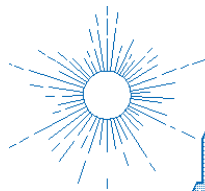


**ADAW**

10498 Monserrate St  
Elk Grove, CA 95757-1765



**ADAW**

**Arizona Desert Aire Waves**

**Vol 49 No 8**

**August 2024**

**CLUB MEETING SCHEDULE**

**SARC**

Aug 7th - 6:00 PM  
Granite Reef Senior Center

**AARC**

Aug 8th - 7:00 PM  
AZ Red Cross Bldg

**YARC**

Aug 1st - 7:00 PM  
Prescott Rodeo Grounds

**TBARC**

Aug 15th - 7:00 PM  
Arizona Christian University

**CADXA**

Aug 1st - 7:00 PM  
Bethany Lutheran Church

**ARA**

Aug 22th - 7:30 PM  
Denny's - Tempe & Zoom

**MARCA**

Aug 20th - 6:00 PM  
Denny's Restaurant - Tempe

**MARA**

Aug 3rd - 9:30 AM  
Maricopa Public Library

**AzRCCC**

Sep 10th - 7:00 PM  
AZ Red Cross Bldg

**SuperstitionARC**

Aug 20th - 6:30 PM  
Red Mtn Center, East Mesa

**ANSR**

Aug 15th - 7:30 PM  
Via GoToMeeting

**OVARC**

Aug 16th - 7:00 PM  
Pima Comm. College, NW  
Campus

**TARA**

Aug 10th - 9:00 AM  
Payson Center for Success

**CARL**

TBD  
Arizona Science Center

**WVARC**

Aug 5th - 7:00 PM  
Shepherd of the Desert  
Lutheran Church/Zoom

**AMO**

Aug 19th - 7:00 PM  
Charles K Luster Bldg

**CHRC**

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

**NADXA**

Aug 6th - 6:00 PM  
Via Zoom

**KARC**

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

**QCWA-AZ Chapter**

TBD  
Various

**SunLife ARC**

Every Monday - 10:00 AM  
Via Zoom

**ATN (VOAR)**

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

# ADAW Member Clubs

## ARIZONA AMATEUR RADIO CLUB

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

President	Gary Hamman	K7GH	480.216.2665
Vice President	Steve Tolnai	W7WSV	480.390.4446
Secretary	Randy Gault	KJ7RCN	480.329.1879
Treasurer	Dave DeBolske	WA7DGY	480.249.8286
Activities Mgr	Ingrid Geissler	W7ISG	
Membership	Dave DeBolske	WA7DGY	480.249.8286

*AARC c/o Dave DeBolske, WA7DGY, 2223 W Belmont Ave, #101, Phoenix, AZ 85021. DUES: \$15.00/YR, Prorated (\$18.00 Family, \$9.00 Student), MEMBERSHIP YEAR BEGINS FEB. 1.*

## SCOTTSDALE AMATEUR RADIO CLUB, INC.

The Scottsdale Amateur Radio Club meets the **FIRST WEDNESDAY** of each month at 6:00 p.m. in Room 8 at the Granite Reef Senior Center located at 1700 N Granite Reef Road (west side of Granite Reef Rd., 50 yards north of McDowell Rd. Parking on site) in Scottsdale. The club also holds a net every Tuesday night at 7:00 p.m. on the 147.78/.18 repeater.

President	James Wasson	N7ELL	n7ell@scottsdalearc.org
Vice President	Rick Aldom	W7STS	natecf@gmail.com
Secretary	Bruce Harmsen	KA9EYX	ka9eyx@scottsdalearc.org
Treasurer	Douglas Mitchell	W7ADD	w7add@scottsdalearc.org
Past President	Paul Finell	W7EFQ	w7efq@scottsdalearc.org
Board Members	Jim Dye	AG7AU	
At-Large	Scott Gillins	W2KP	
	Bill Kouchis	N9EIV	
	Ed Nickerson	WU7S	
	Gene Geller	K0VN	

*SARC, P. O. Box 10878, Scottsdale, AZ 85271-0878. Phone: 602.735.3988. DUES: \$20.00/YR, (\$10.00/Add'l Family Member). Web Site: [www.scottsdalearc.org](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	iamgadget1@yahoo.com
Vice President	Clayton Jacobs,	KJ6QJS	
Secretary	Steve Miller,	W6SDM	
Treasurer	Bill McLean,	K7WWM	bmclean@gmail.com

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

## THUNDERBIRD AMATEUR RADIO CLUB

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

President	Brandon McWhorter,	KN6SEU	president@w7tbc.org
Vice President	Rick Tejera	K7TEJ	k7tej@w7tbc.org
Secretary	Don Cox	KK6NVN	bod@w7tbc.org
Treasurer	Joe Soublie	KG7COA	treasurer@w7tbc.org
Director 2023-24	Warren Gaspar	KC0GU	bod@w7tbc.org
Director 2023-25	Paul Veltman	W7OFG	bod@w7tbc.org
Director 2023-24	Mike Willmoth	KJ7OPD	bod@w7tbc.org
Director 2023-24	Bruce Kabana	WB7SRC	bod@w7tbc.org
Past President	Walter Reinert	NJ8G	nj8g@w7tbc.org
Station Trustee	Gary Duffield	WK7B	wk7b@w7tbc.org

*For further information about the ThunderBird Amateur Radio Club, visit our website at <http://w7tbc.org>, send an e-mail to: [info@w7tbc.org](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.*

## MARICOPA AMATEUR RADIO ASSOCIATION

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

President	Cary Gielniak	K7CFG	president@copahams.org
Vice President	Dave Hagan	KK7FWJ	vicepresident@copahams.org
Secretary	TBD		secretary@copahams.org
Treasurer	George Hogan	K7TGH	treasurer@copahams.org
PIO:	Steve Miller	W6SDM	pio@copahams.org

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

## CHANDLER HAM RADIO CLUB

The Chandler HAM Radio Club (call sign N7CHN) meets the **SECOND SATURDAY** of each month at 9:00 AM at the Tri-City Baptist Church, Room 140, on the SW corner of Germann & Dobson Roads in Chandler. Our monthly club meetings are held in person. Visitors are welcome. Check the web site at [chandlerhams.org](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	Thomas James	KK7KHS	vp@chandlerhams.org
Secretary	Charles Fredrick	K5CYA	sec@chandlerhams.org
Treasurer	Ralph Arrendondo	K7RNJ	treas@chandlerhams.org

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



# ADAW Member Clubs

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

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

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

Web Site: <http://www.azqcwa.org> Email: [info@gmail.com](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	928.308.1164
Vice President	Tom Griswold	WN7E	
Secretary	Bud Winters	N7BUD	
Treasurer	Bob Sitterley	K7POF	928.636.2146
Board Members:	Gary Hamman	K7GH	
	Ken Rasback	KK7KEN	
	Tom Raczkykowski	N7MMC	
	Larry Dorrell	KG7TTD	
	Ray Kolman	KI7COM	
	Steve Stock	WA0A	

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

## KACHINA AMATEUR RADIO CLUB

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

President	Kevin Parmenter	KG5Q	480.748.8182
Vice President	Bill Turley	KJ7GYH	923.536.2293
Secretary	Marie Mortensen	N7SKS	928.358.8748
Treasurer	Dennis Wilkes	W7DRW	928.739.4700
Board Members at Large:			
	Randy Beecroft	W7RJB	
	Jim Mortensen	W7AZY	
	Dennis Mills	WA7ZZT	

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 \$20/yr for individual; \$30/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	Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Vice-President	Marty Dusenberry, KE7DGP	ke7dgp@w7ara.net
Treasurer	Cole Cunningham, AA7RD	aa7rd@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net

### Board Members:

Dennis Campbell, AE7WU	ae7wu@w7ara.net
Mike Montalvo, KF7MBK	kf7mbk@w7ara.net
Brian McCarthy, AK7F	ak7f@w7ara.net
Lance Halle, KW7LH	kw7lh@w7ara.net
Joe Godfrey, AE7JG	ae7jg@w7ara.net
Joe Bakas, KE7WHE	ke7whe@w7ara.net
James Wasson, N7ELL	n7ell@w7ara.net
Bill Jackson, N9VJW	n9vjw@w7ara.net

For Membership Information, contact (Joe Godfrey, AE7JG membership@w7ara.net) Arizona Repeater Association, Inc, P. O. Box 35758, Phoenix, Arizona 85069-5758. To join or renew, please visit <http://w7ara.org/mbr/Membership.aspx>. DUES: \$20.00/yr. (Jan. 1 through Dec. 31) with a one-time initiation fee of \$10.00. Life and family memberships are available.

## SUPERSTITION AMATEUR RADIO CLUB

The Superstition Amateur Radio Club meets at 7:00 PM on the **THIRD TUESDAY** of each month (except December) at the Charles K Luster Building, 640 N Mesa Drive in Mesa. VISITORS are always welcome. Board Meetings are held at 6:30 PM on the second Tuesday of each month (except December) at Black Bear Diner, 1809 E Baseline Road in Gilbert.

President	Steve Estes	KB7KWK	kb7kwk@superstitionarc.org
Vice President	David Gardner	KC7MAD	kc7mad@superstitionarc.org
Secretary	Scott Simeon	KI7KIM	ki7kim@superstitionarc.org
Treasurer	Bryan Hubbard	KF7DPC	kf7dpc@superstitionarc.org
Directors:	Brent Butler	W7FK	w7fk@superstitionarc.org
	Ed Taggard	K7EDT	k7edt@superstitionarc.org
	Matt Churchill	K7YEG	k7yeg@superstitionarc.org
	Eve Glantz	W7EVE	w7eve@superstitionarc.org
	John Jacques	KD8PC	kd8pc@superstitionarc.org
	Larry Fort	AB7C	ab7c@superstitionarc.org

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277.  
 Web Sites: [SuperstitionARC.org](http://SuperstitionARC.org) & [superfest.superstitionarc.org](http://superfest.superstitionarc.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. Denny's, 4403 S Rural Rd in Tempe (SE corner of Rural and US60) and via Zoom - login info on W7MOT.org. Monthly presentations cover a broad spectrum of interesting subjects. Visitors are welcome to attend. Come early (6:00 p.m.) for socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications. MARCA also has a net every Tuesday evening EXCEPT meeting nights at:00 PM on our South Mountain repeater, 443.050 MHz(100.0Hz tone).

President	Ray Vasquez	K4RMV	
Vice President			
Treasurer	Norm Johnson	AA7OO	480.278.2886
Secretary	Paul Bennett	KD7KDO	
Board Member	David Yee	N7AJR	
Trustee:	Norm Johnson	AA7OO	480.278.2886
Webmaster:	Norm Johnson	AA7OO	480.278.2886

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

## CENTRAL ARIZONA DX ASSOCIATION

We have finally returned to hybrid in-person meetings which include online Zoom capabilities. The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. at Bethany Lutheran Church, 4300 North 82nd Street in Scottsdale. We have a broad range of programs covering many aspects of amateur radio with an emphasis on DX-related. Visitors always welcome in-person or via Zoom. See [www.cadxa.org/meetings.html](http://www.cadxa.org/meetings.html) for more information. Contact club president for zoom link.

President	John Jolly	N7NWL	wa7nwl@gmail.com
Vice President	Virgil Silhanek	K7VZ	k7vz@arrl.net
Secretary	Jim Charboneau	KC1BB	kc1bb.jim@gmail.com
Treasurer	Tom Boza	NE7X	ne7x@arrl.net
Immed. Past Pres.	Bill Poole	AA4Q	aa4q@arrl.net
Directors	Steve Thompson	N7TX	steve.n7tx@gmail.com
At-Large	Steve Protas	K7SP	sprotas@juno.com

*CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: [wa7nwl@gmail.com](mailto:wa7nwl@gmail.com). Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: [www.cadxa.org](http://www.cadxa.org).*



## YAVAPAI AMATEUR RADIO CLUB

The Yavapai Amateur Radio Club meets the **FIRST THURSDAY** of every month at 7:00 PM in the Freeman Building at the Prescott Rodeo Grounds located at 840 Rodeo Drive in Prescott (visit web site at [www.w7yrc.org](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	Ray Kolman	KD7RK	president@w7yrc.org
Vice-President	Steve Stock	WA0A	vice_president@w7yrc.org
Secretary	Tim Norton	K7PVY	secretary@w7yrc.org
Treasurer	Jane Lerette	K7ZHF	treasurer@w7yrc.org
Board Members	Byron Wilkinson	KK7BFL	kk7bfl@w7yrc.org
	Debbie Kolman	W1QT	w1qt@w7yrc.org
	Mike Schnell	NC7X	nc7x@w7yrc.org
	Bernie Sakowicz	W1RAD	w1rad@w7yrc.org
Past President	John Snedden	KT7P	kt7p@w7yrc.org

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

## K7ARC AZ RED CROSS COMMUNICATIONS CLUB

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

President	Charlie Zurenko	N2TFS
Vice President	Mark Steele	KI7RB
Secretary	Jerry Quenneville	K1GJQ
Treasurer	Saroj Gilber	KM6BQD
Past President	Frank Engstrom	KB7IQ

*Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016. Web Site: [K7ARC.org](http://K7ARC.org) Email: [info@k7arc.org](mailto:info@k7arc.org)*

## NORTHERN ARIZONA DX ASSOCIATION

The Northern Arizona DX Association is a small, but very active club in Flagstaff. We hold our monthly meetings the **FIRST TUESDAY** of each month via ZOOM at 6:00 p.m. MST (01:00 UTC). A ZOOM ragchew is held every Wednesday at 9:00 a.m. Visitors are welcome. Please e-mail [president@nadxa.com](mailto:president@nadxa.com) to receive the ZOOM invite and password.

President	Lou Arminio, W7KFT	president@nadxa.com
Vice-President	Bob Wertz, NF7E	vicepresident@nadxa.com
Secretary	Keith Schlothman, KR7RK	secretary@nadxa.com
Treasurer	Ken Held, W7SS	treasurer@nadxa.com

*Website: [www.nadxa.com](http://www.nadxa.com). If you are interested in joining us, please read through our Bylaws (available on the website) and attend a club meeting or breakfast. A sponsor will be assigned to get you acquainted with our merry band*

# ADAW Member Clubs

## CENTER FOR AMATEUR RADIO LEARNING

The Center for Amateur Radio Learning maintains & operates W7ASC aka "The Harkins Ham Shack." It is open to all who visit Arizona Science Center (ASC) in Downtown Phoenix. The station is located on the third floor of ASC in the "My Digital World" gallery.

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

President	Jack Landon	KD7ROB
Secretary	Paul Siken	KI7LW
Treasurer	Karen McConaghy	NO7D
Station Engineer	Rusty Kinner	WA8ZID
Board Members:		
	Tom Salt, AD7PM	At Large
	John O'Neal, K7JP	Teacher Packets
	Jerry Quenneville, K1GJQ	ARCA Delegate
	Sam Marshall, N7INV	Scheduling

## 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. The board meets on the third Wednesday of the month at 7:00 PM on Zoom. A weekly breakfast is held on Thursdays at Lou's Tivoli Gardens, 12535 W Bell Rd at 7:00 AM. Club nets are held on 147.300 (tone 162.2) at 9:00 AM and at 8:00 PM. Please check our website (<https://westvalleyarc.com>) for other events and information.

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

### Committees:

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

WVARC, P O Box 1573, Sun City, AZ 85372-1573. DUES: \$15.00/YR for family residing at the same address. MEMBERSHIP YEAR - January - December. Web Site: <http://westvalleyarc.com>. Email: [suncitywvarc@gmail.com](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 at the Greenfield Village RV Park, 111 S Green field Road in Mesa. We also gather every Thursday morning at Red Mountain Park.

### Nets:

DMR Net: Monday at 2:00 UTC, Talk Group 31041  
20 M Net: Monday, Wednesday, & Friday, 14.329 Mhz SSB 19:30 p.m. UTC (18:30 a.m. UTC during daylight savings time).  
10 M Net: Tuesday & Thursday, 28.329 Mhz, SSB. 02:00 UTC. Also cross banded to KD8PC-L and AllStar 51772 on Tuesday nights.  
Venture Out: 2 M Net: Monday, Wednesday, & Friday, 20:00 UTC 146.460 MHz FM simplex

President	Jim Steinmetz, WX7G	steinmetzjb@aol.com
Vice President	Stephen Wagner, W7WHB	w7whb@arrl.net
Secretary	Roy Gager, KD7WRC	roygager@mac.com
Treasurer	Cheri Goforth, N7WEM	treasurer.sunlifearc@gmail.com

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



# ADAW Member Clubs

## AMO - ARIZONA MESH ORGANIZATION

The Arizona Mesh Organization (AMO) is a 501(c)(3) amateur radio club. Our goals and purpose is to promote and support ARDEN MESH Networks throughout the state of Arizona, to explore new technologies, to promote the education of what amateur radio mesh is, to support and exchange information with mesh users throughout the state, to further the technology of mesh radio itself, to support emergency and public service communications, and (of course) to have fun along the way. **Board Meetings** are held the second Monday of each month on Zoom at 7:00 PM until approx. 9:00 PM. **General Meetings** are the **THIRD MONDAY** of each month at the Charles K. Luster Building, 640 N Mesa Drive in Mesa (a half mile north of W University Drive, west side of N Mesa Drive) and on Zoom. Doors open at 6:30; meetings are 7:00 PM until approx. 9:00 PM. **AMO Weekly Nets** are held the other Mondays at 7:00 PM on Zoom. If you need the Zoom link, please contact the AMO President at least 2 hours before the meeting at [president@arizonamesh.org](mailto:president@arizonamesh.org).

President: Gary Hinton, AC7R [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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Rod Fritz, WB9KMO [wb9kmo@arizonamesh.org](mailto:wb9kmo@arizonamesh.org)

Web Site: <https://arizonamesh.org/> Email: [info@arizonamesh.org](mailto:info@arizonamesh.org)  
DUES: \$25.00 per year. Membership year runs January 1 - December 31.

## ARIZONA OUTLAWS CONTEST CLUB

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

## ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at Northwest Campus, Pima Community College, 7600 N Shannon Road in Tucson. (Monthly meetings are live-streamed.) Visitors are welcome. Board Meetings are held the second Tuesday of every month at 7:00 p.m. via ZOOM. Check the web site at [www.tucsonhamradio.org](http://www.tucsonhamradio.org) for dates.

President: Steve Wood W1SR [w1sr@arrl.net](mailto:w1sr@arrl.net)  
Vice-President: David Beauchesne AK2L [ak2l@arrl.net](mailto:ak2l@arrl.net)  
Secretary: Logan Zintmaster KE7AZ [lrahnz@garlic.com](mailto:lrahnz@garlic.com)  
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Board Member: Wally Wilson W7JCP [wally.wilson2011@gmail.com](mailto:wally.wilson2011@gmail.com)  
Board Member: Darren Wright WB1LOV [wb1lov@yahoo.com](mailto:wb1lov@yahoo.com)  
Board Member: Gerry Rohewski KK7HTF [grojewski@comcast.net](mailto:grojewski@comcast.net)

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

## WEST VALLEY HAM SHACK

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

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ADAW Editor: Bill Powell, W9WRP [w9wrp@yahoo.com](mailto:w9wrp@yahoo.com)

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

## ADAW Member Clubs

### TONTO AMATEUR RADIO ASSOCIATION

The Tonto Amateur Radio Assoc. (TARA) meets on the **SECOND SATURDAY** of every month at 9:00 a.m. at the Payson Center for Success, 514 Wade Ln. in Payson. See [n7tar.org](http://n7tar.org) for details and a map link.

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PIO	Ron Acosta, K9PAZ	<a href="mailto:ronacosta@mac.com">ronacosta@mac.com</a>

For further information and calendar of events, please see our website at [n7tar.org](http://n7tar.org) DUES: \$35.00/year (spouses included)

### HAMFEAST

The HamFeast group meets every Saturday evening from 6:00 p.m. until 8:00 p.m. at various restaurants in the Phoenix area. Join the email list and view the restaurant calendar at the HamFeast.com Groups.io web site. Joining the email list will send you two weekly notices of the restaurant location. No dues, just good food and friendly conversation.

Leaders	Virgil Silhanek, K7VZ
	Bill Kouchis, N9EIV
	James Wasson, N7ELL
	Marcia Silhanek, K7AZM
	Evan Silhanek, KK7MGL

**Please be sure your club has your current email address.**



The *Arizona Desert Aire Waves* is published monthly and is the official news media of the member clubs. All news items, articles, and inquiries 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 member clubs or ADAW Staff. Full permission is granted to reprint or quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED. **Deadline is 10th of the month**

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## From the Editor's Desk

I had the opportunity to attend the 2024 Flagstaff Hamfest last month. A no host dinner was held Friday evening after set up at the Sizzler's restaurant and everyone was invited. On Saturday, the main event took place. The "Commons" area was full of vendors and the parking lot was full of attendees. The swapmeet was moved to a different parking lot which offered more room for tailgaters. A shuttle bus was available to transport people between the parking lots, building, and swapmeet area. Eight seminars were held this year in air-conditioned comfort. VE testing was available for those wishing to take a test. There was even a balloon launch this year.

The local Scout troop handled food service serving breakfast burritos and coffee for breakfast and hamburgers/hot dogs, with a pickle, chips, cookie, and soda for lunch. The food was excellent, although, yours truly missed the donuts they had last year. What can I say - I have a sweet tooth and love donuts.

All in all, it was a great, growing event. Look for next year's Flagstaff Hamfest to be even better! If you missed it this year, make plans now to attend in July 2025. You won't be sorry.

The Amateur Radio Council of Arizona held its Annual Meeting at the Flagstaff Hamfest. Among the topics covered was the presentation of the 2024 ARCA Ham of the Year and Young Ham of the Year awards. Six very deserving hams were nominated for the Ham of the Year award, and each was thanked for their service to amateur radio. Frank Bender, K8FB, of the Yavapai Amateur Radio Club was selected for ARCA's 2024 Ham of the Year award. Evan Silhanek, KK7MGL, received the 2024 Young Ham of the Year award.

Two scholarships were awarded during the meeting also. Sarah Li, K7SLI and Tiana Molina, WB7TIA, both from the K7UAZ-University of Arizona Radio Club, were presented this year's scholarships.

The final order of business was the election of the 2024-2025 officers. Two positions had two candidates and a roll call vote was taken for those offices. The 2024-2025 officers are:

Chairperson - Charlie Zurenko, N2TFS  
1<sup>st</sup> V Chair - Rick Aldom, W7STS  
2<sup>nd</sup> V Chair - Brian McCarthy, AK7F  
Secretary - Janice Enloe, KI6WCK  
Treasurer - Christine Kesauer, N7PVL

New officers will begin their term at the September 14, 2024 meeting.

Next hamfest is in September in Overgaard. It's a new event for the Rim Country Amateur Radio Club. See the Hamfest Calendar in the next column for details.

The White Mountain Hamfest returns in September. It will be held at the Show Low Masonic White River Lodge once again. Details in the next column.

Until next month - Stay Cool!  
Christine, N7PVL



## Hamfest Calendar

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

14 September 224 - **White Mountain Hamfest** - Hosted by the White Mountain Wireless Alliance will be held at the Show Low Masonic White River Lodge #62, 741 E Whipple Street in Show Low. Setup starts at 6:00 AM. Gates open at 7:00 AM. Talk-in 146.76 -.6 MHz, P/L 110.9. Visit their Facebook page for more information. <https://www.facebook.com/groups/472980670084225>

5 October 2024 - **TARA Swapfest** - hosted by the Tonto Amateur Radio Club will be held in the Advantage Realty Parking Lot, 609 S Beeline Highway in Payson. Hours are 8:00 AM until Noon. Tailgate spaces \$5 each. Free Admission. VE testing at 9:00 AM. A Social BBQ/Potluck will follow the event. For more information contact Bruce Johnson at 623.533.1774 or email [injectionresource@gmail.com](mailto:injectionresource@gmail.com).

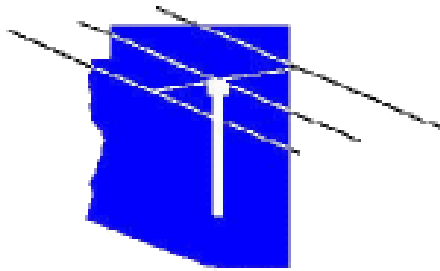
5 October 2024 - **RST Fall Hamfest** - hosted by the Radio Society of Tucson will be held at Calvary Tucson Church, 8711 E Speedway in Tucson. Hours are 7:00 AM - 11:00 AM with seller set up starting at 6:00 AM. Admission and Parking are Free. Seller/Vendor spaces are \$10.00 per parking space. Seller spaces are shaded. Morning snacks provided by Scout Troop 157 and Pack 705. For map and up-to-date information, visit the web site at <http://www.k7rst.org>

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

9 November 2024 - **Oro Valley ARC Hamfest** - hosted by the Oro Valley Amateur Radio Club will be held at Marana Middle School, 11285 West Grier Rd in Marana. Contact [hamfest@tucsonhamradio.org](mailto:hamfest@tucsonhamradio.org) for more information. Visit the website at [www.tucsonhamradio.org](http://www.tucsonhamradio.org).

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





MARCA INC.

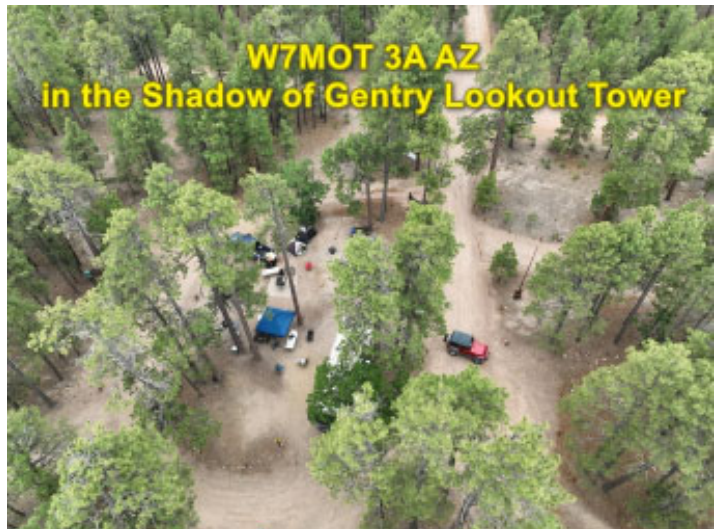
As a reminder, it's worthwhile to ALWAYS check our web site [www.w7mot.org](http://www.w7mot.org) for updates to meeting places AND dates! We normally meet the third Tuesday of the month, although for the July and August meetings, it's usually pretty much an informal get-together. Everyone is welcome to attend! We meet at Denny's Restaurant, 4403 S Rural Rd, Tempe, AZ 85282 – which is at the southeast corner of Rural Rd and U.S. 60. Or see the aforementioned web site for info on how to attend via Zoom. The meeting begins at 6:30 PM, MST, and is usually preceded at 5:00 PM by a test session. Since it IS an informal meeting, it's especially important to register in advance if you want to take a test!

The big thing to report on this month, of course, is Field Day. Again this year, we went to the Gentry Campground at the base of Gentry Lookout Tower. If you're not aware, it is about 7 miles from the town of Forest Lakes. We had about 14 attending plus several visitors. This year, we decided to do 3A rather than the class 2A that we've done in past years. Everyone who was there enjoyed it.

We are having a net on our 443.050 MHz repeater (100.0 Hz tone) at 8:00 PM on the Tuesday nights that we are not having a meeting. This repeater is located on South Mountain so provides good coverage for most of the Valley.

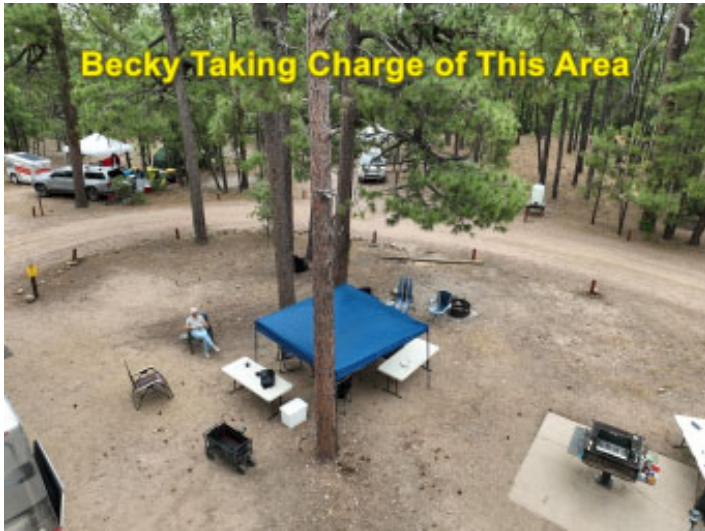
Clark Jones, KI7TU

## MARCA Field Day in Pictures



National Radio Day  
August 20th

Continued on Page 10



**Becky Taking Charge of This Area**



**Station 3  
Assembled and Operational**



**Satellite Station in Operation**



**Command Center  
&  
GOTA  
Get On The Air**



**Station 1  
Paul and Ron**



**Visitor Welcome and Information Center**



**Station 2 Solar is On Line**



**The W7MOT MARCA Operators  
Field Day 2024**

# 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.

## August Test Sessions

### Aug 3rd - Chandler Ham Radio Club -- 10:00 AM

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

Contact - Byron Garranbrant [ve@chandlerhams.org](mailto:ve@chandlerhams.org)

Walk-Ins Allowed / Registration on Website

Register at: [chandlerhams.org/testing/](http://chandlerhams.org/testing/)

### Aug 3rd - Yavapai ARC -- 9:00 AM

Jeep Posse Bldg in Pioneer Park, 1200 Commerce Dr, Prescott

Contact - Donald Bauer 928.775.4690

Pre-Register on-line:

<https://hamstudy.org/sessions/arrl/86305/inperson>

### Aug 3rd - Kachina ARC -- 9:00 AM

Taylor/Snowflake Fire Dept, 425 Papermill Rd, Taylor

Contact Vincent Cattolica 520.591.4576

### Aug 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 by Friday

### Aug 12th - MCC ARCKM7CC & East Valley VE Group -- 6:00 PM

Mesa Community College Bldg TC50, 1833 W Southern Ave, Mesa

Contact - Ray Vasquez 602.363.4207

### Aug 16th - Radio Society of Tucson -- 7:00 PM

Immanuel Presbyterian Church, Witherspoon Hall

252 E 22nd St, Tucson

Contact - Diane Zimmerman 520.664.5070

### Aug 16th - Oro Valley ARC -- 5:30 PM

Pima Community College, 7600 N Shannon Rd, Tucson

Contact Liaison for Room Location

Contact - David Beauchesne 831.345.3308

### Aug 17th - MCC ARCKM7CC & East Valley VE Group -- 10:00 AM

Mesa Community College Bldg TC50, 1833 W Southern Ave, Mesa

Contact - Ray Vasquez 602.363.4207

### Aug 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

### Aug 21st - Thunderbird ARC -- 6:00 PM

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

Enter Gate 9, Room 423

Contact - Walter Reinert 602.668.7804

No Walk-Ins / Register or Call Ahead

### Aug 24th - Superstition ARC -- 10:00 AM

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

Contact - Matt Churchill 602.739.6496

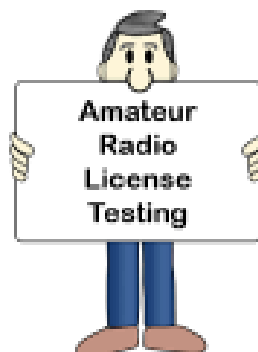
### Aug 31st - Arizona ARC -- 10:00 AM

American Red Cross, 4747 N 22nd St, Phoenix

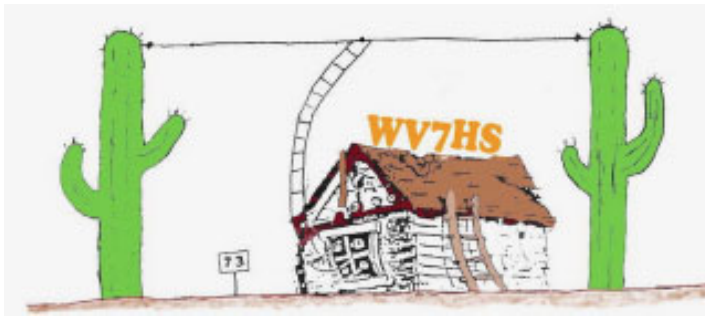
Contact - Gary Hamman 602.996.8148

No Walk-Ins / Register or Call Ahead

Pre-Register Required by the Thursday before session



## Magic of Magnetic Loop Antennas – W9WRP



### WEST VALLEY HAM SHACK

In July, work continued to improve the air-conditioning system and the visual aspects of the West Valley Ham Shack facility. Visitors will see not only a better-looking area, but also enjoy remodeled surroundings. The work has kept us from holding classes until September, but when they resume, those attending classes should enjoy the improvements and be more comfortable. Full class schedules are projected for September. See the list of classes on the website ([westvalleyhamshack.com](http://westvalleyhamshack.com)) and preregister if you are interested. Parks on the Air (POTA) is a new and popular class.

Summer hours remain 9:00 a.m. to noon, Tuesday through Saturday. Classes are held mostly on Mondays when the facility is normally closed. A monitor is present during open hours.

The WV7HS repeater is back on the air: 441.775+/-100.0 Hz. We hope to soon activate the digital capability making it dual mode. More information will come in the next month or so. The repeater covers some of the NW valley between Surprise and Wickenburg.

VE testing is currently scheduled for Saturday, August 17th, from 9:00 to 11:00 a.m. Please call David Morrill at 623-680-5011 to preregister for your exam(s).

The Shack maintains an extensive library of technical books, manuals, repair publications and hobby magazines. Some QST, 73, and CQ magazines are included on the shelves. Several reference publications are available to help with your special projects, repairs, and alignments. See the picture of a portion of the library room. More are on the website.

Stay tuned for the September class schedule. Check the website for the most current information. Don't forget to preregister for classes. Use the link on the website to express your interest and to register.

Have a great month! 73, Bill Powell, W9WRP



Magnetic loop antennas, known for their compact size and acceptable performance, are a rather simple, yet sophisticated, tools for radio communications. Despite an unassuming appearance, these antennas present remarkable capabilities, particularly in constrained spaces or environments, where traditional antennas face limitations.

At the heart of a magnetic loop antenna lies a simple yet powerful concept of magnetic induction. Traditional wire antennas rely on electrical currents to radiate electromagnetic waves. Magnetic loop antennas utilize magnetic fields generated by the loop's conductor. This conductor, typically a loop of copper or aluminum tubing, is tuned by a parallel capacitor.

The key to the magnetic loop antenna's efficiency lies in resonance, where the electrical length of the loop matches the wavelength of the desired frequency. Resonance is reached by adjusting the variable capacitor, which allows operators to finely tune the antenna across a range of frequencies. By adjusting the capacitance, operators can precisely match the impedance of the antenna to the transmission line, maximizing power transfer and minimizing signal loss.

One of the most intriguing characteristics of magnetic loop antennas is the inherent selectivity and directionality. Due to their relatively small size compared to the wavelength of the signals they receive, magnetic loops exhibit sharp bandwidth characteristics, effectively rejecting unwanted signals outside their tuned frequency range. This selectivity is ideal to reduce interference in crowded band environments or urban settings.

Magnetic loop antennas excel where some traditional antennas struggle: urban areas with high levels of electromagnetic interference or indoor settings where external antennas are impractical. The compact size, tunable characteristics, and directional capabilities make them invaluable tools for amateur radio operators, Short Wave Listeners, and radio enthusiasts.



ADAW



## **Beginning DXing, Part III** **By Larry Loen WO7R**

This is a series of articles covering the basics of DXing – distance communication. Here, we turn to the practical, off-the-air aspects of getting awards: Proof of contact.

### **Confirmations and QSL Cards**

You may have noticed we talked elsewhere about “worked and confirmed” when talking about the basic DXing awards. To work someone is to have a two-way contact with them. Strictly speaking, you don’t have to confirm anything. But, most DXers want various awards. To get awards, nobody is just going to take your word for it. You need to confirm the stations you worked. Not every contact, mind you, but at least enough of them so that you can claim the award. For instance, you probably will work Japan on 20 meters very early in your DX career. Japan has a huge number of amateurs and you’ll soon find out how easy it is to work them, especially on 20 meters. But, to claim Japan for the Mixed (General) DXCC, you need to confirm only one of them.

Confirmations have long been done with specialized postcards called QSL cards. QSL itself comes from CW and means “confirmed.” If you send a QSL card to the DX, with return postage or cash, they will then send you one back. The card can be turned in for awards. But hold off on that.

### **LOTW and Confirmations**

Nowadays, physical postcards can be reserved for special situations. It is quite possible to confirm at least 80 percent of all your “I need it for an award” QSOs with Log of the World (LOTW). See here: <https://www.arrl.org/quick-start> to get started. You need a (free) account. Once you have your account, go here: <https://lotw.arrl.org/lotwuser/default> to sign in. You only pay for LOTW when you actually want to cash in QSOs for an award and the cost per QSO is low compared to anything else.

### **Logging**

Everyone wanting awards will want confirmations. To start down that road, one must log at least the most important contacts. There are many popular logging programs, including DX Keeper, Log4OM, N3FJP, Ham Radio Deluxe, and others. Many of these are free.

Once you log your contacts, you will have the minimum information required: DX call, date (in UTC), band and/or frequency, and mode. Your logger will either interface to LOTW directly or it will export your QSOs in a format known as ADIF.

### ***CADXA Continued from Previous Column***

ADIF can be “signed” and “uploaded” with a program from LOTW called TQSL. When you get your LOTW account, you’ll learn about this program. You upload and wait. Confirmations are sometimes available in a day or two. In others, it will be weeks, months, even years. And, of course, never.

### **Working Multiple Stations to Get Confirmations**

Let’s say you are doing a basic DXCC. You just worked Japan on 20 meters. Every DXer does this early in their “career.” But, let’s say that the station, JA1HAM (or whomever it really is) does not participate in LOTW? That’s not a problem. Work another Japanese station on 20 meters. At least half of all active DX stations use LOTW and simple math reveals that you’ll have to work somewhere between one and four Japanese stations to get at least one of them to confirm on LOTW. Even early on, when everything seems hard, you will soon discover that all but the rarest one hundred DXCCs have multiple stations you can work for awards.

### **Confirming Rarer Stations**

Some of the very rare DX effectively insist on postcards (QSL cards). Because they are rare, you may find that it is many years before you get a chance to work that country again. So, you send them a little money (usually between three and four dollars), your card, and a return envelope, and you get their card back in the mail. Many of these can instead be reached with the Clublog OQRS system (<https://clublog.org/logsearch.php>). Cheaper and a little more convenient. One important bonus is that almost everyone that sends cards will confirm many QSOs for the cost of one card. So, if you work someone rare, wait a bit before sending off a card; you may work them on another band or mode.

### **The “buro” or QSL Bureau System**

The QSL bureau (“buro” in CW) is an ancient and venerable way to get confirmations. It takes much patience and is frankly not very certain. You send your cards to the ARRL and eventually get responses back from a separate DX Club you’re registered with. Not terribly effective as many stations don’t participate nowadays. Worse, many stations you don’t care about will send you cards you don’t want, which jacks up the cost of a useful card by a lot. It looks cheap until you factor in the cost of useless cards.

It is quite practical to skip the “buro” entirely. Even stations that are “buro only” (these are rare) will actually still take your money and send you their card.

Remember, you should be able to get at least 80 percent of your confirmations with LOTW. Sending cards directly to the DX station for the rest is actually the most cost effective way to get the last 20 percent and get them in a reasonable time frame, too.

### **A Last Word About Sticker Shock**

LOTW is very cost effective, but you do pay all at once when cashing in for an award. It can be a bit of money. Throw a quarter in a piggy bank for every important LOTW confirmation and you won’t be upset at the cost when you finally cash in.

*Continued Next Column*



**HamFeast** \ ham fĕst \ noun  
a social gathering of amateur radio operators  
for a meal with large amounts of food and drink.

The Saturday evening HamFeast from 6:00 p.m. - 8:00 p.m. is open for anyone to attend. It's a family friendly social gathering, so bring an appetite and a few good stories.

August 2024 Locations:

8/3 - Wally Burger, 10222 N 43rd Ave., Ste 7, Glendale, AZ 85302

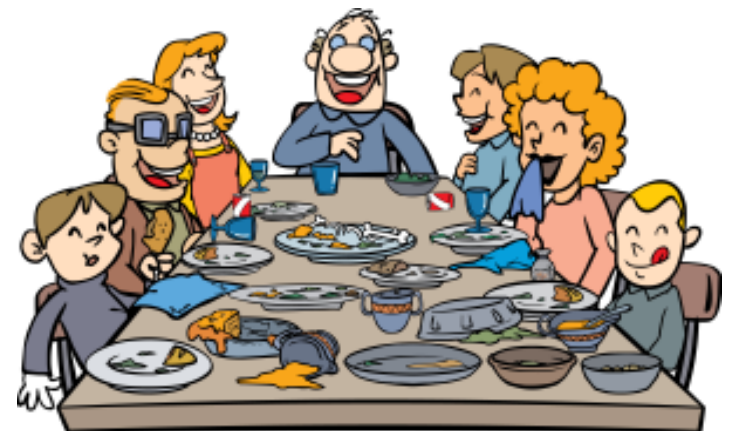
8/10 - Niro's Gyros, 10826 S. 48th St., Phoenix, AZ 85044

8/17 - Los Taquitos, 7000 N. 16th St., Phoenix, AZ 85020

8/24 - Rudy's BBQ, 7300 W. Chandler Blvd., Chandler, AZ 85226

8/31 - CT Tacos, 903 E. Bell Rd., Phoenix, AZ 85022

Join the announcement only [Groups.io](https://www.hamfeast.com) for HamFeastAZ to get weekly email reminders on event locations. <https://www.hamfeast.com>



The Kachina Amateur Radio Club is a 501C organization dedicated to furthering radio communication in the White Mountains of Arizona, including amateur radio and GMRS. The club has three major objectives: (1) training and education by preparing the community to obtain licenses or upgrade licenses by holding regularly scheduled classes and VE test sessions; (2) community service by providing communications services for events or emergencies as needed; and (3) advancing technology and bringing technology and communications to the White Mountains.

The Kachina Amateur Radio Club has been busy providing communications for the Deuces Wild Triathlon 54-mile bike race which spanned several municipalities of Navajo County. Our VE test team helped with the testing during the Flagstaff Hamfest. Our club is available to support events with communications on request for no charge.

We've been making improvements by upgrading and expanding repeater sites in the area for the growing linked repeater system called the Navajo Link, expanding the packet network to several sites in the White Mountains, and exploring MESH networking. Feel free to log into the packet network to try out one of our repeaters.

We meet at 6:30 p.m. on the 2nd Tuesday of each month at New Hope Christian Fellowship Church, 989 Cheney Ranch Road, Show Low, AZ. Join us at our next monthly meeting on August 13th, 2024, to learn more about us and how to get involved.

The Kachina Amateur Radio Club sponsors a free two-day class to assist those interested in passing the Technician class FCC license exam. The next class is scheduled for September 28th and 29th for the testing date on October 5th, 2024. For more information, including license classes and testing registration information, visit our website at <https://kachinaarc.org/>.





## AMATEUR RADIO SERVICE DEMONSTRATION STATION

Thanks to David - AK2L for organizing another Field Day event for OVARC. We made a number of contacts on different modes and learned a lot about our radios, antennas, and software. Special thanks to Darren - WB1LOV for securing the facility for us. We are already examining plans for Field Day 2025 and considering possible ways that we can improve. If it wasn't for Field Day, I wonder about our ability to get on the air during a real emergency.

Thanks also to Rod-KK7QPA for diligently working the GOTA station. Max was there for a number of hours watching FT8 contacts.

Thanks also goes to Tony - K7AJF for building an excellent antenna that was a real workhorse for us. It has been to several outings and continues to perform well.

Thanks to Gerry - K7GGR for advancing the Pima Community College amateur radio club. The club is already building a website that you can check out at [pimaamateurclub.com](http://pimaamateurclub.com). Gerry has been meeting with various individuals at the college discussing the details of a shack there. We have a small donation already, but we are interested in any items that might complement a college amateur radio club shack. If you have anything that might be of interest, please reach out to me at [w1sr@arrl.net](mailto:w1sr@arrl.net).

The board has been considering various options for the Boy Scout event in October. Tom KK7OMB is our liaison to the scouts and he's come up with several ideas for how we can involve the scouts at their annual JOTA event.

Our November HAMFEST is not too far away now. It's nice knowing that will be standing outside in much better conditions than is outside now. We are always looking for donations for the HAMFEST as well so if you have anything or know of anything that we should look at, please contact me at [w1sr@arrl.net](mailto:w1sr@arrl.net). In the meantime, circle your calendar for Saturday, November 9th. This is the date of our HAMFEST at the same location, The Marana Middle School.

73! Get in a cool place and try to operate your radio.  
Steve – W1SR



CARL volunteers introduce school groups and families to amateur radio every day in the Arizona Science Center (ASC). We focus on people, not radios. So don't expect this report to sound like the others in this newsletter.

### CARL Supports "Misfits"

Young people with the technical "knack" often feel like misfits among their peers. The ASC helps them discover they are perfect fits for science, technology, engineering, and math (STEM).

We love to share stories of people's lives improved by radio. This month we bring you the fifth installment of "A Vintage Ham Story," a young boy's tale of discovery.

Last month, young Sam (a fictional character, not me) was disappointed that a bigger CB radio and antenna just funneled more noise into his bedroom. He dreamed of more, but didn't know where to turn. This month he discovers ham radio and finds an Elmer to guide him. So, from CARL's creative writing lab and for your reading pleasure . . .

### A VINTAGE HAM STORY

#### Sam Becomes a Ham

Those Christmas-morning walkie-talkies were a couple years ago. Running around the woods playing "army" with them had lost its appeal as Sam hit the teen years. But radio hadn't.

Sam was a Boy Scout, now. He enjoyed the hikes, camp outs, and woodcraft, but felt no ambition for anything else in the Scouts. That is, until one Monday night Scout meeting.

The Scout Master announced, "Tonight we'll hear about ham radio. A couple older Scouts have gotten their Amateur Radio, or 'ham' licenses. They will show you what they've learned."

Sam thought, "Ham radio? Isn't that just old men sitting in dusty rooms filled with glowing vacuum tubes talking to one another?" That night Sam discovered what ham radio could be for a boy his age.

After he got home, he told his mom about the meeting. "Ham radio is just too complex. You have to know how to build your own radio. And it's WAY too expensive. That's not for me. But it still kind of looked neat."

His mom suggested, "Why not look into it a little before you make up your mind? It may not be what you want. It's certainly different than what you're used to. If you don't like it, you can stick with CB. Don't let the complexity scare you. You're a smart boy, Sam. You can learn anything you set your mind to."

Sam's dad never got him. He berated Sam for not being a chip

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## *CARL Continued from Page 15*

off the ol' block. But Sam's mother got him, and knew that he had his own compass to follow, his own trails to blaze. She recognized that Sam would rather be the captain of his own rowboat than be first mate of his dad's ocean liner. So she encouraged him . . . reminded Sam of his strengths when his trail turned steep. She was a good mom.

So Sam poked his head in when ham radio was discussed at Scout meetings. And he asked questions. He learned that hams – especially new ones – looked down on CB radio users. That elitist attitude didn't impress Sam nor make him any too welcome in those ham conversations. And yet Sam persisted.

Sam's enthusiasm about radio became infectious at school, too. As he learned about ham radio, some of his buddies were swept up in his excitement.

One Monday night Mr. Beam, Sam's Scout Master, announced, "We're going to start a ham radio license class here at the scout hut on Thursday nights. Anyone who wants to learn the material for the license test be here at 7:00 p.m."

Sam spread the word to his friends at school, and several of them jumped at the chance to learn cool electronics stuff and to earn a real ham radio license.

Mr. Beam taught the boys the Morse code. They had to write down a full minute of text sent at five words per minute to pass. And he taught them the electronic theory, the handful of frequencies they could use, the operating procedures, and lots of practical knowledge for the written theory test. The entry-level license was called "Novice," and it allowed new hams to get on the shortwave frequencies with Morse code only. No microphones for Novices.

Finally, Sam had someone to answer his questions about electronics and radio. Sam had tried to teach himself basic electronics. He had built a couple crystal radios to listen to country and rock music without batteries. But he couldn't find anyone to teach him how the parts really worked together. Mr. Beam explained how vacuum tubes and transistors worked, what capacitors, inductors, diodes, and resistors did, how to make an efficient antenna with simple wire, and all the electronics math equations. He introduced the boys to "Eli the Ice man" for inductors and capacitors and a funny mnemonic to remember the resistor color code.

Mr. Beam incentivized the boys with a contest. The first boy to earn his Novice license could borrow Mr. Beam's spare transmitter and receiver. With the head start from his walkie-talkie days and his midnight blinky-light messages, Sam soon passed the Morse test. And with his experience on CB radio and electronic dabbling, much of the technical material made sense, too. So Sam passed the license test first. Just days after his 14th birthday, Sam's license arrived in the mail. It was the most grownup thing he had ever done.

Mr. Beam lent Sam a laundry basket-sized receiver with a puzzle of dials, meters, switches, and knobs. It even had an alarm clock to turn on the receiver and warm up the tubes by the time he got home from school.

*Continued Next Column*

## *CARL Continued from Previous Column*



Mr. Beam also lent Sam a basic transmitter. Sam strung up a wire antenna through the trees and was in business.

Sam made his first sweaty-palm Morse code call. This time, instead of reaching across the street or across the neighborhood, Sam's Morse key reached someone a whole state away. The ham on the other end was patient with Sam's nervous Novice mistakes. During their chat, they exchanged mailing addresses. A few days later, the ham's personalized postcard landed in Sam's mailbox. Sam had successfully made his first ham radio contact!

The Novice's main job was to practice Morse code on the air and increase his speed to pass the General license test at 13 words per minute. A General-class ham could do all the things a Novice couldn't – voice, lots more frequencies including VHF, more power, and lots more freedom. So day after day, night after night, Sam listened through static and howling broadcaster racket to dig out the tiny Morse signals sent to his humble bedroom station. And he got better at it.

### **What's Your Story?**

Tell us your ham radio story. How did you get involved in ham radio? Who taught you the "ropes?" Drop us a line at [w7asc.sked@gmail.com](mailto:w7asc.sked@gmail.com).

### **Volunteer Teachers Welcome!**

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

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

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





### *AOCC Continued from Previous Column*

more. This should be part of your contest arsenal.

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.

### **AOCC accomplishments –**

AOCC Finishes #5 USA in CQWPX (SSB+CW) Contest - Our best finish ever.

AOCC Finishes # 4 W/VE in 2023 ARRL 160 Meter Contest

AOCC Finishes #1 Medium Club in 2023 ARRL 10 Meter Contest for 2nd Straight Year

Please visit our website at [www.arizonaoutlaws.net](http://www.arizonaoutlaws.net). We welcome any radio amateur with an interest in contesting – from cap gun to big gun – to join us.

See [www.arizonaoutlaws.net/joinus.html](http://www.arizonaoutlaws.net/joinus.html) for membership information. We welcome all who wish to join the ham contesting/radiosport world.

Keep posting your scores.

73,  
Mike KC7V

While band conditions and solar flux have remained good, both 10 and 12 meters are suffering from the summer doldrums. The VHF contest in June, especially 6 meters, was not very good. Seems the E season on six has been very nonexistent for us in the desert southwest. 15m and 20m carried the bulk on contest QSO's the past couple of months. The fall contest starts with the WW Digi contest at the end of August and then get ready for the big fall contests. We should see outstanding conditions this contest season.

I need to think about our annual AOCC Roundup. Not sure we will move it or do what we did last year at Ajo Al's. I need to consider this.

On June 1, 2024, we retired the AOCC ladder. We are working on a new program that will begin September 1 this year so we include all the major contests. Our plan is to offer AOCC swag in some manner. I can tell you that participation is rewarded, but more points will be earned based on the number of QSOs you submit for our selected contests. More details will be forthcoming once we get it all figured out.

The same officers from the 2023-2024 AOCC year are reelected for the 2024-2025 AOCC year. I will step down after this year for a break so someone will need to step up. I will provide details on what needs to be done. Steve, KJ5T, is our new webmaster and John, N1JM, stepped up to take over as Secretary/Treasurer.

Led by Chuck, KF7U, AOCC has moved our reflector to [groups.io](http://groups.io). This gives us more features such as attachments. If you are an AOCC member and have not received an invite, reach out to Chuck at [Chuck\\_KF7U@outlook.com](mailto:Chuck_KF7U@outlook.com)

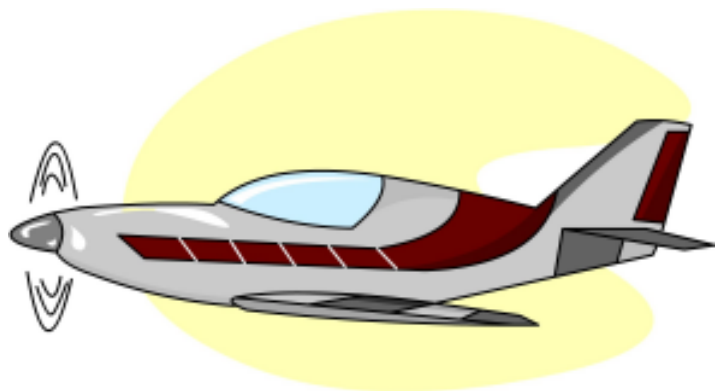
As a reminder, you can find contest dates and links to rules by looking at [www.contestcalendar.com](http://www.contestcalendar.com). You can also check to see what contest dxpeditions will be on for DX contests at <https://www.ng3k.com/>.

### **Contest Tip this month – Propagation Tools**

How do you prep for a contest and plan for band changes? Running a propagation forecast is extremely helpful to determine good times to look at other bands. There are quite a few programs available to research and choose one the works for you. VOACAP, International Beacon Project, Propview (in DXLab Suite), Reverse Beacon Network, HF DXView, DXMaps, PSK Reporter. A google search will find

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**ADAW**



**National Aviation Day  
August 19th**



**NADXA Continued from Previous Column**

Start Date	End Date	Location	Call
2024 Aug15	2024 Sep15	French Polynesia	FO
2024 Aug17	2024 Aug30	Timor Leste	4W
2024 Aug23	2024 Sep30	Tristan da Cunha	ZD9GJ
2024 Aug26	2024 Sep05	St Paul I	CY9C

The NORTHERN ARIZONA DX ASSOCIATION is a DX club and so much more. Our Officers are: President: W7KFT, Lou Arminio – Vice President: NF7E, Bob Wertz – Secretary: KR7RK, Keith Schottman – Treasurer: W7SS, Ken Held. Our monthly meetings are on the first Tuesday of the month, at 6:00 p.m. MST. We use Zoom for our regular meeting and we also have a casual weekly rag chew on ZOOM at 9:00 a.m. every Wednesday where we talk about club projects, equipment, problems, or whatever. Everyone is welcome to attend. E-mail [president@nadxa.com](mailto:president@nadxa.com) for the Zoom links. We would really enjoy having you join us! For more details check out our club website. <https://www.nadxa.com/>

N5J will operate from Jarvis Island. WHAT? Did I say Jarvis Island? This will be the first time in 34 years for them to be activated. Don't miss this opportunity! They are permitted for 12 days of operation but the permit is good for the whole month of August to allow for weather issues. The plan is for operation from Aug 5 – 17. Follow their plans on their web site at <http://jarvisisland2024.com>, and on Facebook.

The Dateline DX Association Says: "Any DXpedition to a protected area is expensive and our external financial need is over \$200,000. We have a boat, approved by the US Fish and Wildlife Service, to safely carry us to and from the Reserve and not cause any harm to Jarvis Island or the surrounding reefs. The budget would easily have been over \$500,000 had it not been for the use of AA7JV's vessel, the Magnet. The \$200,000 is required for fuel, USFWS permit fees, extra crew for the trip, and data services and equipment. Radios are not included in the budget as NCDXF contributed to the design and building of the RIBs. Checks made out to the Dateline DX Association should be sent to:

Dateline DX Association  
 PO BOX 1397  
 Duxbury, MA 02331-1397"



**DX IS**

The 2024 DXpedition season is in full swing making this the perfect time of year to chase down a few of those missing DXCC entities you would like to have. This list is a good first step to finding, working, and confirming many DX stations that will be out there for you in August. You can look them up on QRZ.com, their personal web pages, and their spots on the clusters to find out more about each of them, including what bands, modes, frequencies, times, and even some tips on where and how to confirm contacts. As always, this list is likely to grow. Check for current updates at: <https://www.ng3k.com/misc/adxo.html> Another source for DX information including another calendar can be found at: <https://www.dxmaps.com/dxcalendar.html>. Check it out.



**ARCA and The Flagstaff Hamfest**

Start Date	End Date	Location	Call
2024 Jul20	2024 Aug01	Lord Howe I	VK2
2024 Jul20	2024 Aug04	Greenland	OX
2024 Jul23	2024 Aug01	Malta	9H
2024 Jul24	2024 Aug20	Nicaragua	YN2RP
2024 Jul27	2024 Jul31	South Cook Is	E51
2024 Aug01	2024 Aug04	Scotland	MM0UKI
2024 Aug01	2024 Aug06	South Cook Is	E51
2024 Aug03	2024 Aug09	Botswana	A25UX
2024 Aug03	2024 Aug13	Maldives	8Q7GG
2024 Aug05	2024 Aug17	Palmyra Jarvis Is	N5J
2024 Aug10	2024 Aug17	St Lucia	J6
2024 Aug10	2024 Aug22	St Pierre & Miquelon	TO8FP

NADXA would like to offer a special thanks to the Amateur Radio Council of Arizona for their sponsorship of the Flagstaff Hamfest. This was the second time they sponsored us for our major event of the year. Their contributions helped make this the fun and successful event that it has worked out to be. Our group thanks you for your help and support!

**CONTESTS & SPECIAL EVENTS**

The ARRL is sponsoring some contests for August 2024 so don't miss out on them.

August 3 – 4 222 MHz and Up Distance Contest  
 August 17 – 18 10 GHz & Up – Round 1

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**NADXA Continued from Page 18**

August 18 Rookie Roundup – RTTY

August 24 – 25 EME – 2.3 GHz & Up

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

**From boB’s Corner:**

Starting September 7th, 2024, we will be participating in our 25th year of ROUTE 66 OTA with 3 stations. One will be for Flagstaff stations (W6G) and the other two will be Rovers (W6S & W6T). This 9-day event requires many operators. We would like to invite Arizona Hams to come up and help us as a guest operator at our Rover #2 site that will be located in Parks, Arizona. We have everything needed including three radios (a Kenwood TS590s, K3 Elecraft, and a FT991) in our comm trailer and can operate SSB, CW, and Digital. If you would like to help and prefer to use your radio, bring it along, however it must be set up with Anderson Powerpole connectors. We do have a little room for small campers, but very limited space, so let us know soon if you are interested.

Thanks, and 73  
boB, NF7E  
NADXA Contributing Editor

73 & GUD DX,  
Ron Gerlak, KG7OH  
KG7OH@arrl.net  
Northern Arizona DX Association  
NADXA Editor



**August 20 Club Meeting Returns to Charles K Luster Bldg. on Mesa Drive**

The Charles K Luster Building was still closed in July. It will now be open in August, at last.

The meeting information on Page 3 of ADAW’s Member Clubs can now be counted on because we are beyond the question marks about its status.

We meet in the big room at the end of the hall, except in September, when we will use the smaller room near the entrance door. Visitors are welcome, as always!

The City of Mesa has been refurbishing the building since January of this year.

**SuperFest: Buy Tickets!**

*by Eve W7EVE*

As the temperatures rise in the Valley, so does the excitement for the Superstition ARC Superfest & Electronics show on Saturday, December 7th.

Our grand prizes this year are also hot. Our First Prize is a Yaesu FT-DX10. Prize #2 is a Kenwood TH-D75 Triband digital HT. Prize #3 is a Yaesu FTM-500DR dual-band 50-watt mobile with C4FM (Fusion) and FM.

Tickets are on sale now and can be purchased at: <https://store.superstitionarc.org/superfest?PageId=193830> . Prize winners need not be present to win.

**ARRL Field Day! It was a blast!**

I have Pictures from Lost Eden, and the President’s Corner also has a few words about it. Lost Eden is the thirty acres of trees where our CW station used a Controlled Current Distribution (CCD) antenna to lead the way, setting club records. The phone boys also racked up some hefty scores.

You can read about it in detail on the web site in our July club newsletter, the Communicator.

**President’s Corner**

*by Steve KB7KWK (July edition)*

*{The President’s Corner is now on the website as the Webmaster crew transfers information from our Communicator in PDF to HTML web pages that can be searched. — WB7C}*

Hello, fellow club members. I hope everyone is staying cool. Man, did it get hot overnight or what? A few of us club members cooled off by heading North to Lost Eden for Field Day 2024.

We had lower attendance this year than we have had in the past. I’m not sure why, but those of you who did not go this year



**International Beer Day  
August 2nd**

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### ***Superstition Continued from Page 19***

missed out on some great fun. We broke club records with overall contacts this year.

Brian, W7JET, was operating CW as he usually does, and this year, he had a new club member by his side. Normally, it would be Charlie Brown, but I guess a trip to Hawaii was more important this year. Hi Hi.

We had a lot of new hams and new club members drive up, and a couple of them operated HF for the very first time. One of them was Sheryl. Her call sign escapes me. Sorry, Sheryl, and I hope I am spelling your name right. Eve W7EVE sat down with her and was teaching how to call CQ. You can see a short video on the club Facebook page. At one point all the ladies were there together. They all had a blast.

We had a small raffle, and several of the new members won prizes. What are the odds? How cool was that? We had about 10 people join in on the Fox hunt, and we had a blast wandering around camp trying to find the hidden fox. It was found by our club Treasurer Brian KF7DPC. Of course, he brought along a huge direction-finding antenna. Cheater!!! Ha, just kidding... Brian won an Explorer handheld radio.

Late Saturday night, Hercel KJ7WHS and I teamed up on 40 meters. Meanwhile, Douglas W7ADD and JD KF7VOX teamed up on 20 meters. With rain coming down, we ended up having a little competition between us to see what team could get the most contacts. Hercel and I were getting our butts kicked, but then by 3:00 a.m., we passed them up and ended the night, I mean morning, pulling ahead by 20 contacts. Our total for the night was around 160 contacts. Douglas and JD had around 120 contacts.

The only reason we gave up, other than it was starting to get a little chilly, was because we were getting so tired we almost couldn't talk straight anymore. We were fumbling over trying to call CQ, and K7K was starting to sound like "you puke cake." JD and I have a Field Day tradition of staying up late and getting those last few contacts. However, we switched it up this year. Maybe next year, JD.

Our next big club event [was] our annual Organ Stop Pizza event [on July 13]. Someone asked me what the purpose of this event is. Well for those who do not know, it is mostly just a social event. This is an event we have to get all club members together outside of a meeting to meet everyone and just have a great time. I also give out an award or two to deserving people in the club and recognize others. This year will be more recognition than prizes and awards. The Board got a little upset with me last year for the amount of money I spent on this event. Hi Hi.

*[Editor's note: The following paragraph has been edited to reflect the description of an "upcoming" event now in the history books when this ADAW goes to press. I chose to keep some details about pricing and preregistration for a fuller picture. — Larry WB7C]*

The Organ Stop Pizza event [was on] Saturday, July 13th.

***Continued Next Column***

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

The cost [was] \$10 per person. Drinks [were] extra. Also, [members had] until July 3rd to let us know how many people [the member was] bringing. Guests do not have to be hams or members of the club. We [needed] a count of how many folks [were coming to] have enough food for everyone. This event [was] considered our July meeting. There [would] be no meetings in July other than the Board of Directors meeting.

Starting in August, the club will hold the General club meetings back at the Charles K. Luster building at 640 North Mesa Drive in Mesa.

The meeting will start at 7:00 p.m. and end at 9:00 p.m. We will be in the back meeting room as we always have, except September. In September, we will be in the front room. That is the room to your left as you walk in the door. I hope to see a full room.

73 for now and keep cool.

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

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

The Communicator: Please email

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

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

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

### **Superstition ARC 2024 ARRL Field Day Pictures**

*Photos by Jeff Harris K2DFE.*

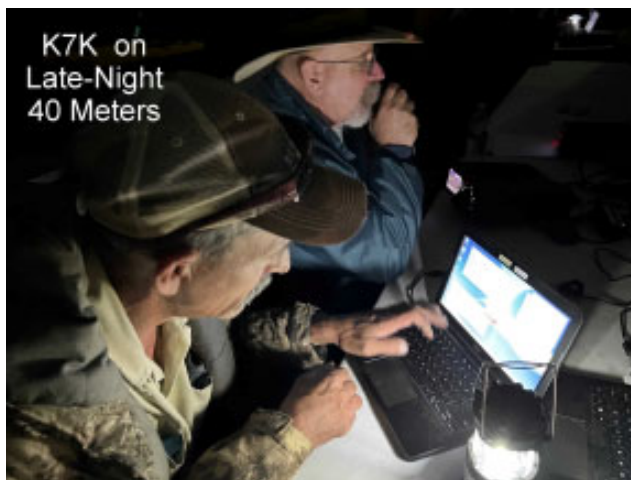
The Superstition ARC ran a 4A-AZ station on 30 acres of private land known as Lost Eden, above the Mogollon Rim.



***Continued on Page 21***



**KB7KWK's Air-Powered Launcher Can Put Antennas High in the Trees!**



**K7K on Late-Night 40 Meters**



**CW uses the CCD Antenna to Rake In The POINTS!**

**Brian W7JET on CW**

**CW Station K7K**



**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.
- 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.



Greetings from the home of the World's Oldest Rodeo! One hundred thirty-seven years of fun, family entertainment, and a week long celebration in Prescott. YARC provided thirty-two radio-equipped volunteer marshals for the 145 entry Rodeo Parade that packed the downtown area for several hours on July 6th. They were responsible for keeping the flow of the parade moving, providing information to the public, making sure the children were found by their lost parents, and watching for any disruptive behavior. They were able to complete the mission despite the heat and the shoulder-to-shoulder crowds that surrounded the Courthouse Plaza. On a non-radio note, YARC also supplies numerous volunteers for the Rodeo to help with parking, ushering, security, bartending, food service, dance tent set-up and take-down, and clean up. It is YARC's way of giving back for use of the facilities for meetings, license classes, and equipment borrowing during the year. YARC members worked numerous hours each day to provide those attending the rodeo with a really good time and the desire to return next year.

This fire season has really taken hold all over the state. It doesn't seem to matter where, forest, desert, highlands, and urban interfaces. One of the tools amateur radio operators have is the radio. Most of our radios have the ability to listen to the Public Safety frequencies used by Federal, State, and Local agencies. Radio social media is much more accurate than some of the stuff that pops up on your phone or tablet. Some of our radios are even capable of transmitting on those frequencies and that is something you do not want to do! It is dangerous to those using the frequencies and it is illegal to do so. Want a big fine and maybe some probation/jail time? To prevent the temptation to or the accidental transmission of, remove the TX frequencies from the radio and just listen. Well-meaning operators have paid a pretty heavy price for their intentional or accidental interference. Just be aware.

Looking for an excuse to get out of the heat? We have a few excuses for you to visit the area. Our temperature highs are about the same as the Valley's lows so outdoor activities are a bit more pleasant. The first Saturday following our YARC monthly meetings (the first Thursday each month), we have our T-Hunts starting at 1:00PM and ending at 3:00PM with a visit to a local eatery to tell tall tales. We have VE testing every month. The even months we test on the first Saturday at 9:00AM at the Jeep Posse Building in Pioneer Park. The odd months we test on the first Tuesday evening at 5:15PM at the

*Continued Next Column*

### *YARC Continued from Previous Column*

Prescott Public Library. We have a Technician Class scheduled for September 7th and 14th and a General Class scheduled for November 2nd and 9th, on Saturdays at 8:30 – 4:00PM. Information and links to register are available on our YARC website, [www.w7yrc.org](http://www.w7yrc.org). Click on the appropriate tab and scroll down to find the links. Public Service events are also listed for September and October which are out in the backcountry, Groom Creek, and Perkinsville areas. A good way to get out and sharpen your radio skills. SOTAs and POTAs abound in the area with summits at 7,000 feet and higher and parks with lakes, creeks and picnic areas to set up in. So, there you go, plenty of excuses to use if needed.

Is your Club or Organization looking to upgrade your repeaters or club station? Looking to upgrade or start a license testing program? Trying to bring more youth and public into the Amateur Radio world? Trying to grow and expand the membership of your club? Looking to integrate emergency communications into your neighborhood? There is money available for you to do any of the above and more! ARRL and ARDC provide avenues to your club to do just that. The grant process is ongoing, very user friendly, set up by categories of need, and not restricted to just one grant per club. Over the last few years we were able to secure a large grant for the YARC Youth Radio Club, purchase electronic gear for online testing, obtain license books for the classes we teach, and our ARES/RACES group just received a grant to replace old radios in the MARC communication van and the two EOCs they have in Yavapai County. So, check out ARDC and ARRL for information, time frames, examples, and templates. Remember, if you don't ask, you don't get!

From Arizona's Central Highlands and the Quad City area, be safe, stay healthy, and even in the heat and monsoon weather, be Radio Active!

73,  
W7YRC

**ADAW**



**National Immunization  
Awareness Month  
August**



**ARA Continued from Previous Column**

The ARA Tech Committee is seeking additional climbers for ARA tower work. If you are interested, please contact Dennis Campbell at [ae7wu@w7ara.org](mailto:ae7wu@w7ara.org)

**Membership**

You can join the ARA to support these open repeaters! Membership is \$20 per year. Membership information is at <https://www.w7ara.org/mbr/Membership.aspx> or send an email to [membership@w7ara.net](mailto:membership@w7ara.net)

ARA UPDATED Repeater Frequency list and Repeater maps

[https://www.w7ara.org/mbk/ARA\\_Frequencies.pdf](https://www.w7ara.org/mbk/ARA_Frequencies.pdf)  
<https://www.w7ara.org/mbk/>

**General Meeting Programs**

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

Follow the link for more meeting details. <https://www.w7ara.org/mtg/Meetings.aspx>

There will be an additional test of the ARA portable repeaters on July 21 in preparation for the Flagstaff to Grand Canyon bike ride ([flag2gc.com](http://flag2gc.com)) August 3rd. The ARA UHF and VHF portable repeaters will need to be used for this event.

If you are interested in participating in a public service event in a cooler elevation, this may be the event for you. Get more information and sign up at [https://mcecg.net/users/events\\_pic.php](https://mcecg.net/users/events_pic.php)

**Tech Committee**

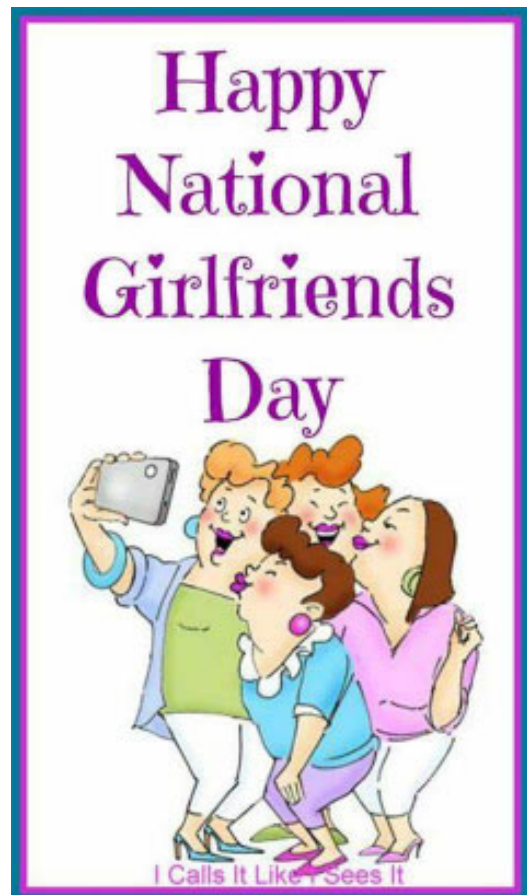
Please report any site problems to the [techcom@w7ara.org](mailto:techcom@w7ara.org).

This month the tech committee received a report of interference to the Wildflower repeater. After investigation it was found someone was crossbanding between the Wildflower and Mingus Rimlink repeaters. The interference problem has been resolved. As a reminder, the ARA does not permit crossbanding on any of its repeaters.

The replacement batteries for Greens Peak, Shaw Butte, and Towers Mountain arrived this month. Site visits will be planned to replace the batteries and address any maintenance issues at the same time.



*Continued Next Column*



**August 1st**



## For Sale / Wanted



**LOOK!  
Great Deals!**

### For Sale

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

Contact Richard Bruns, K7VQ at [d\\_brunz27@yahoo.com](mailto:d_brunz27@yahoo.com)

**For Sale** - From the Estate of Doug Heller, KE7NF

**ICOM 7200 HF/50MHz 100w Transceiver** - Like new condition \$750 obo - [bit.ly/45GoCo4](http://bit.ly/45GoCo4)

**ICOM 7300 HF/50MHz 100w Transceiver** - Like new condition \$900 obo - [bit.ly/4bcJNiv](http://bit.ly/4bcJNiv)

**Palstar Tuner # AT2K** - Like new - \$400 obo - [bit.ly/3zbAHFz](http://bit.ly/3zbAHFz)

**MFJ Intellituner #MFJ998** - Like New \$400 obo [bit.ly/3xrZrZw](http://bit.ly/3xrZrZw)

**Miscellaneous items** for sale at google photos link here: [bit.ly/3zeQNhF](http://bit.ly/3zeQNhF) Make Offer

**All reasonable offers will be considered!**

Contact: Kevin, K9NTZ at 317.523.9909

The **West Valley Amateur Radio Club** has radios and ALL kinds of supplies available for sale through the club. We get some old equipment that won't sell that will be added to the items for free. Contact: George Forsyth, AA7GS - [aa7gs1@gmail.com](mailto:aa7gs1@gmail.com)

### Wanted

Looking for a set of "Spider" antennas. Contact John, K2AOP at [k2aop@arrl.net](mailto:k2aop@arrl.net) or [k2aop.7@gmail.com](mailto:k2aop.7@gmail.com) or by text to 480.991.0124



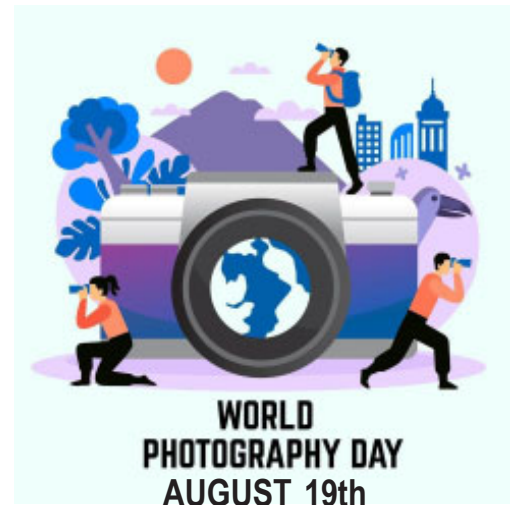
## Public Service Calendar

### Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
FLAG2GC	N of Flagstaff to Grand Canyon	08/03/2024
AEN-MAR Radio Games 2024	Maricopa County Dept of Emergency Management	08/17/2024
Mogollon Monster	Christopher Creek to Pine	09/07/2024
AUXCOMM Class Interest	TBD	12/31/2024
Comt Class Interest	TBD	12/31/2024
RADO Class Interest	TBD	12/31/2024

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



### Help Needed

I am a blind ham with other physical disabilities that are worsening. I am experiencing issues with muscle tremors and decreased hand strength. After an incident over the weekend, it is becoming clear that my ability to maintain my station is in doubt at this point. Issues I need to address involve some antenna work, grounding, and installing a VGS-1 speech board in to my Kenwood TS590SG. I live in Peoria, and I could definitely offer food and maybe some compensation. If you're interested, please contact me directly.

Thanks and 73,  
Darrell Hilliker, NU7I, WAS  
[darrell.hilliker@gmail.com](mailto:darrell.hilliker@gmail.com)

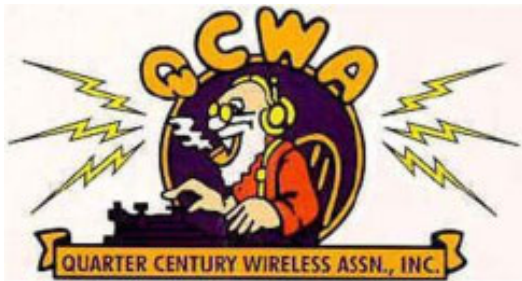


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SHORT SKIP



CHAPTER 16

BARRYM.GOLDWATERARIZONA CHAPTER



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Echolink Node #731289 - K7ARC-R

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

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



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

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



**FTDX10 | HF/50MHz 100 W SDR Transceiver**

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



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

- Stable 100 Watt Output • 32-Bit IF DSP • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control

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

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



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

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



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

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



**FT-5DR C4FM/FM 144/430 MHz Dual Band**

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



**FTDX101D | HF + 6M Transceiver**

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



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

- 80 watts of RF power • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users

**FT-65R | 144/430 MHz Transceiver**

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



**FTM-200DR | C4FM/FM 144/430MHz Dual Band**

- 1200/9600bps APRS® Data Communications • 2" High-Res Full-Color TFT Display • High-Speed Band Scope • Advanced C4FM Digital Mode • Voice Recording Function for TX/RX



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

- All New User Operating Interface-E20-II (Easy to Operate-III) • Robust Speaker Delivers 3W of Clear, Crisp Receive Audio • Detachable Front Panel Can Be Mounted in Multiple Positions • Supports Optional Bluetooth® Wireless Operation Using the SSM-BT10 or a Commercially Available Bluetooth® Headset



- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
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- FAX - All store locations
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