimmy, KI7ECT - Upgrade to General

Louis, KG7NHP - Upgrade to General

Matthew, KK7HRX - New Technician

Jose, KK7HSA - New Technician

Finally, thank you to CHRC for supporting our VE team, and helping to grow our hobby!

Also, thanks to Anthony and Byon for photos and quotes. I don't want to be accused of not giving credit where credit is due.

73 de K7DIP  
Bert

**ADAW**

*Continued Next Column*

*Continued on Page 15*





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



*PBR XYL, Angela, Gary, Debi, Sarah, Val, and Ryan*



*N7CHN*



*Val, Dave & Gary*

It's been a busy summer for our Red Cross amateur radio operators. We deployed six of our volunteers to support Red Cross relief efforts in New Mexico and Arizona over the last couple of months. Recently, one of our volunteers from Tucson traveled to Kentucky to assist in the wake of devastating floods across several counties in the Bluegrass State.

We've also kept busy here at home working on several projects to improve our readiness and ability to respond when called to assist. We've been surveying potential shelter sites across the state to evaluate the availability of internet and cellular service should the facility be needed in an emergency. In the event of a loss of phone and/or internet, we developed a plan for establishing a radio link to either our Phoenix regional office or the Red Cross chapter in Tucson, for events occurring in their territory.

We are also collaborating with our Red Cross disaster leadership in New Mexico to recruit additional amateur radio operators across New Mexico to build our cadre of Disaster Services Technology volunteers in that state. To help with that endeavor, some of our members will attend the hamfest in Alamogordo, NM in September to share some opportunities available for hams to volunteer with the Red Cross.

As this is being written, the volunteers in Tucson are working to relocate their operations from the old chapter building on Broadway to a larger facility near the airport. They will be co-locating with our Biomedical group to streamline operations across all Red Cross lines of service. The move should be completed by 9/6. They are looking forward to building out their new radio room and getting on the air as quickly as possible.

Looking ahead to October, the Red Cross is planning a sheltering and logistics training exercise to be held simultaneously at three shelter sites across the region: in Albuquerque, Tucson, and Phoenix. Our team has been tasked with providing communications, IT, and technical resources to ensure the success of the two-day event. This will be a great opportunity for our members to hone their skills using HF and digital modes to maintain communication links among the three sites.

We are also eagerly awaiting the return of hamfest season here in Arizona. We typically try to support clubs across the state and attend as many events as we can, when circumstances permit. We offer information on preparing for emergencies, home fire safety and first aid training opportunities. Of course, we are always happy to answer questions about the Red Cross and the many ways our members support its lifesaving mission. Visit with us at any hamfest or reach out to us through our website at [k7arc.org](http://k7arc.org).

We hope you have had an enjoyable summer and wish you all a safe and relaxing Labor Day holiday. We'll see you in the fall!

###



## President's Corner

by Steve KB7KWK

I hope everyone is trying to stay cool. It has been a hot one this year. I would like to thank all of you who came out to the Organ Stop Pizza social event. We had 115 people attend this year breaking another record for attendance. It sure was great to meet some of you for the first time and it was even greater seeing new club members and new hams there.

We had a great time listening to some awesome organ music. I believe the organist played all of our requests this year. The Organ Stop family was glad to have us back again this year and we look forward to next year.

Towards the end of the event, as tradition would have it, I handed out some certificates to club members who have helped out the club in various ways over the year thus far. The following persons got those awards: Matt K7YEG for stepping up as SuperFest Chairman; Joshua KE7WIL for his help as morning net control and wireless announcer; Bob N8ANV for jumping into the tech team and helping out where he can; and Hercel KJ7WHS for the same thing.

This year I added a new award for Ham Club Member of the Year. This was a hard decision to make as there are so many of you who help out. This very first award to ever be handed out by the club went to Ed K7EDT.

Ed jumped into the Vice President position as a temp for our current VP who started a new job and could not dedicate a lot of time to the club. Ed has done an awesome job in this position. He has brought some amazing presentations to the club meetings as well as helping me make much needed club decisions. After retiring from his regular job and then starting another full time job, Ed still finds time for the club. Thank you very much Ed.

Ed will need to step away though as this was only a temporary position for him. If for some reason our current Vice President cannot continue, I will have to move the club Secretary into that position. I spoke with Scott Via email and he will accept the position should it come down to that. If this happens, I will need to appoint a new Secretary. So be prepared, for it could be you. LOL.

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

## Tuesday, September 20 Club Meeting at 7:00 PM

Location: Mesa's Charles K Luster Building and Zoom

We welcome visitors in person or via Zoom: Please email the President@SuperstitionARC.org at least a full day in advance for the Zoom link. Our Member Clubs entry on Page 3 has general information about the club meeting schedule.

## Support the club with Amazon Smile

If you shop on Amazon, before you check out, please make sure the URL begins with "smile." instead of "www." and that your chosen charity is the Superstition Amateur Radio Club.

Amazon contributes, at no cost to you, a half-percent of your purchase price to the club. With potentially 200 members buying from Amazon, that adds up. We have had our Stone Castle repeater

## Superstition Continued from Previous Column

site annual expense covered by Amazon, especially during the pandemic shutdown.

## SuperARC ARRL Field Day '22

by Jeff K2DFE

Lost Eden is a place that by its name alone invites one to want to visit in hopes of finding a special place. It is such a place, and The Superstition ARC is indeed fortunate to have it as our home for our Field Day adventure every June.

This year with the return to Lost Eden, we were home again on the Mogollon Rim at 7500 feet. With all the planning including contingency plans for alternate sites, the trip was not without mother nature having other plans. During our midweek meeting the advance crew was challenged by a thunderstorm on Thursday that lasted about fourteen hours.

With much work, the advance crew prepared the site with two club operating positions, one with VHF talk-in capabilities and both with HF radio stations, solar power and fan dipoles deployed. The club continued to utilize N1MM logging over our WIFI network to provide up-to-date scoring of the event. By 11:00 AM Friday, the event grounds were open and ready!

About 30 hams signed in at the booth with their participation plans which allowed us, as in the past, to coordinate the operation on the two club stations and the dedicated CW station. Additionally, there were guest-provided stations that were brought up to the event. This allowed us to rotate the operation of all the stations while keeping our usual Field Day classification as "Four Alpha, Alpha Zulu"; four simultaneous transmitters running with off-grid power in Arizona.

Charlie, NJ7V put together another great video of our field day event and has posted it on his YouTube channel Red Summit RF at the URL below: <https://www.youtube.com/watch?v=8ivJa4sImrU>

The video highlights participants operating and their thoughts on why they attended Field Day with the Superstition ARC. (Excerpts taken from the full article in the August Communicator)

## FCC Amateur Radio License Fees

An Act of Congress last spring added fees for the following FCC amateur radio applications: New License, Renewal of License, Vanity Call sign request, and Rule Waiver request. These fees are paid online to the FCC.

There is no fee to request administrative updates for changes of name, mailing address, email address, or a new sequential call sign request. As well, a license upgrade to a higher operator class is exempt from fees.

For more info: <https://www.arrl.org/fcc-application-fee>

## 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: September 5th. The October ADAW will publish to club members in late September.

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

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

*Continued Next Column*

*Continued on Page 17*





**Superstition ARC Repeaters**

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

\* Also Links to Echolink Node: **WB7TJD-L**  
 \* Also Links to AllstarLink Node **52987**

**Club Nets**

- Morning Drive Time Net:** Mon-Fri, 7:00-8:00 AM - Trivia
- Club Net:** Wednesdays, 8:00 PM - Discussion, Elmer Q&A.
- Mesh Information Net:** Thursdays, 8:00 PM - Net control Steve, KB7KWK
- Fusion Confusion:** Monday & Friday, 8:00 PM - 448.275
- 10-Meter Rag Chew:** Thursdays, 8:00 PM, 28.465 MHz USB

**SuperARC Merchandise Store**  
<https://superARC.big3creative.com>

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

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





### *ARA Continued from Previous Column*

and 927.1625, (-), 151.4. Auto-patch service is not available on Greens Peak

**Antennas** – Three Omni fiberglass antennas support the systems in use for VHF, UHF, and 900 along with two 5-element Yagi's for linking.

**Power / Redundancy** – Utility power is backed up by an Absolyt battery. The battery will support the site until the APC UTS6 Universal Transfer Switch engages the Onan propane generator. A samlex PST-600-12 power 600W pure sine wave inverter completes the power system.

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

**Communications shelter** – Butler pre-engineered metal building with two rooms. One room houses the radio equipment while the other houses the Onan generator.

### **Tech Committee activities**

#### **Scottsdale**

In early June it was noticed the Scottsdale UHF radio was having some problems and our Tech committee jumped right on it. Lance (KW7LH) and Cole (AA7RD) quickly identified a radio and channel element needed for replacement. The radio was tested, channel element installed, final tune up and burned in within days. The radio was ready for installation within six days, and on the seventh day Joe (AE7JG) and Mike (KF7MBK) visited the site for installation. They proceeded to replace the radio and completed a site alignment. After testing with calls made to Cole it was decided the site worked as expected.

#### **Mount Ord**

In July Mt Ord automation was reporting a problem with the UHF repeater. Lance (KW7LH) prepared a pair of CDM radios, ready within that week, and Dennis (AE7WU) and Joe (KE7WHE) made the trip to Mt Ord for the swap out. The Micor was returned to Lance for analysis. Lance repaired it and it was ready within the week to be put back into service. A future trip is planned for the swap out and other maintenance items.

#### **Mingus**

The ARA received reports in mid-July of the signal degradation for the Mingus VHF 146.82 radio. Lance programmed a set of CDMs to replace the failing radio. It is part of the tech committee process to take a replacement radio

The ARA is known for its high-quality repeaters across all of Arizona. These repeaters are supported by the ARA members. Join us at our next General Meeting virtually or in person. <https://www.w7ara.org/mtg/Meetings.aspx>

Our in-person meeting has recently moved to the Denny's at Priest and Broadway. Follow the link for more details. ARA members are encouraged to review and update their contact information on the ARA website. You can join the ARA to support these open repeaters! Membership is \$20 per year. Membership info at <https://www.w7ara.org/mbr/Membership.aspx> or email [membership@w7ara.net](mailto:membership@w7ara.net)

### **ARA Site updates**

ARA Greens Peak site contributors Marty Dusenberry and Jim Pierce

This site was previously owned by two hams who decided they no longer wanted to maintain the site and sold it to the ARA.

July 2007 Board votes to explore establishing a site on Greens Peak

September 2007 Board approves USFS lease agreement

November 2007 Final payment sent to acquire Greens Peak repeater site.

December 2007 ARA board allocates funds for equipment to be used at Greens Peak

October 2008 ARA investigating to obtain propane tank for use at Greens

November 2008 ARA leases a 500-gallon propane tank for use at Greens peak

March 2009 Tech committee reports that Greens Peak is off the air due to a general power failure. The site is not reachable due to snow.

March 2009 Board approves a replacement power supply for Greens Peak.

**Location** – Greens Peak Apache-Sitgreaves National Forest, White Mountains

**Elevation** - 10,134 ft.

**Radios** – Four modified Motorola Micor radios

There is one linked repeater operating on 146.720, (-), 162 and two standalone repeaters operating on 448.375, (-), 100.0,

*Continued Next Column*

*Continued on Page 19*

*ARA Continued from Page 18*

to the site and so the failed radio can be returned for analysis. The radios were ready within the week but weather did not permit a trip until the following weekend. Dennis (AE7WU) and Bill (N9VJW) made the trip and the radio was replaced. Unfortunately after the work was completed and they had left the site a link problem between Mt Ord and Mingus developed. The problem was corrected on a follow up visit to the site.

**Greens Peak**

Being a site engineer is not all about the radios. Recently Marty (KE7DGP) and Donna (KI7FHA) visited the Greens Peak location in late July for a routine inspection. After performing the usual housekeeping duties they observed there was a small roof leak. Upon further investigation of the roof it appeared that ice had damaged a few areas. To avoid any unnecessary water damage, Marty decided to make the 400-mile round trip again the following weekend. This time Marty (KE7DGP) and Rick Aldom (W7STS) traveled to Greens Peak to repair the roof. Marty timed the trip to be sure to catch a predicted afternoon storm. After the storm arrived as forecasted the roof repairs were verified.

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



*Continued Next Column*



At the August 11 meeting of the Arizona Amateur Radio Club, our members were treated to a tour of W6RO, the ham shack on the Queen Mary. We saw a video by Nate Brightman, K6OSC. The final docking of the Queen Mary occurred at Long Beach on December 8, 1967. It is a passenger ship from England that was first put into service on May 27, 1936.

W6RO is a project of the Associated Radio Amateurs of Long Beach. The ham shack has several operating positions, HF & VHF. W7IO worked W6RO on 40 meters last Field Day.

The September 24 Test Session time changed to 4:00 PM because of the Tucson Hamfest that morning.

Lori, WA7EDI

**ADAW**



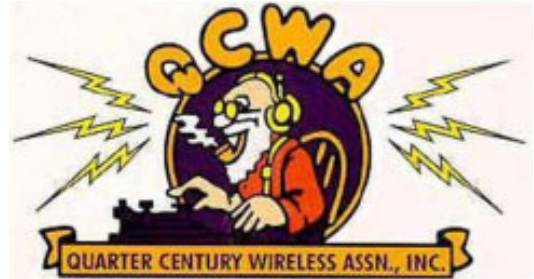
**First Day of Fall  
September 22nd**

---

*ARA Continued from Previous Column*



# No Reports Received



CHAPTER 16  
BARRY M. GOLDWATER ARIZONA CHAPTER



*Emergency Communications Since 1961*

**SHORT SKIP**



## SARCCONSTANTS:

SARCCONSTANTS is a 501 (c)(3) club. That means all donations are fully tax deductible. Contact Paul Finell W7EFQ at 602.741.6563 for information on estate donations and equipment pick-up.

For membership information, call Ed Nickerson, WU7S at 480.949.5162. Please send address change requests to Judy no later than the 7th of the month in which you would like the change to occur.





# HAM RADIO OUTLET

WWW.HAMRADIO.COM

**\*Free Shipping and Fast Delivery!**



### IC-9700 | All Mode Tri-Band Transceiver

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



### IC-718 | HF Transceiver

• 160-10M\*\* • 100W • 12V operation • Simple to use • CW Keyer Built-in • One touch band switching • Direct frequency input • VOX Built-in • Band stacking register • IF shift • 101 memories



### 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



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

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



### 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

### IC-V86 | VHF 7W HT

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



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

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



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

• VHF/VHF, UHF/UHF simultaneous receive • 50 watts of output on VHF and UHF • Optional VS-3 Bluetooth® headset • Easy-to-See large white 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



### ID-5100A Deluxe VHF/UHF Dual Band Digital Transceiver

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

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

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



**5 Ways to Shop!**

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

**ICOM**

Happy Labor Day. We will be closed on Sept. 5th to observe the Holiday.  
It has been a long HOT summer, but hang in there. It is almost over and COOLER weather is on the way.  
Stop by our website for the latest and greatest deals.  
Serving you 6 days a week for all your radio needs.  
Keep "Radio Active" from everyone here at HRO Phoenix.  
Now serving you at our Phoenix store:  
Manager Ron AJ7T, Mike K7DD, Bob W8RH, Richard K1RAB, Ira AI7HC, Paul N0RWW, and Jim KE7EEU.