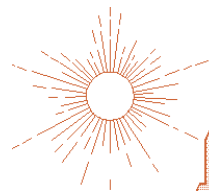


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



ADAW

Arizona Desert Aire Waves

Vol 43, No 10

October 2018

CLUB MEETING SCHEDULE

SARC

Oct 3rd
Scottsdale Senior Center
7:00 PM

AARC

Oct 11th
Red Cross Bldg. - Phx
7:00 PM

OPRC

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

TBARC

Oct 18th
North Phoenix Campus
Northern Arizona University
7:00 PM

MCCARC

Oct 1, 8, 15, 22, 29
Mesa Community College Tech Bldg
7:00 PM

CADXA

Oct 4th
PERA Club
7:00 PM

ARCCC

Oct 20th
American Red Cross Bldg
Phoenix
9:00 AM

SuperstitionARC

Oct 16th
Charles K Luster Bldg
7:00 PM

MARCA

Oct 16th
Denny's Restaurant - Tempe
6:30 PM

ANSR

Oct 18th
via GoToMeeting
7:30 PM

OVARC

Oct 19th
Ascension Lutheran Church
7:00 PM

KARC

Oct 9th
Solterra at White Mtn - Show Low
6:30 PM

WVARC

Oct 1st
Shepherd of the Desert
Luthern Church
7:00 PM

ARA

Oct 26th
Denny's Restaurant - Tempe
7:30 PM

MARA

Oct 6th
Maricopa PD Community Rm
9:00 AM

YARC

Oct 4th
Prescott Rodeo Grounds
7:00 PM

TCARA

Oct 15th
Goodyear City Hall
7:00 PM

QCWA-AZ Chapter

October
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	k7rq@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:	Cliff Hauser	KD6XH	
	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	Cliff Hauser	KD6XH	
		146.660, 146.820, 147.220-	
	Paul VanBeverhoudt	KA7LFX	224.06+
Secondary	Ted Willis	AA7HX	146.66-
	Ralph Turk	W7HSG	146.82-
	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

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	NO7IN	
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

WEST VALLEY AMATEUR RADIO CLUB

The West Valley Amateur Radio Club is an Arizona 501(c)(3) non-profit corporation. 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. Doors open at 6:00 PM, Meeting starts at 7:00 PM, VE Testing at 8:00 PM. The board meets the third Tuesday of the month at Lou's Trivoli Gardens, 12535 W Bell Rd, Surprise at 7:00 PM. The Emergency Preparedness Group meets the third Monday of the month at 7:00 PM at Boswell Hospital. Club nets are held on 147.300 (tone 162.2) at 9:00 AM daily and Monday - Thursday at 8:00 PM. The preparedness net is held the last Friday before the monthly Monday night meeting at 8 pm on the NY7S repeater 147.300 MHz, Tone 162.2 Hz. A weekly breakfast is held every Thursday at Lou's Trivoli Gardens, 12535 W Bell Rd., at 7:00 AM.

President	Gary Robin	K9HDU	
Vice President	Ralph Nagle	W9ADW	
Secretary	April Kramer	KI7GFJ	602.284.6312
Treasurer	Tom Connor	W7TLC	623.444.7956
Club Directors:	Bob Paul	KG7FIL	623.252.0149
	Nancy Collins	KG6QWW	623.398.5286
	Many Blanco	KI7QLD	
	David Putman	W7DCP	

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.org>. Email: suncitywvarc@gmail.com

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.

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 SR 143 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 Heimbuck, 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.

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/>.

MESA COMMUNITY COLLEGE AMATEUR RADIO CLUB

The Mesa Community College Amateur Radio Club meets **EVERY MONDAY** of the month at 7:00 p.m. at Mesa Community College located at 1833 W Southern Avenue in Mesa. The meetings are held in the Technology Center Building 50, Room TC414 on campus. Every other meeting focuses on beginner topics to assist members in testing for the Technician license. All are welcome to join and there are no membership dues or requirements other than only MCC students may vote and hold club officer positions. Visit us at <https://www.facebook.com/KM7CC>

President	Charlie Brown	NJ7V	nj7v@arrl.net
Vice President	Nick Bratcher		thetowerpeople@gmail.com
Senator	Victor Valderram		vicau50911@maricopa.edu
Secretary	Robert Swanson		robswanson30@yahoo.com

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
	Open		Logbook/QSLs
	Tom Salt	AD7PM	At Large
	Sam Marshall	N7INV	Scheduling
	John K7JP		Teacher Packets
	Bob KG7QJ		ASC Contact

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.

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	dl1uf@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.



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. (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>.

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

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**

ADAW Staff

PUBLISHER/MANAGING EDITOR

Christine Kesauer N7PVL 602.843.0960

AARCEDITOR

Lori Cripps WA7EDI 602.955.7517

ANSREEDITOR

Steve Miller W6SDM 602.290.1603

ARAEDITOR

T D Kennard N7ISR n7isr@w7ara.net

ARCCEDITOR

Mark Kesauer N7KKQ 602.318.2920

CADXAEDITOR

Lee Finkel KY7M ars-ky7m@cox.net

CARLEEDITOR

Jean Jolkovski W4CIH 480.664.7353

KARCEEDITOR

Open W6SDM 602.290.1603

MARAEEDITOR

Steve Miller W6SDM 602.290.1603

MARCAEDITOR

Norm Johnson AA7OO 480.278.2886

MCCARCEEDITOR

Charlie Brown NJ7V 602.529.4381

MMRGEEDITOR

Lori Cripps WA7EDI 602.955.7517

OPRCEDITOR

Ron Kalish N7SPW 520.207.3852

OVARCEEDITOR

Steve Wood W1SR nauset2222@yahoo.com

George Cooley NG7A george@ng7a.com

QCWAEDITOR

John Marshall WA7BSR 623.334.2583

SARCEEDITOR

Paul Finell W7EFQ 602.741.6563

SuperstitionARCEEDITOR

Larry Kuck WB7C Ellsworth@us60.us

TBARCEEDITOR

Andrew Cornwall KF7CCC kf7ccc@arrl.net

TCARAEDITOR

Bob Nobis N7RJN n7rjn@nobis.net

WVARCEEDITOR

Nancy Collins KG6QWW 623.398.5286

YARCEEDITOR

Don Bauer WB7TPH dbauer2250@aol.com

TECHSUPPORT

Mark Kesauer N7KKQ 602.843.0960

ADAW EMAIL adawaz@arca-az.org or adaw@adaw.org

ADAW WEBSITE www.adaw.org

ADAW

Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Tour de Scottsdale	Scottsdale	10/07/18
Xterra Estrella Mtn Trail Run	Estrella Mountain Park	10/07/18
Javelina Jundred	Fountain Hills	10/27/18
Heart of Arizona	Congress	11/03/18
MS Walk on the Wild Side	Phoenix Zoo	11/03/18
Phoenix Half Marathon	Downtown Phoenix	11/04/18
Cave Creek Cactus Classic	Cave Creek	11/10/18
Xterra San Tan Trail Run	San Tan Park	11/11/18
AuxComm Interest	TBD	11/30/18
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
Pancake Run	Paradise Valley Mall	02/03/19
Xterra McDowell Mtn	Fountain Hills	02/03/19
Black Canyon 100K	Spring Valley to the Emery Henderson Trailhead	02/16/19
Xterra Black Canyon Trail Run	Black Canyon City	03/10/19
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
March of Dimes for Babies	Wessley-Bolin Park, Downtown Phoenix	04/13/19

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 is expanding again. This month the Kachina Amateur Radio Club (KARC) joins the ADAW family of clubs. KARC is located in Show Low, AZ and draws members from the Show Low, Pinetop-Lakeside, Vernon area of the state. They also present a great hamfest in Lakeside in July that you won't want to miss. Welcome KARC!

Some more changes are occurring this month also. Nancy Collins, KG6QWW is the new West Valley Amateur Radio Club editor for ADAW. She takes over for April Kramer and will be providing the ADAW readers with news on all the happenings in the west valley. ADAW thanks April for all her efforts and welcomes Nancy to the ADAW staff.

Paul Finell, W7EFQ is the new Scottsdale Amateur Radio Club ADAW editor. Ed Nickerson, NU7S, longtime SARC ADAW editor, has asked Paul to take over the reins. Thank you, Ed for all your service to ADAW and the Scottsdale club. Welcome to the ADAW staff, Paul.

With the cooler weather approaching (it's still in triple digits as I write this), it's time for more outdoor activities. The hamfest season in the lower elevations is gearing up once again and the Public Service Calendar (see page 6) is full of events that will need volunteers.

Speaking of which, there's a really great hamfest just around the corner - Copafest 2018. This year's event will be held at the UltraStar Multitainment Center in Maricopa once again. The hamfest runs from 7:00 AM until 1:00 PM. The Multitainment Center is a great place for the event that features all kinds of activities in addition to the hamfest. Hotel accommodations are available right there on the site as well - and a casino too! You can make an entire weekend of it with fun for the entire family. Check it out!

Be sure to check the calendar on page 13 and the Hamfest Flyers attachment for information on all the upcoming hamfests. If we're missing one, please drop us a note at adaw@adaw.org and let us know so we can add it.

Halloween is October 31. Please remember to watch out for all the little kiddies who will be out wondering from door to door in search of treats.

Until next month - 73,
Chris, N7PVL

It's been a wonderful 36 years for us at Radio City and we have decided to retire and close Radio City. We are so thankful for the many years of support and we have enjoyed working you, our customers. The technical, intelligent and polite conversations plus advice have been invigorating, thus making this decision extremely difficult for us.

We appreciate all the teachers, Elmers, VE examiners, ham and astronomy clubs efforts in growing new ham radio operators and amateur astronomers into our special community.

We will also miss going to and supporting amateur radio and astronomy clubs all over MN and IA at their events. We will greatly miss all the friendships we have been privileged to maintain with many of our customers.

We plan to exit by this year's end or a bit sooner as we empty our shelves of new and used materials.

Upcoming Events:

Sidewalk Sale:

Our final sidewalk sale is this Saturday Sept 15th. We are digging deep for this event. It will be held rain or shine. Currently forecasts are calling for a mild 85F with just a 20% chance of showers.

Final Goodbye Tour:

We will be at Smartfest in Cologne, MN on Saturday September 22nd. We will also be in Carlton MN for their Fallfest on Saturday September 29th.

Goodbye Party:

Please come on by on Saturday October 6th for our good bye party. We will of course have cake and coffee for everybody.

Other Necessary Details:

Service:

We will complete servicing items we currently have in the service dept. We will not be accepting any additional 'Out of warranty' items. 'In warranty' items will be still be processed by Radio City per normal until about October 31st, 2018.

Consignment :

We will no longer accept more items for consignment. All items that have NOT been sold need to be picked up the week of Oct 13th, 2018. We will consider all items not picked up by then to be abandoned.

In closing we will very much miss all of you and perhaps there is someone out there interested in running the store under New Management.

Thanks again for all your support,
Dan and Maline Fish





AMATEUR RADIO SERVICE DEMONSTRATION STATION

Volunteering at the Station is always unscripted. The “slow” days can often be the best as there is time for conversations. On busy days the crowds leave little time for extended demonstrations.

One Saturday in August, the fire alarm intruded into our chores. Out the door we all went – and stayed out until the Phoenix fire truck came to the building, checked for fire and then, finding none, the alarm finally quieted down. And everyone (almost) went back inside. We were all left to speculate about how it was set off.

There is a row of computers across from the Shack. The youngsters, who are drawn to them, often cause those machines to go wild! Since we are often the only actual humans in the Gallery, they come into the station and ask for help. Our volunteers use the phone to advise the front desk that there is a problem. Or the volunteer uses the ASC hand-held to ask for tech support. The support staff is often busy and does not appear immediately, so the visiting cherub is unhappy. One little boy did not wish to wait. He marched into the Shack, grabbed one of the volunteers by the sleeve and demanded that they follow him to his malfunctioning computer. “You work here” He said. “You have to know how to fix everything.” Our brave volunteer noticed that the computers are all Apple. That volunteer has been using Apple computers since the first Apple seed fell to the ground, so the boy’s computer, and game, came back to life. That boy, of course, did not act surprised. If a person wears a volunteer badge, they can fix everything.

This anecdote has nothing to do with Ham radio. It does demonstrate the lengths to which a Ham will go to help a visitor, even if that effort is not in the Ham volunteer job description.

Your faithful scribe had asked the corps of Ham volunteers for anecdotes and stories about the Shack and, specifically, how they got started in Ham radio. If all of the replies were added here, this newsletter would consume the entire ADAW for a few issues.

One report started with the construction of a home-brew crystal radio. The tuned circuit covered frequencies outside of the BC band. It delivered a 160 meter Ham signal to this young experimenter. The story goes from Novice to Extra, and a career in Communications. And this Ham is now a regular volunteer at W7ASC. And it all started with a crystal. We will

CARL Continued from Previous Column

try to find room, in a future issue, for the full story.

Another volunteer told the story of a young visitor who wanted to get started by building his own gear. Right there, in the Shack, he was taught how to solder. And, NO! That was not what set off the fire alarm. This story will also appear in a future issue. If one of our many readers wishes to read the full story, a request to your editor will be answered with the full text via email.

We also have the story by a volunteer who was urged to obtain his Ham license – by his Military unit. That simple “request” launched his career in communications.

There is quite a backlog of stories that should see us through the next few issues of ADAW. Stay tuned!

Interested in volunteering? (You should be!) Go to the W7ASC web site, complete the application and send it to the ASC Volunteer coordinator’s office. Sam, N7INV, will work with you to find a convenient schedule slot. In addition to the fun, volunteering comes with additional benefits, such as no-cost parking. When you serve enough hours, you become an Arizona Science Center member. There are many facilities across the country that will honor that membership card.

For further information, visit W7ASC in the third floor of the Arizona Science Center. Visit our web site, or call the Shack at the number shown at the top of this newsletter.

Have a story about how you got started in Ham radio? Or perhaps a story of some interesting Ham radio incident? Send those on to this editor at jeanjol@hotmail.com.

73 until next issue
de W4CIH Jean

ADAW



United Nations Day
October 24th

Continued Next Column



CARL Continued from Previous Column

near Greenway and I-17, starting at around 7:00 p.m. See the club website at w7tbc.org for directions. October's meeting is sure to be of interest. Ned Sterns, AA7A will talk about his Baker Island 2018 DXpedition. Baker Island finished up in early July, so we'll be among the first to hear the news. Ned is the Vice Director of the ARRL Southwestern Division and always an entertaining speaker. We're glad to have him - join us at the meeting!

Andrew Cornwall
KF7CCC
kf7ccc@arrl.net

If you've checked out the TBARC repeater footprint lately, you'll know that things are online and behaving really well! The 2-M and 70-CM antennas are in their correct place, high above the White Tank Mountains (156 feet above) and our signal has never been better. We've had good reports from as far away as Elliot and Warner in the southeast, and 56th and Cactus too on a 5W handheld.

We couldn't have done this without help from the ARA and Scottsdale ARC - both of these clubs had members who were instrumental in getting things working. We need to call everyone out: the project lead, NJ8G, Walt Reinert, the technical lead WK7B, Gary Duffield, climbers KF7MBK, Mike Montavo, AE7JG, Joe Godfrey and AD7OI, Kevin Jacobson, and our ground crew: KE7T, Darrell Bradshaw, KG7KRN, Charles Loftus Sr., KI7DUV, Charles Loftus Jr., N9EIV, Bill Kouchis, N9VJW, Bill Jackson, KC7FP, Felix Pinto, KI7GVT, Tammy Jacobson and AK7F, Brian McCarthy. Thanks to everyone who was instrumental in getting us back on the air with such a good signal!

The upcoming October meeting marks the last time to get nominations in for next year's executive. If you know someone you think should run, the October meeting is the place to make it known. (It's probably best if you talk to them first!) Don't forget, this is your club - so that someone could be you! You're free to nominate yourself. Even if you don't want to run, there are lots of opportunities for getting involved, and you'll find the more you get involved the more you'll get out of the club.

I saw a reminder go out about the Extra class course this fall. Depending on when you read this, there may still be time to get involved if you've been thinking of upgrading. The course runs from 8:00 a.m. to noon on Saturdays, Sep 22 through Nov 24, 2018. Send an email to course@w7tbc.org to see if this is the year you get privileges on all of the HF bands!

The board has been diligently searching for a hamfest location. By the time you read this we should have one, but as of press time there were a few locations - each with advantages and disadvantages - that were still being evaluated. Keep your eyes peeled for the hamfest flyer, and be sure to show up in January when we have the hamfest!

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



ADAW



ADAW

Continued Next Column



Being secretary to the Mingus Mountain Repeater Group is a great job, especially since our meetings generally occur twice a year. President of MMRG, Bob Sitterley K7POF, publishes a quarterly newsletter and I add my comments to that. Of course, I take notes at the MMRG meetings too. The difficulty of a secretary's job is generally dependent on her "boss," and Bob is very well organized. He provides an agenda and follows it.

73 Lori WA7EDI - MMRG Secretary

MMRG Secretary, Lori WA7EDI, is on the mend from knee replacement surgery. She says it's progressing OK. "Maybe next month, when I'm galloping around, it will be even better. But for now, let's just keep it amateur radio."

In the past month MMRG has gained three new members, two of which are family members:

Jason Knox, W6KRG and Christine Knox N6MOM of Prescott Valley

Penny Govedich, KJ7AH of Paulden, AZ Welcome to ham radio, Penny.

MMRG wishes to congratulate Penny Govedich, KJ7AHL for passing her Technician License, and her husband, Steve Govedich KI7YCR, on up grading to Extra.

73,
Bob, K7POF



The Kachina ARC is located in the White Mountains of Arizona, with members coming from a fairly wide area in northeast Arizona. The club membership is centered in the Show Low, Vernon, Pinetop-Lakeside area, with many members coming from as far north as Joseph City; as far west as Heber/Overgaard; and from the cities of Springerville, Eager, St. Johns, and Concho to the east. During the summer months, the membership grows nicely as fellow hams from the warmer parts of Arizona join us here on the mountain.

The Kachina Club meets monthly on the second Tuesday of each month, at 6:30pm. Meetings are presently being held at the Solterra Senior Living Facility in Show Low. The September meeting will be a club picnic on September 22, in Taylor, AZ. Members from the Rim Country ARC in Heber will be joining us for the picnic. The day will include a "Fox Hunt" followed by the picnic and a lot of talk about Ham Radio.

Many of the club members participated in this year's Field Day at the Woodland Lake Park in Pinetop. Along with normal Field Day activities, the club demonstrated our capabilities to provide emergency communications for the general public. The club also demonstrated our emergency communications capabilities at three other events in the local area this summer.

On July 28th, Kachina sponsored the White Mountain Hamfest at Mountain Meadows Park in Pinetop. Along with the hamfest, Kachina conducted license testing and hosted an ARCA meeting at the Mountain Meadows Park. The day was successful for all!

Kachina ARC conducts license testing on a bimonthly schedule. The next scheduled test session will be conducted on Saturday, 6 October at 9:00 a.m.. The testing session will be conducted in the small library at Solterra Senior Living Facility in Show Low, AZ. There is a \$15 charge which is forwarded to the ARRL along with the test results. Testing is open to all.

ADAW



**National Boss's Day
October 16th**

ADAW



Season of Public Service

We are entering another season for Public Service. Looking at the MCECG Calendar (www.mcecg.org), there are lots of opportunities to practice our radio skills while helping out the community. Have you selected a few events to help out during the season?

September had two big, out-of-town, events which offered an excuse to get out of the heat. Barn Burner was September 8th, but many made a weekend out of it. The route is about 25 miles around Kendrick Peak (NW of Flagstaff) and we try to station a ham every mile or so around the course. Riders ride the loop up to four times, for a total of up to 100 miles. This event is well suited to those with mobile radios, but there are some assignments which work well with handhelds too.

Just a week later was another big event in Pine and up and down the Mogollon Rim. This was appropriately called the Mogollon Monster. This is a 100-mile ultra race from Pine, along the Highline Trail under the rim, climb the rim, around the trails and roads on top of the rim, climb down the rim, repeat, return to Pine for the finish. This uses a linked event net and has stations above and below the Rim to track runners, supplies and support teams.

These are just a sample of what you will find at www.mcecg.org. If you prefer short, or small events, we have some of those. Every event offers a unique opportunity to develop, or strengthen your radio and logistic skills.

Hams are an important part of the State and County Emergency plan. I would encourage you to work on your National Incident Management System (NIMS) training. This is online and can be done at your pace (<https://training.fema.gov/nims/>). Most people start with ICS-100, ICS-200, ICS-700 and ICS-800. Once you complete these basic courses, you may sign up for the AuxComm class at www.mcecg.org. This is great training and will prepare you for the next disaster HAMs are called on to help.

Emergency preparedness is just that. Preparing for the big disaster that all of us hope never happens. We prepare all the time so when the disaster hits, we are ready. The AEN-MAR net meets every Monday at 2100 HRS on the MetroLink System (www.w7ara.org/z/Repeaters.aspx). Great information is presented and practiced live on the radio. For more

The September 13 meeting of the Amateur Radio club was an especially interesting one, since Frank Engstrom, KB7IQ, gave a presentation on Antenna Basics. It was of interest to both newcomers to ham radio as well as amateurs that have been actively involved for some time. Steve Tolnai, W7WSV, added a bit of humor to the meeting with his photo of his "Bird Sanctuary," his two-meter beam loaded with happy birds. (See picture below)



ADAW

ARA Continued from Previous Column

information, refer to <http://www.aen-mar.org/>.

We hope to see you at the Club Meetings, or on a Public Service event. Board elections are coming up. Your participation is greatly appreciated.

73,

Brian McCarthy, AK7F

President, Arizona Repeater Association

Continued Next Column

ADAW



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

Jim W5ZIT reported that the digital links can now be integrated with the analog repeaters. As a first step, the digital links are being connected during the Sunday night nets, which begin at 8:00 PM MST.

August's meeting featured Rob Sherwood NCOB, who discussed important parameters in selecting an HF rig, such as dynamic range, transmitter rise time and LO phase noise. On-the-Air demonstrations of HF took place before the meeting when many attendees checked into the meeting using the Alinco radio that is being raffled off. Special thanks to Paul K7AZT, Ron W7HD, Tom W8TK, and Lena N7LNA in setting up rigs and talking to attendees. Tom W8TK recited poetry during the Handyman special and shared plans for a dipole using materials by perhaps the most famous of all poets and fishermen: Shakespeare (fishing poles).

The HF Special Interest Group continues to hold monthly outings, which are published on www.tucsonhamradio.org. Sep 15 marked the 132nd anniversary of the final surrender of Geronimo at Skeleton Canyon, Arizona. HF operations took place from Chiricahua National Monument. Future operations are planned at Tombstone, Shootout at the OK Corral on October 27, Oracle State Park on Sunday, November 18, and U of A Memorial to the USS Arizona on December 8. Please join the fun.

OVARC club meetings are held on the 3rd Friday of each month at the Ascension Lutheran Church at 7:00 PM MST. Friday, September 21st, featured Gene, K5GS as he revealed what is Behind the Veil of DX-pedition Planning.

VE sessions are held the 1st Saturday of each month at the Ascension Lutheran Church at 10:30 AM MST. The next VE Session will be on Saturday, October 6th.

73,
George NG7A

As this is written, Hurricane Florence is battering the East Coast and has the potential to drop three feet of rain in some areas of the Carolinas. The Red Cross has deployed more than 700 volunteers in advance of the storm to assist local responders in the projected path of the storm. More than 70 volunteers from Arizona, New Mexico and El Paso have stepped up to help operate shelters, preposition supplies and assess damage once the storm has passed. Some of those 700 are Disaster Services Technology volunteers who are there to ensure the Red Cross has the necessary computers, networking and communications tools essential to providing immediate assistance to those affected by disaster. Our hearts and thoughts are with our neighbors back east as they hunker down and hope for the best.

Locally, our members kept busy this past month with a variety of tasks in support of the American Red Cross in Arizona. Some were busy testing the Red Cross' low-band radio network, tuning up existing radios and installing radios in a couple new vehicles. Others spent some time making sure the antennae we keep on hand for field deployments were up to spec. The Red Cross was also asked by state officials to provide support for Sen. McCain's memorial service. Two members of our team provided communications support to the dozen or so Red Cross volunteers who staffed hydration stations at the North Phoenix Baptist Church. We are honored to have been a part of Arizona's farewell to our senior Senator.

With the hamfest season kicking off, we are making plans to attend as many hamfests as we can to promote amateur radio in emergency communications and public service. Anyone interested in finding out more about the Arizona Red Cross Communications Club can visit our website at K7ARC.org for details on nets and meeting times. We welcome all who have an interest in providing communications and technical support to the Red Cross.

On a personal note, we send our best wishes to Mark, N7KKQ for a speedy recovery. We miss you buddy and hope to see you back on your feet real soon.

Filling in for our humble scribe,
Charlie, N2TFS

ADAW

ADAW

Hamfest Calendar

27 October 2018 - **Copafest 2018** - hosted by the Maricopa Amateur Radio Association will be held at the UltraStar Multitainment Center, 16000 N Maricopa Road in Maricopa. Hours are 7:00 AM until 1:00 PM. Admission is \$5.00. Spaces are \$10.00 for two parking spaces. Setup begins at 5:00 AM. Balloon Launch, VE Testing, Card Checking, Vendor Exhibits, Seminars, Prizes and more. Many activities available in the Multitainment Center including laser tag, bowling, movies, games, dining and more. Dining and Hotel also available. For information, email fest@copafest.org or visit the website at www.copafest.org.

10 November 2018 - **HARKFEST** - hosted by the Hassayampa Amateur Radio Klub will be held at North Ranch Escapees RV Park, 30625 S Hwy 89 in Congress. Free Admission, Free Tailgate Sites (Pre-Registration Required - djgrooms@yahoo.com) Overnight Camping (Full Hook-Up or Dry) Available (pre-registration required for camping at www.escapees.com/parking/congress) Tailgating permitted at campsite. VE Testing Available - Must Pre-register (cecarter39@yahoo.com) - Prizes - Arts & Crfts Show at Activity Center 9:00 AM - 2:00 PM. Lunch served at Activity Center. Talk-In 146.620 (pl 162.2) or 146.580 (simplex)

10 November 2018 - **Oro Valley Hamfest** - hosted by the Oro Valley Amateur Radio Club will be held at Marana Middle School, 11285 W Grier Road in Marana. Gates open at 7:00 AM (5:00 AM for sellers) and closes at 1:00 PM. Admission: \$5 (Children under 12 free with a paid adult). Students with AZ School ID are free. Sellers: \$10 per space and includes seller. Prizes, VE Session, Seminars, QSL Card Checking, Breakfast & Lunch Available. Talk-In: 146.620(-), 444.100(+), and 147.32(-) all Pl 156.7. For more information, please visit the web site at orovalleyarchamfest.com or send an email to hamfest@tucsonhamradio.org for more information

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.

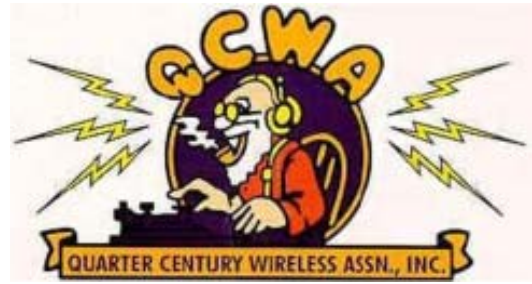
15-16 February 2019 - **Yuma Hamfest** - hosted by the Yuma Amateur Radio Hamfest Organization will be held at the Yuma County Fairgrounds, 2520 E 32nd Street in Yuma. Watch for details. Web site: www.yumahamfest.org.

20 April 2019 - **April Hamfest at DeVry** (date tentative) - hosted by the Arizona Amateur Radio Club and the Amateur Radio Council of Arizona 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.

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.



CHAPTER 16 BARRY M. GOLDWATER ARIZONA CHAPTER

The September meeting was attended by more than 50 members and guests who came to hear Ned, AA7A, and Bud, N7CW, discuss their summer trip to KH1/KH7Z, Baker Island in the South Pacific. Along with other members of the Dateline DX Association, this team made nearly 70,000 QSOs and may have changed the face of future DXpeditions with their groundbreaking use of the FT8 digital mode. The trip to this rarely visited Top Ten most wanted DXCC entity was anxiously awaited by DXers around the world, especially in Europe.

The team was told by their U.S. Fish and Wildlife chaperon that it never rains on Baker. Well, that turned out to be fiction as members of the team had to use some muscle against the side of their tents to keep them collapsing from the rain and wind provided by a surprise gale force rainstorm that destroyed their 80-meter vertical antenna at the beginning of their stay. Some of their Elecraft radios appeared to have drowned in the rain but proved to be miraculously resilient after being dried out the next day by the intense island heat.

The FT8 story was impressive with a single operator able to run two stations simultaneously on different bands while maintaining rates that could reach 400 QSOs per hour. No RTTY operation by a past DXpedition has come close to that kind of rate. A limiting factor seemed to be the failure of too many hams to read the readily available guidelines on how to use the new FT8 “DXpedition mode” and wasted their time and the Baker operators’ time by not following those instructions.

Now that the 6-meter Sporadic E season has ended, there is not much DX activity above 17 meters. Most of the activity during the daytime is on 17 and 20 meters and as the days grow shorter, there is growing activity on the low frequency (LF) bands – 40, 60, 80, and 160 meters. The latest reports from the solar gurus indicate we have another 1-2 years before hitting the bottom of the sunspot cycle. That is a good reason to pay more attention to the LF bands where there is nightly activity and DX to work.

Next Meeting is October 4th at the PERA Club at 7:00 p.m.

Continued Next Column

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.

ADAW

CADXA Continued from Previous Column

The October Meeting will be held at 7:00 p.m. on Thursday night, October 4th, at the PERA Club. Mike Fulcher, KC7V, will make a presentation on his participation as a referee in the 2018 World Radio Team Championships (WRTC), a/k/a the “Ham Radio Olympics.” These were held in Germany and 60+ 2-person teams competed in this 24-hour event held the same weekend in July as the International Amateur Radio Union (IARU) contest. Mike was lucky enough to referee the winning team from Lithuania. Come and hear about how the WRTC organizers set up a level playing field of identical stations (except for the radios) for this very special event and how Mike stayed awake for 24 hours to do his job as a referee.

Please feel free to arrive early to socialize with your friends. Refreshments will be served at the break. Guests are always welcome.

73,
Lee, KY7M
CADXA President

ADAW

License Testing Information

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

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

October Test Sessions

Oct 4th - 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

Oct 6th - NOMADS -- 9:00 AM

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

Oct 6th - DeVry ARC & WVARC -- 9:00 AM

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

Oct 6th - Oro Valley ARC -- 10:30 AM

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

Oct 8th - 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

Oct 8th - Radio Society of Tucson -- 7:00 PM

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

Oct 13th - NOMADS -- 9:00 AM

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

Oct 13th - Yuma ARC -- 9:00 AM

Yuma County Sheriff's Office, Training RM2, 141 S 3rd Ave, Yuma
Contact - Robert Spencer 928.941.7069
No Walk-Ins - Appointment Only

Test Sessions Continued from Previous Column

Oct 15th - East Valley VE Team -- 6:00 PM

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

Oct 16th - Boy Scout Troop 127 -- 8:00 PM

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

Oct 16th - 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

Oct 17th - Thunderbird ARC -- 6:00 PM

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

Oct 19th - Tonto ARC -- 6:00 PM

Payson Center for Success, High School
514 W Wade Ln, Payson
Contact - Darde De Roulhac 928.468.1487

Oct 20th - Coconino ARC -- 9:00 AM

North Country Healthcare, 2920 N 4th St, Ate A1, Flagstaff
Contact - Roderick Martin 928.527.1139

Oct 20th - Unsponsored -- 10:00 AM

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

Oct 20th - NOMADS -- 9:00 AM

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

Oct 27th - NOMADS -- 9:00 AM

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

Oct 27th - Arizona ARC -- 7:00 PM

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

ADAW

Happy 
Halloween

Continued Next Column



Apologies must be made for missing several deadlines of these reports. Family and other issues have somehow interrupted your faithful scribe and his duties.

Amateur licensing continues to be a big part of YARC's service to the community.

With the help of the Prescott newspaper and select radio stations, YARC continues to find people who wish to become licensed amateurs. More encouraging is the number of licensees coming in to upgrade.

September 15, as an example, found twelve people being tested, six of whom were testing to get their General or Extra tickets. While eastern clubs seem to be decrying the lack of interest in licensing, we are observing just the opposite.

In keeping with the ongoing trend, YARC offers periodic license classes to prepare candidates for the tests. 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

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.

Need Computer Help?

Computer consultant: in-home tutoring, problem solving, hardware and software installations, virus detection and removal. I am Patient and professional with 30 plus years in the computer field.

Call Larry, KE7JXQ

L.E. Purchase Computer Consultants, Inc.

1-888-922-9295 or 602-863-0502



I am Paul Finell W7EFQ. Ed WU7S has asked me to take over this column for him. He has incurred items that are taking up most of his time. This is a learning experience for me, so I will make many mistakes. I also will need inputs from the club members including items to be covered and pictures to be included.

At the last meeting of the club we drew the winning raffle ticket for a YAESU FTM-100DR Fusion mobile radio. Doug K8DRH was the winner . . . congratulations Doug. The meeting continued with Arturo WB7ATA giving an excellent view of Morse Code, the history and uses. He also had many examples of telegraph keys dating from the early 1900's to current models. We also started a new raffle for a second FTM-100DR mobile radio.

To bring the club up to date with modern technology, the club has purchased two new YAESU Fusion repeaters, to replace the ones currently in use. Fusion repeaters are dual mode both analog and digital, allowing communications worldwide via the internet.

To bring the membership up to date we are having raffles of Fusion radios, to be drawn at the first general meeting after the 50th ticket has been sold.

We are having many new programs coming up at the general meeting. There will be many subjects, as well as tutorials on the subject of Fusion radio, how to use it and courtesy of the use of the digital mode of the new repeaters.

Speaking of the new repeaters, they currently are scheduled to be installed on 9/16/2018 and the following week. We are anxious to see them in operation.

Since the Summer is starting to exit, the club activities are starting to build up.

Ham-In-the-Park is alive again. Many hams are attending and giving instruction to other hams (Elmer). Check the club website for dates.

Club NET is every Tuesday on the club repeaters, 7:00 PM local time. The attendance has been improving. We are trying to have different subjects at every net to spice up the net.

The Saturday morning breakfast (8:00 AM at Denny's, Indian Bend just west of Loop 101) We are having four to fifteen hams at the breakfasts. Many subjects are addresses, this is a social event so you can get to know your fellow club members.

Paul Finell W7EFQ
w7efq@arrl.net

Get ready for Copafest. Saturday, October 27 is the big day, starting at 7:00 AM. There have been many improvements to this year's event. First, our prizes are better. A lot more attendees will be going home with radios. Prizes include an Icom IC-5100A Dual Band D-Star Mobile, a Yaesu FRM-100R Fusion II Dual Band Mobile, and an Anytone AT-D868UV DMR Dual Band HT. In addition, we will be giving a Baofeng UV5R every hour! Plus, there are a variety of coupons and gift certificates that will also be available. You can pre-purchase raffle tickets online at <https://www.copafest.org/cf18prizes.html>. PayPal accepted.

If you're a tailgater, you can show up as early as 5:00 AM. Spaces cost \$10 for two parking slots, including admission for two people.

Free Laurel VE testing will be from 7:00 AM until 10:00 AM. It will be indoors in one of the air-conditioned conference rooms.

As always, there are the superior amenities of the UltraStar and the Ak-Chin Casino. Good food, restaurants, and lots of entertainment. Admission is \$5.00 per person. That includes a door prize ticket. Check our website at www.copahams.org for details and last-minute changes.

ADAW

SARC CONSTANTS:

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

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





President's Corner

Our next balloon launch will be on October 27 at the Copafest in Maricopa. Of course, the exact location for the launch is determined by weather, winds aloft, and recovery predictions. However, our plan is to launch in the same parking lot where the hamfest is being held. We also plan to stream live video to the Jumbotron on the UltraStar building. Here's our schedule for the next two flights:

ANSR Flight 119 will be at CopaFest in Maricopa, AZ on October 27, 2018

ANSR Flight 120 and 121, ASCEND* 32 and 33, November 17, 2018, at the University of Arizona Agricultural Center, Maricopa

Steve Miller
visit my website and blog at w6sdm.net
follow me on Twitter

Hello club members! I hope everyone is doing well. We are slowly approaching the end of summer and man has it been a hot one this year. We have also been having a whopper of a monsoon this year. I ended up losing two towers in the first big one this season. I now have a new tower and am back on the air. It is a reminder that although we don't have severe weather here that often, it can happen.

On that note, I would like to thank those of you who came out to help remove the tower from silent key Dan Nicholson's house. For those of you who don't know, Dan was a club member and he was also the club Tech chairman at one time. His call was N0FPE. Dan's family donated the tower to the club. In the future this tower may replace the tower at the Stone Castle site. It is taller than the one there now and could help the coverage of the UHF repeater.

I hope that the club has offered interesting programs at club meetings. Andy has been doing a great job at finding programs. We encourage club members to let us know if you have an idea for a program. We have been trying to stay with our theme this year of gearing all programs to new hams.

We have also been having raffles at each club meeting and that seems to be going well. Although the club does not really profit from the raffle, it is a great way to get people involved with the club. Someone at every meeting will leave with a new radio. As we get closer to December, we stop holding the raffle at the meetings because we would like people to purchase SuperFest raffle tickets instead.

As most of you know, our Ham Fest is the big event each year that helps generate money to pay for insurance, repeater sites, etc. If anyone would like to help out at the SuperFest, please contact the SuperFest chairman, John D. Wolven, KG7NSP at azrokitman@live.com or (480) 980-0502.

We could always use help at the SuperFest. It is a big event to set up. In fact, the SuperFest committee starts working on the SuperFest in January and holds meetings every month to prepare for it for the following year. BIG THANK YOU to those guys working on it.

Steve, KB7KWK

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

General Meeting, Tuesday, October 17 at 7:00 PM - Nominations

Meeting locations for both the general meetings and the board meetings are on page 3 under the Superstition ARC's listing. Our meetings are open to the public and anyone is

Continued on Page 19

Superstition Continued from Page 18

welcome to attend and learn about amateur radio. You can sit in at the Board meetings and see how your club is run. You might also like the idea of becoming a future leader of the club.

At the October general meeting, we will open nominations from the floor for next year's officers and board members. For a list of our current officers and board members, see the Superstition ARC's club listing on page 3. We want to thank each and every one of them for their service.

The election will be held on Tuesday, November 20. You must be "registered to vote" by becoming a member, or renewing your membership. Thank you for choosing to join the club and for keeping your membership current.

I do not yet know the October presentation here in early September. However, we gear every presentation toward the new ham.

August Prize Winners



Leading off, a BridgeCom BCH-270 handheld radio was presented to new ham Michael Manfredi, KI7JXI, pictured here, at August's meeting. He has had a license since early 2017 and still no radio till now.

We held two ticket drawings on the \$5 tickets and the first drawn had the choice of a VHF-UHF antenna or a Samlex 1235M 12 volt, 30 ampere switching power supply. The second winner got the remaining prize. The winners are:

•Sherman Lillie, KI7QQQ
(Antenna)



•Doug Ward, KI7UKS
(Power Supply)



Continued Next Column

Superstition Continued from Previous Column

The \$1 ticket was for a pair of Retevis UHF 16-channel HTs:



•Wayne Davis, KW7COB

Larry, WB7C, has a few years' experience with the Samlex power supply, and can attest to the lack of noticeable receiver interference from this power supply. Some switchers produce strong birdies that can wipe reception out.

It was announced in August that we will suspend these drawings for the rest of the year to focus on SuperFest drawing ticket sales. With there being a Christmas Party instead of a December meeting, and the Club Auction in January, I suspect these drawings will resume in February. Stay tuned.

**Superstition SuperFest, Saturday, December 1
Sponsored by ARCA and ARRL**

We think SuperFest is among Arizona's biggest Amateur Radio swap meets! We have added sponsorship by Amateur Radio Council of Arizona for 2018. See our Hamfest Flyer in the HamfestFlyers.pdf included with your copy of ADAW. See you there!

Your Christmas Shopping can help the Superstition Amateur Radio Club!

And it won't cost you an extra dime if you are shopping on Amazon.com once you set your Smile. Sign up at smile.amazon.com. You will first have to select your charity ("Superstition Amateur Radio Club" is among the choices). Thereafter, your shopping at smile.amazon.com from your computer's, or phone's, Web browser will provide the club with something to smile about. Your shopping experience is the same as on www.amazon.com.

Join ARRL or Rejoin through the club.

We get a \$15 commission at no cost to you.

Superstition ARC, by being affiliated with the American Radio Relay League, can earn a \$15 commission with every new League membership submitted through our Treasurer. Fill out your ARRL membership application and League dues to the Treasurer (he has the form).

If you are a first-time member or have let your membership lapse for two full years or more, we can keep our \$15 commission and forward the balance and your application to

Continued on Page 20

the League. It costs you no differently than were you to apply directly to the ARRL, and the club is \$15 better off!

Renew your League membership with us and we get a \$2 commission.

Why League membership?

The American Radio Relay League is our voice in Washington, D.C. and international affairs dealing with the governance of amateur radio. For example, we enjoy the exclusive use worldwide of many radio bands, which required international agreements to achieve. Some countries may use our band within their country on a primary basis in such a way as to avoid interference to amateur radio in neighboring countries. These agreements came about by our League working with their counterparts around the world to make common proposals to each organization's national government.

In the United States, ARRL is our voice in that arena.

ARRL has fought to reduce electric power interference with the FCC fining power utilities that are not being responsive to the needs of a radio spectrum by not polluted by man-made noise. And then, of course, the League fought the FCC tooth and nail to have it enforce its own Rules in the matter of running wireless Internet over power lines. The Administration at the time was pushing the FCC to allow this noisemaker on our air.

These are just some reasons for radio amateurs to be involved with League membership. But there is more. Amateur radio requires an antenna. Preferably, this antenna is up and in the clear to launch its signal, both to be effective in facilitating communications and to limit the amount of radiation exposure in the community. Electronic devices that are not meant to receive our signals are less prone to such interference and human exposure to RF radiation is minimized. At one time when local governments were using zoning ordinances to forbid the erection of any decent antennas for amateur radio use outdoors, the FCC was urged to place a Federal preemption against such zoning ordinances. PRB-1 was issued, forcing local governments to use minimal measures to meet their goal and at the same time, permit reasonable antenna heights. This club used an ARRL Volunteer Attorney to help negotiate a new, more-relaxed ordinance back in 1989 for radio amateurs in the city of Mesa.

Nowadays, private land contracts called CC&Rs or "deed restrictions" can have the effect of disallowing effective overhead amateur antennas, forcing a ham to place his antenna where maximum radiation enters family and neighbor living spaces alike. Electronic devices malfunction or emit audible interference. Antennas are less efficient and may also expose human beings to undesirable levels of RF radiation without use of reduced transmitter power levels. While the FCC has placed a Federal preemption against TV and satellite dish restrictions,

Continued Next Column

amateur antenna restrictions are yet to be preempted despite ongoing efforts by the League to urge their inclusion.

There are always threats to the frequencies we can use. The FCC has been auctioning off frequency spectrum, but amateur radio is not a rich company that can buy itself into its share of the bands. That is where we must argue the benefits to the public of having an "amateur radio service."

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

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: 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.

Old Pueblo Radio Club INTERMOD

President's Column

No Report Received

OPRC Repeaters

146.66 - PL 110.9	wide coverage	W7GV
146.82 - PL 110.9	wide coverage	W7GV

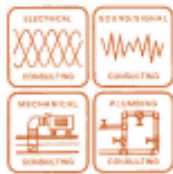
RACES Repeaters

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



Happy Halloween

R.J. CARLI ENGINEERING CORP



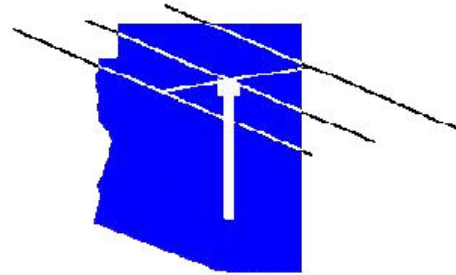
7311 E. STETSON DRIVE
SCOTTSDALE, ARIZONA 85251

RAYMOND J. CARLI, P.E.
ELECTRICAL ENGINEER
W7GNE

(480) 941-8810 (OFF.)
(480) 945-7020 (FAX)

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.

No Reports Received



MARCA INC.

ADAW



Emergency Communications Since 1961

SHORT SKIP

ADAW



ADAW



HAM RADIO OUTLET

WWW.HAMRADIO.COM

***FREE 1 OR 2 DAY DELIVERY TO MOST OF US!**



\$600
CLEARANCE PRICE

TS-990S | 200W HF + 6M Transceiver

- World's first dual TFT display • 200W output on all bands • ±0.1ppm TCXO ensures both high stability and reduced power consumption • Triple 32-bit DSP's dedicated to main/sub receivers and band scope • Main receiver employs full down conversion, new mixer & narrow band roofing filters • Third order intercept point (IP3) +40dBm for highest level of RX performance (main receiver)

Call For Special Price!



\$40
CLEARANCE PRICE

TM-D710G | 2M/440 Dualband

- V-VV-U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions

Call For Special Price!



\$250
CLEARANCE PRICE

TS-480SAT/HX | HF + 6M Transceiver

- 480HX 200W HF & 100W 6M (no tuner) • 480SAT 100W HF & 6M w/AT • Removable w/front panel/speaker • DSP built-in

Call Now For Low Price!



NEW

\$300
CLEARANCE PRICE

TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function • Improved 1st mixer • New PFB key with multi-function knob • New split function enabling quick setting • LED backlight with selectable color tone



\$25
CLEARANCE PRICE

TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch • "Five in One" programmable memory • 1000 multifunction memory

Call Now For Your Low Price!



\$40
CLEARANCE PRICE

TH-D72A | 2M/440 HT w/extended RX

- 5W TX, RX 118-524 MHz, VxU, VxV, UxU • APRS w/built-in 1200/9600 TNC • Built-in GPS, Built-in USB, digipeater • Echolink® compatible, • NI-Spec STD810

Call For Special Low Price!



\$200
CLEARANCE PRICE

TS-2000

\$250
CLEARANCE PRICE

TS-2000X

TS-2000/2000X | HF/VHF/UHF Transceiver

- 100W HF, 6M, 2M • 50W 70CM • TS-2000X 10W 1.2GHz
- Built-in TNC, DX packet cluster • IF Stage DSP • Backlit front key panel

Call For Special Price!



\$25
CLEARANCE PRICE

TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

Call For Special Low Price!



TH-K20A | 2M Handheld

- 2M 5.5W • V0X • CTCSS/DCS/1750 Burst built-in • Weather alert

Call For Special Low Price!



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

KENWOOD

Things are falling into place nicely here at HRO Phoenix! The weather is cooling & it's a great time to upgrade your radio or grab accessories for your outdoor hamf activities! We hope to see you soon!

HAPPY FALL!

Now serving you at our Phoenix store:
Manager Mike KB6VHF, Steve W7QY, Mike K7DD, Jim K7EOG, Jim KE7EEU, and Laura KB6UHF