

4529 W. Park Place Glendale, AZ 85306-1512



Happy Valentine's Day!





CLUB MEETINGS SCHEDULE

SARC

Feb 3rd Scottsdale Senior Center 7:00 PM

OPRC

Feb 10th Marshall Conference Ctr at Tucson Medical Ctr 7:15 PM

AARC

Feb 11th Red Cross Bldg. - Phx 7:30 PM

TBARC

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

CLUB MEETINGS SCHEDULE

CARL

TBA
AZ Science Center
TBA

QCWA

March TBA Tucson Area 11:00 AM

SuperstitionARC

Feb 16th Mesa Utilities Building 7:00 PM

MARCA

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

ANSR

Feb 15th 7:30 PM via Skype

ARDG

Every Wednesday
Phoenix Country Day School
11:10 AM

WVARC

Feb 1st St Clement Catholic Church Social Hall 7:00 PM

ARA

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

MARA

Feb 27th Barrow's Pizza 9:00 AM

ADAW Member Clubs

ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURS-DAY** 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	W0SLL	623.215.2226
Secretary	Mike Zachary	KG7OSR	
Treasurer	Bob Hodges	K7JJT	602.375.9982
Activities Mgr	Lori Cripps	WA7EDI	
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.

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	Bob Burleson	KG7QJ	480.961.1109
Vice President	Jim Felkey	N7BBS	602.570.3822
Secretary	John O'Neal	K7JP	480.345.7800
Treasurer	Roger Buel	W9NCQ	602.493.7242
Board Member	David Zinder	W7PMD	602.358.7826
Tech/IT	Steve Warford	WB4ZSC	480.391.9521
QSL Logbook	Skip Moretti	K7OAH	602.952.2649

Web Master, ARCA Rep - Roger Buel, W9NCQ - 602.493.7242 For information: Email to <u>carl@w7asc.org</u> or call Bob Burleson, KG7OJ at 480.961.1109. Web Site: http://www.w7asc.org

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 <u>every Tuesday night</u> at 7:00 p.m. on the 147.78/.18 repeater.

President	James Wasson	N7ELL	480.456.1154
Vice President	Bob Johnsen	K7TR	480.946.1427
Secretary	Ed Nickerson	WU7S	480.949.5162
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	
	David Yee	N7AJR	
	Paul Jorgensen	KE7HR	
	Kelley Law	KF7ZVL	

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

OLD PUEBLO RADIO CLUB

The Old Pueblo Radio Club meets the **SECOND WEDNESDAY** of each month (except June, July and August) 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 Director	s: Bill Price	N7GUO	
	Cliff Hauser	KD6XH	
	Jim Ulmer	KC7THU	
	Lin Donnelly	KF7CNR	
WebMaster	Ted Willis	AA7HX	520.790.3828
	(www.oprc.org)		
Trustees: (all re	epeaters operating	under the K7	TRA call)
Primary	CliffHauser	KD6XH	
	146.660, 146.820,	147.220-	
	Paul VanBeverho	oudt KA7LFX	X 224.06+
Secondary	Ted Willis	AA7HX	146.66-
	Ralph Turk	W7HSG	146.82-
	Paul VanBeverho	oudt KA7LFX	X 224.06+

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

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 evey 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	Ray Tyrrell, N6MY	928.227.0349
Sec/Treasurer	Open	
Webmaster	John Marshall, WA7BSR	623.334.2583

Web Site: http://azqcwa.org Email:w7bj@outlook.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	Raymond Tyrrell, N6MY	n6my@gmail.com
Treasurer	David Hanson, W7BJ	602.615.3444
Secretary	Lori Cripps, WA7EDI	602.955.7517

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

ADAW Member Clubs

THUNDERBIRD AMATEUR RADIO CLUB

The Thunderbird Amateur Radio Club meets the **THIRD THURS-DAY** 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	Jim Moore	WB7ENX	
	Rick Tejera	K7TEJ	
	Joe Arnold	AD0X	
	Andrew Cornwal	1 KF7CCC	
Past President	Walt Reinert	N7GDP	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.

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 Mesa Utilities 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	Jeff Harris	KD2DFE
Treasurer	Douglas Mitchell	W7ADD
Board Members:	Brian Betz	W7JET
	Dale Schmidt	N7QJK
	Dan De Vlieger	KC7MSU
	J.D. Smaylis	KF7VOX
	Andy Keels	KD4ABB
	Charlie Brown	NJ7V
	Steve Gurley	KY7W

Superstition ARC, P.O. Box 21522, Mesa, AZ 85277-1522. Web Site: <u>SuperstitionARC.org</u>. The Superstition Amateur Radio Club is a 501(c)(3) non-profit organization. For club information, please send email to: <u>Communications@SuperstitionARC.org</u>.

ARIZONA NEAR SPACE RESEARCH

The Arizona Near Space Research group meets the **THIRD MON-DAY** 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 Skype. Please contact an officer about joining our meetings.

President	Jack Crabtree	W7JLC jscra@cableone.net
Vice Presiden	t Stephen Thomas KE	7TLS iamgadget1@yahoo.com
Secretary	Currently Open	

Treasurer Currently Open

ANSR, PO Box 31003, Mesa, AZ 85275-1003. DUES: \$10.00/YR. Web Site: www.ansr.org

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 second Monday of the month at Boswell Medical Center, Ironwood Room 2, Cun City. 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 Haveron, KA7	7UND jha	veronsr@cox.net
Vice President	Thomas Fike,	KG7FXT	fike@me.com
Secretary	Verdamae Cutitta	KF7UJB	623.872.3844
Treasurer	John Siepmann	N9NA	623.544.5295
Membership	Tom Connor	W7TLC	w7tlc@arrl.net
Club Directors:	Bob Paul	KG7FIL	623.252.0149
	Bob Fike	W7AIE	602.999.6458
	Joe Cutitta	W0SLL	623.215.2226
	Roger Thacker	KD0MD	623.974.1516

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.

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 1343 Broadway in Tempe (SE corner of Broadway & Priest). Monthly presentations cover a broad spectrum of interesting subjects. Vistors 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	Paul Boyce	KJ7KY	
Vice President	Dave Hall	N7ZPY	
Secretary	Norm Johnson	AA7OO	480.278.2886
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.

ADAW Member Clubs

MARICOPA AMATEUR RADIO ASSOCIATION

The Maricopa Amateur Radio Association (MARA) meets the **LAST** 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	Ford Willman	N5FW	520.568.6357
Vice President	Joshua Babb	W3JB	801.358.1078
Secretary	Bob Beltz	KU4ZG	770.680.1204
Treasurer	Steven Ruggles	KG7GYM	520.568.2023
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) nonprofit organization. DUES: \$25.00/year individual, \$30.00/year family. Apply on-line at www.copahams.org. Mailing address: PO Box 3025, Arizona City AZ 85123

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, 1343 W. Broadway, Tempe, AZ, on the southeast corner of Priest and Broadway. 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, N7TUQ	n7tuq@w7ara.net
Treasurer	Erv Heimbuck, K0OTZ	k0otz@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net
Board Members:		
Lance Ha	ille, KW7LH	kw7lh@w7ara.net

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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.

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

AMATEUR RADIO DEVELOPMENT GROUP

The Amateur Radio Development Group meets EVERY WEDNES-DAY at 11:10 a.m. on the Phoenix Country Day School campus located at 3901 E Stanford Dr., Paradise Valley.

President	Benjamin Lee	K7JS	602.614.0850
Vice President	Will Weiss	KG7FFV	480.789.932
Secretary	Nathan DeRueda	KG7GLB	480.582.8575
Treasurer	Sahil Rawal	KG7GJC	623.606.0258
Chief, Emergency	Communications		
	Sarah Dailey	KG7GJI	480.286.3026
Chief, Research as	nd Development		
	Sage Druch	KG7EQB	602.256.7997

Currently no dues. Mailing address: c/o Sahil Rawal, 3901 E Stanford Dr, Paradise Valley, AZ 85253.

ADAW Staff

ADAW WEBSITE	www.adaw.o	org
ADAW EMAIL	adawaz@arca-	az.org_or_adaw@adaw.org
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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

Has everyone been enjoying Arizona's version of winter? We've had colder than normal temperatures here in the valley, for longer than normal. Lows in the upper 30s and lower 40s are frigid for us desert dwellers who are more used to highs in the low 100s! Enjoy it while we can, it only lasts a short time.

Did you make it to the Thunderbird Hamfest on January 9? It was great! Attendance was good, and the number of vendors was impressive. Seminars were held for the first time this year and the VE session produced several new hams. The weather cooperated with the rain from the first part of the week being over. However, it was cold (see above paragraph) which made the mobile refreshment cart with its HOT beverages (coffee, tea, hot chocolate) the best part of the hamfest! Everyone seemed to have a good time and lots of goodies left the grounds with new owners.

This month we welcome the Arizona Near Space Research group to the pages of ADAW. ANSR are the ones that do the balloon launches at the hamfests throughout the state. But they are so much more than just a group of balloon enthusiasts. The research, coordination, planning, and expertise that goes into each and every launch is extensive and impressive. Read their first article on page 14 for more information on the group and pictures of their recent launch in October 2015. Then be sure to watch the launch planned in Yuma at the 2016 Southwestern Division Convention/Yuma Hamfest in February. And next time you're at a hamfest where a balloon launch is taking place, look up the ANSR group and let them know you appreciate all their efforts.

Speaking of the 2016 ARRL Southwestern Division Convention, it is the next event in Arizona and it's being held in conjunction with the 2016 Yuma Hamfest is Yuma. The Yuma Hamfest just keeps getting bigger and better. There's camping, tailgating, commercial vendors, seminars, talks, prizes, a hospitality suite, barbecue dinner, and so much more. Be sure to check it out. The dates are February 19 & 20 at the Yuma County Fairgrounds.

Watch for two events being held in March - The annual SpringFest in Scottsdale and the Spring Hamfest in Tucson. SpringFest will be held at the same location as last year (Scottsdale Bible Church - Mountain Valley Campus) on March 19. The Tucson Spring Hamfest will be held on March 26 at a new location this year - the Target store on Old Spanish Trail in the north parking lot. Both events begin at 6:00 A.M.. See the Hamfest Calendar on page 16 and the flyer for more details on these events.

We bid adieu to the 4X4 Ham Inc. group. We are sorry to see them go, their articles were so interesting and fun to read. We wish them good luck and happy off roading!

Enjoy your ADAW and have a Happy Valentine's Day!

Public Service Calendar

EVENT	LOCATION	DATE
Runner's Den Pancake Ru	n	02/07/16
E Phoen	ix, Paradise Valley Mall	
XTERRA - McDowell Mo	untain	02/07/16
Fort Mc	Dowell Regional Park (Foun	tain Hills)
Black Canyon 100K	Dewey to New River	02/13/16
Lost Dutchman Marathon	Apache Junction	02/14/16
JROTC First Water	N of Apache Junction	02/27/16
Exterra Black Canyon City	Black Canyon City	03/06/16
Mesquite Canyon Trail Ru	ın	03/12/16
White T	anks Regional Park (Wadde	11)
Run for Ryans House	Scottsdale	03/13/16
ADA Tour de Cure	Reach 11 Sports Comples	03/19/16
Cave Creek Trail Run	Cave Creek	03/26/16
Crown King Scramble	Bradshaw Mountins	04/02/16
El Tour de Mesa	Mesa/Scottsdale	04/02/16
March of Dimes March fo	r Babies	04/09/16
Wesley-	Bolin Plaza, Downtown Pho	enix
Pat's Run	Sun Devel Stadium, Tempo	e04/23/16
Zane Grey 50 Highline Tra	il Run	04/23/16
	Payson Area	

To sign up for 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.





CORRECTING SOME MISUNDERSTANDINGS ABOUT W7ASC

This Newsletter has tried to encourage our local Ham community to become more visible before the non-Ham community. Upon reflection, we might not be doing such a great PR job with our fellow Hams! Pour yourself another Hot Chocolate, sit back and read. This might take a while.

Back when the station first came on the air, before it became W7ASC, there was no Science Center building. We had a station (KC7LUL, see photo) at the Adams and 3rd street Arizona Science Center temporary location. Once the new building opened, about 17 years ago, the station moved into the "Ham Shack" on the second floor. The Gallery was all about networks, including a large vertical ant farm (that's correct! Ant farm, as in ants, not antennas!) right next to the station.

The Arizona Science Center was not universally supportive of Ham radio. Some in Management wondered why, and how, a bunch of hobbyists were given space, power and even parking. It required constant reminding that the station was a draw for visitors. C.A.R.L. was actually teaching. Part of the problem, one that continues to this day, is that staff and management assignments at the Arizona Science Center are in a constant state of flux. When a person finally grasps the benefit provided to the Science Center and to the visitors by having a real live set of volunteers operating a real live Ham station and answering questions about technology and public service, that staff member, inevitably, is reassigned or promoted and a new person must be briefed.

During this process, the facilities change. Since C.A.R.L. is a group of unpaid volunteers, there is never 100% agreement on how the station should be configured and run. If you belong to any Ham radio club, you will recognize this as normal. Combine this with non-Ham staff at the Science Center, and you can understand that there will be differences of opinion.

Into this mix came a large change. The Arizona Science Center went through a major interior design change. The Ham station was to be given a new location. The planning was performed by consultants who had no idea about Ham radio, or what the station was providing to the Science Center and the visitors. Space allocation was based on a master plan. Once this major change was announced, some of the volunteers objected to the treatment that they were receiving. They stopped volunteering. Some of the volunteers saw this as an

CARL Continued from Previous Column

opportunity to make major design changes to the station. The actual radio gear would be hidden in a closet. Control would be entirely from a computer station. Some volunteers decided that this was not Ham radio, so they quit.

Here comes the interesting part. That design never happened. It went part way. The C.A.R.L Board of Directors realized that the station should be a fairly typical Ham station, with some help from computers. The station does not look like a computer work station. Real radios, with real knobs, greet the visitors. Some of the signal outputs, such as PSK-31, show on a computer screen.

Some in the local Ham community still stay away from what they perceived as a bad station design. W7ASC can do a better job within the local Ham community. The station needs volunteers who want to operate a modern, but traditional, ham station and to explain what Ham Radio is all about to the W7ASC visitors.

If you are one of those Hams who would like to get involved, drop by and see for yourself. Sign up procedures have been streamlined. The Arizona Science Center welcomes Hams. Field Day, for instance, is a Center-wide affair. Morse code stations on every floor. An operating station in the lobby. On Field Day, that is the Main Event at the Science Center. Other events include Scouts JOTA (October), school roundup, and more.

Visit the station so that you can see for yourself that this is a Ham station, not a computer demonstration. Call Bob KG7QJ at 480-961-1109, or just drop in. Call ahead, even on the radio, where a volunteer on duty will get you in.

Quite a few of the Arizona Science Center staff have seen the light and obtained their licenses. Put your old visions away and share the fun. Never lose sight of the fact the station is run as a democracy. Once you become a volunteer, your voice, and your opinion, will help to guide the future for W7ASC

By the time this newsletter has been distributed, C.A.R.L. will have had its annual meeting. If all goes as planned, By-Laws will have been approved. Filing for nonprofit status with the IRS will have been authorized. There might be a few new officers, but nothing that will catch the TV networks attention. The campaigns will be over, and no one will have spent very much on TV or print media. The station, W7ASC, will continue to improve and entertain visitors to Arizona Science Center (do NOT call it a museum) and lots of kids will annoy their parents as they try their Morse code skills at home. Success!

Come join the fun by volunteering at the station. Do you know a retired Ham who is looking for a fun way to spend time and do some community service? Suggest that they look into volunteering at W7ASC.

73 for now, de W4CIH Jean



W7ASC Harkins Ham Shack Center for Amateur Radio Learning



KC7LUL at Adams and 3rd - 1996



Ham Shack Arizona Science Center 2nd Floor - 1998



W7ASC Harkins Ham Shack 3rd Floor - 2013

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.

February Test Sessions

Feb 1st - AARC & WVARC -- 8:00 PM St. Clement Church, 15800 N Del Webb Blvd, Sun City Contact - Joseph Cutitta 623.215.2226

Feb 4th - CARBA -- 7:00 PM Lighthouse YMCA, 2900 N Columbus Blvd, Tucson Contact - Matthew Grossman 520.750.7189 Pre-Reg by email preferred

Feb 8th - Radio Society of Tucson -- 7:00 PM
Pima Emergency Communications Operations Ctr
3434 E 22nd St, Tucson
Contact - Diane Zimmerman
520,219,0452

Feb 10th - Central Phoenix VE Team -- 6:30 PM
South Mountian Community College, 7050 S 24th St, Phoenix
Contact - Bill Martin 480.205.3625
No Walk-Ins - Limited Space - Please contact prior to exam.

Feb 15th - East Valley VE Team -- 6:00 PM
City of Mesa Utilities, 640 N Mesa Dr, Mesa
Contact - Fred Bollinger 480.242.8606

Feb 16th - Boy Scout Troop 127 -- 8:00 PM St Francis Xavier School, 4715 N Central Ave, Phoenix Contact - John Kelley 602.264.6854

Feb 20th - Unsponsored -- 10:00 AM
Kingman Middle School,1969 Detroit Ave, Rm 310, Kingman
Contact - Daniel Miller 928.897.3883

Feb 23rd - Prescott Valley Ham Club -- 6:30 PM
Trinity Luthern Church, 3950 N Valorie Dr, Prescott Valley
Contact - J. M. Scherfling 928.632.2050

Feb 27th - Arizona ARC -- 7:00 PM
American Red Cross Bldg, 4747 N 22nd St, Phoenix
Contact - Gary Hamman 602.996.8148
No Walk-Ins - Pre-Registration Required by Friday Night





NPOTA. National Parks on the Air. That constituted the program at the January meeting of the Arizona Amateur Radio Club. Reinhard (DL1UF) and Ingrid (W7ISG) Geissler had just returned from their NPOTA activation at the Joshua Tree National Park, NP32. Both the Geisslers were surprised when Sam, KG7MYC, at the Grand Teton National Park, another activator, answered Ingrid's very first call. Ingrid had a good run on 20m SSB and logged 154 QSOs in less than three hours with HAMs all over the US, plus Mexico, Canada, and Alaska, when heavy wind and rain forced them to take down their "station."

Take a look at the photo of Ingrid logging her third contact.



While you're at it, look at Reinhard posing at the AARC meeting in his ARRL National Parks on the Air 2016 shirt.



The AARC certainly enjoyed seeing the Geissler's NPOTA activity and even were able to see Ingrid on the air at Joshua Tree National Park since Reinhard had video clips to show us of the action.

CARL Continued from Previous Column

The January AARC meeting was also election night. The 2016 AARC officers are:

President Gary Hamman, K7GH
Vice-President Joe Cutitta, WØSLL
Secretary Mike Zachary, KG7OSR
Treasurer Bob Hodges, K7JJT
Activities Mgr. Lori Cripps, WA7EDI

Plans are being made for the AARC hamfest at DeVry. The April 9, 2016 date has now been confirmed. Watch for details in the very near future.

73, Lori, WA7EDI

Mike Zachary, KG7OSR, the AARC's new secretary, is also a volunteer at the Harkins Ham Shack at CARL, the Center for Amateur Radio Learning in Phoenix. The center is featured in the February issue of QST. The QST article shows Mike's interaction with a young prospective HAM, showing her how to send her name in Morse code. Mike has recently been considering some antenna ideas to help those living in a studio apartment or in a neighborhood with strict antenna regulations. The following is an article written by Mike in which he hopes may be of some help.

"I'd like to take this as an opportunity to bust some myths about doing ham radio from a studio apartment. When I got my license a little over a year ago, people were telling me that I would have to get my antenna outside somehow, or at least placed at a window. My apartment building has block walls, the window has a screen on it so I can't just chuck a wire outside, and the door opens directly onto a walkway.

"When I got my first radio, a Yaesu FT-60 HT, I found that I could hit the repeaters just fine from anywhere in my apartment. I didn't have to work outside or even by a window. I suppose if you are living in a grounded metal box you might have some trouble, but for most people working VHF/UHF with an indoor antenna is not going to be an issue.

"I have a Yaesu FT-817ND with a Wonder Wand compact loop antenna. I also have a Comet SMA-24 antenna for VHF/UHF, which works fine. I have been working for months trying to get ANYTHING with this combination. The only mode I can get anything on so far is JT-65, and that was after tracking down and shielding a noisy "wall wart." Anyway, I saw a CQ with a decent signal strength, responded to it, and GOT BACK A SIGNAL REPORT! Unfortunately, the signal report was a -24, and I lost him after that, so I'm looking at tracking down more noise sources and maybe getting a better antenna and/or a more powerful radio. I don't want to go TOO much power, though, being in the same room with the antenna. But I got SOMETHING out on HF."

— Mike Zachary, KG7OSR



MMRG President K7POF's January trip to Phoenix, besides being a social event, included the Thunderbird Hamfest, an MMRG board meeting, and a trip to the downtown Phoenix building which houses the MMRG GE Master II repeater. At the Downtown Repeater (147.280), Bob found that the receiver frequency was off several KHz and sensitivity was down a lot as well. The repeater will be off the air while problems are being corrected. Since Bob lives in Chino Valley it will be a while until he gets a new receiver crystal and returns to the valley to install the repaired receiver. Note the photo of Mike, KC7QKS, and Phil, WA7UID, which was taken at the Phoenix repeater site.

At the January 9 board meeting, the 2015 MMRG officers retained their offices for another year.

73, Lori, WA7EDI



For Sale

Partly Restored Vintage Tube-type Transmitter: 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. \$585.00 for package. Contact: Ray, W7GNE @ 480-540-4629.

The West Valley Amateur Radio Club has radios and ALL kinds of supplies available for sale through the club. Request a listing from Ted by sending an email to kb5of@cox.net. We get some old equipment that won't sell that will be added to the items for free. Contact: Ted Walker, KB5OF at kb5of@cox.net.



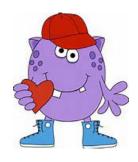
Thanks to everyone who came out to the TBARC hamfest this year! You helped make it one of the best in the Valley. Despite ominous weather the week before, it cleared up on Saturday. Our VE session minted a number of new hams, and people enjoyed the seminars, which were a new addition.

Since it's a new year, don't forget about membership! You can join TBARC for \$25/year, and you can pay online with PayPal or a credit card. If you don't know whether you've paid or not, ask our treasurer Darren AF7CO. He'll be happy to get you set up for another year. Or sign up online with the automatic renewal option.

Have you been to a TBARC meeting yet? Why not join us? We'd love to see you there, 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 February the program is Trans-Pacific Ballooning with Paul Jorgenson KE7HR. Paul's a great presenter, and has some truly extraordinary experiences to relate!

Andrew Cornwall, KF7CCC kf7ccc@arrl.net









Ham Radio and Social Media in Maricopa

When I was away from ham radio for a few years, I was sure that it had gone away. After all, talking to someone on the other end of the planet is child's play with the Internet and cellular communications. As I soon found out, ham radio was as popular as it was during the 1970s and 80s, before the digital age came about – and it's still growing.

When you look at it, amateur radio was, in fact, the original social media. CW was the first form of texting. So, it stands to reason that ham radio and the Internet would get along well. Now there's Echolink and IRLP. There's also a way to talk to hams that doesn't even involve a radio: The online forum.

Forums were extremely popular during from about 2000 until 2010, the time Facebook really got the attention of the general public. Many local communities had forums that allowed neighbors to keep track of what was happening in their general area. All it takes to start one up is some free software and a web hosting service. There are still a lot of forums around. Most appeal to particular interests and hobbies.

Maricopa Amateur Radio Association maintains both a web site and a forum. Our web site is what we use to present ourselves to the public and other amateur organization. Our forum is for news, events, technical articles, and the like. The question is, if you have a local repeater and everyone has a radio, why do you need a forum? The answer to that is they are two totally different means of communication with different advantages.

For example, it's difficult to explain how to build an amplifier over the air. However, a forum allows for posting of the instructions, schematics, and pictures. Keep in mind that everyone is not always on the air at the same time. If you have a question, you may get lucky and get it answered on the air. If you post it online, eventually someone is going to have a good answer for you – usually multiple someones.

We use our forum to keep our club members in touch with each other. We post new licenses and club members, items other members have for sale, committee meetings and events, and other items of interest. We also have news feeds from various ham radio news sites around the world. It's a one-stop place to see what's going on in ham radio locally and elsewhere.

We don't restrict membership on our forum. Anyone

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Old Pueblo Radio Club INTERMOD

President's Column

No Report Received. ed.

OPR	CC Repeaters	
146.66 - PL 110.9	widecoverage	W7GV
146.82 - PL 110.9	wide coverage	W7GV
147.22 - PL 110.9	wide coverage	W7GV
RAC	ES Repeaters	
	ES Repeaters	N7OFM
145.150	packet/wide	N7OEM
145.150 146.880 - PL 110.9	packet/wide wide coverage	N7OEM
145.150	packet/wide	



MARA Continued from Previous Column

interested in amateur radio is invited to stop in, read the articles, and, if you care to register, post your own articles or questions. Reluctantly, we found out that registration is a necessity. Otherwise, automated SPAM robots from around the world will deposit an unlimited daily supply of off-topic advertising, scams, and porn. Registration is free and easy.

Feel free to use our example to set up a forum for your own organization. There are other forums out there dedicated to ham radio. For example, 4x4ham.com is one of the most successful forums in existence with hundreds of registered users from all over the world discussing off roading and ham radio. If you're interested in software defined radio, Flex has a very active forum at www.community.flexradio.com/flexradio

You're welcome to stop by and visit our forum. Our club web site is at www.copahams.org and you can get to the forum from the menu. Oh, and you can also find us on Facebook – look for Copahams.

Steve Miller, W6SDM





With heavy heart, we mourn the passing of the father of President Steve Estes (KB7KWK). Steve and his Dad ran an automotive repair business. He spent his Christmas and New Years holidays huddling with family from out-of-state, and was noticeably absent from the radio. The President's Corner was written by Vice President Jeff, K7ZLX in the club newsletter.

Our thoughts and prayers are with you and your extended family, Steve!

SuperFest Thank-You

After long hours of planning and preparation that began back in January, the day of our 2015 SuperFest arrived. Late Friday afternoon, the SuperFest Crew arrived to start setting things up and getting ready to go. Commercial vendors started arriving and began setting up, with a few tailgaters arriving as well.

As the sun came up Saturday morning, we could see it was going to be a fantastic day and by 6:30 a.m., the place was hopping with a line of vendors arriving and setting up. At 7:00 a.m., the gates opened and it was a steady stream of people coming in all morning long purchasing grand prize raffle and hourly prize tickets, and looking for that must-have radio gear to take home.

New for 2015, and a great hit, was the food court. It had plenty of tables, chairs and a full menu of items provided by Ralph's Snack Bar. John, KD8PC, provided sixties and seventies live music. It was a great addition for this year and for years to come. We had many positive comments and happy prize winners. Overall the SuperFest Committee is pleased with the turnout and has started working on our 2016 event.



Dale Schmidt, N7QJK

Broadband HamNet

The club is starting the new year with a fledgling Broadband HamNet project using tower-mounted routers with high-gain antennas and special firmware that changes the function of the

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SPSARC Continued from Previous Column

consumer home-network router into a community-wide mesh network. Operating in the 2.4 GHz amateur band under Part 97, our neighbors' Part 15 wireless home networks see our SSID as "BroadbandHamnet-20-v3" on Channel 1.

Steve, KB7KWK has set up email service, a VoIP telephone service and streaming video, none of which is on the Internet or over a telephone network. So far, Larry AB7C, Larry WB7C and Steve have exchanged emails and connected with each other. AB7C and Steve are using directional high-gain antennas more than three miles apart. WB7TJD-001 on WB7C's tower uses a high-gain omni and is located between the other two.

Lost Dutchman Marathon and Special Event

Sunday, February 14 is the date of the Lost Dutchman Marathon through Gold Canyon and Apache Junction. It has been customary of the Superstition club to offer the services of the 147.12 and 449.60 repeaters for the Maricopa County Emergency Communications Group (www.mcecg.net) Marathon communications net. The 147.120 has solid coverage in all but one of the marathon route's aid station locations, and that one location is covered by the 449.600 according to field tests run last summer with the new repeater site.

We will use special event callsign K7D from somewhere in Apache Junction on Saturday, February 20 to celebrate Lost Dutchman Days. February 20 is also the day of the parade downtown.

73 from Larry, WB7C

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 *

*-Linked Full Time

Club Nets

The 147.120 Repeater carries all nets.

Morning Drive Time Net: Mon-Fri, 7:00-8:00 AM - Trivia **Club Business Net:** Wednesdays, 8:00 PM - Featuring Club News, Elmer Q&A along with AR Newsline.

East Valley Swap Net: Thursdays, 7:30 PM

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

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

Club Membership is open to anyone with an interest in Amateur Radio. Send email to:

membership@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.



When you turn on your radio to one of the local VHF or UHF repeaters, most often, you expect it to work with a clean, clear signal. It's not like HF, where band conditions can fluctuate your signal depending on the time of day or sun spot activity. The local repeaters usually provide a much more consistent means of communication. That consistency leads many hams to forget that outside forces can impact signal quality.

What am I talking about? It's winter weather or any weather in general. Living in Phoenix, it's easy to forget that the rain passing over the valley equals ice and snow at higher elevations. Greens Peak, Mt. Ord, Pinal Peak, Mingus Mtn., and Mt. Elden are all over 7000 ft. in elevation and can be hit hard with storms.

For several years in a row, we lost the Mt. Ord to Shaw Butte link in early January. Many of the commercial antennas on the Mt. Ord tower use a panel type that builds up a nice layer of ice. That ice comes off in sheets aimed to destroy anything in its path below as soon as the morning sun rises the next day. An ARA work crew would get up there as soon as they could and replace the link antenna. After the last break in 2013, we seem to have found a sweet spot that is protected by the brackets above it. Pictured, the broken link antenna as we found it. The new antenna was relocated below that panel antenna - a few feet lower.



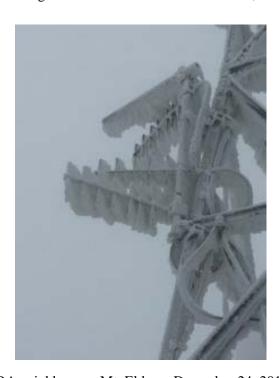
Broken Mt. Ord link antenna. February 18, 2013.

The winter of 2015/2016 got off to an exciting start. First, a friendly email warning from one of the other sites on Greens Peak. "Greens access is now via snowcat or snowmobile only. Went in yesterday with our 1500 cat, 3-4 foot drifts in places." There have also been several times recently where the weekly generator test fails to start. It's not uncommon at 10,000+ ft. for temperatures to drop below 0 degrees F.

Right before Christmas, the entire Mt. Elden site lost power. APS reported six damaged power poles and did a great job getting power restored on Christmas Eve. From that storm, we received an email from the National Weather Service with photos from the hill next to us on Mt. Elden.



ARA neighbors on Mt. Elden – December 24, 2015.



ARA neighbors on Mt. Elden – December 24, 2015.

Above photos and Inverted Antenna photo compliments of
Mike Moroney - National Weather Service

The Mt. Elden site had power again, but we soon discovered the 146.980 repeater wasn't operating properly. Suspicions

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ARA Continued from Previous Page

were that we had antenna problems and it was confirmed when the NWS guys were able to send us photos a couple days later. A group from the technical committee made the trip to the site on January 2nd and found that the top mounted antenna bracket had broken a weld and inverted the 23 ft. stick, pulling the coax connection off as well. Weather did cooperate with us that day and the crew was able to get the repeater back online.



Inverted 146.980 antenna - December 30, 2015.

Precipitation continued the following week. During the 2100 Net on January 7th, the Pinal 147.200 repeater was reported as being disconnected from Rimlink. Once the controller settings were confirmed that in fact, it was still linked, we guessed that enough ice had built up on the link antenna to Mt. Ord to attenuate the signal. Sure enough, by midday Friday, Pinal was once again "talking" to Rimlink. Greens Peak signals have also been reported as being "scratchy" various times during the storms as well.

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R.J. CARLI ENGINEERING CORP



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 Report Received. ed.



ARA Continued from Previous Column



More snow and ice on Mt. Elden – January 10, 2016.

Weather affects RF based communications. Clouds can enhance communications as with tropospheric ducting or degrade it by increasing the path loss between two antennas. Rain can do the same, causing reduced antenna performance due to the detuning effects. Ice can also severely affect antenna tuning and performance.

When your favorite repeater suddenly is noisy or you just can't reach it, don't panic. Consider the weather and the above factors. In most cases, when the clouds move on and the ice melts, communication will be restored.

If it isn't, then a call to the repeater owner might be in order. It could be that ice actually caused some damage.

Virgil K7VZ ARA President





Arizona Near Space Research (ANSR) (www.ansr.org) is new to Arizona Desert Aire Waves and would like to share some information about the things we do. ANSR launches weather balloons of different sizes and uses APRS beacons hanging off the balloons to track and recover the payloads that the balloons carry to the edge of space. Some of our flights we are providing launch services for Arizona Space Grant Consortium (ASCEND!) (https://spacegrant.arizona.edu/research/ascend) with the payloads being student experiments from many different colleges and/or high schools in Arizona. The flights in November had 10 different colleges and 106 students participating.

Before getting into more detail, we would like to congratulate our president, Jack Crabtree W7JLC, on the 25th anniversary of his first balloon launch. In the 25 years that Jack has been launching balloons, he has launched over 155 balloons averaging a flight every other month. We would also like to congratulate ASCEND! on the 10th anniversary of their first flight.

In October, we launched two balloons from south of Maricopa, AZ in conjunction with COPAFEST 2015. This was a test flight for ANSR launching and recovering two balloons. While we had planned to launch from the grounds of COPAFEST, we were unable to due to winds aloft. One of our members, Bob Thompson KC8BOB, starts looking at the weather data about 10 days before a scheduled flight and, with our flight manifests, starts providing us with daily flight predictions. Due to the many restrictions in the airspace above Arizona and the many mountains in Arizona, we have to be very careful where we launch our flights from and where we think they will land. Bob Shipton K8EQC monitors the predictions and coordinates our activities with the FAA in Phoenix, Albuquerque and Los Angeles. He also makes sure that the appropriate NOTAMS (Notices to Airmen) are filed so that the pilots using the airspace above Arizona are aware of our flights. Due to the winds, we had to move our launch site to Pinal County West Park about 15 miles south of Maricopa. We were able to successfully launch despite the pending weather and recover the payloads from both flights and many of the attendees at COPAFEST enjoyed watching live video from a camera included in the payloads. They were also able to track both flights via www.aprs.fi. Even though the payload from our second flight caught and hung about 200 feet up on a guy wire for a 600-ft FM radio antenna, when the winds died down we were able to shake the wire enough that the payloads slid down and were recovered. (See picture)



Circled orange dot is balloon parachute.



A closer look.

The weather cooperated by giving us a window to launch and recover. There were thunderstorms and rain over many of the areas before and after the flights.

In November, we were involved with three flights, one flight from Embry–Riddle Aeronautical University in Prescott and two flights from the University of Arizona's Agricultural Station northeast of Maricopa. The flights from Maricopa

ANSR Continued from Previous Page

were in conjunction with ASCEND! and had 10 different colleges participating with more than 100 students tagging along to help launch and recover their experiments. All flights were successfully launched and recovered despite both of the Maricopa flights landing in the Cactus Forest area. The students, professors and ANSR members successfully walked thru the cactuses and were able to recover all of the payloads successfully. The students from Pima Community College West Campus provided a video of their flight that can be seen on YouTube (https://youtu.be/vUzTRNri-dc) and the University of Arizona's students provided another one (https://youtu.be/OZnNX170VBk). Warning, the UA video shows many spinning scenes with flashes of light from the experiment below theirs and could be dangerous.

The winter/spring flights start off with a flight February 19 from the Yuma HamFest. The payloads for this will include an AREDN (mesh) payload that will be streaming video back to ground in addition to GPS data. Two other video payloads will also be included with one student payload. A ground station setup at the HamFest will have multiple big screen displays showing the videos and flight tracking. Jack Crabtree will be making a presentation Saturday afternoon about high altitude balloon flights. Stop by and congratulate him on his 25 years of flights. After Yuma, we will be providing support for a school launch in Flagstaff on March 9th, and April will be very busy. On April 2nd, two balloons for ASCEND will be launched from Maricopa, Emery Riddle Aeronautical Institute will have a launch April 12, and there will be a launch from Dine College in northern Arizona on April 19.

If you are interested in polishing your APRS tracking skills or want to help launch balloons and recover data, or help at the ground stations with reception of the videos, or just want more information about this utilization of ham radio, come and join us at the Yuma HamFest.

ANSR Balloon Launch October 2015 - Maricopa, AZ







GROUNDHOG DAY February 2nd



Photographs by Bill McLean, K7WWM

Hamfest Calendar

19 - 20 February 2016 - **2016 Southwestern Division Convention/Yuma Hamfest** - hosted by the Yuma Amateur Radio Hamfest Organization will be held at the Yuma County Fairgrounds, 2520 E 32nd St in Yuma. Hours are Noon - 5:00 PM Friday and 8:00 AM - 5:00 PM Saturday. Gates open Thursday, 18 February, at 2:00 PM for camping. Admission \$5.00 per person. Talk-In frequency - 146.840 (-) Pl 88.5 Hz. Check web site at www.yumahamfest.org for full details. Email contact: info@yumahamfest.org.

19 March 2016 - **2016 Spring Hamfest** - hosted by the Scottsdale Amateur Radio Club will be held at the Scottsdale Bible Church, Mountain Valley Campus, 17800 North Perimeter Drive in Scottsdale. Hours are 6:00 AM until 12:00 Noon. Admission - \$5.00. Tailgate - \$20 for 2 spaces. RV Parking - \$10.00. VE Testing - Prizes - ARCA Meeting at 11:00 AM. Talk-In frequency 147.180MHz (+ offset) Pl 162.2HZ. For more information vixit scottsdalearc.org. No guns - No drugs - No alcohol.

26 March 2016 - **Tucson Spring Hamfest** - hosted by the Radio Society of Tucson will be held in the north parking lot of the Target Store, 9615 E Old Spanish Trail in Tucson. Hours are 6:00 AM - 11:00 AM - Seller set up starts at 5:00 AM. Free Admission and Parking. Spaces are \$10 per space. Free VE Testing, GOTA (Get On the Air) station, Card checking, prizes. Coffee, Tea and Donuts will be available. Talk-In on 146.800 Pl 156.7 or 145.250 Pl 156.7. For map and more information, visit web site at www.k7rst.org.

9 April 2016 - **April Hamfest at DeVry** - hosted by the Arizona Amateur Radio Club and the Amateur Radio Council of Arizona will be held at DeVry University, 2949 W Dunlap Avenue in Phoenix. Watch for date confirmation and details.

7 May 2016 - Cochise Hamfest - hosted by the Cochise Amateur Radio Association will be held at the club site, 2756 S Moson Road in Sierra Vista. Hours are 7:00 AM until 12:00 Noon. An Open House demonstration of amateur radio communications will be held. VE Testing Available. Prizes. Breakfast and Lunch will be for sale for a reasonable price. Contact Lee Ilse, KD70ED at kd7oed@arrl.net for more information.

4 June 2016 - White Mountain Hamfest - hosted by the Kachina Amateur Radio Club will be held in the Show Low City Hall parking lot, 180 N 9th Street in Show Low. Hours are 6:00 AM to Noon. Overnight RV camping permitted after 5:30 PM Friday. Tailgaters \$5.00 per space. VE testing at 9:00 AM. Prizes. Refreshments Available. Contact K-K at 480.586.6303 (email:kb9si@yahoo.com) for more information.

10 - 11 June 2016 - **Prescott Hamfest** - hosted by the Eagle Amateur Radio Club and the Yavapai Amateur Radio Club will be held on the campus of Embry Riddle Aeronautical University, 3700 Willow Creek Road in Prescott. Contact Chuck Zappalo, KE7SA at czappala@cableone.net or Bill Noe, W7PVA at w7pva@arrl.net for more information. Watch for details.

Continued Next Column



CHAPTER 16 BARRYM. GOLDWATER ARIZONA CHAPTER

No Report Received. ed.



Calendar Continued from Previous Column

22 - 24 July 2016 - **ARCA/Williams Hamfest** - hosted by the Amateur Radio Council of Arizona will be held at the Williams Rodeo Grounds, Rodeo Road in Williams. Hamfest hours are Dawn to Dusk Friday and Saturday. Trip to the Grand Canyon aboard the Grand Canyon Railroad on Sunday, 24 July. Hospitality Suite on Friday - Barbecue Dinner at Railside RV Ranch on Saturday. Breakfast and Lunch served by the Kiwanis Club of Williams on Friday and Saturday. Prizes, VE Testing, Seminars and more. For complete up-to-date information, visit the ARCA Website at www.arca-az.org and click on the "ARCA/Williams Hamfest" link at the left of the screen.

21 - 22 October 2016 - **2016 Arizona State Convention/ CopaFest 2016** - hosted by the Maricopa Amateur Radio Association will be held at the Ultra Star Center at Harrah's Ak-Chin Casino, 16000 Maricopa Road in Maricopa. Talk-In: 449.125- (Pl 136.5) & 145.210- (Pl 162.2). Contact Bob Howard at 520.222.7311 or email to <u>w8rh@live.com</u> for more information.

5 November 2016 - Cochise Fall Swapmeet & Communications Exercise - hosted by the Cochise Amateur Radio Association will be held at the Green Acres club facility located at 2756 S Moson Rd in Sierra Vista. Date to be confirmed. Contact Lee Ilse, KD7OED at kd7oed@arrl.net for more information.

12 November 2016 - **Oro Valley ARC Hamfest** - hosted by the OroValley Amateur Radio Club will be held at Marana Middle School, 11279 W Grier Road in Marana. Talk-In: 146.620(-), 444.100(+), and 147.32(+) - all Pl 156.7. Contact Steve Wood, W1SR at 520.906.1204 or email to nauset2222@yahoo.com for more information.



SCOTTSDALE AMATEUR RADIO CLUB, INC.



Club Station: W7UF

Club Repeaters: 147.78/.18 & 445.00/440.00

January has been a great month, if you like the weather to be more seasonal. We have had some rain to enjoy. The high country north of the valley has been getting some much needed snow. I sure hope it continues so the reservoirs can fill and the forests stay green and healthy later this summer.

We have a home in Payson that is backed up to the Tonto National Forest. Bonnie and I went up there on the weekend of January 8 thru 11 and had a great time playing in the snow. There was about a foot of the white stuff and we had to shovel our way into the yard. I haven't used a show shovel for over 20 years, but it felt good. Of course, I only did it for a few minutes to show Bonnie how and she took it from there. Clever of me! Our shepherds loved it too.



This is a picture of our front gate. The city plows piled up the snow at the street so we decided to use the side entrance. The side street was not plowed, but that was not a problem for our Subaru with all-wheel

drive. The temperatures were all below freezing and I have trouble when it dips below 70 degrees around here. But there it seems different. The air is very crisp and clean and visibility is almost unlimited. There is certain nostalgia for me because we moved here from upstate New York over 40 years ago. Back there we had a lot of snow in the winter and enjoyed winter sports like skiing and snowmobile rides. We also enjoyed a nice warm fire in the fire place and a snow blower! Here in Payson we do not have a snow blower but we do have a nice fire place.

The ham bands have not been very good lately but I keep trying. I have only made an occasional contact. They were usually in the Midwest or California. I am using my 40 meter dipole because of storm damage to the tri-band yagi.

I am a radio control model airplane flyer and I am a member of Academy of Model Aeronautics. A couple of months ago, the FAA decided to require all small model aircraft flyers to register. This was done because of the abuses of some drone flyers. Oh well! Now I have a swell new 10 digit alpha numeric registration number to put on my models.

On the way back to Scottsdale we drove past Mount Ord. The mountain is covered with snow and the repeater antennas really stood out.

Here is a picture of the site from route 87 south bound. All of the antennas and towers stand out against the blue sky. This looks very cold!



We have a 2-meter/70-cm net every Tuesday evening at 7:00 P.M.. The frequencies are 147.18 MHz with a tone of 162.2 and 440.00 MHz with a tone of 100. A bunch of guys get on the air and tell us what they have been up to lately. It is a lot of fun to get on the air especially since the HF bands have been so bad. If you check into the net once in a while, we know you are still alive.

I know a lot of you hams out there are doing some very cool things. Maybe you could let us all know about them. Some of you took family trips during the holidays. Some of you are building that special radio project. All you have to do is contact me and I will post your project with pictures.

We have our annual hamfest coming up on March 19th, 2016. The location is the same as last year. The location is the Scottsdale Bible Church, Mountain Valley Campus, 17800 North Perimeter Drive, Scottsdale, AZ 85255-5449. For those helping with set up, parking and admissions will receive a free admission to the hamfest. If you would like to help, you can send me an e-mail and I will give you all of the particulars and put you on the schedule.

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

73 Ed Nickerson WU7S



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 Gerald Jacques, W7EMU at 480.239.8679. Please send address change requests to Gerald no later than the 7th of the month in which you would like the change to occur.





Emergency Communications Since 1961

SHORT SKIP



The West Valley Amateur Radio Club Ham of the Year Award was presented to Dave Porta, WA0ZVL for his volunteering and his time spent setting up the Del Webb Boswell Hospital's emergency communications. Joe Cutitta, W0SLL presented the award to Dave. Congratulations, Dave.



New Members

Dean Gain, KG7KJX Paula Schmitt, KG7UHN Randall Thomas, K7HRT



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

Emergency Communications Class

The club has been working with Boswell and Del Webb hospitals, and have a communications room to work in now at Del Webb. We have a room and a cubicle with a radio, remote control wireline remote.

We are working on procedures so that the hospitals can access the amateur radio operators in an emergency situation and also for testing once a month to see what needs to be improved upon. The hospital is looking into vetting the amateurs so they can be admitted into the facilities in an emergency.

Robert Paul KG7FIL



WVARC West Valley Amateur Radio Club Annual Auction

When: February 1, 2016 7:00 PM till?

Doors open at 6:00 PM for set up and registration

Where: St. Clements of Rome

15800 N Del Webb Blvd, Sun City AZ 85351

(0.6-mile south of Bell Rd on the right side of Del Webb Blvd)

Open to all hams, no admission, free parking. There will be some sandwiches, beverage and cookies available. There is also a Coke machine by the front door. Rules information available at registration desk. Cash, checks or credit card accepted.

For information, contact Ted, KB5OF at 623.910.9275.





Silent Key

WILLIAM WEAVER AA7RM

I met Bill over 23 years ago. He was a very nice man and a friend. I now wish I had made the time to get with him before he passed. He was 2 weeks away from his 94th Birthday.

Dave Morrill

West Valley Amateur Radio Club Christmas Party at Briarwood Country Club

Everyone had a great time at the annual Christmas Party held at Briarwood Country Club. The prime rib was very good, the salmon was very good, the service was very good, and the band was very good. What more can I say? Everything was very good!



No news this month.



The Amateur Radio Development Group at Phoenix Country Day School is looking for donations for their club ham shack. If you can help, please contact one of the club officers listed on page 3.

Thanks for your help.







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, <u>rahaworth@cox.net</u>



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(Near Disneyland) 933 N. Euclid St., 92801 (714) 533-7373 (800) 854-6046 Janet, KL7MF, Mgr. anaheim@hamradio.com

BURBANK, CA

1525 W. Magnolia Bl., 91506 (818) 842-1786 892-1748 Eric, K6EJC, Mar. Magnolia between S. Victory & Buena Vista burbank@hamradio.com

OAKLAND, CA

2210 Livingston St., 94606 (510) 534-5757 (877) 892-1745 Nick, AK6DX, Mgr. I-880 at 23rd Ave. ramp oakland@hamradio.com

SAN DIEGO, CA

5375 Kearny Villa Rd., 92123 (858) 560-4900 (877) 520-9623 Jerry, N5MCJ, Mgr. Hwy. 163 & Claremont Mesa sandiego@hamradio.com

SUNNYVALE, CA

510 Lawrence Exp. #102 (408) 736-9496 (877) 892-1749 Jon, K6WV, Mgr. So. from Hwy. 101 sunnyvale@hamradio.com

NEW CASTLE, DE

(Near Philadelphia) 1509 N. Dupont Hwy., 19720 (302) 322-7092 800) 644-4476

Ken, N20HD, Mgr. RT.13 1/4 mi., So. I-295 delaware@hamradio.com

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11705 S.W. Pacific Hwy. 97223 (503) 598-0555 (800) 765-4267 Leon, W7AD, Mgr. Tigard-99W exit from Hwy. 5 & 217 portland@hamradio.com

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8400 E. Iliff Ave. #9, 80231 (303) 745-7373 (800) 444-9476 John WØIG, Mgr. denver@hamradio.com

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10613 N. 43rd Ave., 85029 (602) 242-3515 (800) 559-7388 Gary, N7GJ, Mgr. Corner of 43rd Ave. & Peoria phoenix@hamradio.com

ATLANTA, GA

6071 Buford Hwy., 30340 (770) 263-0700 800) 444-7927 Mark, KJ4VO, Mgr. Doraville, 1 mi. no. of I-285 atlanta@hamradio.com

WOODBRIDGE, VA

(Near Washington D.C.) 14803 Build America Dr. 22191 (703) 643-1063

(800) 444-4799 Steve, W4SHG, Mgr. Exit 161, I-95, So. to US 1 virginia@hamradio.com

SALEM, NH

(Near Boston) 224 N. Broadway, 03079 (603) 898-3750 (800) 444-0047 Dave, N1EDU, Mgr. Exit 1, I-93; Exit 1, 1-93; 28 mi. No. of Boston salem@hamradio.com

BUYING



YAESU



FTDX1200 100W HF + 6M Transceiver

. Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters . Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FTDX5000MP 200W HF + 6M Transceiver

 Station Monitor SM-5000 (Included) • 0.05ppm OCXO (Included) • 300Hz, 600Hz & 3KHz Roofing filters (Included)



FTDX3000 100W HF + 6M Transceiver

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

Call For Low Pricing!



FT-450D 100W HF + 6M Transceiver

. 100W HF/6M . Auto tuner built-in . DSP built-in

. 500 memories . DNR, IF Notch, IF Shift

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FT-897D VHF/UHF/HF Transceiver

 HF/6M/2M/70CM • DSP Built-in • HF 100W (20W) battery) • Optional P.S. + Tuner • TCXO Built-in

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FT-857D Ultra Compact HF/VHF/UHF

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

Call For Low Price



FT-7900R 2M/440 Mobile

•50W 2M, 45W on 440MHz • Weather Alert • 1000+ Memories • WIRES capability • Wideband receiver (cell blocked)

Call Now For Your Low Price!



FT-8800R 2M/440 Mobile

• V+U/V+V/U+U operation • V+U full duplex • Cross Band repeater function • 50W 2M 35W UHF • 1000+ memory channels . WIRES ready

Call Now For Low Pricing!



FTM-400DR 2M/440 Mobile

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



C4FM FDMA 144/430 FT1DR 5W Digital Xcvr

• 1200/9600bps AX.25 APRS & GPS Recvr Built-in • Dual Band Operation w/Dual Recvrs (V+V/U+V/V+U) . Wideband Receive/AM Bar Antenna/ Aircraft Receive • 1266 Memory Channels w/16 Char Alpha Tagging

Also Available in Silver!

VX-6R 2M/220/440 HT

· Wideband RX - 900 memories

 5W 2/440, 1.5W 220 MHz TX • Li-ION Battery - EAI system • Fully submersible to 3 ft. . CW trainer built-in

New Low Price!



VX-8DR

50/144/220/440 • 5W (1W 222 MHz) · Bluetooth optional · Waterproof/ submersible (3' for 30 min) . GPS APRS operation optional . Li-ion Hi-capacity battery . Wide band Rx

FT-60R 2M/440 5W HT

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



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2016 SW Division Convention

Yuma, Arizona Feb. 19 & 20, 2016

Yuma County Fairgrounds 2520 East 32nd Street, Yuma, Arizona

www.yumahamfest.org

Check the Website for Additional Information

Gates Open for Camping Thursday, 2 pm Vendor Setup Friday, 7 am - Noon

Event Hours Friday, Noon - 5 pm Saturday, 8 am - 5 pm Hamfest Dinner & Grand Prize Drawing Saturday Night 6:00 - 8:00 pm

Vendors & Exhibitors
Consignment Sales
License Testing
Hourly Door Prizes
On-site RV Camping
Hamfest Dinner
ARRL Speaker
Transmitter Hunt
\$5.00 Admission

Tailgating (Swap Meet)
Full Seminar Schedule
DXCC Card Checking
Incredible Grand Prizes
Emergency Preparedness
Admission Prize
Hospitality Area
Near Space Balloon Launch
Antenna Clinic

Hamfest Talk-In Frequency: 146.840 (-) PL 88.5 Hz

Email Contact: info@yumahamfest.org



We are proud to have the Amateur Radio Council of Arizona (ARCA) as a sponsor of our event.

The Yuma Hamfest is an American Radio Relay League (ARRL) sanctioned event.



SCOTTSDALE SPRINGFEST

SPONSORED BY ARCA AND THE SCOTTSDALE AMATEUR RADIO CLUB

SATURDAY MARCH 19, 2016

6:00 AM TO 12:00 NOON

RV PARKING \$10 GENERAL ENTRY \$5 REFRESHMENTS RAFFLE PRIZES TAILGATE/SALES 2 SPACES \$20 VENDOR/TAILGATE SET-UP TIME 5:30 AM VE TESTING (ADDITIONAL TESTING FEE) ARCA MEETING AT 11:00 AM





SCOTTSDALE BIBLE CHURCH - MOUNTAIN VALLEY CAMPUS VENDORS:17800 NORTH PERIMETER DRIVE

GENERAL ADMISSION: USE N. 83RD STR ENTRANCE SCOTTSDALE, AZ 85255-5449

FOR MORE INFORMATION: SCOTTSDALEARC.ORG
NO GUNS - NO DRUGS - NO ALCOHOL

CALL IN FREQUENCY 147.180 MHZ + OFFSET AND A 162.2 HZ PL





TUCSON SPRING HAMFEST Saturday, March 26, 2016 6 A.M. - 11 A.M.

FREE ADMISSION & PARKING!

Map and information: www.k7rst.org

- Seller set-up starts at 5:00 A.M.
- Vendors/Tailgaters pay \$10 per space
- * PRIZES: (1st) 50W Dual-band Mobile Transceiver
- ★ (2nd) Dual-band Hand-held Transceiver
- * Raffle Tickets: \$2 each... 3 for \$5... 7 for \$10!
- ★ Free VE Testing (get licensed all levels)
- ★ GOTA Station (demo fun Get on the Air!)
- * Hot Coffee, Tea & Donuts Available
- ★ Card checking by Ron Cade/W6QZ

NEW LOCATION LOCATION!!!!

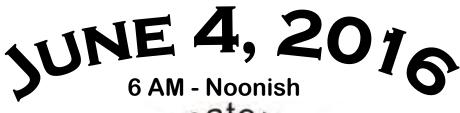


Target

9615 E. Old Spanish Trail Tucson, AZ 85748 *****North parking lot ****

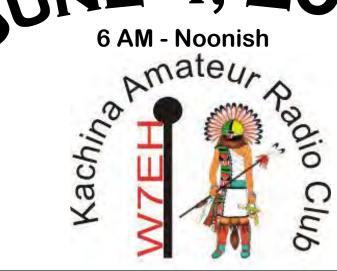
Talk-in:

Repeaters 146.800 PL 156.7 or 145.250 PL 156.7



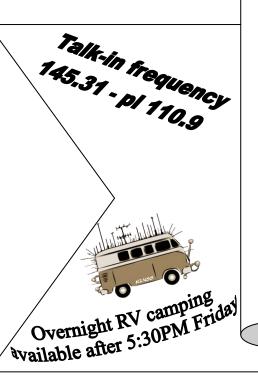


Contact: K-K kb9si@yahoo.com 480-586-6303





Refreshments Available



VE testing 9AM

WHITE MOUNTAIN HAMFEST SHOW LOW, AZ CITY HALL PARKING LOT 180 N. 9TH ST

Prize DrawingS

hourly and GRAND



sanctioned event



2016 ARCA / WILLIAMS HAMFEST JULY 22, 23 & 24, 2016



Presented by the Amateur Radio Council of Arizona and the City of Williams

WILLIAMS RODEO GROUNDS, RODEO ROAD, WILLIAMS, AZ GATES OPEN AT NOON THURSDAY, JULY 23 FOR SET-UP. HAMFEST OPENS AT DAWN FRIDAY, JULY 24.

FREE ADMISSION!

JULY 24, 2016 - GRAND CANYON TRAIN TRIP

MEETINGS, SEMINARS, ACTIVITIES, COMMERCIAL VENDORS, HUGE SWAP, VE TESTS

PRIZES

DVANCED NOTICE

DOOR PRIZES EVERY HOUR RAFFLETICKETS

SATURDAY NIGHT BBQ DINNER AT RAILSIDE RV RANCH

SUNDAY GRAND CANYON TRAIN TRIP

RESERVATION INFORMATION available soon

Visit the ARCA Web Site www.arca-az.org

On-Line Reservation Available on Web Site Soon Or Call - 602.881.ARCA (2722)

Talk-In - 146.78 - (91.5 Pl)

WELCOME TO COPAFEST 2016

Maricopa Amateur Radio Association, Inc.



Maricopa, Arizona - October 21-22, 2016

Arizona State Convention in the Desert October 21 & 22, 2016

16000 Maricopa Road, Maricopa AZ
Click HERE for map

Hamfest setup Saturday 5:00 am, Event opens at 7:00 am Indoor Spaces - Prices to be announced.

Outdoor Spaces - Prices to be announced.

Vendors Pre-Register

HERE

Fest@Copahams.Org

Friday evening event to be announced.

Special Event Station – W7M,

ANSR Balloon Launch, Interesting Seminars, VE Testing, Hourly Prizes, Food, Drinks & Entertainment Available On Site At UltraStar Center.

ORO VALLEY ARC



An ARRL Sanctioned Event Presented by the Oro Valley Amateur Radio Club

November 12, 2016

Marana Middle School 11285 West Grier Road Marana Arizona 85653

Mark your calendars.

Send questions to hamfest@tucsonhamradio.org