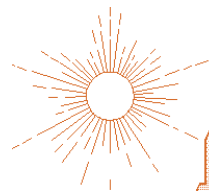


**ADAW**

4529 W. Park Place  
Glendale, AZ 85306-1512



**ADAW**

**Arizona Desert Aire Waves**

**Vol 44, No 10**

**October 2019**

**CLUB MEETING SCHEDULE**

**SARC**

Oct 2nd  
Scottsdale Senior Center  
7:00 PM

**AARC**

Oct 10th  
Red Cross Bldg. - Phx  
7:00 PM

**OPRC**

Dec 11th  
Big Heart Coffee - Tucson  
1:30PM

**TBARC**

Oct 17th  
NAU - N Phoenix Campus  
7:00 PM

**CADXA**

Oct 3rd  
Granite Reef Senior Center  
7:00 PM

**ARA**

Oct 24th  
Denny's Restaurant - Tempe  
7:30 PM

**ARCCC**

TBD  
American Red Cross Bldg  
Phoenix  
9:00 AM

**WVARC**

Oct 7th  
Shephard of the Desert  
Luthern Church  
7:00 PM

**SuperstitionARC**

Oct 15th  
Charles K Luster Bldg  
7:00 PM

**YARC**

Oct 3rd  
Prescott Rodeo Grounds  
7:00 PM

**MARCA**

Oct 15th  
Denny's Restaurant - Tempe  
6:30 PM

**MARA**

Oct 5th  
Maricopa IHOP  
9:00 AM

**ANSR**

Oct 15th  
via GoToMeeting  
7:30 PM

**KARC**

Oct 8th  
Solterra at White Mountains  
6:30 PM

**OVARC**

Oct 18th  
Ascension Luthern Church  
7:00 PM

**CHRC**

Oct 12th  
Barro's Pizza - Chandler  
9:00 AM

**QCWA-AZ Chapter**

Oct 16th/Oct 8th/TBD  
Phoenix/Prescott/Tucson  
9:30AM/10:30AM/TBA

# ADAW Member Clubs

## ARIZONA AMATEUR RADIO CLUB

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

President	Gary Hamman	K7GH	602.996.8148
Vice President	Mark Kesauer	N7KKQ	602.843.0960
Secretary	Reinhard Geissler	K7RGG	
Treasurer	Bob Hodges	K7JJT	602.375.9982
Activities Mgr	Lori Cripps	WA7EDI	602.955.7517
Membership	Bob Hodges	K7JJT	602.375.9982

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

## SCOTTSDALE AMATEUR RADIO CLUB, INC.

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

President	James Wasson	N7ELL	480.456.1154
Vice President	David Yee	N7AJR	
Secretary			
Treasurer	Ed Nickerson	WU7S	480.949.5162
Past President	Paul Finell	W7EFQ	602.741.6563
Board Members	Irv Hembeck	K00TZ	
At-Large	David Yee	N7AJR	
	Bill Kouchis	N9EIV	
	Ray Vasquez	K4RMV	(ARCA Rep)
	Bruce Harmsen	KA9EYX	
	Chris Tabor	K7TAB	

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	bmcleanl@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 North Phoenix Campus of Northern Arizona University located at 15451 N. 28th Avenue (near I-17 and West Greenway Road). The meeting is held in room 147. See the website (<http://w7tbc.org>) for a map and more details.

President	Brian McCarthy	AK7F	president@w7tbc.org
Vice President	Darrell Bradshaw		vicepresident@w7tbc.org
Secretary	Gary Larson		secretary@w7tbc.org
Treasurer	Bob Townsend		treasurer@w7tbc.org
Board Members	Clair Wyant	KG7MAJ	kg7maj@w7tbc.org
	Kenneth Charleton	K4FZH	k4fzh@w7tbc.org
	Nick Holaday	KI7HZQ	ki7hzq@w7tbc.org
	Andrew Cornwall	KF7CCC	kf7ccc@w7tbc.org
Past President	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 32544, Phoenix, AZ 85064-2544.

## OLD PUEBLO RADIO CLUB

The Old Pueblo Radio Club meets the **SECOND WEDNESDAY** of March, June, September and December at 1:30 p.m. at Big Heart Coffee, 4802 E 22nd Street in Tucson. Visitors are welcome.

President	Ron Kalish	N7SPW	520.207.3852
Vice President & Treasurer	George Devich	N9IUK	520.760.0125
Board of Directors:	Jim Ulmer	KC7THU	
	Lin Donnelly	KF7CNR	
WebMaster			

Mailing address: OPRC, P.O. Box 42601, Tucson, AZ 85733-2601. DUES: Individual - \$20.00/YR, Family - \$30.00/YR.

## AZ RED CROSS COMMUNICATIONS CLUB

The Arizona Red Cross Communications Club meets 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	Peter Petrotta	KD7OIW
Vice President	Charlie Zurenko	N2TFS
Secretary	Rob Rodriguez	KI7PDR
Treasurer	Mark Steele	KI7RB
Past President	Frank Engstrom	KB7IQ

Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016.



## 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. Monthly meetings are held in various parts of Arizona. The schedule is as follows:

**Phoenix - Third Wednesday** of each month at 9:30 a.m. at Iron Works Food and Spirits, 17233 N 45th Avenue in Glendale. 602.843.0909. Contact John Marshall at wa7bsr@gmail.com

**Prescott - Second Tuesday** of each month at 10:30 a.m. at Golden Corral, 1901 E AZ-69 in Prescott. 982.776.1664. Contact Don Broadston.

**Tucson** - Seeking volunteer to set up monthly meetings in Tucson.

The AZ Chapter meets on the air every Sunday morning at 0700 MST (0730 during December and January) on 3890 +/- QRM. During December and January, the net time is moved to 0730 MST.

President	John Marshall	WA7BSR	623.334.2583
Vice President			
Secretary			
Treasurer	Dave Hanson	W7BJw7bj@outlook.com	
Webmaster	John Marshall	WA7BSR	623.334.2583

Web Site: <http://azqcwa.org> Email: [azqcwa@gmail.com](mailto:azqcwa@gmail.com).

DUES: \$7.00/year and current national QCWA membership.

### MINGUS MOUNTAIN REPEATER GROUP

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

President	Bob Sitterley	K7POF	928.636.2146
Vice President	Ray Tyrrell	N6MY n6my73@gmail.com	
Treasurer	Bob Sitterley	K7POF	928.636.2146
Secretary	Lori Cripps	WA7EDI	602.955.7517
Board Members:	Phil Hazlett	WA7UID	
	Sonja Hazlett	WB7CWW	
	Peggy Williams	KD7AWU	
	Jerry Roberts	KB7CN	
	Gary Hamman	K7GH	
	Ken Rasback	KK7KEN	

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 p.m. at the Solterra at White Mountains, 5408 W White Mountain Blvd in Show Low.

President	Tim McFadden	K7DXA	
Vice President	Steve Herron	AG7GD	928.242.2558
Secretary	Marie Mortensen	N7SKS	
Treasurer	Dennis Wilkes	W7DRW	928.739.4700

Mailing Address: Kachina Amateur Radio Club, P O Box 2996, Show Low, AZ 85902. Email: [info@kachinaarc.org](mailto:info@kachinaarc.org) Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: [www.kachinaarc.org](http://www.kachinaarc.org)

### ARIZONA REPEATER ASSOCIATION, INC

The Arizona Repeater Association general meeting is held the **FOURTH THURSDAY** of each month at 7:30 p.m. There are no meetings in July and December. The November meeting is held the Monday before Thanksgiving. Meetings are held at Denny's Restaurant, 825 S 48th Street, in Tempe, near SR143 and University Drive. Visitors are welcome. Come early for food and social time before the meeting starts. For further information about the ARA, including repeaters, site status, and the tech/board meeting, please visit our web site at [www.w7ara.org](http://www.w7ara.org).

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

Board Members:

Lance Halle, KW7LH	kw7lh@w7ara.net
Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Doug Pelley, WB7TUJ	wb7tuj@w7ara.net
Joe Godfrey, AE7JG	ae7jg@w7ara.net
Dennis Campbell, AE7WU	ae7wu@w7ara.net
Mike Montalvo, KF7MBK	kf7mbk@w7ara.net
Marty Dusenberry, KE7DGP	ke7dgp@w7ara.net
James Wasson, N7ELL	n7ell@w7ara.net

For Membership Information, contact (Joe Godfrey, AE7JG membership@w7ara.net) Arizona Repeater Association, Inc, P. O. Box 35758, Phoenix, Arizona 85069-5758. To join or renew, please visit <http://w7ara.org/mbr/Membership.aspx>. DUES: \$18.00/yr. (Jan. 1 through Dec. 31) with a one-time initiation fee of \$10.00. Life and family memberships are available.

### SUPERSTITION AMATEUR RADIO CLUB

The Superstition Amateur Radio Club meets the **THIRD TUESDAY** of each month (except December) at 7:00 p.m. at the Charles K Luster Building, 640 N. Mesa Drive (near N. Mesa Drive & E University Dr.) in Mesa. Visitors are encouraged. The Officers and Board of Directors meet the second Tuesday of each month (except December) at 6:30 p.m. at Black Bear Diner, 1809 E. Baseline Road (near Gilbert Rd & E. Baseline Rd.) in Gilbert.

President	Steve Estes	KB7KWK	480.251.0551
Vice President	Andy Keels	KD4ABB	480.622.4000
Secretary	Brent Butler	W7FK	480.332.1141
Treasurer	Douglas Mitchell	W7ADD	480.540.4110
Board Members:	Tony Manzo	W7KLV	480.654.8669
	Dan Karnes	W7TWR	602.502.5259
	Don Rollock	W2EUL w2eul@yahoo.com	
	Jeff Harris	K2DFE	602.617.6930
	Jeff Heinze	N7CCW	480.720.7908
	Jeff Marchesky	K7ZLX	602.628.0238
	Rod Fritzt	WB9KMO	805.722.8804

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277. Web Site: [SuperstitionARC.org](http://SuperstitionARC.org) and [SuperstitionSuperFest.org](http://SuperstitionSuperFest.org). The Superstition Amateur Radio Club is a 501(c)(3) non-profit organization. For club information, please send email to: [Communications@SuperstitionARC.org](mailto:Communications@SuperstitionARC.org).



# 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. at Denny's Restaurant located at 825 S 48th Street in Tempe (SE corner of University & 48th Street). Monthly presentations cover a broad spectrum of interesting subjects. Visitors are welcome to attend. Come early for dinner and socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications.

President	Dave Hall	N7ZPY	
Vice President	Norm Johnson	AA7OO	480.278.2886
Treasurer	Don Aldridge	WA7RLL	
Board Member	David Yee	N7AJR	
Secretary	Open		
Trustee:	Norm Johnson	AA7OO	480.278.2886
Webmaster:	Norm Johnson	AA7OO	480.278.2886

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

## CENTRAL ARIZONA DX ASSOCIATION

The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. (except for January Awards Banquet) at the Granite Reef Senior Center, 1700 N Granite Reef Road in Scottsdale. Visitors always welcome. See [www.cadxa.org/meetings.html](http://www.cadxa.org/meetings.html) for a map. The May meeting is an outdoor barbecue at 6:00 p.m. (reservations required).

President	Larry Loen	WO7R	lwloen@gmail.com
Vice President	Tom Boza	NE7X	qrz-dx@ne7x.com
Secretary	Bob Davies	K7BHM	k7bhm@cox.net
Treasurer	Mike Wright	N7MW	n7mw@aol.com
Past President	Lee Finkel	KY7M	ars-ky7m@gmail.com
Board Members	Fred Hoffert, III	NA2U	cwman1@aol.com
At-Large	Reinhard Geissler	K7RGG	dl1uf@compuserve.com

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: [cadxa@cox.net](mailto:cadxa@cox.net). Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: [www.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	Bill Noe	WG7W	president@w7yrc.org
Vice-President	Joe Thomas	KG6IDN	vice_president@w7yrc.org
Secretary	Tim Norton	K7PVY	secretary@w7yrc.org
Treasurer	Sam Prather	K7SCP	treasurer@w7yrc.org
Board Members	Kathy Laing	KJ6KMK	kj6kmk.yarc@gmail.com
	Sandy Meadowcroft	KF4JHC	sandymeado2@yahoo.com
	Ray Kolman	KI7COM	spudzman@gmail.com
	Dave Erlach	W7VVSX	rocketdog@dslextre.com
	Mike Reid	N7IEP	mdr126@gmail.com

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

## ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at Ascension Lutheran Church located at 1220 W Magee Road in Tucson. (December is annual Christmas Party). Visitors are VERY welcome. Board Meetings are held at 9:00 a.m. at the Ascension Lutheran Church located at 1220 W Magee Road in Tucson. Check the web site at [www.tucsonhamradio.org](http://www.tucsonhamradio.org) for dates.

President	Steve Wood, W1SR	W1SR@arrl.net
Vice-President	Mike Peterson K7VTT	azmacguru@gmail.com
Secretary	Carl Foster KB7AZ	carlfoster@cactuscomm.net
Treasurer	Hanna Eckert, KG7TPD	haneck@aol.com
Board Members	Fred Bresani W2HZ	
	Ross Eckert K4WBR	
	Gary Pierce AE7GP	
	Marnee Dearman KG7SIO	
	Tom Ambler W7TRA	

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/>.

## MARICOPA AMATEUR RADIO ASSOCIATION

The Maricopa Amateur Radio Association (MARA) meets the **FIRST SATURDAY** of each month at 9:00 a.m. at Maricopa PD Community Room, 17985 N Greythorn Dr. in Maricopa.

President	Curt Steger	NA7CS	president@copahams.org
Vice President	Wayne Kropp	KI7SPW	vicepresident@copahams.org
Secretary	Bob Proctor	N6YPE	secretary@copahams.org
Treasurer	George Hogan	K7TGH	treasurer@copahams.org
PIO:	Steve Miller	W6SDM	pio@copahams.org
Webmaster:	David French	N7FAN	david@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





## ADAW Member Clubs

### CENTER FOR AMATEUR RADIO LEARNING

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

President	Jack Landon	KD7ROB	480.759.5195
Vice President	Jim Felkey	N7BBS	480.966.7084
Sec./Scheduling	Sam Marshall	N7INV	602.291.0992
Treasurer	Karen McConaghy	NO7D	602.799.7338
Board Members:			
	Jean Jolkovski W4CIH	ADAW, Publicity	
	Steve Warford WB4ZSC	Tech/IT, CARL/ASC Interface	
	Tom Salt AD7PM	At Large	
	John O'Neal K7JP	Teacher Packets	
	Bob Burleson KG7QJ	Trustee/President Emeritus	
	Robert Faerber W9AQ	Log Book	
	Ronald Taylor WA7GIL	At Large	
	Scott Gillins W2KP	At Large	

Direct Phone: 602.716.2082

Web Site: <http://www.w7asc.org> Web Master - Allyson Lee

For information: Email to [carl@w7asc.org](mailto:carl@w7asc.org) or call Jack, KD7ROB at 480.759.5195.

### AMATEUR TELEVISION NETWORK

The Amateur Television Network (ATN) is a group of radio amateurs that promote audio and video operation on linked repeaters and on mesh networks. We hold regular meetings are held each year in January and July, and typically have monthly social events. Refer to our [www.atn-tv.org](http://www.atn-tv.org) website for details. Watch our nets on Wednesday and Sunday at 7:00 PM Arizona time and Tuesday at 7:30 PM Pacific time. Browse [YouTube.com](http://YouTube.com) and search for [W6ATN LIVE](#) or [W7ATN-MESA LIVE](#). Alternately, browse to [BATC.TV](#) and select Repeater and [W6ATN](#), [W7ATN](#), or [W7ATN-MESA](#). Send your live video on the Internet at [whereby.com/amateurtvnetwork](http://whereby.com/amateurtvnetwork) or on amateur radio ATV or FM.

ATV Repeater Inputs: 434 MHz AM/DVB-T and 2441.5 MHz FM  
 ATV Repeater Outputs: 1253.25 and 5910 MHz (Phoenix and Orange County), 1277.25 MHz (Tucson), 1289.25 MHz (Mesa and Santa Barbara), and 3380 MHz (Ventura County)

FM Repeater Outputs: 448.400 MHz, PL 100.0 (White Tanks), 445.225 MHz, PL 103.5 (Mt Lemmon), 447.175 MHz, PL 100.0/C4FM (Mesa), and 1286.15, 223.82, and 146.43 MHz (CA)

President	Ed Olague	K5OLA	602.885.7725
Vice President	Rod Fritz	WB9KMO	805.772.8804
Sec./Treasurer	Lee Weitzel	KOCCU	602.439.4840
Repeater Trustee	Kevin Jacobson	AD7OI	760.898.4601
Webmaster	Roland Hoffman	KC6JPG	562.577.1381

ATN-AZ, 4134 W. Danbury Dr. Glendale, AZ 85308. Membership dues are \$75 annually. For more information about our meetings, membership, repeaters and club activities, please see our website <http://ATN-TV.org>

### 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 at 11115 W Nevada Avenue in Youngtown at 10:00 AM the third Tuesday of the month in June through September and at 2:00 PM October through May. A weekly breakfast is held on Thursdays at Lou's Tivoli Gardens, 12535 W Bell Rd at 7:00 AM. Club nets are held on 147.300 (tone 162.2) at 9:00 AM daily and Monday - Thursday at 8:00 PM. Please check our website (below) for other events and information.

President	Pat Regan	KD7TFD	623.341.7613
Vice-President	Dick Stout	KE7RD	623.815.0985
Secretary	Gloria Putman	KI7SQV	623.238.9963
Treasurer	Alven Brite	N7GVF	623.979.5944
Board Member:	Gary Franklin	K8BKB	269.501.3898
	Joe Fitzgerald	KV2H	623.784.9940
	David Putman	W7DCP	253.307.0544
	Bob Shoemaker	KG6EJW	858.598.7972
Past President	Gary Robin	K6HDU	623.234.2252
Committees:			
Membership	Jim Rogers	N7YTI	623.214.9219
Technical Advisory	Gary Franklin	K8BKB	269.501.3898
Equip Donations & Sales			
	Gary Franklin	K8BKB	269.501.3898

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 meets **EVERY MONDAY** from October through April each year at 10:00 a.m. at the Greenfield Village RV Resort located at 99 South Quinn Circle in Mesa. Meetings are held in a gated community. For access, please contact Jerry Davis, K7AZJ at [k7azj@arrl.net](mailto:k7azj@arrl.net).

President	Jerry Davis	K7AZJ	k7azj@arrl.net
Vice President	Sue Rodgers	W7SKH	happyham7777@gmail.com
Secretary	Chuck Rodgers	W7CBR	rogers_charles@hotmail.com
Treasurer	Cliff Bean	AE7VZ	klyffone@gmail.com

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

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

## ADAW Member Clubs

### CHANDLER HAM RADIO CLUB

The Chandler HAM Radio Club (call sign N7CHN) meets the **SECONDSATURDAY** of each month at 9:00 AM at Barro's Pizza located at 1880 S Alma School Road in Chandler. Visitors are welcome. Check the web site at [chandlerhams.org](http://chandlerhams.org) for dates. Weekly net is held every Thursday at 8:00 PM on 442.550+ PL100.

President	Gary Laatsch	KI7PBR	<a href="mailto:president@chandlerhams.org">president@chandlerhams.org</a>
Vice President	Norm Fasoletos	K7NWF	<a href="mailto:vicepresident@chandlerhams.org">vicepresident@chandlerhams.org</a>
Secretary	Lisa Allen	KJ7DJR	<a href="mailto:secretary@chandlerhams.org">secretary@chandlerhams.org</a>
Treasurer (acting)	Gary Laatsch	KI7PBR	<a href="mailto:treasurer@chandlerhams.org">treasurer@chandlerhams.org</a>
Web Master	Lisa Allen	KJ7DJR	<a href="mailto:webmaster@chandlerhams.org">webmaster@chandlerhams.org</a>

No dues at current time. Web Page: <http://chandlerhams.org>.



The *Arizona Desert Aire Waves* is published monthly and is the official news media of the sponsoring 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 sponsoring clubs. Full permission is granted to quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED. **Deadline is 10th of the month**



## Announcing the Laurel VE Team, WM-VET, Test Session

The Laurel VE Team, WM-VET, will be conducting testing on 5 October 2019 at 9:00 AM at Solterra Senior Living located at 5408 Arizona Highway 260 in Lakeside, Arizona. Walk-Ins are permitted, however, pre-registration is preferred. You can email the team at [VEtesting@cablone.net](mailto:VEtesting@cablone.net) to pre-register. Please include your name (the exact name used to create your FRN, if you have an FRN), license call (if you have one), and which license exam you wish to take. An acknowledgement will be emailed back to you.

At the test session, the following will be required: A government issued photo ID, your FCC Registration Number (FRN) if you have one **OR** your social security number, the original and a copy of any passed exam element credit (CSCE), and a copy of your current license if upgrading.

The test session begins at 9:00 AM.

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The Sunlife ARC has returned to its winter schedule and once again meets every Monday morning at 10:00am during the winter season. We're located in the Greenfield Village RV Park in East Mesa from the first Monday in October until the last Monday in April.

Our meetings feature presentations on various amateur radio activities including Quartzfest, Dayton Hamvention, AMSAT, operating 60m triband, Collins Radio during WWII, digital modes, radio homebrews and loads of other topics. Earlier in the season, Gordon West came in and made a presentation and in March, a number of our members completed a road trip to the Titan Missile Museum in Sahuarita where they hooked up to the museum's discone antenna for some great QSOs.



*Photo from one of our combined summer meetings with VOARC*

We partner with Venture Out Amateur Radio Club for many of our activities and have a combined Christmas party, a snowbird field day, fox hunts, amateur radio examination training and during the summer months we stay active by sharing their Saturday morning meetings. We work well together and are grateful that the Venture Out ARC makes up for our shortcomings.

In addition, we have Amateur Radio in the Park every Thursday morning, located in East Mesa, off Power and Brown at Red Mountain Park. We meet in one of the shelters in the West parking area. This occurs during both the summer

MMRG has several new members since the last ADAW. They are:

KJ7HZA, Robbin McCoy (Bob K7POF's Daughter) of Sun City West, AZ

KI7YNN, Ron King of Prescott, AZ

KT7P, John Snedden of Prescott, AZ

KM6AYP, Doug Hall of Prescott Valley, AZ and

KM6AYH, Jeannie Hall KM6AYH of Prescott Valley, AZ

Welcome and thanks for your support.

The 442.150 MMRG repeater on Mingus Mountain now has Yaesu Fusion digital on it. Digital in - digital out, analog FM in - analog FM out. PL on FM 100 Hz - CTCSS on FM 100 Hz.

73 Bob K7POF MMRG



**SunLife Continued from Previous Column**

and the winter. The time varies, but people are generally showing up by 7:00am.

A group of Hams from our club meet on Thursday afternoons at the Red Mountain Library throughout the year and are currently meeting at 1:00 in the Roadrunner room of the library. This meeting is for those interested in all things ancillary to amateur radio such as Raspberry Pi, Arduino, 3D Printing and whatever else crops up. Anyone is welcome to attend.

Nets:

20 Meter Net: Monday, Wednesday & Friday, 14.329 Mhz SSB 12:30pm / 11:30am during daylight savings time.

10 Meter Net: Tuesday and Thursday, 7:00pm / 8:00am during daylight savings time. 28.329 Mhz, SSB. Check in using Echolink Node, W7ASL-L Nick, AA7QK, provides this service and will assist you.

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

Our meetings are held in a gated community and if you would like directions and access, please contact Jerry Davis, K7AZJ at [k7azj@arrl.net](mailto:k7azj@arrl.net). If you choose to become a club member, our annual dues are \$10.00. Our website address is <https://www.sunlifearc.org/>

**Continued Next Column**





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

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

Quiz results: We had rapid-fire results from the September Civil War quiz. Your awards committee spent many hours comparing the responses, but we can now announce a winner. The ADAW readership is certainly well informed. The Quiz authors learned a few details that were not considered when the Quiz was created. But here is where things stand.

The first response came from Ron WA7GIL. His entry came in within microseconds of the ADAW release. Ron’s answer was agonizing close to perfection. He provided some obscure details that, while fascinating, were not dead center. That honor goes to Joe N2QOJ who correctly, and completely, told us that Samuel Morse, who invented the eponymous Morse code, once a requirement for a Ham license, who also ran a photography school and had Brady, the famous civil war photographer, as a student. Joe had one small glitch in his entry. Morse had two middle initials, Joe! He is Samuel F. B. Morse. Thanks to all of the contestants, and we hope to hear Joe on the air. Your Quiz committee will take a break from quizzing for now.

Summer is over and schools are back in session. The Shack kept busy during the summer as we were visited by youngsters who attended camps. The Science Center (ASC) was, as usual, a popular destination for those groups.

The volunteers at W7ASC continue to innovate, using the station to explain that radio communications are grounded in Science and Technology. Even Morse code, that our visitors learn, was used on the telegraph, the first use of electricity for communication. The word “telegraph” translates as writing at a distance. When a visitor sends their name in Morse code to earn a certificate and a badge, they are learning about the origins of electric communication technology & better understand some rudiments of the coding process.

School groups are often accompanied by a teacher. The volunteers on duty at the time attempt to engage that teacher in conversation by pointing out that the Shack and its gear is

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

there to demonstrate applied science. Groups that visit the ASC are time-limited making it difficult to engage in lengthy discussions or demonstrations. In order that those teachers can leave with useful information to prepare for their next visit, John K7JP, a retired teacher himself as well as an ASC volunteer, has created a packet of classroom-oriented material. This packet contains materials designed to extend the Shack experience back to the classroom. This packet has over time become very popular. Teachers who have heard about this packet stop at the Shack and request their own copy. John stays busy producing these packets as they tend to fly out the door in increasing numbers. A photo of K7JP is included here, though John’s is a familiar face for those who visit the Shack.

If you enjoy talking science and Ham radio with people of all ages, consider volunteering at W7ASC. For details, visit, or call, the Shack. The direct number is 602-716-2082. W7ASC is on air during most normal ASC hours of operation. Look for us on local repeaters such as ARA and EAARS. Your humble scribe would also welcome your calls at 480-664-7353 or 703-981-2846.

Have an item that you would like to contribute to this newsletter? Send it for consideration to [jeanjol@hotmail.com](mailto:jeanjol@hotmail.com).

73 de W4CIH Jean



**ADAW**

*Continued Next Column*





## "The FOX Hunt"

It's been a long time since I've been hunting the fox. It was back in the late '80's the last time I was involved in a Fox Hunt. I had a '87 Toyota back then and was involved with the "PART" . . . ham radio club . . . Police Amateur Radio Club. When the topic of a Fox hunt came up at a meeting, 60 members got involved and a date was set. I don't remember how or when or who had a Yagi antenna to fox hunt, but some of the members were in previous hunts in the past with other clubs.

I did not have a 2-meter band Yagi, but I did have my new Kenwood TS-215A HT radio. I had a 2-meter vertical on the roof of the truck and worked whoever call WB1GBX, my original call, and I would rag chew with them. I was excited because I did my homework and I built a 2-meter Yagi from my copy of the ARRL hand book and mounted it on top of my Toyota truck roof. I don't remember the length of the Yagi, but it looked ominous sitting up there pointing in the direction the truck was going warning anyone around to step back because we were coming. There were 60 or so cars and trucks in the parking lot when the Captain of the Fox Hunt left 15 minutes before we heard him announce that in 15 minutes at 5 minute intervals, the Fox Hunt would begin. He said each clue would last for 15 seconds and when we heard a horn over the radio sound off, that meant the start of the Fox hunt.

When the horn sounded, 60 cars and trucks with the most God awful antenna designs went out of the parking lot, screeching of tires, dust and determination! I knew exactly where the Fox was hiding. I had the best Yagi antenna. I went down over the hill out of town and drove a couple of miles closer to the hiding of the fox and parked the truck. The next 15 second clue was given. I'm in the back of the pick-up and turning the antenna toward where I thought the fox was hiding.

I made four more adjustments and decided I wasn't getting closer, in fact, I was going the wrong way away from the Fox. So much for my intellect of the 15 second clues, I turned the truck around and drove right to the Fox. I came in 4th that day and got an award for my effort.

It was a fun thing to do. I did it with my home built Yagi antenna without a meter to detect the signal strength to tell me if I was getting closer or going further away. In the end of 60 plus Hams participating . . . coming in 4th ain't bad for a Tech.

Don - WQ1E  
Member Chandler HAM Radio Club



## CHAPTER 16 BARRY M. GOLDWATER ARIZONA CHAPTER

Amateurs in Arizona with twenty five years of experience are invited to join the QCWA. There are monthly meetings in various parts of Arizona

### Phoenix, AZ

Third Wednesday of each month at 9:30 AM  
Iron Works Food and Spirits  
17233 N 45<sup>th</sup> Ave.  
Glendale, AZ 85308  
602-843-0909  
Contact: John L Marshall  
WA7BSR@gmail.com

### Prescott, AZ

Second Tuesday of the month at 10.30 AM  
Golden Corral  
1901 E AZ-69  
Prescott, AZ 86302  
928-776-1664  
Contact: Don Broadston

### Tucson, AZ

We need a volunteer to set up monthly meetings in Tucson.

Officers are:

(All officer positions are open for volunteers.)

President: John Marshall WA7BSR 623-334-2583

Vice President: Open

Secretary: Open

Treasurer: Dave Hanson [W7BJw7bj@outlook.com](mailto:W7BJw7bj@outlook.com)

Webmaster: John Marshall WA7BSR [WA7BSR@gmail.com](mailto:WA7BSR@gmail.com)

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





The AARC had its regular meeting on September 12. After the usual opening and reports, the Activities Manager, Lori Cripps, WA7EDI, talked about the 19th annual “Caliche Caper,” held in Chino Valley on Saturday, September 14 at the home of AARC member and MMRG President Bob Sitterley, K7POF. He invited club members to drive up there for the potluck that has been a lot of fun over the years.

She also mentioned that the current ARRL Letter announced the passing of Larry Price, W4RA, who acted eight years as ARRL President and ten years as IARU President as well as many years as Secretary and Director of the ARRL Foundation, which he was instrumental in launching. Lori also pointed out that the FCC is soliciting comments on a Notice of Proposed Rulemaking that recommends to make all filings to the Universal Licensing System (ULS) electronic in the future. Steve Tolnai, W7WSV, added that hams that were involved with the Hurricane Watch Net set a new record for total hours of activation during the recent Dorian hurricane and Charlie Zurenko, N2TFS, commented that digital traffic was used more than ever before. He also mentioned that FEMA activated channel #2 on 60 meters

Ingrid Geissler, W7ISG, participated in the Hiram Percy Maxim Birthday Celebration contest that ended on Sunday, September 8. She was able to log 1,084 QSOs, mostly on 40 and 20 meters SSB, and that she worked 80 ARRL sections as multipliers. She added that she worked all the states, but could not get Alaska in the log on 40. The ARRL contest robot calculated her score as 102,930 points.

Regarding Red Cross activities, Charlie Zurenko, N2TFS, mentioned that there was a recent planned power outage and that the W7IO-R Echolink with W7UXZ repeater was used successfully during the outage. He said that regarding hurricane Dorian, Roger Bram, KEØBQQ, was deployed to Florida. Mark Steel, KI7RB, talked about testing on 160 meters and that Peter Petrotta, KD7OIW, installed a trap-dipole and had a successful contact on that band with W7LUX in Flagstaff. Both Charlie Zurenko, N2TFS, and Mark Steel, KI7RB, will travel to New Mexico on Wednesday to install transceivers in Albuquerque, Santa Fe, Las Cruces and El Paso. Mark mentioned that the RCCC plans to sell some excess equipment at Copafest to raise funds for antennas.

The evening’s program was given by Gary Hamman,

The Yavapai ARC welcomes visitors, both licensed and interested in ham radio. Come join us for one of our regular club meetings. We meet on the first Thursday of every (almost) month, in the Freeman Building on the Prescott Rodeo grounds. Meeting times are 7:00 PM with people showing up to visit about 6:00 PM.

YARC is one of the largest and most active amateur radio clubs in the southwest. Our home is in beautiful Prescott, Arizona, where we have the summertime benefit of our 5000-foot altitude. We are an ARRL Special Service club. The designation reflects our active public and community service efforts. YARC currently provides support communications for 13 community events in the greater Prescott area. Coming up is the Groom Creek Classic (Sept 21) and the Man/Horse Race (Oct 5). Unfortunately, the Prescott Road Rally has been cancelled this year. Our calendar is full.

The Prescott Hamfest celebrated its third year this June and is growing each year. Currently we are seeking a new venue that can accommodate our growing event.

YARC tries not to forget our new members and those wishing to upgrade their licenses. On October 19 and 26 we have scheduled a two-day Technician class. Our instructors have had a very good record of turning out new licensees, so if you know anyone in the central Arizona area who wants to get that first ticket, here is the chance.

More information can be found on our club website [www.w7yrc.org](http://www.w7yrc.org). Testing for all classes of amateur license will be held on September 21 and November 16, 2019. Pre-registration is strongly recommended for testing, and is easily done on our website. Test sessions for 2020 have not yet been confirmed.

So, come on up, down or over to Prescott, and pop in for a visit or join us. The Yavapai Amateur Radio Club is here to serve.

**ADAW**

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***AARC Continued from Previous Column***

K7GH, about various issues regarding Transmission Lines, Smith Charts and Antenna Modeling with the popular EZNEC program.

Come join us at the next club meeting on October 10.

—Lori Cripps, WA7EDI

*Continued Next Column*



What is your interest in Amateur Radio? We want to hear from you. The ARA is working on planning for the future. Emergency and Disaster Communications and public service are part of the planning. What technology is catching your interest? The organization has a committee investigating if the ARA should be researching or investing into other technologies. I have talked to various members and got, as you would expect, varying opinions on the topic. We would like to know your thoughts on our future technologies for the ARA. Please email your thoughts or ideas to [president@w7ara.net](mailto:president@w7ara.net) and I will forward to the committee. Members can join the committee and can request through an email.

The new bylaws are out for membership review. You can log into the Website (<https://w7ara.org/Rcm/By-Laws.aspx>). The membership adoption of these bylaws will be on this year's ballot. If you have any questions, please email [membership@w7ara.net](mailto:membership@w7ara.net).

Public Service can use your help. Please sign up at [mcecg.net](http://mcecg.net).

If you haven't stopped by a meeting, please join us on the 4th Thursday of the month at 1930. We meet at the Denny's at 48th St and University. Join us early for dinner and exciting conversations.

73,  
Brian McCarthy, AK7F



The Kachina Amateur Radio Club regularly meets the second Tuesday of each month at Solterra in the White Mountains, 5408 W. White Mountain Blvd., in Show Low. The October meeting will feature another excellent presentation following the short business meeting. Specific details will be available on our club website: [kachinaARC.org](http://kachinaARC.org).

Our recurring calendar events are: We meet the second Saturday of each month at 9:00 a.m. for donuts at Basha's in Taylor, AZ. We also meet the 3rd Saturday of each month for breakfast, at Sal and Teresa's Mexican Restaurant on Deuce of Clubs in Show Low. We enjoy sharing our common interests in eating delicious food and having fun together!

Mailing Address: Kachina Amateur Radio Club, P O Box 2996, Show Low, AZ 85902. Email: [info@kachinaARC.org](mailto:info@kachinaARC.org) Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: [www.kachinaARC.org](http://www.kachinaARC.org)

Submitted by Lydiann McFadden



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## Hamfest Calendar

5 October 2019 - **Tonto ARA Hamfest** - hosted by the Tonto Amateur Radio Association will be held at Rumsey Park, Ramada #4, 400 N McLane Road in Payson. Hours 9:00 AM - 12:00 Noon. Tailgating is \$5.00 and Vendors are \$5.00 per table. Admission is Free. A Potluck/BBQ Will Follow - Bring Your Own Meat & Something to Share. A Hot Grill and Condiments will be Provided. Everyone is Invited! To Pre-Register or for Additional Information Call or Email: Bruce Johnson, N7DDT at 928.474.4154 - [stretch8@q.com](mailto:stretch8@q.com)

26 October 2019 - **Copafest 2019** - hosted by the Maricopa Amateur Radio Association will be held at the UltraStar at Ak-Chin Circle, 16000 N Maricopa Road in Maricopa. Hours are 7:00 AM until 1:00 PM. Admission Donation is \$5.00 per person. Spaces are \$10.00 for two parking spaces. Setup begins at 5:00 AM. Balloon Launch, VE Testing, Card Checking, Vendor Exhibits, Seminars, Prizes and more. Many activities available in the Multitainment Center including laser tag, bowling, movies, games, dining and more. Dining and Hotel also available. For information, email [fest@copafest.org](mailto:fest@copafest.org) or visit the website at [www.copafest.org](http://www.copafest.org).

2 November 2019 - **HARKfest** - hosted by the Hassayampa Amateur Radio Klub will be held at North Ranch Escapees RV Park, 30625 S Hwy 89 in Congress. ARRL Card Checking, Free Admission, Free Tailgate Sites (Pre-Registration is Required. Email: [bridges.slt@gmail.com](mailto:bridges.slt@gmail.com)) Overnight Camping (Full Hook-Up or Dry) is Available (Pre-Registration is required for camping [northranch@escapees.com](mailto:northranch@escapees.com)) Tailgating permitted at campsite. Free VE Testing via LARC VE testing - Must Pre-register via email to [cecarter39@yahoo.com](mailto:cecarter39@yahoo.com) - Prizes - Arts & Crafts Show at the Activity Center 9:00 AM - 2:00 PM. Lunch will be served at the Activity Center. Talk-In 146.620 (pl 162.2) or 146.580 (simplex) Visit the web site at [harkaz.org](http://harkaz.org) for up-to-date information. Questions? Email Duane Grooms, KD0KYK at [djgrooms@yahoo.com](mailto:djgrooms@yahoo.com)

9 November 2019 - **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. Gates open at 7:00 AM, closes at 1:00 PM. Admission is \$5.00 which includes a bottle of water. Children under 12 with a paid adult and students with any Arizona school ID are free. Sellers spaces are \$10.00 per space and includes seller's admission. Indoor VE Session with pre-registration preferred, but not required. Send an email to pre-register (email [licensing@tucsonhamradio.org](mailto:licensing@tucsonhamradio.org)). Interesting Seminars - ARRL Card Checking and LOTW Assistance at ARRL Booth - Food Truck for Breakfast and Lunch. Contact [hamfest@tucsonhamradio.org](mailto:hamfest@tucsonhamradio.org) for more information. Visit the website at [www.tucsonhamradio.org](http://www.tucsonhamradio.org).

7 December 2019 - **Superstition Superfest** - hosted by the Supersition Amateur Radio Club will be held at Mesa Community College, 1833 W Southern Ave in Mesa. Hours are 8:00 AM - 4:00 PM. Admission is \$5.00/person (includes 1 door prize ticket) and children 12 and under free. Tailgate is \$10.00 for 2 spaces which includes 2 paid admissions tickets. VE Testing will be available. Registration is from 8:00 to 9:00 AM with testing beginning at 9:00 AM. ARRL Card Checking, Special Event Station, GOTA Station, Fox Hunt, Prizes, Live Music, and Food Vendor will be available. Contact the Hamfest Chairman at [chairman@superstitutionsuperfest.org](mailto:chairman@superstitutionsuperfest.org) for more information.

11 January 2020 - **Thunderbird Hamfest 2020** - hosted by the Thunderbird Amateur Radio Club will be held at Glendale Nazarene Church, 5902 W Cactus Road in Glendale. Hours are 8:00 AM until Noon. Vendor set up after 5:00 PM Friday, January 10 and Saturday, January 11 after 6:00 AM. General Admission - \$5.00 per person includes one door prize ticket. Kids under 12 are free. Grand Prizes, Hourly Prizes, Seminars, ARRL QSL Card Checking, Snacks and Beverages Available. Laurel VE Testing from 10:00 AM until 11:00 AM. For latest information, check the website at <http://www.tbirdfest.org>. Questions? Email [hamfest@w7tbc.org](mailto:hamfest@w7tbc.org).

28 March 2020 - **Tucson Spring Hamfest** - hosted by the Radio Society of Tucson. Watch for Details

26 September 2020 - **Tucson Fall Hamfest** - hosted by the Radio Society of Tucson. Watch for Details.





### *TBARC Continued from Previous Column*

the Honor Health Medical Office Building, Room 400, 19841 N 27th Ave in Phoenix from 9:00 to noon (roughly). Thanks to Ken NX7B for wrangling the necessary instructors and testers - and leaping in himself as well.

\* Come out for breakfast!

If you listen to the net, you already know about the Saturday morning breakfast meeting at the Denny's at the corner of I-17 and West Bell Road. If you don't, you should! People start showing up there at before 7:00 a.m., and by 7:20 breakfast is in full swing. This isn't as formal as the general meetings - no business portion, just a get together with other hams who like to talk about what they've got going on. Perhaps that's you? If so, see you there!

\* Hamfest call for presenters

We are still hunting around for seminar presenters for our hamfest. Right now we have a few, but we've been offered additional rooms if we can fill them. Do you know a lot about a topic? Can you speak about it enthusiastically for 45-55 minutes? Send a brief abstract about your topic to hamfest@w7tbc.org and we'll work to get you on the program.

\* October General Meeting

Have you been to a TBARC meeting yet? Why not stop by? We'd love to have you join us, and guests are welcome. Our meetings are held on the third Thursday of the month at the North Phoenix Campus of Northern Arizona University. It's near Greenway and I-17, starting at around 7:00 p.m. See the club website at w7tbc.org for directions. October's presentation will be "EmComm and Public Service" by the ARES DEC, Michael Drapkin WB2SEF. How do you get involved in volunteering for emergency communications? What sort of experience do you need? What happens if there's a disaster and you just show up? Join us and find out!

Andrew Cornwall KF7CCC  
kf7ccc@arrl.net



\* Arizona QSO Party

It's coming up quickly and will soon (as of October 12) be upon us. Have you made plans yet for the Arizona QSO Party? The Thunderbird Amateur Radio Club once again plans to put in a good showing from Jack's Cabin up the mountain in Flagstaff.

So what is a state QSO party anyway? It's when operators outside a state try to make as many contacts with operators in-state as possible, and vice versa. It's lower key than Field Day, but still along the same lines - come up to Flagstaff work HF, or find out if a General license is right for you. There will be plenty of experienced operators on hand to show you the ropes. Get in touch with Darrell Bradshaw KE7T for more info.

\* Repeater link radio status

What's that status of our repeaters? On White Tanks, our link antenna is in place, and the feedline is in place. We've acquired and tuned the duplexer, and of course have radios in place and tuned. We need to complete the controller interface and finish programming.

For the hospitals, we have the link radios, but still need to do site surveys. After that we'll know what sort of antenna and controller installation will be needed at each hospital. Are you interested in learning about repeaters? Get in touch with the tech committee and offer to help out. They're looking for enthusiasm of the sort you have!

\* What's that noise on the repeaters?

If you've been listening to the repeaters late at night, you might have heard some sounds that don't exactly sound like voice going over the air. Joe AD0X is leading some experiments in sending digital modes over the repeater system. Because of the outstanding fidelity, it's often easier over the repeaters than over HF. To date people have tried RTTY and PSK-31.

You don't need a cable if you can press the PTT at the right time - a few nights ago I sent a few messages over FLDigi by holding the radio mic near the laptop, and holding the sound card mic near the radio. Things seem to be happening most often on Monday nights after 10:00 p.m. Just remember the repeater timeout!

\* General license class started

By the time you read this, the General class will be into its second week of a 9-week course. It's held every Saturday at

*Continued Next Column*

## License Testing Information

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

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

### October Test Sessions

- Oct 2nd** - Scottsdale ARC -- 5:00 PM  
Scottsdale Granite Reef Senior Center, 1700 N Granite Reef Rd,  
Scottsdale  
Contact - Ray Vasquez 602.363.4207
- Oct 3rd** - CARBA -- 7:00 PM  
Lighthouse YMCA, 2900 N Columbus Blvd, Tucson  
Contact - Matthew Grossman 520.462.0448  
Pre-Reg by email preferred - [veregistration@ac7il.org](mailto:veregistration@ac7il.org)
- Oct 5th** - DeVry ARC & WVARC -- 9:00 AM  
DeVry University Library, 2149 W Dunlap Ave, Phoenix  
Contact - David Morrill 623.680.5011
- Oct 5th** - Oro Valley ARC -- 10:30 AM  
Ascension Lutheran Church, 1220 W Magee Rd, Tucson  
Contact - Quinton Gleason [licensing@tucsonhamradio.org](mailto:licensing@tucsonhamradio.org)
- Oct 5th** - Laurel VE Team - WM-VET -- 9:00 AM  
Solterra Senior Living, 5408 Arizona Hwy 20, Lakeside  
Contact - Vince Cattolica VEtesting@cableone.net  
Pre-Registration Preferred
- Oct 7th** - West Valley ARC -- 6:00 PM  
Shepherd of the Desert Lutheran Church, 11025 N 111th Ave,  
Walton Hall, Sun City  
Contact - David Morrill 623.680.5011  
No Walk-Ins - Call Ahead
- Oct 14th** - East Valley VE Team -- 6:00 PM  
City of Mesa Utilities, 640 N Mesa Dr, Mesa  
Contact - Fred Bolinger 480.242.8606
- Oct 14th** - Radio Society of Tucson -- 7:00 PM  
Hardesty Mid-Town Police Bldg, 1100 S Alvernon, Tucson  
Contact - Diane Zimmerman 520.664.5070
- Oct 15th** - Hassayampa AR Klub -- 2:30 PM  
Home, 30645 S Wandering Way, Escapees North Ranch, Congress  
Contact - Charles Carter 316.651.7710  
No Walk-Ins - Call Ahead for Test and Location Info
- Oct 15th** - Boy Scout Troop 127 -- 8:00 PM  
St Francis Xavier School Library, 4715 N Central Ave, Phoenix  
Contact - John Kelly 602.264.6854
- Oct 15th** - Motorola ARC of Arizona -- 5:00 PM  
Denny's Restaurant, 825 S 48th St, Tempe,  
Contact - Edward Olague 602.885.7725  
Pre-Registration Required
- Oct 16th** - Thunderbird ARC -- 6:00 PM  
Honor Health Medical Office Bldg, 19841 N 27th Ave, Phoenix  
Contact - Brian McCarthy 623.486.0507
- Oct 19th** - Coconino ARC -- 9:00 AM  
North Country Healthcare, 2920 N 4th St, Ste A1, Flagstaff  
Contact - Roderick Martin 928.527.1139
- Oct 19th** - Hualapai ARC -- 10:00 AM  
Kingman Fire Station, 2600 Northern, Kingman  
Contact - Daniel Miller 928.897.3883
- Oct 19th** - NOMADS -- 9:00 AM  
Venture Out RV Resort, 5001 E Main St, Mesa  
Contact - Robert Bingham 480.404.1408  
No Walk-Ins - Call Ahead
- Oct 26th** - NOMADS -- 9:00 AM  
Venture Out RV Resort, 5001 E Main St, Mesa  
Contact - Robert Bingham 480.404.1408  
No Walk-Ins - Call Ahead
- Oct 27th** - Arizona ARC -- 7:00 PM  
American Red Cross, 4747 N 22nd St, Phoenix  
Contact - Gary Hamman 602.996.8148  
No Walk-Ins - Pre-Register by Saturday Before







## August Meeting Summary



As seen here, our summertime meeting attendance remains high! We now have more than 200 active members in the club, a figure that retiring eleven-term President Steve Estes, KB7KWK was hoping to achieve before he leaves office at year's end. Well done, Steve, well done!

The club has turned its membership database management over to HamClubOnline, a secure website to which we send people to join and renew membership. Our members may sign in to update their email address and other contact information with the club, plus see the roster and more.

In the August meeting, the membership voted unanimously to okay the revised Bylaws to update language regarding our Membership term and use of online services.

Our in-club-meeting drawings will be placed on hold until the February meeting to concentrate on preparations for the SuperFest and to promote sale of the SuperFest prize drawing tickets. August meeting's drawing was the last one for the year.

Upcoming meeting presentations for the rest of the year were announced. In November we have our annual election for the Officers and Board. In December, on the Second Tuesday, our Holiday party at the Golden Corral, northeast Mesa, will take the place of a meeting. The Board will meet on the third Tuesday at Black Bear Diner for December.

In January, we will resume our January-through-November schedule of third-Tuesday club general meetings. There is no presentation in January, for instead, we host our annual Junque Auction that month. That's definitely a meeting that you won't want to miss!

The Yaesu Fusion presentation put on by Derek Rutz, K7NZ, was a big hit, despite being trimmed due to time constraints.

President's Corner should be back next month. The latest

## Superstition Continued from Previous Column

September column is posted on the Superstition ARC site.

## August Meeting Drawing Winners

We sell tickets during the meeting for \$1 each (6 for \$5) and for \$5 each (5 for \$20) for your chances to walk out of here carrying a prize, like these two lucky winners did! (As reported above, these drawings are slated to resume in February.)

Wes Erikson AG7WQ, for \$5.00, won the Yaesu FTM-



3207D, pictured in front of the Yaesu Fusion presentation projection. Norm Fasoletos K7NWF, for \$1.00, is holding a pair of UHF HTs from Retevis.



## Tuesday, October 15 SuperFest Organizing Meeting at 6:15 PM

The SuperFest Committee wants to let you know that 45 minutes before the General Meeting each month, organizers for the December SuperFest hamfest always meet for 30 minutes in the small room next door to the General Meeting room. If you would like to help set up, tear down, or staff the event, please come sit in with the committee.

*Continued Next Column*

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**Tuesday, October 15 General Meeting at 7:00 PM**

Be sure to make this meeting, for we will open nominations for the 2020 Officers and Board. This meeting room is just at the other end of the hallway from the SuperFest meeting mentioned above.

As a member of the club, please consider making yourself available for nomination to any one of the eleven seats. You are invited to meet with a member of the Board to become acquainted with the Board duties and inner workings. Feel free also to attend a Board meeting at the Black Bear Diner. Addresses for Board and General meetings can be found on Page 3.

The Board has a calendar of events to keep everyone updated on when recurring obligations and duties take place, just to make life easier as a member of the Board and ensure the necessities are covered in a timely manner.

Club meetings are open to everyone. No ham license or club membership is required. If you have an interest in Amateur Radio, please pay us a visit.

**November Elections**

On Tuesday, November 19 at 7:00 PM, the club meeting will permit paid members to vote for the 2020 Board. Please be there and cast your ballot.

73 from Larry Kuck, WB7C for Superstition ARC's portion of ADAW



We're getting closer to the biggest event of the year for Southern Arizona . . . The OVARC Hamfest. Have a look at the Hamfest flyers here inside ADAW and you'll see we're ready for a replay of the largest ham radio event in Southern Arizona. We'll have some amazing prizes this year and we'll continue to follow our past success and have frequent raffles throughout the morning. Please come to the event; you'll be glad you did.

Our regular outings continue despite the summer heat. In August, we ventured indoors to The Grill at the Pima County Air & Space Museum. After setting up a couple of antennas outside before the heat of the day, we came inside to operate in the air conditioning. Many thanks to Tom-W8TK for setting up the events throughout the year. Thanks to Bill-AB7AA for getting us a spot at the Museum. Our Operating Events will continue every month.

OVARC membership continues to grow and we welcome new members always. Please stop in at one of our events or come to a meeting. Our hams and eggs breakfast at The Views Restaurant is another great way to get involved and meet other amateur radio operators. Check out our website for all of the details: Tucsonhamradio.org.

David-AK2L has launched another Technician Class this month. David continues to educate those interested in getting their license and administers classes right through to their exams. Thank you, David!

Special thanks this month goes to Fred-W2HZ. Through his diligent work he has been able to capture several donations for the club. In addition, he has connected four donors having towers, yagi's and rotators to club members that have since transported them to their respective QTH's. Thank you, Fred.

Mark your Calendar for the November 9 Hamfest!

73, Steve, W1SR



United Nations Day  
October 24th

**Superstition ARC Repeaters**

- 147.120 MHz (+) 162.2 Hz - Usery \*
  - 448.275 MHz (-) 100.0 Hz - Usery - FUSION
  - 449.600 MHz (-) 100.0 Hz - East Mesa \*
  - KB7KWK-L Echolink Node 538499 \*
- \* - Linked Full Time

**Club Nets**

- Morning Drive Time Net:** Mon-Fri, 7:00-8:00 AM - Trivia
- City of Mesa CERT Team Monthly Net:** First Tuesday of month, 7:00 PM
- Weekly 6 Meter Sideband Net:** Wednesdays, 7:00 PM on 50.140 MHz, W7ASL-L EchoLink, and 145.575 FM Simplex
- Club Net:** Wednesdays, 8:00 PM - Discussion, Elmer Q&A.
- Mesh Information Net:** Thursdays, 7:00 PM - Net control Steve, KB7KWK

**10-Meter Rag Chew:** Thursdays, 8:00 PM, 28.465 MHz USB

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

**Superstition SuperFest**

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



Hello All

Things are going well. At our latest club meeting a drawing was held for a YAESU FT70DR/DE Fusion handy talkie in our latest raffle. Our winner was Rod WB7PHK. Congratulations Rod, please have a lot of fun with it.

The Scottsdale ARC is sponsoring HAM testing the two hours before the regular club meeting on the first Wednesday of the month. Our first session had eight people responding.

We are going to have one more raffle for another and final FT-70DR/DE. The rules will be the same, \$5.00 per ticket and the drawing will be held at the following general meeting following the 50th ticket being sold.

Thank GOD the weather is breaking. It is time for the HIP (Ham in the Park). The schedule will be forwarded to club members, and be posted on the club WEBSITE as soon as it is completed. It is also time to work on antennas without getting overheated. I do have antennas to overhaul.

Most of my machine shop is running, repaired, and being updated with new features. I am very pleased with the results

One of our members, John Clark K2AOP, took a bad fall from a ladder, breaking seven ribs and puncturing a lung. Get better soon John.

73's  
Paul W7EFQ

ADAW



**SARC CONSTANTS:**

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

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



**NOTE NOTE NOTE! We are changing our longtime meeting location.**

**Starting with the October 3rd meeting, we will be at our new home, the Granite Reef Senior Center, 1700 N. Granite Reef Road, Scottsdale.**

October's meeting will be about 40-meter daytime DXing. Yes, you don't have to wait until sunset to work DX on the 40-meter band. Come listen to Bill Davis, W7EXG, tell you how you can do it! Impressively, this surprise propagation will be caused by the low sunspots. Here's a real opportunity to work some worldwide DX, but you have to know how to seize it.

Bill has been licensed for 63 years. He's a decorated Electrical Engineer with Motorola whose honors include: Dan Noble Fellow, Senior Member of the Technical Staff, Science Advisory Board and Engineering Design Consultant.

He notes: "With the Visible Solar Sun Spot Number currently at 0, and the Measured Average Solar Flux Index at 67.0 for August 2019, we are fast approaching a rare RF propagation event in the Northern Hemisphere during the 2019 December Solstice time period. A 40m daytime DX window will occur, lasting almost the entire day – and for several weeks about the Dec. 21st Solstice. 40m DX at Solar Noon is possible in the US during this time period."

You don't want to miss this opportunity to work DX on 40 meters at times and places you won't see coming – unless you come to our October meeting.

My thanks to one of the CADXA stalwarts (and founders), Bob Davies, for giving his pair of presentations at the September meeting. Because we are going to move on from the PERA Club as far as regular meetings go, he presented a brief history of the club. Then, he went on to describe his participation with the Code Talkers and the annual Special Event Station "N7C" up in Window Rock. It was a memorable way to end our meetings at the PERA Club.

Our next meeting will be Thursday, October 3rd, at the Granite Reef Senior Center, 1700 N. Granite Reef Road, Scottsdale. Join the informal social hour at 6:30 p.m. The meeting will start at 7:00 p.m. See you there.

73,  
Larry, WO7R  
CADXA President

ADAW



# Old Pueblo Radio Club INTERMOD

## President's Column

For many years, the Old Pueblo Radio Club has held its meetings at Tucson Medical Center. We certainly appreciate the courtesy TMC has shown us. Our meetings have been at night. TMC is a large, active hospital and parking can be difficult both day and night. Some of our older members have expressed having difficulty driving at night and having to walk long distance from available parking.

The Old Pueblo Radio club has decided to move its meetings to "Big Heart Coffee," 4802 E. 22nd St., Tucson, Arizona. Parking is usually available directly in front. The time has also been changed to 1:30 p.m. (1300 hrs. MST) to avoid night driving. We will see how this works out.

OPRC has been operating three repeaters for many years. The locations can no longer host them due to physical changes (think dismantling of the antenna towers for two of them). As a result, all three of the repeaters are now permanently off the air. We certainly thank the locations which hosted us all this time as either OPRC (W7GV) or under the name Tucson Repeater Association (K7TRA) which merged with OPRC many years ago.

73 de  
Ron Kalish, N7SPW  
President, OPRC

ADAW

### RACES Repeaters

145.150	packet/wide	N7OEM
146.880 - PL 110.9	wide coverage	N7OEM
448.55 - PL 110.9	wide coverage	N7OEM



Happy Halloween

## For Sale / Wanted



**LOOK!  
Great Deals!**

### For Sale -

**Steppir 3-Element Antenna** with optional 40M - 30M Dipole (Trombone) Kit. Also with 6M passive element, SDA 100 with D25 splice, and plug in connector junction box (pipe-bomb upgrade). Excellent Condition - \$2,000.00

Contact Bob Drake AF7EL at 623.385.6531 or email [af7el@yahoo.com](mailto:af7el@yahoo.com)

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

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

### USTower MA-550XHD Xtra Heavy-Duty Tubular Tower

This is a 55-foot tower that is in excellent condition. It has spent its entire life in Arizona. It is a three (3) sections tower - 12" diameter on the first, 10" diameter on the second, and 8" diameter on the third. Also included is the MARB 550XHD & MAF550XHD raising fixture for tilting the tower, the MDP750 heavy duty motor drive with positive pull down, the MCL100 limit switch package, M-5 5'2" OD mast, one each 10" & 8" MA coax arm assemblies, on 12" MA arm assembly, hand winch, thrust bearing, and rotor plate for mounting the rotor below and rotating the tower, a new set (4) of 1 1/8" diameter bolts supplied by US Tower, and a complete manual. Structural Analysis with Arizona wet stamp also included.

Asking \$3000 or best offer - cash or certified check payable to WVARC. Buyer may pick-up or ship. All arrangements and costs are buyer responsibility.

Contact Gary Franklin [franklin6209@att.net](mailto:franklin6209@att.net) or phone 269.501.6898 for tower ratings and more information.

The **West Valley Amateur Radio Club** has radios and ALL kinds of supplies available for sale through the club. We get some old equipment that won't sell that will be added to the items for free. Contact: Ken Jenkins, WB6MMV at [kjenkins5623@gmail.com](mailto:kjenkins5623@gmail.com) or Bob Kettler WA6MIO at [rdkettler@msn.com](mailto:rdkettler@msn.com).

ADAW

## Public Service Calendar

### Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Tour De Scottsdale	Scottsdale	10/13/19
Javelina Jundred	Fountain Hills	10/26/19
Heart of Arizona	Congress	11/02/19
JROTC Orienteering First Water	11/02/19	11/02/19
	First Water Trail Head - East Valley	
MS Walk on the Wild Side	Phoenix Zoo/Papago Park	11/02/19
Phoenix Half Marathon	Downtown Phoenix	11/03/19
Cave Creek Cactus Classic	Cave Creek	11/09/19
Xterra - San Tan Trail Run	San Tan Park	11/10/19
Redneck Run	Central Ave & Salt River	11/23/19
12Ks of Christmas	Freestone Park - Gilbert	12/14/19
JROTC Sophies Flats	Northeast of Wickenburg	12/14/19
Xterra - Estrella Mtn Trail Run	12/15/19	12/15/19
	Estrella Mountain Park	
Xterra - White Tank	Waddell	01/05/20
Prickly Pedal	TBD	01/18/20
JROTC First Water	North of Apache Junction	01/25/20
Pancake Run	Paradise Valley Mall/Phoenix	02/02/20
Xterra - McDowell Mtn	Fountain Hills	02/02/20
Black Canyon 100K	Spring Valley to	02/15/20
	Emery Handerson Trailhead	
JROTC Orienteering - Sophies Flat	02/22/20	02/22/20
	Sophies Flat	
Mesquite Canyon	Waddell	03/07/20
Xterra Black Canyon Trail Run	03/08/20	03/08/20
	Black Canyon City	
Crown King	Lake Pleasant-Crown King	03/28/20
Pat's Run	Sun Devil Stadium/ and Tempe Town Lake	04/25/20

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

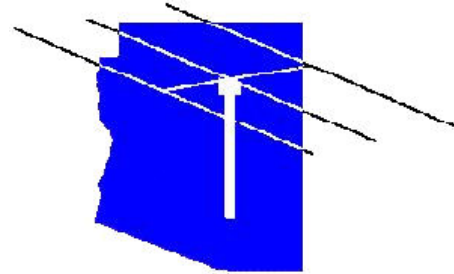
For information, contact Dennis Bietry - KE7EJF at 602.274.3732 - email, [ke7ejf@cox.net](mailto:ke7ejf@cox.net), or contact the Event Coordinator for the event.

### Real Estate

Are you or someone you know looking for a Ham Home?  
I can help you find a home with a tower or one where a tower can be added. Call or email me to get started.

Richard Haworth W7MDQ  
Coldwell Banker Residential Brokerage  
602-370-1450 Cell, [rahaworth@cox.net](mailto:rahaworth@cox.net)

## No Reports Received



MARC A INC.



4747 N 22nd St. - Suite 100 - Phoenix, AZ 85016  
VHF - 146.84 MHz - PL 162.2 / UHF - 446.900 MHz - PL 131.8  
Echolink Node #731289 - K7ARC-R



Emergency Communications Since 1961

**SHORT SKIP**



# HAM RADIO OUTLET

WWW.HAMRADIO.COM

**NOBODY BEATS AN HRO DEAL!**



**FTDX5000MP Limited | 200W HF + 6M Xcvr**

- Internal Power Supply • Two Totally Independent Receivers
- Super Sharp "Roofing" Filters • High Performance Yaesu Custom- designed 32-bit Floating Point DSP • True Analog Meter Precision



**FTDX3000 | 100W HF + 6M Transceiver**

- 100 Watt HF/6 Meters • Large and wide color LCD display • High Speed Spectrum Scope built-in • 32 bit high speed DSP /Down Conversion 1st IF



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

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



**FTDX101D | HF + 6M Transceiver**

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



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

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



**FT-857D | Ultra Compact HF/VHF/UHF**

- 100w HF/6M, 50W 2M, 20W UHF • DSP included • 32 color display • 200 mems • Detachable front panel (YSK-857 required)



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

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



**FTM-100DR | C4FM FDMA/FM 144/430 MHz Xcvr**

- Power Packed System Fusion Transceiver • High Audio Output Power • Rugged Powerful Transmitter • Integrated 66ch High Sensitivity GPS • 1200/9600 APRS Data Communications



**FTM-400XD | 2M/440 Mobile**

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



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

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



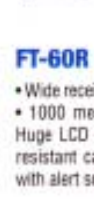
**FT-2DR C4FM/FM 144/430 MHz Xcvr**

- Analog/C4FM Dual Monitor (V+VU+UV+U) • System Fusion compatible • 1200/9600 APRS Data Communications • Integrated 66ch High Sensitivity GPS • Wide Band Receiver • Snapshot Picture Taking Capability With Optional MH-85A11U



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

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



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

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



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

**YAESU**  
The radio

*We have just about made it through the summer and cooler weather is on the way. It will soon be time to get to all those antenna projects you have had planned. Remember, stop by the website to see all the latest deals at your favorite candy store! From all the staff at your Phoenix Ham Radio Outlet. HAPPY HALLOWEEN!*

*Now serving you at our Phoenix store: Manager Ron AJ7T, Steve W7QY, Mike K7DD, Jim K7EOG, Jim KE7EEU, Richard KIRAB, and Bob W8RH.*