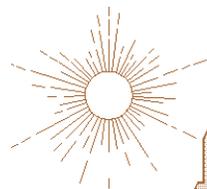


**ADAW**

4529 W. Park Place  
Glendale, AZ 85306-1512



# NOVEMBER



# ADAW

**Arizona Desert Aire Waves**

**Vol 44, No 11      November 2019**

## CLUB MEETING SCHEDULE

**SARC**

Noc 6th  
Scottsdale Senior Center  
7:00 PM

**OPRC**

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

**CADXA**

Nov 7th  
Granite Reef Senior Center  
7:00 PM

**AARC**

Nov 14th  
Red Cross Bldg. - Phx  
7:00 PM

**TBARC**

Nov 21st  
NAU - N Phoenix Campus  
7:00 PM

**ARA**

Nov 25th  
Denny's Restaurant - Tempe  
7:30 PM

**ARCCC**

TBD  
American Red Cross Bldg  
Phoenix  
9:00 AM

**SuperstitionARC**

Nov 18th  
Charles K Luster Bldg  
7:00 PM

**MARCA**

Nov 19th  
Denny's Restaurant - Tempe  
6:30 PM

**ANSR**

Nov 21st  
via GoToMeeting  
7:30 PM

**OVARC**

Nov 15th  
Ascension Lutheran Church  
7:00 PM

**WVARC**

Nov 4th  
Shephard of the Desert  
Luthern Church  
7:00 PM

**YARC**

Nov 7th  
Prescott Rodeo Grounds  
7:00 PM

**MARA**

Nov 2nd  
Copper Sky Substation  
9:00 AM

**KARC**

Nov 12th  
Solterra at White Mountains  
6:30 PM

**CHRC**

Nov 9th  
Barro's Pizza - Chandler  
9:00 AM

**QCWA-AZ Chapter**

Nov 20th/Nov 12th/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	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 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 Fritz	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
Section Engineer	Ron Taylor	WA7GIL	602.390.5335
Webmaster	Allyson Lee	KI7LGD	w7asc.webmaster@gmail.com

#### Board Members:

Jean Jolkovski	W4CIH	ADAW, Publicity
Tom Salt	AD7PM	At Large
John O'Neal	K7JP	Teacher Packets
Bob Burleson	KG7QJ	Trustee/President Emeritus
Robert Faerber	W9AQ	Log Book
Scott Gillins	W2KP	At Large

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

### AMATEUR TELEVISION NETWORK

The Amateur Television Network (ATN) 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 **W6ATNLIVE** or **W7ATN-MESALIVE**. 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	K0CCU	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 443.550+ 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>.

## ADAW

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



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## ADAW

<p><b>Cars by Kencars &amp; Friends</b></p> <p>Save Money &amp; Time On Your Next Vehicle &amp; Become My Friends!</p>  <p>Buying a car hasn't been this easy since your 1st one !!! <b>Remember ?</b></p>	<p><b>Ken Nichols</b> <b>Auto Consultant</b> 25 Years Experience</p> <p>Any Make or Model Easy No Hassel Pricing</p> <p>602-935-6206 <a href="mailto:kencars@gmail.com">kencars@gmail.com</a> <a href="http://www.kencars.com">www.kencars.com</a> Amateur Radio WA7HXZ</p>
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## Silent Keys

## Public Service Calendar



**Grant Lawrence Hays**  
June 28, 1939 - September 25, 2019

Amateur Radio lost a great friend in September. Lawrence Grant Hays, WB6OTS passed away unexpectedly on September 25, 2019 while visiting Évora, Portugal.

Grant was widely known for his work with the Boy Scouts. He enjoyed working with the scouts and actively participated in the Jamboree on the Air event introducing many of the them to the joys of Amateur Radio.

Grant served on the board of the Amateur Radio Council of Arizona (ARCA) from 2006 - 2012 holding the offices of Secretary, 2<sup>nd</sup> Vice Chairperson, and 1<sup>st</sup> Vice Chairperson. As part of his 1<sup>st</sup> Vice Chair duties, he acted as chairperson of the 2011 and 2012 ARCA/Williams Hamfest.

Grant was active with the American Radio Relay League also. He had held the position of ARRL AZ Assistant Section Manager since 2008. Grant also was a long-term Relay Station, beginning that activity in 1975. He served as an Emergency Coordinator (from 1993) and as the National Traffic System Manager (since 1996) as well.

Grant was an active member of the Cochise Amateur Radio Association in Sierra Vista taking part in many of their activities.

Grant was a husband, father, grandfather, and friend to many. His ready smile and friendly personality endeared him to those he came into contact with. He will be greatly missed. Godspeed, Grant. Rest in Peace.

### Larry E Purchase

September, 2018

Larry Purchase, KE7JXQ and his wife passed away unexpectedly in September 2018 from heat exposure.

Larry was a member of the West Valley Amateur Radio Club. He was the proprietor of LE Purchase Computer Consultants, Inc and a long-time advertiser in both the Arizona Desert Aire Waves and the West Valley ARC's "Short Skip" newsletter.

ADAW

### Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Heart of Arizona	Congress	11/02/19
JROTC Orienteering	First Water	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	Estrella Mountain Park	12/15/19
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 Emery Handerson Trailhead	02/15/20
JROTC Orienteering - Sophies Flat	Sophies Flat	02/22/20
Mesquite Canyon	Waddell	03/07/20
Xterra Black Canyon Trail Run	Black Canyon City	03/08/20
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.





### ***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 to 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

The station survived the “Fry’s Free Weekend” at the Arizona Science Center, what has become an annual tradition. Two days of large crowds of visitors tested the W7ASC volunteers’ stamina! Extra volunteers, with extra demonstration positions, gave the visitors the chance to see and participate in demonstrations of on-air Ham radio contacts. Hams who responded on the ARA and EAARS networks are due a big “Thank You.” Contacts with other local repeaters were also very helpful.

All through the weekend hours of operation the sound of Morse code, from various positions, filled the corridors. At W7ASC, when a visitor does their name in Morse code, they are awarded a certificate and a badge. More than 400 badges were awarded! These well-designed badges are printed on self-adhesive labels and are intended to be affixed to a shirt or jacket. They proclaim that the wearer has done their name in Morse code. Many of these badges were on display among the visitors. The Morse stations were very popular.

W7ASC does not operate to simply promote Ham radio. It is a demonstration of applied science, explaining to the visitors how science is a part of their lives. The volunteers explain and demonstrate the close relationship between Ham radio and the ubiquitous cell phone explaining that Ham radio often fills the gap where cell phones are no longer able to communicate. And, of course, Ham radio performs that task as a Public Service. Ham radio operators are in reserves, so to speak, for any time that the nation needs a sudden increase in the availability of experienced radio operators – such as at the start of WW II.

It is common for some visitors to ask how they can become Hams. Volunteers can provide the visitors with fliers that address that question. These volunteers can also explain about licensing, testing and the benefit of joining a club. But each volunteer would answer that question in a different way and the visitor would not often recall the information that had been

*Continued Next Column*

The October 10 meeting of the Arizona Amateur Radio Club was indeed a very special one. Because the program featured the Geisslers’ Canada National Parks on the Air trip, President Gary Hamman asked members to introduce themselves with their name and call sign and tell whether they had visited Canada and been on the air from there. The answers varied of course, but gave us a better knowledge of our fellow members.

The evening was also special because the Geisslers were celebrating their 25th year as husband and wife, and Ingrid brought a beautiful and very delicious anniversary cake with 25 written on the top for all to enjoy.



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

provided. Bob KJ7QJ, one of the original C.A.R.L. volunteers and the W7ASC station trustee, decided that there was a better way. He has created a package, available in a Science Center folder, that includes explanatory material that can guide an interested visitor on the path to licensing and what they can do with a Ham Radio license. These “Prospective Ham” folders have been very popular with visitors. They are not handed out indiscriminately, but only in response to a specific inquiry. Bob, whose photo is included with this newsletter, has done the community a real service with this package.

There have been some welcome additions to the C.A.R.L. Board of Directors. Details can be found in the Club listing at the front of the ADAW newsletter.

We wish you good day and a Happy Thanksgiving.  
DE W4CIH Jean 480-664-7353



*Bob at W7ASC*



## *CHRC Continues To Grow*

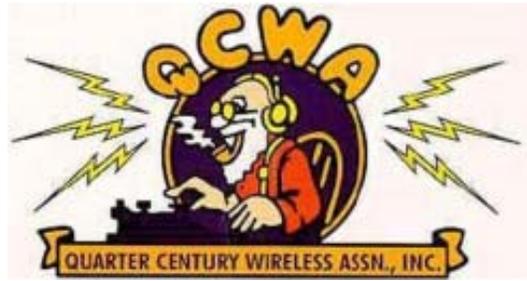
The Chandler HAM Radio Club has had a great growth month since we formed in July of this year (2019). We started with 17 or 18 members and have continued to grow at a nice pace. As of Oct 5th, we have 41 members now. This has been proof enough that our wonderful city of Chandler, AZ was certainly in need of its own local club. Many of the HAM residents are members of other clubs simply because there was nothing local. Since the last publication of the ADAW new letter we have added 13 new members to our club. Our newest members are

KB7CWV, Lin Pemberton  
N7LP, Lee Pemberton  
KI7AIG, Diane Van Wrey  
KI7CTC, Kent Olsen  
W7BE, Bob Stephens  
N0DOZ, Gerry Santomassimo  
KE7CAT, Michael Brumme  
KF5ROK, Rich Pruitt  
KI7BFE, Harry Miller  
KJ6NSA, Glenn Osborne  
N7SRG, Steven Gregory  
KI7YRG, Bob Black  
K9TNR, Steve Mark

We are also staged and ready to go for our very first event. We will be at the COPAFEST on October 26th. We should be right next to the hosting club, Maricopa Amateur Radio Association. We want to thank them for welcoming us to their event. We will be showing off our new banner and have flyers about our club. Please stop by and say "hello" to us.

We are also moving forward on becoming more active in the community. We have reached out to the city of Chandler to let them know we exist and are available if the need arises. We are also working with the Gila River Indian Community on trying to create and organize some sort of emergency communications. We want to thank our member, Mike Anderson, KB7FQO for heading up this effort.

Gary Laatsch, KI7PBR  
President, Chandler HAM Radio Club



## CHAPTER 16 BARRYM.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.





Hello All,

SARC has started its last raffle for a YAESU FT-70D Analog and FUSION Dual Band HT. The rules are the same as before. The winning ticket will be drawn at the next general meeting following the 50th ticket being sold. The tickets are \$5.00 each and are open to all HAMS. The maximum number of tickets to be sold is 100. Tickets will be available at all SARC functions.

SARC is offering ham testing at 5:00 p.m., just before the general club meeting (The first Wednesday of the month EXCEPT for December).

We are having a CW (MORSE CODE) class taught by WB7ATA in Room 10 of the Scottsdale Senior Citizens Center Just North of McDowell on Granite Reef Road. The first class was on Monday at 6:00 P.M. October 7th.

HIP (Ham in the Park) is started on Friday, October 11<sup>th</sup>, and will be held every other Friday through mid-December. This is a very popular activity. Time is 10:00 A.M. until noon. Location is Scottsdale City Park located on the North East corner of Thomas Road and 86th Street (just west of loop 101).

Our club NET is every Tuesday at 7:00 P.M. on the club repeaters (147.18 and 440.00). We are having more members and visitors present.

Our club breakfast is every Saturday at Denny's on Indian Bend Road just west of Loop 101 at 8:00 A.M. We are having several in attendance.

At our last club meeting, our program was given by Ned Stearns AA7A. The subject was on control of remote ham stations - one located in Safford, AZ with phased verticals and the second in Maricopa, AZ with an EME station.

In addition to the presentation, two members were honored. The HAM OF THE YEAR was given to Arturo WB7ATA, and a LIFE MEMBERSHIP was awarded to Paul W7EFQ

73's  
Paul W7EFQ

ADAW

**SARCCONSTANTS:**

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

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



## A BIG INVITATION

By the time you read this, the biggest Hamfest in Southern Arizona will be just a couple of weeks away.

The OVARC Hamfest on Saturday, November 9th is the premiere event and has been growing every year. Our sales table will be huge this year as we have received so many generous donations throughout the year. We have inexpensive HT's, transceivers, test equipment, oscilloscopes, antenna tuners, SWR meters, keyers, and even linear amplifiers. We'll have about a dozen seminars inside in comfortable classrooms, plenty of food, raffles about every 30 minutes, and plenty more. If you're coming from the north on I-10, the event is right along the highway at The Marana Middle School which is very easy to find. Please come and enjoy the event on Saturday morning. All of the details are on the club home page at [www.tucsonhamradio.org](http://www.tucsonhamradio.org).

While we were baking here in Tucson, our September outing to the Chiricahua mountains was a cool event . . . literally. Our event was held at Massai Point at 6,800 feet. Many of you may have visited this picturesque spot. We had two transmitters and a collection of antennas; from an operating position like this, the bands are always open.

Many thanks to David-AK2L for graduating another group of technician class licensees.

Best wishes go out to Gary-AE7GP who's been QRT for a few weeks, but is recovering. I think the Operating Manual says that once you're 50% recovered and can operate a paddle, you should be back on the air for several hours a day to aid the recovery process. Hope you're feeling better Gary.

Thanks to Gary-KT7AZ and his team on the Repeater Committee for making such remarkable progress on our multi-mode repeaters. Our OVARC repeater system is very robust and is well positioned to move into an all-digital network soon.

NOVEMBER 9 is the big day for the Hamfest. PLEASE COME AND ENJOY!

73,  
Steve

ADAW



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 November meeting will include elections of officers for the 2020 calendar year, and 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!

Submitted by Lydiann McFadden



The Kachina Amateur Radio Club is sponsoring a two-day review class to assist those planning to test for their Technician License on 7 December 2019.

The first half of the review will be held on Saturday, November 30, 2019 from 8:00 AM to 12:00 noon. The second half will be on Sunday, December 1, 2019 from noon to 5pm. The review sessions will be conducted at the Solterra Senior Center, 5408 Hwy. 260 (White Mountain Blvd.), Lakeside, AZ.

The Laurel VE Team, WM-VET, will be conducting license testing on Saturday, 7 December 2019, at 9:00 AM at that same location. Walk-Ins are welcomed, however, pre-registration is preferred. You can email the team at [VETesting@cablone.net](mailto:VETesting@cablone.net) to preregister. 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 acknowledgment 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.



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.

This season's program schedule is beginning to shape up. November 25th, there will be a presentation on the Code Talkers. Our Christmas party will be December 15th. We're also planning a return to the Titan Missile Museum in Sahuarita where last season, members of the club hooked up to the museum's discone antenna for some great QSOs.

Some additional future meeting topics for this season will include DMR Radio, Steam Trains, Portable Ham Radio, the VLA in NM, Ubitx Transceivers, a member's 50 State Run and other topics TBA.

In the past, our meetings have featured presentations on various amateur radio activities including Quartzfest, Dayton Hamvention, AMSAT, operating 60m triband, Collins Radio during WWII, digital modes, and radio homebrews. Last season, Gordon West came in and made a presentation.

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 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 p.m. 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.



## Hamfest Calendar

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@superstitionsuperfest.org](mailto:chairman@superstitionsuperfest.org) for more information.

*Continued Next Column*



**Election Day  
November 5th**

**ADAW**

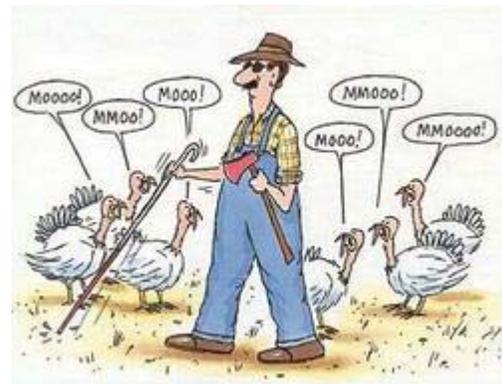


If you want to see a high altitude balloon launch, Arizona Near Space Research will be flying from Copafest in Maricopa on October 26. Not only will you get to enjoy a hamfest including seminars and a swap meet, but you can see how we send a payload into near space. We will be tracking the flight from a ground station, which will be accessible from the booths at Copafest.

Later in the month, we will be working with students at Dine' College on the Navajo Reservation to send their experiments into space.

Steve, W6SDM

**ADAW**



*Hamfest Calendar Continued from Previous Column*

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***

net controls, and we'll educate each other about it! See you on the club repeaters on Tuesdays at 7:30 p.m.!

### **TBARC helps out with EMCOMM**

What was that sound on the Thunderbird Amateur Radio Club repeaters on Monday, October 7? TBARC repeaters hosted the resource net for an exercise by the Maricopa County Emergency Communications Group, who sends their thanks for permission to use the repeater. According to the event organizer, the exercise was a success - and it exposed a few good areas for improvement. The TBARC repeater coverage made that possible. Believe it or not, the net control station was hitting our 2m repeater on a handheld from West Scottsdale!

### **Hamfest call for presenters**

We're looking at expanding the presentation section for the Thunderbird Amateur Radio Club's hamfest. If you're going to be there (on January 11, 2020) and have a topic that's of interest to the Amateur Radio Community, why not share it with us? Topics can be on building projects, operating methods, technology, radio science, radio history - really, the sky's the limit! If interested, please contact Rick Tejera K7TEJ at k7tej@omiss.net or 623-572-0713.

### **November 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. November's presentation was still being decided at press time. But we're sure to be in for an interesting night, and we'll learn about part of the hobby that's new to you - or perhaps something where you can help explain it to new hams. What will it be? Join us and find out!

Andrew Cornwall KF7CCC  
kf7ccc@arrl.net



*Lee Finkel KY7M shows the award he got while operating PJ2T*

### **Hamfest raffle tickets on sale**

Thanks to the efforts of a dedicated group, and support from ARCA, we once again have hamfest raffle tickets on sale. This year you can buy them on our hamfest website, tbirdfest.org. Click on the "Prizes" link to see what they'll be - and perhaps buy a few while you're there. You don't need to be present to win the grand prize - and maybe you'll be the lucky one to go home with an Icom IC-7300!

### **Arizona QSO party**

It's too soon for results from the Arizona QSO party. In the last few days, 20m has been hopping; I hope that held up for the QSO party. Thanks to Kerry, who organized the food - the most important thing that determines whether the QSO party is a success!

### **General class**

The general class is almost done. Listen for the new Generals on the air!

### **Repeater painting project**

As part of our arrangement with ASI, who provides a home for our repeaters on White Tanks, we agreed to help them with one project a year. ASI provides the materials, and we provide the many hands which make light work.

This year's project is to paint the ASI building at the Towers Antenna site at Towers Mountain. Our intrepid crew will paint the building on Sat Nov 2, 2019. We already have two vehicles and four people: Walt NJ8G, Brian AK7F, Mike K7DD and Darrell KE7T. Have you got an interest in seeing what a repeater site looks like close up? Join the crew on Saturday morning (leaving about 6:00 a.m.). The trip will go up to the Crown King area. With luck the work starts at 9:00 a.m., and everyone will be ready for lunch in Crown King around noon.

### **Club elections**

By now you know who's been nominated for leadership roles in the club. But November is when we decide who actually takes charge next year! Be sure to attend the November meeting and decide who's going to be on the board. You can't vote unless you're there!

### **Tuesday night net**

At the September meeting, the net controls for the Tuesday night net passed a handout around to find out what people are interested in discussing. We've had a number of good new topics already - Arduino, go box contents, public service events, portable stations, FT-8, QSL cards ... the list goes on. Bring your favorite topic to the

***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.

### November Test Sessions

**Nov 2nd** - Green Valley ARC -- 10:00 AM

Pima County SAV Bldg, 601 N La Canada Dr, Green Valley  
Contact - Earle Cate 303.898.9471

**Nov 2nd - 9th - 16th & 23rd** - NOMADS -- 9:00 AM

Venture Out RV Resort, 5001 E Main St, Mesa  
Contact - Robert Bingham 480.404.1408  
No Walk-Ins - Call Ahead

**Nov 2nd** - DeVry ARC & WVARC -- 9:00 AM

DeVry University Library, 2149 W Dunlap Ave, Phoenix  
Contact - David Morrill 623.680.5011

**Nov 6th** - Scottsdale ARC -- 5:00 PM

Scottsdale Granite Reef Senior Center, 1700 N Granite Reef Rd,  
Scottsdale  
Contact - Ray Vasquez 602.363.4207

**Nov 4th** - 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

**Nov 7th** - 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)

**Nov 9th** - Oro Valley ARC -- 10:00 AM

Marana Middle School, 11285 W Grier RD, Marana  
Oro Valley ARCHamfest  
Contact - Quinton Gleason [licensing@tucsonhamradio.org](mailto:licensing@tucsonhamradio.org)

**Nov 11th** - East Valley VE Team -- 6:00 PM

City of Mesa Utilities, 640 N Mesa Dr, Mesa  
Contact - Fred Bolinger 480.242.8606

**Nov 11th** - Radio Society of Tucson -- 7:00 PM

Hardesty Mid-Town Police Bldg, 1100 S Alvernon, Tucson  
Contact - Diane Zimmerman 520.664.5070

**Nov 13th & 23rd** - Chandler VE Group -- 5:00 PM

Gangplank, 250 S Arizona Ave, Chandler  
Contact - Ray Vasquez 602.363.4207

**Nov 16th** - Hualapai ARC -- 10:00 AM

Kingman Fire Station, 2600 Northern, Kingman  
Contact - Daniel Miller 928.897.3883

**Nov 16th** - Yavapai ARC -- 9:00 AM

Jeep Posse Bldg in Pioneer Park, 1200 Commerce Dr, Prescott  
Contact - Donald Bauer 928.775.4690  
Pre-Register online: [www.w7yrc.org](http://www.w7yrc.org)

**Nov 19th** - 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

**Nov 19th** - Boy Scout Troop 127 -- 8:00 PM

St Francis Xavier School Library, 4715 N Central Ave, Phoenix  
Contact - John Kelly 602.264.6854

**Nov 19th** - Motorola ARC of Arizona -- 5:00 PM

Denny's Restaurant, 825 S 48th St, Tempe,  
Contact - Edward Olague 602.885.7725  
Pre-Registration Required

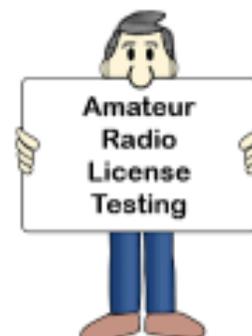
**Nov 20th** - Thunderbird ARC -- 6:00 PM

Honor Health Medical Office Bldg, 19841 N 27th Ave, Phoenix  
Contact - Brian McCarthy 623.486.0507

**Nov 24th** - 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

ADAW





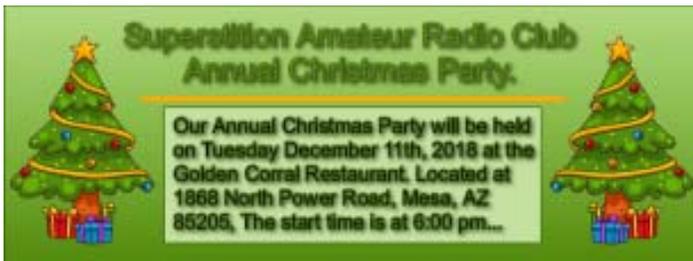
**Elections for the 2020 Board** will be held Tuesday, November 20 at the Club General Meeting in the Charles K. Luster Building. (Please turn to page 3 for the address.) Club meeting starts at 7:00 PM. Only paid members may vote, but you may join the club at the meeting and become a member.

No membership is needed to attend the meeting. We welcome all visitors with a ham license or not!

At this meeting, you may buy Superstition SuperFest prize tickets, which will be drawn at the event listed next.

**The Superstition SuperFest**, Saturday, December 7, is this club's premiere event. Held at Mesa Community College, this Amateur Radio swap meet will honor the USS Arizona with a Special Event Station. The Arizona and her crew were lost in the Japanese bombing of Pearl Harbor thrusting this nation into World War II on this date in 1941.

We will have Amateur Radio license exams put on by the East Valley VE Team. Live music will be provided by John Jacques, KD8PC. Picnic tables and food will give you a place to sit and take nourishment. The Superstition SuperFest is one of the largest hamfests in Arizona. Please see our flyer accompanying this ADAW for details.



**Our Holiday Party** will be held, in lieu of a December Club meeting, on Tuesday, December 10 at 6:00 PM. The party will be held at Golden Corral Buffet located at 1868 N Power Road, Mesa, AZ 85205 (just south of McKellips Road). Club members and their guests pay Senior Discount prices regardless of age. Drinks are a separate charge.

**The first Club meeting in 2020** will be the Junque Auction on Tuesday, January 21, at the Charles K. Luster Building. Meeting will be called to order at 7:00 PM. Auction sellers and bidders are asked to arrive early to allow for set up and window-shopping ahead of time so the meeting may be started on time.

### *Superstition Continued from Previous Column*

**The President's Corner** hit a snag this month because President Steve was sick and missed the meeting. It was chaired, however, by VP Andy Keels, KD4ABB. We will have to reschedule the presentation, via Skype, by Bob Heil. There is TWO hours' difference between CDT and MST in the summer months, not one, which led to some confusion. We DO call our meeting to order at 2:00 in the morning (0200) Wednesday, UTC – 0200Z – and hams around the world use UTC! It is the same time and date everywhere.

Andy did something new at our September meeting – He projected the meeting agenda on the screen and covered each item point-by-point using PowerPoint. The Treasurer's report may have to be divided into multiple slides, but hey! We're learning!

**Minutes of our meetings** are posted on HamClubOnline.com and are visible to members who are signed into "SuperARC" as we are known there. At last look on September 23, we also have 203 members. Please see the club "Communicator" newsletter in any recent issue for directions to use HamClubOnline. It is posted on our Superstition ARC (.org) website.

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



#### *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.

*Continued Next Column*



# Amateur Television Network Arizona (ATN-AZ) & California (ATN-CA)

## Amateur Television Network

The Amateur Television Network (ATN) is a group of radio amateurs that promotes Amateur Radio audio/video operation on linked repeaters and on mesh networks. **Everyone is welcome.**

- You don't need an Amateur Radio license to watch us and chat with us on the Internet.
- **Watch us Wednesday & Sunday at 7pm AZ time and Tuesday at 7:30pm Pacific** Browse to [YouTube.com](https://www.youtube.com). Search for [W6ATN LIVE](#) or [W7ATN-MESA LIVE](#). Alternately, browse to [BATICV.TV](http://BATICV.TV). Under **Repeaters**, click on [W6ATN](#), [W7ATN](#), or [W7ATN-MESA](#). You can see us, hear us and send live [Chat Messages](#). **Please join in.**
- **Breaking News!** Send us video on the Internet at [appear.in/amateurtvnetwork](https://appear.in/amateurtvnetwork)
- Learn about ATV & Mesh Video - Contact Rod Fritz WB9KMO at [wb9kmo@gmail.com](mailto:wb9kmo@gmail.com)
- Become an ATN member – Go to [www.atn-tv.org](http://www.atn-tv.org) and click on [Membership](#), [Old Website](#) and [Member Application](#). **We would appreciate your support.**
- Browse to [TheNewATVQ.com](http://TheNewATVQ.com). It contains valuable links to the best ATV and Mesh Video information that the Internet has to offer. Check in periodically to watch the content grow.

We enjoy operating specialized communication modes like Fast-Scan TV (ATV), Mesh Networking (Mesh Video), Digital Television (DATV), High Altitude Balloons (HAB), First Person View (FPV), Remote Control (RC) and Slow-Scan TV (SSTV) for use in emergencies, public service, education and just having fun. Experience the exciting synergy, integrating ATV with Mesh Video.

ATN interconnects numerous Amateur Television (ATV) repeaters on-the-air and over the Internet in many states and even world-wide. All licensed Amateur Radio operators are authorized to transmit audio, video, pictures and data. **We hope you'll give it a try.**

## ATV and Mesh Nets – Video on Ham Radio

The ATN-AZ ATV Net is each **Wednesday and Sunday** night at 7pm Arizona time. Browse to [youtube.com](https://www.youtube.com). Search for [w7atn-mesa live](#). Check-in on ATV video or FM audio.

The ATN-CA ATV Net is each **Tuesday** night at 7:30pm Pacific time. World-wide ATVers participate. Browse to [youtube.com](https://www.youtube.com). Search for [w6atn live](#). Watch us or better yet, check-in!

- ATN-AZ and ATN-CA ATV Repeater Inputs: 434 MHz AM/DVB-T, 2441.5 MHz FM  
ATN-AZ and ATN-CA ATV Repeater Outputs: 1253.25 & 5910 MHz (Phoenix/Orange Cnty), 1277.25 MHz (Tucson), 1289.25 MHz (Mesa/Santa Barbara) and 3380 MHz (Ventura Cnty)
- ATN-AZ FM Repeater Outputs: 448.400 MHz, PL 100.0 (White Tank), 445.225 MHz, PL 103.5 (Mt Lemmon) & 447.175 MHz, PL 100.0/C4FM (Mesa), 1286.15, 223.82 & 146.43 MHz (CA)
- **Central Arizona Mesh Net: Thursday 7:00pm AZ, KB7KWK-L on EchoLink**
- Get more ATV and Mesh Networking info at [www.atn-tv.org](http://www.atn-tv.org), [www.arednmesh.org](http://www.arednmesh.org), [www.superstitionarc.org](http://www.superstitionarc.org), [www.ocmesh.org](http://www.ocmesh.org) and [www.TheNewATVQ.com](http://www.TheNewATVQ.com)

**We look forward to seeing you on Amateur Radio!**

(Revised 7/11/2019 by Rod Fritz, WB9KMO – [wb9kmo@gmail.com](mailto:wb9kmo@gmail.com))



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

I had the great honor to attend the BSA Eagle Court for Charles Loftus Jr., KI7DUV. Charlie is an active ham, participating in various activities and is a leader in scouts. For Charlie's Eagle project, he lead a team to upgrade the ARA Pinal Site by water sealing the foundation and repainting the entire building. The building looks great and we did not have the water seepage we have seen in past years.

On September 28, 2019, Charlie was awarded his Eagle Scout. The ARA is very thankful and proud of Charlie's accomplishments.

The ARA wants to support our youth in any way we can. This is through our support of Explorer Post 599, community projects for scouts, helping the Tech Committee and training through Emcomm and Public Service. Would it not be great if we saw more of our youth involved with Amateur Radio?

November is the ARA's election month and the final General Meeting for the year. The General Meeting will be Monday, November 25th at Denny's. This is our election Meeting and the last chance to turn in your ballots. On this year's ballot, is the member ratification of the new Bylaws. All members may review the new Bylaws in the member section of the website, <https://w7ara.org/Rcm/By-Laws.Asp>. Please take time to review the Bylaws and return your ballot.

Do you listen or participate in the AEN-MAR net on Monday nights? This is a great net to improve your skills on the radio and learn new skills. Each discussion offers a topic on the net. Everyone is encouraged to participate. The net starts promptly at 2100 hrs every Monday Night on the Metro-link. For more information, checkout their website <http://www.aen-mar.org/>

Have you checked-out [mcecg.net](http://mcecg.net)? They have more opportunities than people.

At the time of this writing, all of the sites are functioning as expected. This summer, several sites have demanded attention. The Tech Committee has been able to respond and correct the issue promptly. The tech committee meets just prior to the board meeting at 1830 on the first Thursday of each month. Stop by to see how you might be able to help.

We hope to see you at the Tech, Board or General meeting. For more information, check out our website, [www.w7ara.org](http://www.w7ara.org).

73,  
Brian McCarthy, AK7F

Labor Day has come and gone. For those of us in Arizona, it means it's still hot. For those along the Atlantic and Gulf Coasts, it means hurricane season is at its peak. In recent weeks, Dorian has battered the Bahamas, flirted with the Florida coast, and continued its trail of destruction up through the Carolinas. For many in California, the Santa Ana winds bring the threat of wildfires across the state. This is a busy time of year for Red Cross volunteers and amateur radio operators alike.

Hams have always stepped up to provide emergency communications during disaster. They also play an important part in the Red Cross response to local disasters. As Hurricane Dorian was spinning up in the Atlantic, Red Cross hams were being deployed to provide back-up communications at shelters and other Red Cross facilities in Florida, Georgia, and the Carolinas. Hurricane nets were activated and local hams handled storm-related traffic.

One item of interest to hams who pass digital traffic in emergencies is that the FCC had issued a waiver for Pactor 4 on amateur frequencies for the purposes of passing emergency traffic related to Hurricane Dorian only. While this waiver, requested by ARRL, expired on Sept. 6th, it is worth noting that the FCC still has a docket pending to consider a change to the data speed rate. Hopefully, this event will further bolster the argument for raising those limits in the United States and the FCC will act accordingly.

In September, two of our members traveled to Albuquerque to do a site survey at the local Red Cross office. A new radio room will soon be equipped with Red Cross and amateur radio equipment. They met with local hams at the Duke City Hamfest and participated in sessions dedicated to emergency communications across New Mexico.

Locally, our Red Cross hams in Tucson participated in a military exercise at Davis-Monthan along with radio operators from Civil Air Patrol. Across Arizona, we welcome the return of hamfest season. Hopefully, you were able to get out during October to enjoy the ham gatherings in Tucson, Payson, or Maricopa. We are looking forward to the HARKFest in Congress next month and the Superstition Superfest in December. See you all there!

ADAW

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## For Sale / Wanted



**LOOK!  
Great Deals!**

### For Sale -

NOTE NOTE NOTE! We have changed our longtime meeting location.

We are now at our new monthly meeting place, the Granite Reef Senior Center, 1700 N Granite Reef Road, Scottsdale. The next meeting will be on November 7th, 2019.

Our November presentation is "Life is long enough for QRP!" Mark Gustoff, WO7T, had his interest in QRP coincide with his entry into Amateur Radio in the early 1980s. His first rig was an HW-8 he constructed followed with many other radio kits in the decades that followed. QRO radios and amplifiers brought him to today's DXCC (309 Confirmed), but by the early 2000's he had attained a QRP country count of over 100 for QRP DXCC, and today that QRP country count is nearing 200. He finds joy in all manner of low power operations especially remote, in-the-field, operations most recently. QRP can be particularly attractive to the HOA-bound ham as QRP is highly portable. Come hear about how to do it.

October's meeting was about 40-meter daytime DXing. Bill Davis, W7EXG, showed us how low sunspots are extending the hours of daylight 40 meter action. He proved that for a few weeks around December 21st, 40-meter DX should be available around the clock!

See you at the Granite Reef Senior Center in Scottsdale on November 7th! Join the informal social hour at 6:30 p.m.; the meeting will start at 7:00 p.m.

73,  
Larry, WO7R  
CADXA President

**ADAW**

#### **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)*

**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**



**No Reports Received**

# Old Pueblo Radio Club INTERMOD

## President's Column

### RACES Repeaters

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

The Yavapai ARC welcomes visitors, both licensed and those 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. The 2019 event calendar is now completed, but 2020 begins in February with the "Run Sedona" race.

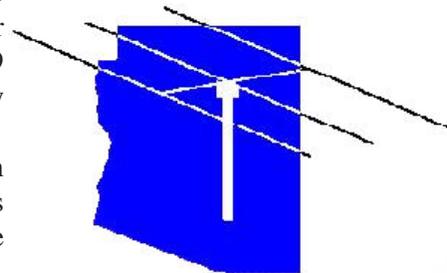
Each year, YARC operates a special event station in November for the birthday of the NRA. This year it is November 17th. Special event station K7NRA will be on the air from "Gunsite Academy" in Paulden, AZ.

Big news for YARC in 2020. For several years we have held Field Day at our club station location. Enough voices have asked for a true field location, so the next Field Day, June 27-28, 2020, will be at a remote location. More details will be given as the date advances, but it should be great fun with a minimum of hardship, HeHe!

The Prescott Hamfest is currently looking for a new venue that can accommodate our growing event. The fourth year for the event promises to be bigger and better.

YARC tries not to forget our new members and those wishing to upgrade their licenses. Testing for all classes of amateur license will be held on November 16, 2019. Pre-registration is strongly recommended for testing, and is easily done on our website [www.w7yrc.org](http://www.w7yrc.org) Test sessions for 2020 have not yet been confirmed, but will be posted as soon as they are finalized.

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.



MARCA INC.



**ADAW**

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



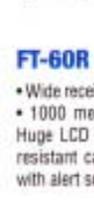
**FT-2DR C4FM/FM 144/430 MHz Xcvr**

- 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

*It's Hamfest Season. Make sure you take the time to support the Hamfests in your local area. Black Friday happens this month. Stop by the website often to catch all the specials offered to our HRO Customers. From the Phoenix HRO staff, Keep Radio Active!*

*Now serving you at our Phoenix store: Manager Ron AJ7T, Steve W7QY, Mike K7DD, Jim K7EOG, Jim KE7EUE, Richard KIRAB, and Bob W8RH.*