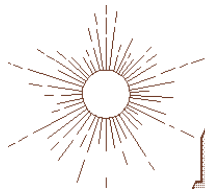


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



**WORK CAN BE FUN - 3 DAY WEEKENDS ARE BETTER
HAPPY LABOR DAY!**



ADAW

Arizona Desert Aire Waves

Vol 42, No 9 September 2017

CLUB MEETINGS SCHEDULE

SARC

Sep 6th
Scottsdale Senior Center
7:00 PM

AARC

Sep 14th
Red Cross Bldg. - Phx
7:30 PM

OPRC

Sep 13th
Marshall Conference Ctr
at Tucson Medical Ctr
7:15 PM

TBARC

Sep 21st
North Phoenix Campus
Northern Arizona University
7:00 PM

MCCARC

Sep 4th & 18th
Mesa Community College Tech Bldg
7:00 PM

CADXA

Sep 7th
PERA Club
7:00 PM

CLUB MEETINGS SCHEDULE

QCWA

October
TBD
Phoenix Area
11:00 AM

WVARC

Sep 4th
St Clement Catholic Church
Social Hall
7:00 PM

SuperstitionARC

Sep 19th
Charles K Luster Bldg
7:00 PM

ARA

Sep 28th
Denny's Restaurant - Tempe
7:30 PM

MARCA

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

MARA

Sep 23rd
Barrow's Pizza - Maricopa
9:00 AM

ANSR

Sep 18th
via GoToMeeting
7:30 PM

YARC

Sep 7th
Mile High Middle School
7:00 PM

OVARC

Sep 15th
Ascension Lutheran Church
7:00 PM

CARL

TBA
AZ Science Center
TBA

ADAW Member Clubs

ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURSDAY** of each month at 7:30 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	Joe Cutitta	W0SLI	623.215.2226
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 147.78/1.18 repeater.

President	James Wasson	N7ELL	480.456.1154
Vice President	Kelley Law	KF7ZVL	
Secretary	Paul Jorgenson	KE7HR	
Treasurer	Alan Jensen	KE7FSD	
Past President	Paul Finell	W7EFQ	602.741.6563
Board Members	Jerry Jacques	KE7GYM	480.239.8679
At-Large	Dreux Jacques	W7EMU	
	Louis Schmitt	NQ7I	
	Judy Jensen	KE7IXI	480.773.8452
	David Yee	N7AJR	
	Paul Jorgensen	KE7HR	
	Ed Nickerson	WU7S	480.949.5162
	Charlie Brown	NJ7U	
	Bill Kouchis	N9EIV	

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 MONDAY** of the month at 7:30 p.m. on Skype. 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	Gary Duffield	WK7B	602.843.7724
Vice President	Chris Johnson	K6OZY	623.866.2777
Secretary	Gary Cline	AF7BJ	
Treasurer	Darren Johnson	AF7CO	
Board Members	Joe Arnold	AD0X	
	Andrew Cornwall	KF7CCC	
	Wayne Hale	W6IZK	
	Robert Fairfield	K7RQN	
Past President	Walt Reinert	NJ8G	602.938.8219

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. Mailing address: PO Box 83615, Phoenix, AZ 85071-3615.

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	Tom Fagan	K7DF	520.574.1129
Vice President	John Marshall	WA7BST	623.334.2583
Secretary	Clifford Hauser	KD6XH	520.235.7393
Treasurer	Dave Hanson	W7BJ	w7bj@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	Linda Sitterley	W7POF	mmrginc@gmail.com
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 **FOURTH SATURDAY** of each month at 9:00 a.m. at Barrow's Pizza, 44600 W Smith-Enke Rd. (Smith-Enke and John Wayne Parkway) 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:	Steve Miller	W6SDM	602.290.1603
	David French	N7FAN	480.430.9426
	Bob Howard	W8RH	520.709.6176
	Curt Steger	NA7CS	520.568.9471
	Ronald Beasley	KG7MUV	520.568.4880
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 in the St Clements Catholic Church Social Hall located at 15800 Del Webb Blvd., Sun City. 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 on Thursdays at Lou's Trivoli Gardens, 12535 W Bell Rd., at 7:00 AM.

President	Jim Rogers	N7YTI	623.214.9219
Vice President	Harry Scholz	AF7UT	623.878.0587
Secretary	Sharon Blaylock	KI7DOK	623.584.6974
Treasurer	Geoff Bock	KB7QFP	708.723.7757
Club Directors:	Bob Paul	KG7FIL	623.252.0149
	John Siepmann	N9NA	623.266.8333
	Tom Connor	W7TLC	623.444.7956
	Nancy Collins	KG6QWW	623.398.5286

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>.

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
Vice President	Jeff Machesky	K7ZLX
Secretary	Brent Butler	W7FK
Treasurer	Douglas Mitchell	W7ADD
Board Members:	Andy Keels	KD4ABB
	Don Rollock	W2EUL
	Charlie Brown	NJ7V
	Dale Schmidt	N7QJK
	Dan Karnes	W7TWR
	Jeff Heinze	N7CCW
	Larry Fort	AB7C

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.

President	Norm Johnson	AA7OO	480.278.2886
Vice President	Dave Hall	N7ZPY	
Secretary	T D Kennard	N7ISR	
Treasurer	Don Aldridge	WA7RLL	
Director	Bill Hosking	W7JSW	
Director	Dusty Morris	W7ITM	
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	Virgil Silhanek, K7VZ	k7vz@w7ara.net
Vice-President	Brian McCarthy, AK7F	ak7f@w7ara.net
Treasurer	Erv Heimbuck, K0OTZ	k0otz@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 (Mike Montalvo, KF7MBK 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 the Mile High Middle School located at the end of W Carleton Street west of Montezuma Street (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	John Stevens, AB9JS	vice_president@w7yrc.org
Secretary	Sandy Mattsen, K9WIZ	secretary@w7yrc.org
Treasurer	Mike Reid, N7IEP	treasurer@w7yrc.org
Past President	Frank Bender, K8FB	k8fb@w7yrc.org
Board Members	Art Jackson, KA5DWI	ka5dwi@w7yrc.org
	Rex Mauldin, N7NGM	n7ngm@w7yrc.org
	Art Protas, KG6AY	kg6ay@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 the **FIRST** and **THIRD MONDAY** of each 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.

President	Charlie Brown	NJ7V	nj7v@arrl.net
Vice President	T.D. Kennard	N7ISR	n7isr@yahoo.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. 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	K7IP	480.961.1109
Treasurer	Karen McConaghy	NO7D	602.799.7338

Board Members:

Jean W4CIH	ADAW, Publicity
Steve WB4ZSC	Tech/IT, CARL/ASC Interface
Fred K9TOS	Logbook/QSLs
Tom K9TOS	At Large
Sam N7INV	Scheduling
Dave W7PMD	Hamfests
John K7JP	Teacher Packets
Bob KG7QJ	Classes, ASC Contact

Web Master, ARCA Rep - Roger Buel, W9NCQ - 602.493.7242
For information: Email to carl@w7asc.org or call Jack, KD7ROB at 480.759.5195. Web Site: <http://www.w7asc.org>

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	lwoen@gmail.com
At-Large	Mickey LeBoeuf	K5ML	k5ml@arrl.net

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.



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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 inquires should be submitted to each club's editor. Any information and opinions printed herein are those of the contributors and are not necessarily those of the sponsoring clubs. Full permission is granted to quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED.

Deadline is 10th of the month

From The Editor's Desk

Editor's Desk Continued from Previous Column

Hope everyone had the opportunity to see the Solar Eclipse on August 21. While Arizona only got to see a 60% moon coverage of the sun, it was still an impressive sight. Even though the skies were partly cloudy in the valley, viewing was still possible. The next solar eclipse that will be visible in the U.S. is April 8, 2024 and will traverse the northeastern section of the country.

The 2017 ARRL Annual Report is out and one of our own is featured within its pages. Ingrid Geissler, W7ISG was featured in the section on the 2016 National Park on the Air (NPOTA) Report. Ingrid operated from 123 unique NPOTA units and racked up 332 activations during the year-long event. She snagged the third best activator in the contest.

This 2016 National Parks on the Air event was sponsored by the ARRL to promote the 100th Anniversary of the National Park System and the heritage of our National Park System. The goal was to encourage portable operations to demonstrate the capabilities of Amateur Radio to the general public and the park administrators. Amateurs operated from National Parks throughout the United States to contact as many amateurs as possible. To "activate" a park unit, contact needed to be established with at least 10 ham operators. Ingrid operated from 123 unique NPOTA units and racked up 332 activations. Well done, Ingrid!



Ingrid Geissler W7ISG at the entrance to Crater Lake National Park. Ingrid and her husband Reinhard, K7RGG are members of the Arizona Amateur Radio Club, the Central Arizona DX Association, and the Mingus Mountain Repeater Group.

The 2017 ARRL Southwestern Division Convention will be held on September 15 through 17 at the Torrance Marriott Redondo Beach Hotel in Torrance, California. This year's theme is "Ham Radio for Everyone." The HAMCON committee has put together a wide variety of talks for this

year's convention. There will be extensive prize drawings, ARRL and Young Ham Forums, VE testing and more. Visit their website at www.hamconinc.org for all the details and registration information, or email Diana Feinberg at ai6df@arrrl.net.

The Thunderbird Amateur Radio Club will be holding a Technician class license class this month. The class will meet on Saturday mornings from 9:00 AM until noon from September 16 through October 7 at HonorHealth Deer Valley (formerly John C Lincoln) hospital, 19829 N 29th Avenue (on the southwest corner of North Loop 101 and I-17 stack) in Phoenix. The course text will be "ARRL Ham Radio License Manual" 3rd edition, which is available at Ham Radio Outlet and ARRL.org. See the flyer in the "Hamfest Flyers" attachment for where to register.

The 2017 ARRL Arizona State Convention/Copafest will be held on October 28th in Maricopa. This year's event will feature educational seminars, prizes, free VE testing, and a large swap meet. Admission is \$5.00 and includes all this and the UltraStar Multi-tainment Center. Check the website at www.copahams.org for all the details.

The Amateur Radio Council of Arizona will hold its next meeting at 11:00 AM at Copafest. The newly elected officers will officially take office at the meeting. Some great things are on the horizon for the Arizona Amateur Radio Community. Make sure your club is represented at the meeting. Visitors are welcome to attend as well.

Do you have any items you are searching for or any you would like to sell? Just a reminder that all members of the ADAW clubs are welcome to place a personal "For Sale" or "Wanted" ad in ADAW without charge. Just send an email with the information to adawaz@arca-az.org or adaw@adaw.org. Listings will be good for 3 months and then need to be "renewed."

Business ads are also welcome. Just send an email to the above addresses for all the details.

Enjoy your ADAW. "See" ya next month!

73,
Chris, N7PVL



September 10, 2017

Continued Next Column



By the time you read this the Geisslers Reinhard (K7RGG) and Ingrid (W7ISG), AARC club members, will be back from their travels to Germany where they attended, during the height of the tourist season, Germany's HAM RADIO 2017 in Friedrichshafen, along with 17,108 other visitors. I'm sure they will have a lot to tell us about their experiences at his great event. Ingrid celebrated her birthday while there, and I'm told she wore her t-shirt telling the world, "Today is my birthday."



Ingrid Geissler, W7ISG at HAM RADIO 2017 in Friedrichshafe Germany.

Although Field Day 2017 is history by now, we can't help but remember the enjoyment of that last weekend in June at Mingus Mountain. Several of our AARC members were a part of the radio activity there, and camped out with RV's or tents during the FD weekend. And steaks grilled in the open sure are tasty!! During the weekend, the AARC worked all states in the U, S, except for four. Total contacts were 416. Total points were 1544, including 700 bonus points. We had two stations on the air. Sixteen participants from the AARC were involved.

Although the Pinetop hamfest is over, let me remind you that there are others within a reasonable distance from our area. We are fortunate to be close enough to California to make it possible to get to the Southwest Convention which will be in Torrance the third weekend in September beginning the 15th. Hope to see you there! The ADAW does a good job of keeping us informed of available hamfests. Thanks, Chris.

The AARC Thursday night net is active, and we've had some newcomers join us recently. Not new hams, but some that have just discovered our weekly net on 147.060 MHz Thursday nights at 7:30 PM (except club meeting Thursdays.) Welcome to W7ELT, K7CAX, and KD7OIW to mention a few. Ten members check in regularly. Mark, N7KKQ, has been instrumental in the success of the net since he has made it possible to use Echolink so that hams at a distance can find it possible to check into the net. Lee Walters, W7UXZ, allows us to use his repeater each week which is also a big asset. Visitors are welcome to check into the Thursday night net.



THE TOWER TRAILER ARRIVES JUNE 23



AND THEN THE WORK STARTS

TIME TO GET SET UP FOR FIELD DAY 2017... BUT FIRST... A BIT OF WATER MELON



JUNE 23, 2017

73,
Lori, WA7EDI



AARC 2017 Field Day - June 23 - 25, 2017



Our club is busy working on Copafest 2017 and the ARRL State Convention. This will be our third hamfest and second state convention. It's Saturday, October 28 from 6:00 AM to 1:00 PM. The goal with each Copafest one is to make it better than the last.

As in previous years, we are located at the UltraStar in Maricopa. Even though we do have to pay for the venue, the conveniences make it worth it. If you're bringing the family, there are all the amenities that the UltraStar has to offer: Laser tag, multiple cinemas, restaurants, bowling, video arcade, etc. That will keep the XYL and kids busy while you browse the tailgaters. We have a breakfast venue opening early at the Elements facility, where you can get coffee and breakfast items. And there's the 347 Grill where you can get a fantastic lunch. No week old burritos off the food truck here.

And if that's not enough, we will have multiple raffle tickets and door prizes. Some of the giveaways include a Hammo can, which is a dual bander made into a regular ammo can, complete with battery and antenna – everything you need to get on the air after you bug out to avoid the zombie apocalypse. We're also raffling off a Hy-Gain 14AVQ 40-10 meter vertical antenna. This is one of the oldest and most well-proven verticals around. It's great for portable or semi-stealth operation.

Tickets this year are five dollars each. Raffle tickets are a dollar, six for five dollars. We hope to see you there!

Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Barn Burner Mtn Bike Race	NW Flagstaff	09/09/17
Mogollon Monster	Pine AZ Area	09/16/17
Xterra Estrella Mtn Trail Run	Estrella Mtn Park	10/08/17
Tour De Scottsdale	DC Ranch Scottsdale	10/08/17
ADA Step Out for the Cure		10/28/17
Midwestern University, 59th Ave & Loop 101		
Javelina Jundred	McDowell Mtn Park	10/28/17
JROTC First Water	N of Apache Junction	11/04/17
Phoenix Half Marathon	Downtown Phoenix	11/05/17
Xterra San Tan Trail Run	San Tan Park	11/12/17
JROTC Shopies Flats	N E of Wickenburg	12/09/17
Scottsdale Half Marathon	Scottsdale Civic Center	12/10/17
Xterra-White Tanks	Waddell	01/07/18
JROTC First Water	N of Apache Junction	01/27/18
Runner's Den Pancake Run		02/04/18
E Phoenix, Paradise Valley Mall		
Xterra - McDowell Mtn	Fountain Hills	02/04/18
Black Canyon 100K		02/17/18
Spring Valley to the Emery Henderson Trailhead		
Lost Dutchman Marathon	Apache Junction	02/18/18
JROTC Shopies Flats	N E of Wickenburg	02/24/18
Xterra Black Canyon Trail Run - Black Canyon City		03/11/18
Mesquite Canyon	Waddell	03/17/18
Crown King Scramble	Lake Pleasant - Crown King	03/24/18
March of Dimes March for Babies		04/14/18
Wesley-Bolin Park, Downtown Phoenix		

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.

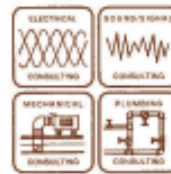
ADAW



September 22

ADAW

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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.



Inside W7ASC

The W7ASC station has recovered from Field Day. Many visitors were treated to demonstrations of Amateur Radio, Morse code, and provided information about Sky-Warn. These activities spilled out of the Shack and were on display throughout the building. Management and staff of the Arizona Science Center helped to make this a great experience for those visitors who were there, and there were many. In order to make this happen, a large volunteer contingent attended. Information on the next license class was made available. By the time you are reading this newsletter, this July class will be history. If we have success statistics before the August deadline, we will try to insert them.

The Harkins Ham Shack is now in its third decade of public service! It is really amazing to be visited by adults who tell us that they first visited the Ham Shack as a student on a Field trip. Now they have children of their own and now they would like that child, or in some cases, those children, to be taught to do Morse code.

It is not unusual to be visited by Hams that tell us that they were first introduced to Ham radio at this very same Ham shack.

In days past, the visitors to the Shack would often ask: "What do we do here?" These days the visitor is often on a repeat visit. More frequently they ask if they can do Morse code again. Some youngsters walk into the Shack and announce that they had done this before, and they remembered how it is done. They are, of course, invited to demonstrate their skills. Some of these visitors do remarkably well! It causes the Volunteers to wonder if there is anyone in Phoenix who has NOT done their name in Morse code at W7ASC.

The call sign is now well known on the local repeaters. It takes only a moment to make contact when a visitor accepts an invitation to "talk on Ham radio." Most of the time the Ham shack volunteer is recognized by the responding station. The station reaches out through repeaters that are a part of the ARA or EAARS networks. The West valley repeater NY7S is also a regular. A big "Thank you" goes out to those groups for extending the reach, and enhancing the visitor experience of W7ASC. And that, of course, is the primary goal. Volunteers wish to see every visitor walk away with a big smile on their face. If any Ham has time to volunteer at W7ASC,

Continued Next Column



No Report Received

ADAW

CARL Continued from Previous Column

there is always room on the schedule, for more Hams who would like to see those smiles.

The Arizona Science Center occupies a fairly large building, located on Heritage Square on the NW corner of Washington and 7th streets, across from Chase field. The station is on the third floor in the "My Digital World" gallery. A new addition to the gallery is located just outside e of the Shack. It is a very large screen terminal, wired into the NASA system that is actively analyzing exoplanets. Puzzled by that term? Visit the Shack and step over to that monitor and learn what it is all about.

W7ASC volunteers were recently invited to a private showing in the ASC Planetarium. That show was about Coronal Mass Ejections, an event on the surface of the sun that can do real damage to communication systems. Volunteering at W7ASC is about much more than just Morse code!

To learn more about volunteering, or even about bringing your family to W7ASC, call Bob Burleson KG7QJ, retired W7ASC President, at kg7qj@cox.net, or Jack KE7ROB, current W7ASC President, at 480-759-5195. Or just come to the Shack to discuss in person with the Volunteer on duty.

Hope to hear all of you on the air from W7ASC.

73 de W4CIH Jean.

Please send any material for this newsletter to me at jeanjol@hotmail.com or call me at 480-664-7353

ADAW



ARA Continued from Previous Column

Our wonderful technical committee, as usual, has been hard at work in the last couple months. The winter weather pictures from our mountain top sites are awesome, but the weather wreaks havoc on the hardware. On the hot summer days in Phoenix, it's nice to spend the day or weekend at higher altitude and cooler temperatures, even if it's working on a repeater site. We've definitely made a few maintenance trips to repair and tune up the sites recently.



Mt. Ord has been visited several times. Heavy ice punctured the roof in January. We were able to get a roofer up there to patch it for us immediately and they've since redone the entire roof as well as replaced all of the ice guards. The link antenna pointing to Shaw Butte was also replaced after being broken by ice. A new antenna for the 147.360 repeater was installed on the top of the tower to eliminate reported signal problems we've been having.

Mt. Ord building roof showing the temporary patch and bent ice guard.

In June, the final antenna and radio connections were installed to link Mingus 146.820 to Metrolink. I mentioned all of the details of the current system in my July ADAW article, so skip back and read that. Bringing a new link into the system introduced many bugs that had to be worked through. Quite a bit of time at each site, in front of the controller code, was required to get tones, timers, and everything else to behave properly.



Mt. Ord link antenna to Shaw Butte didn't survive a falling ice hit.

There was also a weekend camping trip to Greens Peak. Besides the usual tune up, the primary focus on the trip was to replace the generator fuel regulator. Over the past year, we've noticed the generator didn't always fire properly on Wednesday evening test runs. The colder it got, the harder it was to start. Several times, we had to wait until midday the next day to get it to start. Anyway, a new regulator and adjustments have it purring like a kitten.

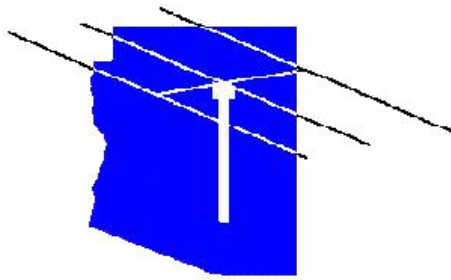


At Pinal Peak, tower climbers wait for the replacement antenna to be hoisted up.

The most recent site to get an upgrade was on Pinal Peak. Recently, the 147.200 repeater was giving stations quite a bit of grunge and was very noisy. Radios and feedline were checked without finding a problem. We were able to isolate it to just the Pinal VHF repeater. Other Rimlink radios sounded great, including the Pinal 900Mhz. With climbers on the tower shaking the antenna, we were able to increase the cracking and popping when the radios transmitted. The antenna was

Continued Next Column

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MARCA INC.

No Report Received



By the time you read this our August Escape should be in the books, but as I'm writing it we still haven't seen the eclipse yet. How did it affect the ionosphere? Was traffic in Oregon as dire as some were predicting? I guess we'll have to check at hamsci.org to learn more - and to get the results of the Solar Eclipse QSO Party. I hope we didn't get rained out! Thanks to Gary AF7BJ for organizing the whole event.

If you look at the flyers that come with ADAW (and you really should) you'll see that TBARC has announced our 2018 Hamfest. It's going to be held at the same place as last year - Northwest Community Church near Bell and 43rd Ave. - and it continues to grow and become more and more popular. Be sure to mark your calendar for the second Saturday in January, the 13th. Seminars are being lined up now - if you have a talk you'd like to present, send mail to Rick Tejera via elmer@w7tbc.org. Check out the website w7tbc.org for more details.

Also in the flyers section, you'll find an announcement for the TBARC Technician class. If you're reading this, you probably already have your ticket - but maybe you know someone who's always thought about it . . . or never thought about it. The class is going to run Saturday mornings from 9:00 a.m. to noon, starting on September 16th and ending with a license exam on October 7th. This will be at HonorHealth, formerly John C. Lincoln, Hospital, Deer Valley Campus, 19829 N 27th Ave (SW corner of North Loop 101 and I17 stack). Let your co-workers, friends, spouses, and mature kids know about the class - and then maybe you'll be talking to them on the air soon!

Have you been to a TBARC meeting yet? Why not stop by? We'd love to have you join us, and guests are welcome. Our meetings are held on the third Thursday of the month at the North Phoenix Campus of Northern Arizona University. It's near Greenway and I-17, starting at around 7:00 p.m.. See the club website at w7tbc.org for directions. In September, Lee Finkel KY7M & Ned Stearns AA7A will introduce us to the Milt Jensen Memorial Remote Station in Safford, AZ. Have you ever noticed the circle of 8 quarter-wave 160m antennas down there? Want to learn more about operating a DX powerhouse in our backyard? Join us and find out!

Andrew Cornwall, KF7CCC
kf7ccc@arrl.net



ARA Continued from Previous Page

replaced with a new one and is once again working as it should be.



The old Pinal antenna was cut apart and broken connections were identified as the failure point.

Virgil K7VZ
ARA President





By the time this article gets distributed, we will probably have already completed our mission for the 2017 eclipse. As I write it, however, we're getting our gear ready, our radios programmed for the local Laramie, Wyoming repeater, and preparing to hit the road.

The ANSR ham radio contingent consists of Jack Crabtree, W7JLC, Bill McLean, K7WWM, Kim and Vince Jenkins, KC7IIU, Clayton Jacobs, KJ7QLS, Stephen and Tonya Thomas, KE7TLS, Rick Cofone, K2CRC, Steve Miller, W6SDM, Randy Peckenpaugh, W0SMX, Bob Thompson, KC8BOB, and Michael Fusco, KM0CYL.

One of the tools that we use to track payload re-entry is APRS. You can monitor the progress of some of our chase team by looking on APRS for K2CRC, W6SDM and W6SDM -9, KJ6QJS or KC7IIU. Our vehicles may be beaconing on the normal APRS frequency of 144.390 MHz. We use special frequencies of 144.340 and 445.925 MHz for the payloads. The call signs for our two flights, designated ANSR 109 and ANSR 110, are KA7NSR -6 and 8 on the two-meter frequency and KA7NSR -7 and -9 on the 70 CM frequency. You can follow the chase team on APRS.fi.

Our group will be camping in a variety of trailers and tents. Our reservations at Glendo State Park were made over a year ago . . . there isn't a square inch of camping space and certainly not a hotel room for hundreds of miles along the path of the totality. While we're roughing it, we do have gourmet cuisine being catered by the mom and sister of our Vice President, Clayton Jacobs, KJ6QJS. They will be doing the cooking and have signed an agreement that there will be nothing that resembles Brussels sprouts or broccoli.

Our mission is to film the totality of the eclipse and send the video to a streaming website, allowing NASA to broadcast on NASA TV. If you have cable or satellite TV, you likely have the NASA channel in your lineup. We will be flying two high altitude balloons. Each of 55 participating teams from 30 states will "hand off" the video stream as the totality passes through their area. Organization and planning is led by Montana Space Grant Consortium with assistance from many other Space Grant Consortia.

Because Arizona Near Space Research is disbursed all over Arizona, and some even outside the state, we will be traveling on our own rather than all going up as a group. We will have 35 people and 24 vehicles on site, including our trailers and

MMRG doesn't have monthly meetings as they are a repeater group not a radio club. They have an annual board meeting and an annual picnic / membership meeting. Their annual picnic is a blast and very well attended.

For your information, IRLP node 5050 is operational in the Prescott area. It uses the MMRG UHF repeater (442.150 MHz, plus offset, PL 100 Hz) located on Mingus Mtn. Some Arizona hams have been using node 5050 to contact friends in the Prescott area. You are welcome to try it out. For info contact: Ray, N6MY (n6my73@gmail.com) or Bob, K7POF (k7pof@yahoo.com). If you aren't familiar with IRLP, here is a very brief tutorial: <http://cq-blackrock.org/irlp-tutorial.php>

Bob K7POF president MMRG

MMRG Secretary Lori, WA7EDI, wonders if the ADAW readers can answer these questions. We're sure you can. If not, next month we'll tell you the answers.

- What is the call sign of the MMRG repeater?
- When was the repeater first installed?
- What is the frequency of the MMRG repeater?
- What is WA7UID/R?

73,
Lori



ANSR Continued from Previous Column

utility vehicles.

We have been practicing and preparing for this once in a lifetime event for years now. We have had several practice flights to test people and equipment. Wish us luck as we represent Arizona and assist our university and college students with this event.

Steve Miller, W6SDM

Continued Next Column



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

The July meeting program was given by Tom Kramer, NQ7R, on “Meteor Scatter” (MS). This is a unique mode of ham radio used primarily on 6 and 2 meters that utilizes the “plasma” trails created when meteors and comets burn up while entering the Earth’s atmosphere. Tom discussed the history and science of the mode, including several commercial and military uses over the years.

Tom has been making MS contacts for over 20 years, both here and back in his home state of Iowa. He has also gone on the road to activate some rare grid squares using MS. Back in the beginning, MS contacts were made using voice and high-speed CW, but all that has changed in recent years with the invention by Joe Taylor, K1JT, of WSJT-X modes like FSK441 and MSK144. MS has its greatest potential during the major meteor showers that occur each year at known times, like when the Perseids meteor shower peaked on August 12-13.

Tom provided a list of helpful tools for those interested in trying this mode, including these websites:

- WSJTGROU Website www.meteorscatter.org/
- K1JT Website <http://physics.princeton.edu/pulsar/K1JT/>
- DX Maps <http://www.dxmaps.com>
- Ping Jockey Central <http://www.pingjockey.net/>
- VIRGO meteor tracker <http://dl1dbc.net/Meteorscatter/>
- International Meteor Organization <http://www.imo.net/>
- ON4KST Chat page <http://www.on4kst.info/chat/login.php>
- N5TM Chat page <http://chat.n5tm.com/>
- PJ Client <http://www.n5tm.com/pjclient>

Next Meeting on September 7th

Our next meeting will be on Thursday night, September 7th, at the PERA Club beginning at 7:00 pm. The program will be “Voodudes Go South” presented by our own Bud Semon, N7CW. Bud and the Voodoo Contest Group made their first trip to South America in 2016 for the CQWW CW Contest and operated as PZ5V in Suriname from the guest quarters at the QTH of Ramon, PZ5RA. Come and hear about their latest contest and DXing adventure.

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

For this month, we’re introducing our new website – www.k7arc.org. It’s still under construction, but we have lots of info on what the ARCCC is all about. Give it a try and check it out.

We had our first tech planning meeting in July, to discuss what we think are the highest priority projects for the club equipment. First, we’re going to install new hardline coax and new antennas to improve the repeater(s) coverage. Next on the list will be to give our Echolink node a more permanent home. After that, we’re going to add a link so our colleagues down in Tucson can chat with the Phoenix Chapter.

Lots of things are happening and tons of ideas floating around – would you like to have an ARCCC monthly net? How about a yearly meeting or picnic? Let us know.

Congrats to Red Cross Volunteer Rob Rodriquez, who received his new callsign – KI7PDR. I’m sure we’ll find some unpleasant task for him to get his ham radio feet wet with.

Your Humble Scribe,
Mark, N7KKQ

ADAW

Want Ads

WANTED:

I am looking to purchase an alinco DJ-G29T 222/900 MHz Dual-Band HT. If you have one to sell, please contact:

Larry Stafford, N7WBU
3527 S Chesin Drive
Tucson, AZ 85730-2319
email: TFDFF@cox.net

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SHORT SKIP

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**West Valley
Amateur Radio Club
High-Speed Multimedia
Special Interest Group**

The West Valley Amateur Radio Club is starting a high-speed multimedia special interest and mesh networking group. If anyone is interested, please let me know.

Bob KG7FIL kg7fil@arrl.net

ADAW

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.

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The Yavapai Amateur Radio Club continues to grow and we are encouraged with the level of involvement from many of our new members. Several new projects are in the works and will be announced as soon as they are viable. We are continually looking for new ways to involve youth (before they are captured by the dark side).

Two years ago, YARC began bimonthly exam sessions (up from quarterly). This is possible because of the dedication of our many VEs. Much thanks goes to these dedicated volunteers.

In keeping with the increased exam sessions, YARC continues our series of licensing classes for people interested in Ham radio. Brian Vlastelich heads up our class program and has had several Tech classes since taking on the role. Now he has scheduled a General class in September, and promises an Extra class before the end of the year. For more info on classes, check out the YARC website www.w7yrc.org for schedules as they come available. Upcoming regular test session is Sept.9, 2017, followed by another, our last of the year on November 11th. For more info on the test schedule, email testing@w7yrc.org. BTW, if you are in our area, the testing schedule for 2018 is on the ARRL site now, so plan ahead.

And while you are planning, the Prescott Hamfest 2018 is scheduled for June 1-2, 2018.

This event is only going to get bigger and better.

Come join us for one of our monthly club meetings. We always meet on the 1st Thursday of the month at the Mile High Middle School in downtown Prescott; 15 degrees cooler than the valley at 5400 feet.

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*

SCOTTSDALE AMATEUR RADIO CLUB, INC.



Club Station: W7UF
Club Repeaters: 147.78/18 & 445.00/440.00

For Sale



PRICE REDUCED!

Partly Restored Vintage Tube-type Transmitter - \$350
Baker Williams B&W 5100B AM/CW, 80-10m, 150w(2)6146's, has built in VFO and restored dial. Included is: Matching B&W 51SB-B SSB Generator (for ssb operation). Both will need new electrolytic filter capacitors. Interconnect cables (between 5100B and 51SB-B) included. Contact: Ray, W7GNE @ 480-540-4629.

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.

In last month's column, I forgot to mention the Solar Eclipse QSO party that was held on August 21. As I am writing this column the event is yet to be, but many of us are getting ready for it. The purpose for the QSO party is to saturate the airwaves with signals. We will log our contacts during the time of the eclipse and send them in to ARRL. The contacts will also be collected and measured by automated receiver networks of the Reverse Beacon Network, PSK Reporter, and WSPR Net. When all of these observations are combined, this will be one of the largest ionospheric experiments ever performed. I know there are several club members who are going north to be in the actual shadow and operate all bands and modes. I hope to have some information about their trip.

This has turned out to be a great monsoon here in Arizona. The Rim country has received quite a lot of rain and the forests love it. I spend some time in Payson and really enjoy the show. Usually the rain comes in a nice thunderstorm. There is a Lot of lightning and thunder. The dogs don't like it very much, but I sure do. The valley has also received a lot of rain. When it rains here in the desert, we all like to go out in it. Sometimes we walk in the rain or we drive to no place in particular, just to hear it on the roof. It's like what Marsh Trimble says, "It always rains after a dry spell."

Summer is also the time to take a vacation to get out of the heat. Whether you have gone out of state or spent time in the high country, I would like to hear about your adventures. So let me know about them and I will feature them in upcoming columns.


The Club has a net every Tuesday at 7:00 PM on our repeater system. The repeaters are on 147.18 with a tone of 162.2 and on 440.00 with a tone of 100.00. Everyone checking in can give us a run down on what they have been up to lately. Sometimes we have an interesting question for everyone. So set your clock for Tuesdays at 7:00 PM and we will see you on the air.

Well, that's all I have for now. Be well and keep hamming.

Ed Nickerson WU7S
enickerson427@aol.com



SARC CONSTANTS:
SARC is a 501 (c)(3) club. That means all donations are fully tax deductible. Contact Paul Jorgenson, KE7HR at 602.992.8043 for information on estate donations and equipment pick-up.
For membership information, call Judy Jensen, KE7IXI at 480.773.8452. Please send address change requests to Judy no later than the 7th of the month in which you would like the change to occur.




Hamfest Calendar

28 October 2017 - **2017 ARRL Arizona State Convention/Copafest 2017** - hosted by the Maricopa Amateur Radio Association will be held at the UltraStar at Ak-Chin Circle in Maricopa. Swap Meet, Free VE Testing, Educational Seminars, Raffle Prizes and more. In addition, UltraStar offers 12 Cinemas, 24 Lanes of Bowling, Laser Tag, a Video Arcade, Restaurants, Cocktail Lounge and much more. For info, visit the web site at www.copahams.org or email info@copahams.org

15-17 September 2017 - **HAMCON 2017/2017 ARRL Southwestern Division Convention** - will be held at the Torrance Marriott Redondo Beach Hotel, 3635 Fashion Way in Torrance, CA. Theme for this year's convention is "Ham Radio for Everyone." A full range of talks by experts are scheduled. Saturday lunch and dinner and Sunday breakfast will feature distinguished speakers. W1AW/6 Special Event Station, ARRL Forums, Young Ham Forum, Sunday Swap Meet, Discounted Hotel Room Rates, Special Tour of Battleship Iowa, Saturday Morning VE Testing, and much more. Visit the web site at www.hamconinc.org for all the details.

11 November 2017 - **Oro Valley ARC 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). Valid Student IDs are also 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 PI 156.7. For information, visit the web site at orovalleyarchamfest.com or contact Steve, W1SR at w1sr@arrrl.net

18 November 2017 - **HARKFEST Tailgate Hamfest** - 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 upon Request - Prizes Arts & Crafts Show 9 AM - 2 PM and Lunch at Activity Center

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2 December 2017 - **Superstition SuperFest 2017** - hosted by the Superstition Amateur Radio Club will be held at Mesa Community College, 1833 W Southern Avenue in Mesa. Hours are 8:00 AM to 4:00 PM. Admission \$5.00 per person, children 12 and under free. Tailgate \$10.00 per space. Grand Prizes and Hourly Door Prizes. VE Testing - Registration from 8:00 AM until 9:00 AM, Testing begins at 9:00 AM. Pre-register at times listed. ARRL Card Checking. Special Events Station - K7A Commemorating the USS Arizona. GOTA Station. Fox Hunts. For more information, contact the SuperFest Chairman at chairman@superstitionhamfest.org.

13 January 2018 - **Thunderbird Hamfest** - hosted by the Thunderbird Amateur Radio Club will be held at the Northwest Community Church, 16615 N 43rd Avenue in Phoenix. Visit the TBARC web site at www.w7tbc.org for additional information. Contact: Walter Reinert, NJ8G at 602.938.8219 or nj8g@cox.net for more information.

21-21 January 2018 - **QuartzFest** - will be held in Quartzsite. Hands-on Demos, Mobile Ham Shacks, Recreational Vehicles, EMCOMM Systems, Off-The-Grid Living, Alternative Energy, and Radio Education. Over a hundred Technical Seminars and Fun. For more information, visit the web site at www.quartzfest.org.

16-17 February 2018 - **2018 Arizona Section Convention/Yuma Hamfest** - hosted by the Yuma Amateur Radio Hamfest Organization will be held at the Yuma County Fairgrounds, 2520 E 32nd Street in Yuma. Visit the web site at www.yumahamfest.org for additional information.

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.

September Test Sessions

Sep 2nd - ORO Valley ARC -- 10:30 AM

Oro Valley Police Sub-Station, Oro Valley Marketplace, Oro Valley
Contact - Quinton Gleason qagleason@comcastnet

Sep 2nd - DeVry ARC & WVARC -- 9:00 AM

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

Sep 4th - WVARC -- 6:00 PM

St Clement Church, 15800 N Del Webb Blvd, Sun City
Contact - David Morrill 623.680.5011

Sep 7th - 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

Sep 9th - Yavapai ARC -- 9:00 AM

Jeep Posse Bldg in Pioneer Park, 1200 Commerce Dr, Prescott
Contact - Donald Bauer 928.775.4690
Pre-Reg online: www.w7yrc.org

Sep 11th - Radio Society of Tucson -- 7:00 PM

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

Sep 16th - Central Phoenix VE Team -- 6:00 PM

Gilbert Farmers Market, 222 N Ash Dr, Gilbert
Contact - Bill Martin 480.205.3625
No Walk-Ins - Limit Space - Contact Prior to Exam

Sep 16th - Unsponsored -- 10:00 AM

Cerbat Elementary School, 2689 Jagerson Ave, Room 118, Kingman
Contact - Daniel Miller 928.897.3883
Pre-Reg Appreciated

Sep 18th - East Valley VE Team -- 6:00 PM

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



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.

Tom Fagan, K7DF, President

QCWA Barry M. Goldwater Chapter 16 Arizona
k7df_tom@yahoo.com

ADAW

Test Sessions Continued from Previous Column

Sep 19th - 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

Sep 20th - Thunderbird ARC -- 6:00 PM

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

Sep 20th - Central Phoenix VE Team -- 6:00 PM

South Mountain Community College, 7050 S 24th St, Phoenix
Contact - Bill Martin 480.205.3625
No Walk-Ins - Limit Space - Contact Prior to Exam

Sep 23rd - Arizona ARC -- 7:00 PM

American Red Cross, 4747 N 22nd St, Phoenix
Contact - Gary Hamman 602.996.8148
No Walk-Ins - Pre-Registration Required by Friday night

Continued Next Column



Old Pueblo Radio Club INTERMOD

President's Column

The Dog Days of Summer are Over . . . Finally

With a just a hint of cooler mornings, OVARC continues to plan many outdoor operating events.

Although we don't really go too far, the OVARC DXpedition schedule takes us to the Pima County Air and Space Museum for our August event on Saturday, August 19th. We'll be operating indoors in air conditioned space. With some careful planning, members wearing their OVARC member badges will be allowed to enter free of charge. If you have never been to this museum, it's a real treat. There are hundreds of airplanes and other static displays along with some other side tours. Please stop by and see us there.

This month's OVARC meeting is on August 18th. The presentation this month is on Remote Operations. Until we can successfully get the Amateur Radio Parity Act through the legislative process, many of us have to deal with antenna restrictions making Remote Operations the only way to operate on HF. As always, we welcome visitors to join our meetings.

The FT8 digital mode will also be presented in our Handyman Corner segment at the August 18th meeting. Jim, W5ZIT, has got some first hand experiences to share about this fast-exchange method.

Many thanks to David, AK2L for running 10 weeks of instruction for prospective General Class Licensees. Beginning in May, David guided the students through the ARRL General Class course. At our regular VE session last weekend, the exam was given with a 100% success rate. Thanks again to David for his many hours of dedication in teaching new hams and those wishing to upgrade.

Our Saturday morning our Hams & Eggs Breakfast event has now moved to The Views in Oro Valley. It's a great way to start the weekend at a first class golf resort talking with fellow hams. As usual, there are plenty of ELMERS there to solve all of your ham radio questions. Please join us. This is an open venue and we welcome fellow hams to join us. Coffee starts flowing at 7AM every Saturday morning.

We always welcome new club members. If you even have a casual interest in ham radio and can conveniently make some of our meetings we would love to have you join us. Dues are on par with other clubs at \$25 per calendar year.

Our November hamfest is coming together. It's on November 11 this year, which is Veteran's Day, and we plan

The Old Pueblo Radio Club will hold its September meeting at the usual time and place. The main business will be to discuss what matters should be addressed at the club's December meeting. Under the bylaws of the club, the December general meeting may entertain all business of import to the club, with or without prior notice.

73 de

Ron, N7SPW
President, OPRC

<i>OPRC Repeaters</i>		
146.66 - PL 110.9	wide coverage	W7GV
146.82 - PL 110.9	wide coverage	W7GV
<i>RACES Repeaters</i>		
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

ADAW

OVARC Continued from Previous Column

to have a special event to recognize our Veterans. We are always on the lookout for "gently used" ham radio related donations that we can sell to benefit the club. Please contact us through the Club website if you have a donation. www.tucsonhamradio.org.

73 and Stay Cool! Steve, W1SR

Continued Next Column



Superstition Continued from Previous Column

In December, the SuperFest is this club's big amateur radio swap meet event, Saturday, December 2. Instead of the General Meeting, we host a Christmas party at Golden Corral up on N Power Rd., below McKellips, usually on the second Tuesday.

73 — Larry WB7C

July's Organ Stop Pizza gathering was well-attended

The Superstition Club held its annual get-together at Organ Stop Pizza, with 78 in attendance, according to Steve, KB7KWK, in his President's Corner published in the Communicator newsletter for August. Everyone had a wonderful time listening to music from the world's largest theater organ, not all of it "organ" music! Charlie Balogh made this year's party sound great from the organ console.

At the end of the show, Steve recognized Dave Muller, K7AV, longtime Morning Trivia Net host — Dave had to suspend his net control duties to drive to work, until his retirement in the coming months. He has been stepping over from the ham radio desk to his computer desk to complete his "commute" to work until recently.

Other certificates were awarded to Club Treasurer Douglas Mitchell, W7ADD for his work as Treasurer and for Web administration — he maintains the web service account for the club sites; to Dan Karnes, W7TWR for his work on our repeaters as Tech Committee Chair; to Andy Keels, KD4ABB, for his work organizing club activities; to Brent Butler for stepping in to fill the Secretary's seat and to Don Rollock, W2EUL for stepping up to fill the Board seat vacated by Brent. As well, John Groseclose, WX4LTG was awarded for his hard work in club Communications and JD Smayliss, KF7VOX for his excellent work with the SuperFest and club meeting fund drives. Congratulations to all these recipients!

ByLaws change approved: Dues will come due each October

In the July meeting, the members voted to approve the ByLaws proposal presented last spring. The membership year will now begin in October. The club will pro-rate your next Dues as needed to complete the switch-over.

Our next meeting Tuesday, September 19, 7:00 PM

Superstition ARC meets at the former Mesa Utilities Office, now known as the Charles K. Luster Building, 640 N Mesa Dr., Mesa. Visitors are always welcome to join us at 7:00 PM, Tuesday, September 19.

The guest speaker will be Brian Betz, W7JET, and we will be doing a dipole antenna build.

In September through October, candidates will be sought for the November ballot for the 2018 Board and Officers. Elected candidates will begin their service to the club in January.

Continued Next Column

ADAW

Superstition ARC Repeaters

147.120 MHz (+) 162.2 Hz - Usery *

448.275 MHz (-) 100.0 Hz - Usery

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 Business Net: Wednesdays, 8:00 PM - Featuring Club News, Elmer Q&A and AR Newslines.

Mesh Information Net: Thursdays, 6:30 PM

East Valley Swap Net: Thursdays, 7:30 PM

National History Net: Thursdays, 8:30 PM. Quizzes you on National History.

10-Meter Rag Chew: Thursdays, 8:00 PM, 28.465 MHz USB
Morse Code Class Net: Saturdays, 7:00 PM

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.



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TM-D710G | 2M/440 Dualband

- V-VV-UU-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
Kilobase
compare

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

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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

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

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compare

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!



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compare

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, • MI-Spec STD810

Call For Special Low Price!



\$25
Kilobase
compare

TM-281A | 2 Mtr Mobile

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

Call For Special Low Price!



TH-D74A | 2M/220/440 HT w/D-STAR

- D-STAR compatible • APRS ready w/built in GPS • Color weather station information • Built-in KISS mode TNC • High-performance DSP voice processing • Standard compatibility for Bluetooth

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