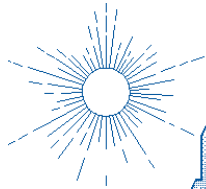


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



Happy Holidays!



ADAW

Arizona Desert Aire Waves

Vol 43, No 12 December 2018

CLUB MEETING SCHEDULE

SARC

Dec 5th
TBD - Check Website
7:00 PM

AARC

Dec 13th
Red Cross Bldg. - Phx
6:00 PM

OPRC

Dec 12th
Marshall Conference Ctr
at Tucson Medical Ctr
7:15 PM

TBARC

Dec 11th
Old Country Buffet
17125 N 79th Ave, Glendale
6:00 PM

CADXA

Dec 6th
PERA Club
7:00 PM

ARCCC

TBD
American Red Cross Bldg
Phoenix
9:00 AM

SuperstitionARC

Dec 11th
Golden Corral - Mesa
7:00 PM

MARCA

Dec 18th
Denny's Restaurant - Tempe
6:30 PM

ANSR

Dec 20th
via GoToMeeting
7:30 PM

OVARC

Dec 16th
Ascension Lutheran Church
3:00 PM

KARC

Dec 11th
Solterra at White Mtn - Show Low
6:30 PM

WVARC

Dec 3rd
Shephard of the Desert
Luthern Church
1:00 PM

ARA

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

MARA

Dec 8th
Barros Pizza
4:00 PM

YARC

Dec 6th
Prescott Rodeo Grounds
7:00 PM

TCARA

Dec 17th
Goodyear City Hall
7:00 PM

QCWA-AZ Chapter

December
TBD
12:00 PM

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 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	602.723.0700
	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

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

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	Chris Johnson	K6OZY	vicepresident@w7tbc.org
Secretary	Gary Cline	AF7BJ	secretary@w7tbc.org
Treasurer	Darren Johnson	AF7CO	treasurer@w7tbc.org
Board Members	Clair Wyant	KG7MAJ	kg7maj@w7tbc.org
	Wayne Hale	W6IZK	w6izk@w7tbc.org
	Robert Fairfield	K7RQN	k7rqn@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 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 7:15 p.m. in the Marshall Conference Center at Tucson Medical Center. 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	Ted Willis	AA7HX	520.790.3828
		(www.oprc.org)	
Trustees:	(all repeaters operating under the K7TRA call)		
Primary	Ron Kalish	N7SPW	146.660, 147.220-
	Paul VanBeverhoudt	KA7LFX	224.06+
Secondary	Ted Willis	AA7HX	146.66-
	Paul VanBeverhoudt	KA7LFX	224.06+

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	Frank Engstrom	KB7IQ	480.209.7300
Vice President	Larry Buchanan	AA0LB	623.703.9161
Secretary	Rob Rodriguez	KI7PDR	
Treasurer	Mark Kesauer	N7KKQ	602.843.0960

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. Four luncheon meetings are planned each year. The meeting months and locations are announced by newsletter, but generally follow the following schedule:

Spring Meeting	March/April	Tucson Area
Summer Meeting	June/July	Prescott Area
Fall Meeting	October	Phoenix Area
Holiday Meeting	December	Carefree Area

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.
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

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

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	Steve Miller	W6SDM	602.290.1603
Vice President	Chris Canevit	W7CGC	
Secretary	John Wiltberger	N07IN	
Treasurer	Curt Steger	NA7CS	520.568.9471
Board Members:	Ronald Beasley	KG7MUV	520.568.4880
	Bob Howard	W8RH	520.709.6176
	David French	N7FAN	480.430.9426
	Dale Dallon	KB7DD	
	Greg Harding	KG7VNZ	
PIO:	Steve Miller	W6SDM	602.290.1603
Webmaster:	David French	N7FAN	480.430.9426

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. Mailing address: P O Box 951, Maricopa, AZ 85139

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.

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 at 7:00 p.m. on the **THIRD TUESDAY** of each month (except December) at the Charles K Luster Building, 640 N. Mesa Drive, Mesa (use the glass door on your left at the main entrance). Visitors are welcome. Board meetings are held at 6:30 p.m. on the second Tuesday of each month (except December) at Black Bear Diner, 1809 E. Baseline Road, Gilbert.

President	Steve Estes	KB7KWK	480.251.0551
Vice President	Andy Keels	KD4ABB	602.809.3561
Secretary	Brent Butler	W7FK	480.332.1141
Treasurer	Douglas Mitchell	W7ADD	480.540.4110
Board Members:	Dan DeVliieger	KC7MSU	480.335.4914
	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
	Larry Fort	AB7C	480.861.7066

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277. Web Site: SuperstitionARC.org and 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.



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

MARCA, Inc., PO Box 28246, Tempe, Arizona 85285. 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 PERA Club, located at 1 E Continental Drive in Tempe. Visitors always welcome. See www.cadxa.org/meetings.html for a map. The May meeting is an outdoor barbecue at 6:00 p.m. (reservations required).

President	Lee Finkel	KY7M	ars-ky7m@cox.net
Vice President	Fred Hoffert, III	NA2U	cwman1@aol.com
Secretary	Bill Poole	AA4Q	bill@poole.com
Treasurer	Alton Chaney	W7ACX	w7acx.480@gmail.com
Past President	Tom Kramer	NQ7R	tkramer@azci.net
Board Members	Larry Loen	WO7R	lwloen@gmail.com
At-Large	Reinhard Geissler	K7RGG	d11uf@compuserve.com

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: 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.



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 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	Kathy Laing, KJ6KMK	president@w7yrc.org
Vice-President	Joe Thomas, KG6IDN	vice_president@w7yrc.org
Secretary	Art Jackson, KA5DWI	secretary@w7yrc.org
Treasurer	Mike Reid, N7IEP	treasurer@w7yrc.org
Board Members	Frank Bender, K8FB	k8fb@w7yrc.org
	Don Bauer, WB7TPH	wb7tp@w7yrc.org
	Dave Hanson, W7BJ	w7bj@w7yrc.org
	John Laing, K7PRS	k7prs@w7yrc.org

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

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. (June is normally Field Day. December is annual Christmas Party and date and location varies.) Visitors are welcome. Board Meetings are held at 9:00 a.m. at the Oro Valley PD Substation EOC on Tangerine Rd (next to WalMart) in Tucson. Check the web site at www.tucsonhamradio.org for dates.

President	Steve Wood, W1SR	president@tucsonhamradio.org
Vice-President	Fred Bresani, W2HZ	vicepresident@tucsonhamradio.org
Secretary	Carl Foster, KB7AZ	secretary@tucsonhamradio.org
Treasurer	Hanna Eckert, KG7TPD	treasurer@tucsonhamradio.org
Board Members	Ross Eckert, K4WBR	
	Scott Boone, K7ADX	
	Gary Pierce, WE7GP	
	George Cooley, NG7A	
	Marnee Dearman, KG7SIO	

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/>.

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	Merle Kissling	KB7MUB	928.386.5426
Vice President	Steve Herron	AG7GD	928.242.2558
Secretary	June Apedaile	KF7KVV	928.243.3780
Treasurer	Dennis Wilkers	W7DRW	928.739.4700

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

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.) Board meetings are held the last month of each quarter at the AZ Science Center. 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
Secretary	John O'Neal	K7JP	480.345.7800
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
Sam Marshall	N7INV	Scheduling
John O'Neal	K7JP	Teacher Packets
Bob Burleson	KG7QJ	President/Emeritus
Robert Faerber	W9AQ	Log Book

Direct Phone: 602.716.2082

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

For information: Email to carl@w7asc.org or call Jack, KD7ROB at 480.759.5195.

TRICITY AMATEUR RADIO ASSOCIATION

The TriCity Amateur Radio Association meets the **THIRD MONDAY** of the month at 7:00 p.m. in the Goodyear City Hall Conference Room located at 190 N Litchfield Road in Goodyear. Parking is available on the west side of the building. No meetings are held in June, July, August, and September. (A social gathering is held at Village Inn at 2700 N Litchfield Road after the meeting.) Weekly Rag Chew every Wednesday at Village Inn (2700 N Litchfield Road) at 2:30 p.m. All hams are welcome. Weekly net is held Wednesday evenings at 7:30 p.m. on 446.400 MHz (PL 100 Hz). Events are posted on our Yahoo Group page at <https://groups.yahoo.com/neo/groups/TRICITYARA/info>

President	Bob Nobis	N7RJN	n7rjn@nobis.net
Vice President	Open		
Secretary	Carol Melton	AK7N	ak7n@azsnaps.com
Treasurer	Arnold Knack	KA7AOK	ka7aok@gmail.com

TriCity ARA, P O Box 6293, Goodyear, AZ 85338-6293. DUES: \$18.00/yr. for individuals, \$25.00 for family. Web Site: <http://n7tca.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 the third Tuesday of the month at JB's Family Restaurant, 9889 W Bell Rd in Sun City at 2:00 PM. 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	Gary Robin	K9HDU	623.234.2252
Secretary	April Kramer	KI7GFJ	602.284.6212
Treasurer	Tom Connor	W7TLC	623.444.7956
Board Member:	Robert Paul	KG7FIL	623.252.0149
	Nancy Collins	KG6QWW	623.398.5286
	Many Blanco	KI7QLD	480.395.1653
	David Putman	W7DCP	253.307.0544
Past President	James Rogers	N7YTI	623.214.9219

Committees:

Membership	James Rogers	N7YTI	623.214.9219
Support Communications Committee Chairman	Kris Philo	AI8TT	623.853.0586
Technical Advisory Committee Representative	Frosty Oden	NQ1S	602.899.8055

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://www.westvalleyarc.com>

Email: suncitywvarc@gmail.com



ADAW

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

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**

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ADAWEMAIL adawaz@arca-az.org or adaw@adaw.org

ADAWWEBSITE www.adaw.org

Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
12K's of Christmas	Gilbert	12/08/18
JROTC Orienteering - First Water		12/08/18
	First Water Trailhead - Superstition Mtns	
Scottsdale Half Marathon	Scottsdale Civic Ctr	12/09/18
Xterra - White Tank	Waddell	01/06/19
Prickly Pedal	Cave Creek-Lake Pleasant	01/19/19
JROTC Orienteering	Sophies Flat	01/26/18
Pancake Run	Paradise Valley Mall	02/03/19
Xterra McDowell Mtn	Fountain Hills	02/03/19
Black Canyon 100K		02/16/19
	Spring Valley to the Emery Henderson Trailhead	
Lost Dutchman Marathon	Apache Junction	02/17/19
JROTC Orienteering - First Water		02/23/19
	First Water Trailhead - Superstition Mtns	
Xterra Black Canyon Trail Run		03/10/19
	Black Canyon City	
ADA Tour de Cure	North Valley	03/16/19
Mesquite Canyon	Waddell	03/16/19
Crown King Scramble	Lake Pleasant to Crown King	03/30/19
El Tour de Mesa	Mesa	04/06/19
March of Dimes for Babies		04/13/19
	Wessley-Bolin Park, Downtown Phoenix	
Zane Grey 50 Highline Trail Run		04/27/19
	Payson Mogollan Rim	
Barnburner Mountain Bike Ride		09/07/19
	Kendrick Peak (Northwest of Flagstaff)	

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

For information, contact Dennis Bietry - KE7EJF at 602.274.3732 - email, ke7ejf@cox.net, or contact the Event Coordinator for the event.

ADAW

ADAW



From The Editor's Desk

**SKYWARN Recognition Day 2018 is
Saturday, December 1 UTC**

The Arizona Department of Emergency and Military Affairs is offering Auxiliary Communications training on December 15 - 16, 2018 at the Pima County Office of Emergency Management in Tucson. The class runs from 8:00 AM until 7:00 PM each day and is designed for those who volunteer to provide communications support for public safety agencies - amateur radio operators - Radio Emergency Associated Communications Team (REACT) - and others. If you are interested in helping provide communications during an emergency, this is the class for you. To learn more about this opportunity, see the flyer from the Arizona DEMA included in the flyers attachment.

The Superstition SuperFest 2018 will be held in just a few days. This all-day event is always a lot of fun. There will be tailgaters, vendors, meetings, VE testing, ARRL Card Checking, a Special Event Station commemorating the USS Arizona, a GOTA station, and a Fox Hunt. Food and Drinks will be available from an independent vendor and live 60s & 70s music will be provided by John J, KD8PC. All this and more will be happening on Saturday, December 1, 2018 in the parking lot at the Mesa Community College. Hope to see you there.

SKYWARN Recognition Day 2018 will take place on Saturday, December 1 this year. This special day celebrates the contributions made by volunteers to help the National Weather Service protect life and property. The on-the-air event will take place from 0000 to 2400 UTC on several of the amateur bands utilizing various modes. See the article in the next column for more details.

In January 2019, Arizona will elect the person to serve as ARRL Arizona Section Manager for the next two years. Two candidates are currently vying to fill that position, current Section Manager, Rick Paquette W7RAP and Public Information Coordinator, Virgil Silhanek, K7VZ. Information to help you make your decision can be found on page 20 of this month's ADAW. If you are an ARRL member, be sure to cast your vote for one of these dedicated individuals.

Please Note: The Arizona Desert Aire Waves does not endorse either candidate and will remain neutral. The decision is yours. Just as with the national election that was just completed - YOUR VOTE COUNTS! Make your voice heard.

From the entire ADAW staff, we wish you a very Merry Christmas, Happy Hanukkah, Joyous Kwanzaa, Happy Festivus (or whatever you celebrate) and a Happy, Healthy New Year.

See you next year!
Chris, N7PVL

ADAW

SKYWARN™ Recognition Day (SRD) 2018 takes place on Saturday, December 1, from 0000 until 2400 UTC. Developed in 1999 by the National Weather Service (NWS) and ARRL, SRD celebrates the contributions that SKYWARN volunteers make to the NWS mission, the protection of life and property. During SKYWARN™ Recognition Day, special event stations will be on the air from NWS offices, contacting radio amateurs around the world.

“Amateur Radio operators comprise a large percentage of the SKYWARN™ volunteers across the country,” the NWS announcement said. “Amateur Radio operators also provide vital communication between the NWS and emergency management, if normal communications become in-operative.”



The object of SRD is for all amateur stations to exchange contact information with as many National Weather Service stations as possible on 80, 40, 20, 15, 10, 6, and 2 meters, plus 70 centimeters. Contacts via repeaters are permitted. Stations should exchange call sign, signal report, and location plus a quick description of the weather at your location (e.g., sunny, partly cloudy, windy, rainy, etc.). EchoLink and IRLP nodes, including the Voice over Internet Protocol Weather Net (VoIP-WX), are expected to be active as well.

Stations will employ various modes, including SSB, FM, AM, RTTY, CW, and PSK31. While working digital modes, special event stations will append “NWS” to their call signs (e.g., N0A/NWS). It's suggested that during SRD operations a non-NWS volunteer serve as a station control operator.

Event certificates are electronic and printable from the main website at the conclusion of SRD. Submit SRD log summaries using the online submission form.





AMATEUR RADIO SERVICE DEMONSTRATION STATION

As this is the last Newsletter in 2018, we take the time to reflect on the events of the year at W7ASC. This has been a good year at the station. Field Day was, as usual, well attended. Extra volunteers manned the Morse code demonstration positions, awarding certificates and “I Sent My Name in Morse code” badges.

Throughout the year, many visiting children announce that they have been taught Morse code in school! That is, of course, a good thing to hear. But what inspired the teachers to add this detail to the curriculum? Could it be those comprehensive Teacher Packets that are handed out to visiting teachers who come by the Station? John K7JP, who “invented” those packets, is, himself a retired teacher, so he has a good feeling for material that works in the classroom. These packets contain materials about Ham radio. When those children enter the station, usually as part of a school field trip, the volunteer on duty does not need to start with the basics. Those children are usually eager to actually hear Morse code. They have only seen the dots and dashes on paper. The transition to using the Key is quick and easy.

Those of you have never visited the Station (“The Shack”) at the Arizona Science Center are probably unaware that there is a log book in which visiting Hams are asked to register. This log includes an impressive record. As one looks through the Log, the range of visitors will certainly impress. It is almost possible to reach a WAS award, and certainly a Century mark. It is almost as if there is a big, illuminated CQ sign hanging over the Shack entrance. Like to meet Hams? Hams from other countries and other regions? Sign up to volunteer at W7ASC. In addition, many visitors do not speak English! The Arizona Science Center attracts visiting students and tour groups. If you speak another language, you might get a chance to use it face-to-face, as well as on the air.

All of us who hold a license are generally aware that there is no statutory age limit to Ham radio. In fact, one could argue that it is inherently tilted toward the young as new technology intrudes into the Ham environment. It is still, however, a surprise when a real person keys up and responds to your CQ. Still more surprising is when a really small person visits the Shack and displays a license! This happens more frequently than you might guess. W7ASC has, in its history, had two Volunteers who were 10 years of age. One, a young lady, is

Continued Next Column

CARL Continued from Previous Column

now attending college. No surprise – she is on her way to an engineering degree.

You might hear our youngest Volunteer on the air. He started when he was 10. Time marches on, so now he is a mature 11. Gavin does a great job, either with visitors, in person, or on the air.

Many of the W7ASC volunteers carry a Medicare card. This gives visitors the impression that Ham radio is only for senior citizens. The truth is that the hours of operation tend to favor older persons, simply as a result of work or school schedules. If you are younger, or know younger Hams, the Ham shack schedule can be tweaked to make allowances for odd hours of availability. You, or your young acquaintances, would be welcome to join in the fun at the Station. Call the direct number, or visit the web site, for more information.

Volunteers do more than just teach visiting cherubs to do Morse code! The Station is in a constant state of flux. Equipment fails and must be repaired or repaired. New Ham software becomes available. The Station should be demonstrating the very latest technology, if possible. The Volunteer group is very democratic. Yes – there are officers and a Board of Directors, but each volunteer has a voice in the operation of C.A.R.L. which is the formal organization to which the Volunteers belong. But every volunteer is equal and every voice is heard. Consider adding your voice, and your skills/experience/interests. **W7ASC GOES WHERE THE VOLUNTEERS TAKE IT!**

The photo below is of a cell tower in Panama Beach, Florida. It has been damaged by the recent hurricane Michael. Cell service is not very satisfactory in that area at this time. This is an example of why the people in that area are fortunate that there are Hams there.



Until next year,
73 de W7ASC
jeanjol@hotmail.com 480-664-7353





TBARC Continued from Previous Column

two members who join or renew. The first gift pack will be drawn at the January 2019 meeting, and will go to someone who has joined or renewed for 2019 by December 31, 2018. The second gift pack will be drawn at the April 2019 meeting, and will go to someone who has joined or renewed for 2019 by March 31, 2019. If you join or renew by December 31, 2018 you'll automatically be entered in both drawings. Double your chances to win! You can renew on the club website w7tbc.org.

Things are well underway for the Thunderbird Hamfest 2019, which is happening on Saturday, January 12, 2019. It's at a new location, with more space - and we're only a few minutes from the old location. This year you'll find us just north of Cactus on the west side of 59th Avenue, at the Glendale Nazarene Church, 5902 W. Cactus Road, Glendale. (We thank them for their hospitality!) The hamfest is open to vendors at 7:00 AM, and to the public from 8:00 AM to 12:00 noon. This year we have an expanded selection of prizes: a Yaesu FT-891 base station, a Yaesu FTM100DR mobile, and a Yaesu FTM 7250DR mobile, as well as an FT-60 handheld. You don't have to be present to win these - so if you see the TBARC table at other local hamfests, pick up a few tickets and boost your chances for a good cause.

Things get really busy around the third Thursday of December. We can't compete with the last-minute shopping and thousands of other things you'll be doing. So as with previous years, there will be no general meeting. Instead, join us at the party on the second TUESDAY, December 11, 2018, at Old Country Buffet, 17125 N 79th Ave., at 6:00 PM. We hope to see you there!

Andrew Cornwall
KF7CCC
kf7ccc@arrl.net

We blew away the competition in our category for the AZ QSO party! When everything was counted, we'd acquired a score of 30240 points - putting us at the top for "Multi-Op Unlimited Tx - Arizona." Eight TBARC members took us through the event: Walt NJ8G, Brian AK7F, Jack NT7MM, Gary AF7BJ, Gary KD7FVI, Bob K1FJC, Mike K7DD, and Robert K7RQN. They all pounded the brass or took the mic - or both. That got us 146 CW QSOs and 86 phone QSOs. Thanks to everyone who helped out!

By the time you read this, we'll know who our new board is, since elections finish up at the November meeting. Right now, though, I can only predict two board members with certainty: Clair KG7MAJ and Andrew KF7CCC are the two board members whose terms expire at the end of 2019, so they'll be there for sure. The rest is up to the membership - and the results have traditionally been announced at the annual Christmas party.

The Christmas party itself is at the same place it was last year. We hope to see you on Tuesday, December 11, 2018 at 6:00 PM at the Old Country Buffet, 17125 N. 79th Ave, Glendale, AZ. Cost per person is \$13.75 at the door (mention you're with TBARC for the special rate). Hope to see you there!

You may hear some unusual callsigns on our repeater system. We were approached by a group of hams from Sun City Grand who were looking for a place to meet on-air. They want to become a communications resource for Sun City Grand in the event of a future emergency. We are happy to have them, and to provide this service to the ham community! You'll hear them on our repeaters on Mondays from 10:00 to 11:00 AM local time as they sharpen their emcomm skills. Welcome aboard!

October's TBARC meeting featured Ned Stearns AA7A, who told us about his Baker Island 2018 DXpedition. This time it wasn't the rough seas and penguins, but instead the sea birds and FT8 that made the trip notable. It's interesting to see how FT8 has taken over. It's more efficient and faster than even CW. I expect we'll start to see really amazing numbers as we get into the next solar cycle.

We've started our membership drive for 2019. This year, we've got two gift packs (including headsets and swag) that were kindly donated by Heil Sound. They'll be given away to

Continued Next Column

ADAW





For Sale / Wanted



LOOK!
Great Deals!

For Sale -

Kenwood TS590s with Power Supply - \$800
Yaesu G450A controller and rotator - \$375

20-foot Rohn tower
 Coax and many extras

Cushcraft A4S Tri-band beam - \$350
 (20m, 15m, and 10m)

6 meter vertical antenna

Located in Glendale. You must take down tower. All equipment in excellent condition. Will sell entire package for \$1400 or prices listed above. Contact Terry Liesegang, W7TRL at liesegangt@yahoo.com

A-4 Antenna For Sale - \$450

This is an older model that does not have the stainless steel hose clamps on the elements. It is the same size and has the same features as the modern A-4S. The mast mount plate is new, and some of the elements have been replaced with stock A-4S parts. The antenna is stock - does 10, 15, & 20 meters. It does not have the 40 meter add on. It is boxed and ready to go now. Contact: Bob Howard, W8RH at 520.709.6176 voice/text or email w8rh@live.com.

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 or Bob Kettler WA6MIO at rdkettler@msn.com.

The November 8 meeting of the Arizona Amateur Radio Club was an interesting one, President Gary Hamman had members introduce themselves with their names and call signs and answer the question "Have you provided radio communication for an emergency event?" Surprisingly enough only around three said they had provided some radio emergency communication, and the rest said they had not provided radio emergency communication.

The evening's program was a presentation by Mark Steel, KI7RB, on the RC hurricane response. Mark went to Panama City, Florida, as a volunteer for the RC the first couple of weeks in October. He showed photos of the vast devastation in the area and the work done there by the American Red Cross with its emergency response vehicle. The Red Cross was able to serve 3,000 meals twice a day. Kitchens were set up in Southern Baptist churches.

After the evening's presentation by Mark Steel, President Gary went over the Christmas party list and updated it. The annual Christmas party will be at the Red Cross Building on December 13. It is our tradition to have a potluck dinner every December with both ham and turkey furnished by the AARC and other dishes provided by members and their spouses. It is always a pleasure to get together with members' families at this time of the year.

73 and best wishes from the AARC for a Merry Christmas and a Happy 2019.

—Lori Cripps, WA7EDI






Charlie Zurenko provided us this photo of the new Nissan Titan Red Cross vehicle. His comment: "I thought I would share this picture of a new Red Cross vehicle. It showed

up in my Instagram feed this weekend and was on display in Las Vegas at the annual SEMA show. Check it out. You can drool, but don't hold your breath."

Thanks, Charlie!!



R.J. CARLI ENGINEERING CORP

 <small>ELECTRICAL CONSULTING</small>	 <small>MECHANICAL CONSULTING</small>	 <small>PLUMBING CONSULTING</small>	<p style="font-size: small;">7311 E. STETSON DRIVE SCOTTSDALE, ARIZONA 85251</p> <p style="font-size: small; font-weight: bold;">RAYMOND J. CARLI, P.E. ELECTRICAL ENGINEER W7GNE</p> <p style="font-size: x-small;">(480) 941-8810 (OFF.) (480) 945-7020 (FAX)</p>
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If anyone is considering a major radio shack, workshop, addition or going into business for yourself, I am offering professional Electrical, Mechanical and Plumbing Engineering services to radio club members at a 20% discount for residential property, and 10% discount for commercial property. Talking is always free.



2018 has been a great year for Amateur Radio in Arizona. Hams have enjoyed all aspects of the hobby from HF to VHF/UHF, contesting to rag chewing to Public Service.

On HF, Hams are making contacts in multiple countries around the world, including DXpeditions to Baker Island (baker2018.net) in June and Ducie Island (vp6d.com) this fall. These were in addition to Field Day in June and the Arizona QSO Party in October. HF is still a popular part of the hobby. Aside from the main stays of SSB and CQ, FT8 and Digital modes are on the rise. Baker and Ducie were among the first DXpeditions to use FT8 and it proved very successful.

The ARA is noted for its many repeaters. This year, the number grew. Early this year, we added Towers Mountain to our list of sites. Towers Mountain is the Hub for the Northlink Repeater System. The site was converted to the ARA standard, but remains the hub for Northlink. This fall, the White Tanks site rack was upgraded and the Northlink Spoke radio was reestablished on White Tanks.

The ARA Tech committee has been busy all year and managed to keep all sites operational. Some of these sites are 20+ years old with Radios much older than the site.

The ARA has also sponsored youth programs. ARA is the sponsor for Explorer Post 599. The post meets weekly to learn electronics, build projects and master their radio skills. This year was their second year participating in the Maker's fair and introducing the hobby to non-hams. Each year, the post places high on the AZ entries in the ARRL's Field Day operating as a "2A" and year-after-year achieves the maximum contacts/points on the Get on the Air station (GOTA). These 500 contacts are made with the help of the leaders by new or less experienced hams, or non-hams. If you have youth (14-21 years of age), bring them to the meetings on Tuesday nights for a fun time with the crew (post599.org)

The Organization is not complete without its contribution to the community. ARA encourages the weekly training nets, many public service nets. ARA participates in State and County Emergency preparedness. There are plenty of opportunities to help and we provide the training opportunities.

It has been a busy year for the Amateur Radio and the ARA. Please plan on joining us at the meetings in 2019 (<http://w7ara.org/mtg/Meetings.aspx>).

by Brian McCarthy AK7F



Hello all SARC members and all hams. This month has been very busy for me, hence I am late creating this material for ADAW December issue. We have been having good instruction at our Ham in the Park with the FUSION digital communications on our repeaters and other digital repeaters in the valley. The digital repeaters have a DGID function (digital ID) that ID is a new format for us 'old hams' learning new modes and requirements for the digital modes . . . At our last HIP we had ten participants, which is good. The whole activity was dedicated to FUSION.

At the Saturday Breakfast, we had four in attendance. Most of the communication was a demonstration by Arturo using FUSION for talking to Italy and Hungry. FUSION seems to be catching on.

We have completed our second raffle, and have started a third one. It will be another YAESU FTM-100DR. Raffles following this one will most likely be FUSION hand radios. The Raffle is open to all hams. Tickets will be available at the general club meetings, the Board meetings, the Ham in the Park, and the Saturday morning Breakfasts.

Look at the club Website for more information. WWW.scottsdalearc.com The Board of Directors has been spending much of its time preparing for our HAMFEST in March. We are looking to have a great event.

We have sold much of the donated rigs and ham type stuff. We have to make a new list of items for sale.

73's Paul W7EFQ



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.





Arizona Red Cross Communications Club

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



We had a great time at our November 17th meeting and Open House. There was lots of great food and member participation. We also enjoyed meeting with guests who were interested in what we do at the Red Cross Communications Club. Plan is to have a couple more of these in the future, so be on the lookout for those announcements in this column.

Thanks to Frank KB7IQ, Charlie N2TFS, and Larry AAOLB, the command van now has its awning reattached, the body seam repaired, and a new rooftop solar panel to keep the house batteries charged. You can inspect their handy work at the Superstition Hamfest on Dec 1st where it will be in attendance.

As with any club that’s been around for a while, we have accumulated lots of equipment over the years. Some of this gear is no longer applicable or too old to support what we do, so we’re planning on selling it to benefit the Club. Even though our primary function is to support the Red Cross communication wise, we receive NO funding from the Red Cross itself. Most of our current equipment is made possible through generous donations by our members and outside individuals and organizations. It is our hope to modernize the equipment both in our “Shack” and “Comm Van” with these proceeds. So be sure to check out our “For Sale” section on our website in the coming days – www.k7arc.org – and at various local hamfests.

Our Tuesday radio nets are becoming well attended. Be sure to check them out as well. The first one is at noon (12:00 PM) and the evening one is at 7:30 PM. Both are on our 2M K7ARC repeater – 146.84 (-) 162.2 PL and on Echolink – K7ARC-R. These are done in conjunction with our friends at the Public Service Amateur Radio Group.

BTW – our thanks to Frank, KB7IQ and Doug, K0VPL for tweaking our 2M repeater duplexer.

Your Humble Scribe,
Mark, N7KKQ



October has been another good month for the Kachina ARC. The monthly club meeting was held on 9 October during which officer nominations for this coming year were made. The election of officers for 2019 will be held during the November meeting on 13 November.

During the past month, Kachina ARC members provided communications for the 23rd annual Epic Rides “Tour of the White Mountains” bike race held on October 13th. This annual event is held in the beautiful Apache-Sitgreaves National Forest in and around Pinetop-Lakeside. The Kachina ARC has provided assistance with communications during this annual event for the past several years.

During the summer months, we have presented an Emergency Communications booth at several events such as the White Mountain Disaster Preparedness Fair in Lakeside, the Disaster Preparedness Fair in Heber, the annual Taylor-Snowflake Pioneer Days, the Cruz’n the Rim Car Show in Show Low, and of course, the White Mountain Hamfest. At each event, our Emergency Communications booth was well received by the public. In addition to these events, we participated in Field Day at the Woodland Lake Park in Pinetop at which we set up a table for the public to come and discuss emergency communications.

Each year the threat of a wild land fire during the spring and early summer months offers an opportunity for the Kachina ARC, and the Amateur Radio community, to play an important role in and for the local area.

The period between Thanksgiving and the end of the end of the year is generally centered around family and the holidays. It is also the time the newly elected club leadership begins their planning for the coming year’s activities. This time period also allows us to reflect upon the past 12 months. It causes us to pause and be thankful for the many blessings we have received, the friends we have made, the opportunities we’ve had to help others and serve those in a crisis, and the fruit of our efforts to bring new Hams into the hobby. We appreciate being a part of the Global Ham Radio community and the fun that Amateur Radio affords.

73,
The Kachina ARC



Hamfest Calendar

1 December 2018 - **Superstition SuperFest 2018** - 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, Food Vendor, and Drinks will be available. Contact the Hamfest Chairman at chairman@superstitionsuperfest.org for more information.

12 January 2019 - **Thunderbird Hamfest** - hosted by the Thunderbird Amateur Radio Club will be held at Glendale Nazarene Church, 5902 W Cactus Road in Glendale. Keep watch here for all the details as they become available. Visit the TBARC web site at www.w7tbc.org for up-to-date information.

20-26 January 2019 - **Quartzfest 2019** - This year's event will be held seven (7) miles south of Quartzsite, AZ on US95 at La Paz Valley Road. Everyone can attend. Everything is free. A week long event with Seminars and Activities for everyone. VE Testing Available. Food, Movies, 4x4 Off Road Trip, Campfires and More. Everyone is welcome to attend. For more information, contact Kris, KR1SS at kristynweed@gmail.com or visit web site at www.quartzfest.org.

15-16 February 2019 - **Yuma Hamfest** - hosted by the Yuma Amateur Radio Hamfest Organization will be held at the Yuma County Fairgrounds, 2520 E 32nd Street in Yuma. Watch for details. Web site: www.yumahamfest.org.

16 March 2019 - **SpringFest** - hosted by the Scottsdale Amateur Radio Club will be held at the Mountain Valley Community Church, 17800 North Perimeter Drive in Scottsdale. Hours are 6:00 AM until 12:00 noon. Overnight RVs are welcome. Refreshments, VE Testing, Tailgating and more. Talk-In: 147.18 (PL 162.2). Contact: Ed Nickerson, WU7S at 480.949.5162 or email at enickerson427@aol.com. Visit the website at <http://www.scottsdalearc.org> for all the latest information.

20 April 2019 - **April Hamfest at DeVry** (date tentative) - hosted by the Arizona Amateur Radio Club and the Arizona Red Cross Communications Club will be held at DeVry University, 2149 W Dunlap Avenue in Phoenix. Hours are 6:00 AM to 11:00 AM. Admission Donation: \$2.00. Tailgate Spaces: \$10.00 each. VE Testing in school library at 9:00 AM. DX QSL Card Checking from 9:00 to 10:00 AM. Commercial Vendors - Tailgaters - Prizes - Coffee - Doughnuts - Sodas. Talk-In on 147.060 (+) PL 162.2 Hz. Contact Gary Hamman at k7gh@arrl.net or 602.996.8148 for information or to reserve a space.

4 May 2019 - **Cochise Hamfest and 7th Region Communications Exercise** - hosted by the Cochise Amateur Radio Association will be held at the club site, 2756 South Moson Road in Sierra Vista. Gates open at 7:00 AM. Free Admission and Parking. Tailgating - \$5. Inside Table - \$10. VE Testing from 9:00 until 11:30 AM. Coffee, Pastry, and Drinks Available. Hourly Prizes with Main Prize drawing at 12:00 Noon. Talk-In on 146.76(-) PL 162.2 Hz. Watch for more details.

31 May - 1 June 2019 - **2019 Prescott Hamfest at ERAU** - hosted by the Eagle Amateur Radio Club at ERAU and the Yavapai Amateur Radio Club will be held at Embry Riddle Aeronautical University (ERAU), 3700 Willow Creek Road in Prescott. Watch for details. For up to date info, visit the website at www.prescotthamfest.com

27 July 2019 - **White Mountain Hamfest** - hosted by the Kachina Amateur Radio Club will be held at 1101 Woodland Road in Lakeside. Overnight camping may be available. VE Testing, Demonstrations, Hourly and Grand Prizes, Tailgaters, and Refreshments. Further details to follow. Visit the web site at www.kachinaarc.org and click on "Hamfest" or email info@kachinaarc.org for up to date information.

ADAW



December 21st



The CADXA Nominating Committee presented its slate for 2019 at the November meeting as follows:

- President - Larry Loen, WO7R
- Vice President - Tom Boza, NE7X
- Treasurer - Mike Wright, N7MW
- Secretary - Bob Davies, K7BHM
- Member-at-Large-Fred Hoffert III, NA2U (2-year term)

Also on the 2019 Board will be:

- Member-at-Large - Reinhard Geissler, K7RGG
(second year of 2-year term)
- Past President - Lee Finkel, KY7M

In accordance with the CADXA Constitution, receiving no additional nominations from the floor, the slate presented by the Nominating Committee was elected by acclamation vote. Congratulations and thank you to the new club leaders for 2019!!! They will be officially installed at the Annual Awards Banquet on January 19, 2019. A special thank you to Bob Davies, K7BHM, for chairing the Nominating Committee again this year.

There are quite a few individuals and groups activating various DX entities heading into December including Palestine (E44WE), Iran (EP6RRC), Tonga (A35EU), East Timor, and Montserrat. The full list is linked on the CADXA website home page, lower right column under "ADXO." While the HF bands above 17 meters continue being stingy with DX propagation, there have been openings some days, especially on 15 meters.

There will also be plenty of DX activity before, during, and after the CQWW CW contest on November 24-25. Several CADXA members will be in Curacao at the historic PJ2T station for the contest. Many of the CQWW contest stations will be active on voice and digital modes outside of the contest. It is a great opportunity for DXers to add countries to their DXCC and Challenge totals.

The December Meeting will be held at 7:00 p.m. on Thursday night, December 6th, at the PERA Club. Larry Loen, WO7R, will present "QSLing for Dxers — Do's and Don'ts." Larry has been DXing since the late 1980s and has achieved DXCC Honor Roll. He needs only zone 21 on 80 meters to complete 5BWAZ. He has nearly achieved 2,200 band countries confirmed on the DXCC Challenge. From the beginning, he has designed his own QSL cards and has made a serious study of "what works" to get cards back and has succeeded with nearly every method to get a confirmation. He has also paid some attention to how QSLing has changed over

Continued Next Column

CHAPTER 16

BARRY M. GOLDWATER ARIZONA CHAPTER

Have you been a ham for at least 25 years? Then celebrate by joining the Quarter Century Wireless Association!

The Barry M. Goldwater Chapter 16 Arizona chapter has four lunch meetings a year with fabulous speakers. Check us out at <http://www.azqcwa.org/> we are also on Facebook at <https://www.facebook.com/AZQCWA> We are always looking for speakers and great lunch locations. Let us know.



CADXA Continued from Previous Column

the years and what it might mean for all of us. If you want to get more of your QSOs confirmed, come by and have a listen.

Please feel free to arrive early to socialize with your friends. Refreshments will be served at the break. Guests are always welcome. The new parking lot south of the PERA Club is the place to park for the meeting while building construction continues in the old parking lot.

73,
Lee, KY7M
CADXA President



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*

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.

December Test Sessions

Dec 1st - NOMADS -- 9:00 AM

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

Dec 1st - Oro Valley ARC -- 10:30 AM

Ascension Lutheran Church, 1220 W Magee Rd, Tucson
 Contact - Quinton Gleason licensing@tucsonhamradio.org

Dec 3rd - West Valley ARC -- 7:00 PM

Desert of the Shepherd Lutheran Church, 11025 N 111th Ave,
 Walton Hall, Sun City
 Contact - David Morrill 623.680.5011

Dec 6th - CARBA -- 7:00 PM

Lighthouse YMCA, 2900 N Columbus Blvd, Tucson
 Contact - Matthew Grossman 520.750.7189
 Pre-Reg by email preferred - veregistration@rstclub.org

Dec 8th - NOMADS -- 9:00 AM

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

Dec 10th - Radio Society of Tucson -- 7:00 PM

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

Dec 15th - Unsponsored -- 10:00 AM

Kingman Fire Station #1, 2470 E Butler Ave, Kingman
 Contact - Daniel Miller 928.897.3883

Dec 15th - NOMADS -- 9:00 AM

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

Test Sessions Continued from Previous Column

Dec 17th - East Valley VE Team -- 6:00 PM

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

Dec 18th - Motorola ARC of Arizona -- 5:00 PM

Denny's, 825 S 48th St, Tempe
 Contact - Edward Olague 602.885.7725
 No-Walk-Ins - Pre-registration required

Dec 19th - Thunderbird ARC -- 6:00 PM

Honor Health Medical Office Bldg, 19841 N 27th Ave, Phoenix
 Contact - James Skinnell 602.826.1949

Dec 20th - 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.

Dec 22nd - NOMADS -- 9:00 AM

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

Dec 22nd - Arizona ARC -- 7:00 PM

American Red Cross, 4747 N 22nd St, Phoenix
 Contact - Gary Hamman 602.996.8148
 No Walk-Ins - Call Ahead

Dec 28th - NOMADS -- 9:00 AM

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



*Hanukkah Begins
 Sundown December 2nd*



Continued Next Column



Emergency Communications Since 1961

SHORT SKIP

Copafest 2018, the fourth year of our annual event, was very successful. We gave out a record number of raffle prizes and had great attendance. The new sound system, on loan from ARCA as part of their hamfest support package, was a big improvement over last year.

If Murphy didn't attend a hamfest, one would believe that something was amiss. This year, he appeared as a glitch in the audio-visual and presentation equipment in the meeting rooms. The IT group from UltraStar was quickly on top of it, but not before it caused a bit of frustration.

In keeping with our tradition, Arizona Near Space Research flew ANSR flight 119, a high altitude balloon carrying a variety of ham radio and college student payloads.

Planning is already underway for Copafest 5.0 to take place next October.

On Thursday, November 8, The Pinal County Board of Supervisor's sponsored a STEAM Day event which was presented by The Maricopa Ak-Chin STEAM Foundation, Inc. STEAM stands for Science Technology Engineering Art and Mathematics.

The Maricopa Amateur Radio Association was invited to partner with our local CERT organization to present hands-on demonstrations of various types of technology. Included were HF radio communications, APRS, Raspberry Pi and Arduino technologies as they apply to ham radio.

Maricopa CERT (Community Emergency Response Team) was invited to participate in the STEAM Education event. Since this program is to help introduce and educate students to science and technology, they reached out to some of their members that were amateur radio operators, which included members of MARA, to give a presentation on amateur radio. Bob Proctor N6YPE, brought several examples of radios, and a home brew loop antenna for display. Curt Steger NA7CS was present to discuss how the internet integrated into radio communications, John Mulquin KG7NQA was present to discuss CERT, Chris Canevit W7CGC discussed APRS, and Steve Miller W6SDM participated as a rover with his APRS beacon. The display was received well, and it was surprising how many kids were intrigued by the technology. Overall it seemed like it was received well, and we would look forward again to participating in the future, and look on how to engage the kids more.

Other demonstrations included engineering activities from various Maricopa schools, computer coding, virtual reality,

Continued Next Column

Our club's first Oktoberfest picnic in the park took place at Beardsley Park in Sun City West. A great time was had by all. There was no shortage of hamburgers etc. with plenty of sides. The event was extremely social and everyone had a chance to see and meet the faces behind the voices.

October 21 was the date of our participation in Jamboree on the Air. April, KI7GFJ rescued this event and ended up producing a very successful evening for both the scouts and our club. Assisting April were Krissy, KI7GFJ, Gary, K8BKB and Bill, W7JZE

Every year our WVARC presents a Ham of the Year Award. The recipients are chosen by the winner from the previous year. This year the presenter was April, KI7GFJ. April had such a rough time narrowing her selection to one so a very necessary exception was made to choose two persons as award recipients: Jim, K7YTI and Manny, K7QLD. I couldn't agree more with April's choice. Jim Rogers, as past president of our club, continues to be extremely involved. The WVARC is Jim's "baby" and he is always there to advise, guide, and mentor. Manny Blanco is more energetic than any three people I know. Manny's energy is extremely focused on our club. Although his ambitions have him working three jobs, Manny always stands ready to pitch in to a maximum degree for our club. When you see or talk to these guys, please be sure to thank and appreciate them.

I am very pleased to announce that four persons took and passed their license exams at our November meeting. Our Volunteer Examiner testing program is headed up by David, N7TYT.

73,
Gary, K9HDU



MARA Continued from Previous Column

robotics, 3D printing, and STEAM in ART. The event included business and college organizations that offered activities in Science Technology, Engineering, Art, and Math.

73 de Steve Miller, W6SDM

Contributing to this column was Chris Canevit, W7CGC.



HAPPY THANKSGIVING to EVERYONE!

And speaking of Thanksgiving, we are very grateful to all of those that visited our Oro Valley Amateur Radio Club Hamfest on November 10th. So many commented that it was the best one we've ever had.

Tailgaters starting arriving at 5AM to begin setting up for, what turned out to be, a productive day. Nearly everyone was able to get a space under the solar panels. Thanks to Patrick, WD9EWK, for making the trip from Scottsdale to show us all how simple satellite operations can be. Thanks to all of the speakers for our seminars; some of them were jam packed. Thanks to Carl for all of the seminar planning and execution. Thanks to Quinton, NU7Y and his team of VE volunteers that administered FCC testing; a few new hams were born. Thanks to Scott, Chris and Paul for running the parking along with Judy, Kiersten and JW for helping with Vendor Parking. Howard, Tom, Chris and Bev did a great job administering the raffle. Thanks to TomK, Gary and Fred for running the sales table; the donations and the sales were fantastic. Hanna & Ross . . . thank you so much for all of your help all over the place. There were a number of other volunteers that helped out with so many vital items. To all of you that made this event happen, I Thank You!

We were so pleased to have The American Legion Post 132 perform the Presentation of Colors at our event. With Veteran's Day, just a day later, it was a perfect time to remember those who have served our country.

One of our Directors recently accepted a new executive position and has since relocated. George, NG7A, was our resident technical guru. George has great respect for loop antennas, but he never showed us his loop for 160 meters nor did we see the video of the "burning bush" that he ignited from an outdoor mismatch. (They didn't admit to it, but his neighbors are sleeping very well now that he's gone) We are hoping that once George settles into his new job, that he will be able to do an SKYPE presentation for us . . . perhaps something about 6 meters George. Best of luck to our friend George; You will be missed.

Our October Operating event took place at the city park in Tombstone. Bullets once flew there, now RF prevails. It was a busy weekend, which is always the case in Tombstone, so we managed to introduce ham radio to plenty of visitors.

We are always looking for new members. If you're reading this column, please consider joining us. We are one of the most active clubs in Arizona.

73, Steve, W1SR





Superstition Continued from Previous Column

2019 Board Election Results Posted in January

Election results will be posted on our website possibly when this issue hits the inbox or soon thereafter. Results will appear in the next issue of ADAW.

Please see Page 3 of the Member Clubs section for club meeting location and schedule. Our 2018 Officers and Board are listed there.

President's Corner

Steve, KB7KWK

The end of the year is approaching fast and it is almost time for our club's biggest event and fund raiser. We all refer to it as the Superstition SuperFest. To most it is the hamfest. Last year the club saw the biggest SuperFest in the club's history as far as vendors and attendance. We hope to see the same or better this year.

The guys on the SuperFest committee have been working on it since January and they have put together quite a prize list for this year.

The guys are looking for some volunteers to help out. As always, there is plenty to do to keep the SuperFest running smoothly. So if you can, please help out. You can work for as little or much time as you want. See John, KG7NSP if you can help.

I am proud to say that we have also had some record attendance at our club meetings. It has been awesome to see 50 to 70 people at the meetings. I would like to think that is because the people on the board of directors are doing a great job keeping things running and bringing great programs to the club meetings.

Remember also that the December meeting is actually the club Christmas party on Tuesday, December 11th at the Golden Corral at 1868 N Power Rd., Mesa. Cross streets are Power and McKellips and the party starts at 6:00pm. Hope to see as many people there as we do at the meetings.

November is the month we hold our elections for the new board of directors and officers for 2019. We already had nominations during the October meeting. It looks like all of the current Board and Officers with exception of two will run again (as this was written before the November meeting—Ed.). Please attend this meeting to vote and remember you must be an up-to-date paid member of the club to vote.

73, and I hope to see you at the next meeting!

ARCA and ARRL are Superstition SuperFest Sponsors

Amateur Radio Council of Arizona and American Radio Relay League are sponsoring the club's Superstition SuperFest, which will be held Saturday, December 1.

When you place Amateur Radio Callsign Plates on your vehicle, out of the \$25 you pay the MVD, ARCA receives \$17 to fund college scholarships and to support Amateur Radio in Arizona. Please drop by the ARCA booth at the SuperFest for more details. Our flyer is in the ADAW Hamfest Flyer attachment.

When you become a member of ARRL, you gain benefits such as license renewal without having to fill out today's complicated FCC all-services-in-one license renewal form 605. You use the ARRL's simple form and your renewal gets forwarded to the FCC electronically by ARRL's Volunteer Examination Coordinator staff for no charge.

Please stop by the ARRL booth for more information, while you are at the SuperFest.

December Club Meeting Is Our Christmas Party— Second Tuesday on the 11th

Please see President's Corner, above, and the colorful invitation below.

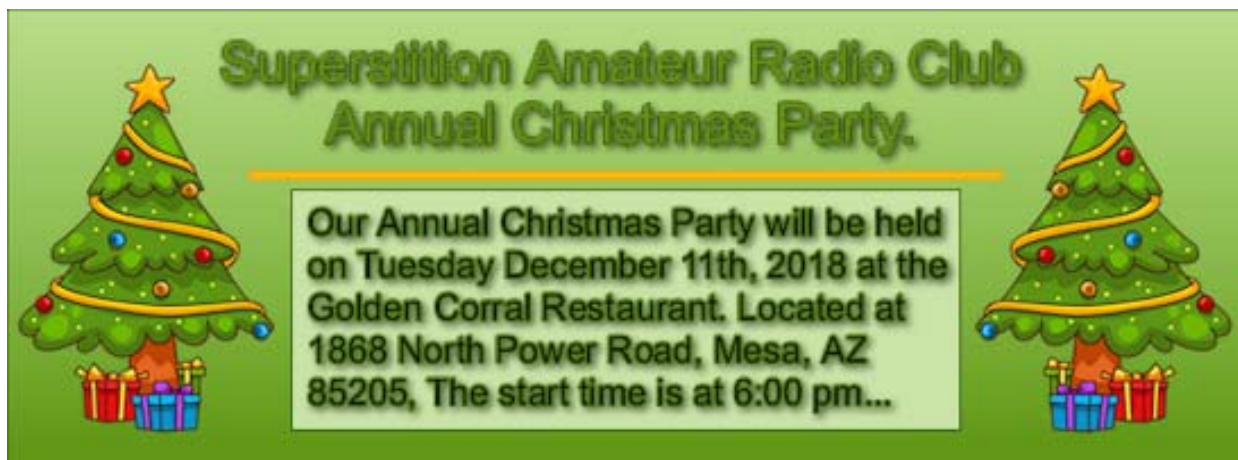
New Repeaters in Service

The repeaters have been replaced with Yaesu Fusion DR-2x machines.

With our current configuration FUSION is NOT linked between the repeaters; this will be addressed at another time.

We know there are some quirks and issues to resolve with the new repeaters. Known issues we are looking to resolve:

1. Grossly excessive ID'ing of the repeaters. This needs a site visit to correct.
2. Occasionally the repeaters get in a loop and lock up until the time-out timers engage. This is being researched.



Continued Next Column

Continued on Page 19

Superstition Continued from Page 18

3. Seems like the repeaters are not hearing some people that they used to before. This is possibly a squelch issue, and easily resolved with a visit to the site.

If you have ANY issues with the repeaters, PLEASE contact TECH@SuperstitionARC.org - that way we can keep track of the complaints and resolutions. Talking about them on the air doesn't help us, unless we happen to remember the conversation. Emailing the tech committee puts the problem on our radar.

Thanks – W7TWR – Superstition ARC Tech Committee

**January 15, 2019 Junque Auction and Club Meeting
7:00 PM, Mesa**

This is not just a Junk Auction! There will often be some pricey (and worth every penny) things there. Our meeting location is on Page 3 of this ADAW.

The club takes 10% off the top but the seller may designate more if desired.

Sellers, please arrive no later than 6:00 to 6:15 PM to be checked in. Please bundle items or accessories to be sold together ahead of arrival. A user manual is a good selling point, too. It will help us if you include a description, working order, accessories and optional minimum bid or donation amount. This kind of information will assist the auctioneer.

Bidders, please arrive by 6:15 to 6:30 to browse the auction and receive a bid card. Cash only.

Meeting starts at 7:00 PM, with bidding to begin soon after. Thank you for taking part!

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



First and foremost, the membership of Yavapai ARC wishes each of you a wonderful Christmas and New Year. Hoping you get all the radio goodies you were wishing for. Remember, Dec. 25 is a fun day to operate HF. Lots of holiday greetings and camaraderie.

YARC elections were held during November and our incoming President is Bill Noe, W7PVA. He will take the gavel in January. Many thanks go to outgoing president Kathy Laing, KJ6KMK, who did a wonderful job over the last two years.

YARCs hamfest committee has begun preparations for the 2019 Prescott Hamfest at Embry-Riddle Aeronautical University. The fest will include all the traditional things like tailgating, vendors, food, license testing and seminars. The dates will be May 31 and June 1, 2019. Be sure to mark your calendars.

As an ARRL Special Service Club, amateur licensing continues to be a big part of YARCs service to the community. Our last test was November 17 and we tested 15 people for new or upgraded licenses. We Our next license test will be on January 19, 2019.

We continue to be encouraged by the number of folks who upgrade. In keeping with the ongoing trend, YARC offers periodic license classes for General and occasional Extra classes. We also offer practice tests on the Wednesday evening prior to the test. Our goal is to make becoming a radio amateur enjoyable.

The Yavapai Amateur Radio Club encourages community members and those of other local clubs to join us for our monthly meetings. We continually strive to make our programs interesting by addressing as many facets of amateur radio as possible. Meetings are held the first Thursday of the month (most months, check our website) in the Freeman Building in the Prescott Rodeo Grounds, 840 Rodeo Drive, Prescott, AZ 86305. Meetings start at 7:00 PM. For program information and directions check our website at www.w7yrc.org



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: Mondays and 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 for the latest information.



Vote Virgil Silhanek K7VZ for ARRL Arizona Section Manager

**For more information,
visit my web site or
email/call me.**

**www.K7VZ.com
k7vz@arrl.net
623-850-1441**

- Arizona needs a leader with the energy, experience, and can-do attitude to represent all clubs and individuals.**
- We should be working together, one united section.**
- We need to focus on properly using all modes of communication (radio, newsletters, email, social media, etc.) to promote amateur radio in Arizona.**
- Appoint and support all section level volunteers to effectively represent amateur radio in the areas of emergency communications, volunteer monitoring, government relations, and public relations.**
- Recruit and provide training to new hams. More than getting them to pass the Technician test, we need to provide them the tools to become active, productive, and involved members of the ham community.**

Vote for Virgil K7VZ in January 2019



Rick Pacquette W7RAP

CANDIDATE FOR ARIZONA ARRL SECTION MANAGER

**CURRENTLY: ARRL-AZ SECTION MANAGER
W7RAP@ARRL.ORG AZPAQUETTES@GMAIL.COM**

- Rick (W7RAP) has been a Radio Amateur since 1975 and holds an Amateur EXTRA class license.
- He retired as Design Manager at Hughes/(Raytheon) in 2007.
- He has served as ARRL Section Manager since 2017, as Assistant Section Manager from 2011 through 2017, and as a ARRL VE team lead since 1998.
- Rick is certified as a VE with the ARRL, W5YI, and Laurel VECs.
- For over Ten Years he led VE teams conducting test sessions at AZ State conventions and Hamfests.
- He has been making ARRL presentations at major hamfests and activities throughout Arizona since 2004.
- He is a ARRL registered License Instructor as well as one of Gordon West' s (WB6NOA) certified Instructor/Elmers: He participates with Gordo in making presentations at Arizona Hamfests.
- He is past President of the General Dynamics Ham Club and Catalina Radio Club in Tucson.
- He is currently a member of several Amateur organizations: CADXA, SARBA, CARBA, Kachina, and the Cactus Intertie System.
- Has been an AMSAT member, ARES qualified in 1990. RACES certified in 1993. and is a former ARCA representative.
- He maintains a linked UHF Remote Base repeater at his home in Oro Valley, and a Repeater and APRS Digipeater on Greens Peak.
- He participates daily in HF Nets , UHF Nets and D-Star. Meet him on 3.933 MHz any evening at 5:30 PM.
- Rick has been mentoring young Arizona Hams for years, His goal is to help assure that new Hams are welcomed into our activities.
- He wants to boost the number of Arizona Amateurs and get more of them involved in ARRL activities throughout the state.

Old Pueblo Radio Club INTERMOD

President's Column

This fall saw several changes to the repeaters operated by the Old Pueblo Radio Club. Our 147.30MHz repeater had to be removed as its owner has moved out of state.

Our oldest repeater, 146.82 MHz, also has been permanently decommissioned. For many years, television station KVOA has hosted its equipment and antenna. The tower on which the antenna was mounted was originally used by KVOA radio, one of the early stations to go on the air in Tucson, and was at least seventy years old. For safety reasons, it was dismantled. Our repeater antenna was its last occupant. We thank KVOA for its many years of permitting us to occupy the tower, and we thank its staff for keeping an eye on it for us. OPRC continues to be represented on the two-meter band on the southeast part of town with its 146.66 MHz repeater.

Our 12 December meeting will be our last meeting of the year, and will be our annual general meeting at which any necessary club business may be addressed.

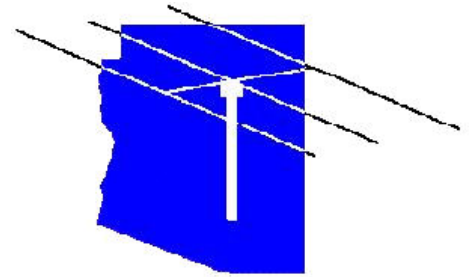
73 de
Ron Kalish, N7SPW
President, OPRC

<i>OPRC Repeaters</i>			
146.66 - PL 110.9	wide coverage		W7GV
<i>RACES Repeaters</i>			
145.150	packet/wide		N7OEM
146.880 - PL 110.9	wide coverage		N7OEM
448.55 - PL 110.9	wide coverage		N7OEM

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No Reports Received

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**Kwanzaa Begins
December 26th**



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- 100W on HF/50/144MHz, 75W on 430 (440) MHz, 10W on 1200MHz**
- Double superheterodyne with image rejection mixer



IC-7851 | HF/50MHz Transceiver

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



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- 200W output power full duty cycle
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IC-7610 | HF/50 MHz All Mode Transceiver

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



IC-7300 | HF/50MHz Transceiver

- RF Direct Sampling System
- New "IP4" Function
- Class Leading RMDR and Phase Noise Characteristics
- 15 Discrete Band-Pass Filters
- Built-In Automatic Antenna Tuner



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP
- AGC Loop Management
- Digital F Filter
- Digital Twin PBT
- Digital Noise Reduction
- Digital Noise Blanker
- USB Port for PC Control



IC-7100 | All Mode Transceiver

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



IC-718 | HF Transceiver

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



IC-2300H | VHF FM Transceiver

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



IC-2730A | VHF/UHF Dual Band Transceiver

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



IC-R8600 | Wideband Software Defined Receiver

- 10 kHz to 3 GHz Super Wideband Coverage
- P25, NXDN™, dPMR™, D-STAR Mode
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- SD Card Slot
- Remote Control Function



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VHF/UHF Dual Band Digital Transceiver

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- SD Card Slot for Voice & Data Storage
- 50W Output on VHF/UHF Bands
- Integrated GPS Receiver
- AM Airband Dualwatch



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

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- P25 (Phase 1), NXDN™, dPMR™, D-STAR Mode
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- USB Charging & PC Connection

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VHF/UHF D-STAR Portable

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- Terminal Mode & Access Point Mode allow D-STAR operation through internet
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- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- ONLINE - WWW.HAMRADIO.COM
- FAX - All store locations
- MAIL - All store locations

ICOM

Happy holidays to all of you from all of us at HRO Phoenix!

Thank you for a great 2018 & we look forward to seeing all of you in 2019!

... and in case you need to grab something, we are open on 12/24 and 12/31 from 10 a.m. to 3 p.m.

(We are closed 12/25 and 1/1/19)

Now serving you at our Phoenix store:

Manager Mike KB6VHF, Steve W7QY, Mike K7DD, Jim K7EOG, Jim KE7EEU, and Laura KB6UHF