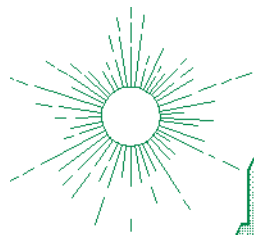


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



ADAW

Arizona Desert Aire Waves

Vol 41, No 3

March 2016

CLUB MEETINGS SCHEDULE

CARL
TBA
AZ Science Center
TBA

ARDG
Every Wednesday
Phoenix Country Day School
11:10 AM

QCWA
Mar 26th
Casa Del Rio Mexican Restaurant
Tucson
11:00 AM

WVARC
Mar 7th
St Clement Catholic Church
Social Hall
7:00 PM

SuperstitionARC
Mar 15th
Mesa Utilities Building
7:00 PM

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

MARCA
Mar 15th
Denny's Restaurant - Tempe
6:30 PM

MARA
Feb 26th
Barrow's Pizza - Maricopa
9:00 AM

ANSR
Mar 21st
7:30 PM
via Skype

YARC
Mar 3rd
Mile High Middle School
7:00 PM

CLUB MEETINGS SCHEDULE

SARC
Mar 2nd
Scottsdale Senior Center
7:00 PM

AARC
Mar 10th
Red Cross Bldg. - Phx
7:30 PM

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

TBARC
Mar 17th
North Phoenix Campus
Northern Arizona University
7:00 PM

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	W0SL	623.215.2226
Secretary	Mike Zachary	KG7OSR	
Treasurer	Bob Hodges	K7JIT	602.375.9982
Activities Mgr	Lori Cripps	WA7EDI	
Membership	Bob Hodges	K7JIT	602.375.9982

AARC c/o Bob Hodges, K7JIT, 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	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

AMATEUR RADIO DEVELOPMENT GROUP

The Amateur Radio Development Group meets **EVERY WEDNESDAY** 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 and Development	Sage Druch	KG7EQB	602.256.7997

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

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	Jim Moore	WB7ENX	
	Rick Tejera	K7TEJ	
	Joe Arnold	AD0X	
	Andrew Cornwall	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.

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 Directors:	Bill Price	N7GUO	
	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.

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 Skype. Please contact an officer about joining our meetings.

President	Stephen Thomas	KE7TLS	iamgadget1@yahoo.com
Vice President	Vince Jenkins	KC7IUU	vince.jenkins@meggitt.com
Secretary	Kim Jenkins		vince.jenkins@meggitt.com
Treasurer	Bill McLean	K7WWM	bmclean1@gmail.com

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



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	Ray Tyrrell, N6MY	928.227.0349
Secretary	Clifford Hauser, KD6XH	520.744.9095
Treasurer	Dave Hanson, W7BJ	602.615.3444
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.

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 DeVlieger	KC7MSU
	J.D. Smaylis	KF7VOX
	Andy Keels	KD4ABB
	Charlie Brown	NJ7V
	Steve Gurley	KY7W

SuperstitionARC, P.O. Box 21522, Mesa, AZ 85277-1522. Web Site: SuperstitionARC.org. The Superstition Amateur Radio Club is a 501(c)(3) non-profit organization. For club information, please send email to: Communications@SuperstitionARC.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, Sun 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, KA7UND	jhaveronsr@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 W0SLI	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>.

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) non-profit organization. DUES: \$25.00/year individual, \$30.00/year family. Apply on-line at www.copahams.org. Mailing address: P O Box 3025, Arizona City AZ 85123



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 1343 Broadway in Tempe (SE corner of Broadway & Priest). 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	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.

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 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	Frank Bender, K8FB	president@w7yrc.org
Vice-President	John Stevens, N9JYO	vice_president@w7yrc.org
Secretary	Kathy Laing, KJ6KMK	secretary@w7yrc.org
Treasurer	David Hanson, W7BJ	treasurer@w7yrc.org
Past President	Don Bauer, WB7TPH	wb7tph@w7yrc.org
Board Members	Bill Noe, W7PVA	w7pva@w7yrc.org
	Chuck Zappala, KE7SA	ke7sa@w7yrc.org
	Randy Dashiell, W6TYV	w6tyv@w7yrc.org

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

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	480.966.7084
Secretary	Josh Montano	WX7JM	wx7jm@yahoo.com
Treasurer	Karen McConaghy	NO7D	602.799.7338
Board Members:			
	Jean W4CIH	ADAW, Publicity	
	Steve WB4ZSC	Tech/IT, CARL/ASC interface	
	Fred K9TOS	Logbook/QSLs	
	Mike KG7OSR	Scheduling/Membership	

Web Master, ARCA Rep - Roger Buel, W9NCQ - 602.493.7242
For information: Email to carl@w7asc.org or call Bob Burleson, KG7QJ at 480.961.1109. Web Site: <http://www.w7asc.org>

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

The *Arizona Desert Aire Waves* is published monthly and is the official news media of the sponsoring clubs. All news items, articles and 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

We have a new club in the ADAW family. This month we welcome the Yavapai Amateur Radio Club into the fold. This active Prescott-based group represents amateurs from Prescott, Prescott Valley, Chino Valley/Pauldin, and Dewey/Humbolt. They emphasize public service and emergency communications. Join me in welcoming the Yavapai Amateur Radio Club and all their members to ADAW.

This year marks the 100th Anniversary of the National Park Service and Amateur Radio is helping them celebrate. Hams from all over the country are traveling to and operating from our national parks. Our own members are joining in the effort to “activate” the national parks. Read about Ingrid W7ISG and Reinhard K7RGG’s adventures page 16.

There are two hamfests this month. The first is the ever popular and always enjoyable SpringFest Hamfest hosted by the Scottsdale Amateur Radio Club. It will be held at the same great location as last year - the Scottsdale Bible Church on Perimeter Drive in Scottsdale.

The second is the Tucson Hamfest which will be held at their new location at the Target Store on Old Spanish Trail in Tucson. This hamfest is growing every year and definitely a “must check out” event.

Both hamfests are well worth attending. So what are you waiting for? Make plans to attend one, or both!

The annual Palo Verde Nuclear Plant test will be held on March 10 this year. It’s on a Thursday instead of a Wednesday this year. If you are interested in helping out, contact Larry Buchanan, AA0LB at Larry.Buchanan@redcross.org or phone 623.703.9161. Larry is the DST/Communications Co-Lead.

Daylight Savings Time begins on March 13. Clocks all over the world (with a few exceptions) will be set forward one hour. Arizona is one of those exceptions (except for the Navajo nation in the north eastern part of the state). Our clocks “stay put” and Mountain Standard Time reigns! Sure makes life a little simpler.

March 20 heralds the beginning of Spring. Wait - it’s already been 90 degrees here in Phoenix - on February 17, the earliest date ever in recorded history. Seems like Spring has already sprung around here. Even the plants think it’s already spring, as allergy sufferers can attest. So much for Arizona’s infamous groundhog’s prediction of six more weeks of winter!

Remember to wear green on March 17 - hey that rhymes. Enjoy lots of corned beef and cabbage, and green beer!

After that - have a Happy Easter. Find lots of eggs - eat lots of chocolate - but most important, Keep on Hamming!

73,
Chris, N7PVL

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ADAW

ADAW



Matters continue to surprise and amaze at W7ASC. Activities started with some meetings. C.A.R.L. held two meetings in order to get the year started. The Board of Directors met to solve all of the world's problems. In fact, some important items were on the agenda, including, but not limited to, approving the motion to submit an application to the IRS for Federal nonprofit status.

The Board acknowledged that there were some volunteers who did not know how to operate some of the station functions. There was a time, in the early days of radio when almost any Ham could operate any station, but those simple days are ancient history. Today we are faced with an astonishing array of technology in almost any Ham shack. W7ASC is an excellent example. If you own an HT, it is far more complex than any radio that had been in use prior to WW II. To address that issue the Board has established an Elmer committee, so that a new volunteer can find help, when needed, to walk through the steps needed to get PSK31 (for example) up and running. Part of the fun that a W7ASC volunteer experiences is the changing environment at the Shack. The objective is to have every Volunteer capable of operating, and demonstrating, any of those functions.

The General meeting ratified the Board actions and elected some new officers. If all went as planned, the list of new officers and board members appears at the beginning of the ADAW newsletter.

Technician License classes have, for many years, been held at the Science Center, three or four times per year. That tradition continues. The schedule for the next class will appear in this letter when Bob adds it. There has been some delay in establishing that schedule as the spaces at the Science Center are in short supply and the demand is high. The management at the Science Center has been able to allocate that space to the class so that the tradition can continue. There is, however, a change. Bob KG7QJ has been able to keep all of that fun to himself for many years. This year, however, the Board has been able to pry his hands away from his control, at least in part. There will now be assistant instructors for the next class. Perhaps that will set a precedent.

For those of you who are reading this item, keep in mind that ADAW is distributed to Hams, none of whom need to attend a Technician class. It is up to each of you to "get the word out" to friends and family who would benefit from the availability of a class. Each reader is delegated to do some PR. C.A.R.L. can

Continued Next Column

CARL Continued from Previous Column

hold the class, but you, dear reader, must recruit those new Hams.

Visitors bring fun and a sense of achievement to those Volunteers who staff the station. (Recognize this theme? Volunteering at W7ASC is not work – it's fun!). Three little girls entered the station and were able to send their names in Morse. Certificates were awarded and those special stickers were collected. But wait! One little girl protested that we were not finished. Her doll had not had a turn at Morse. The Volunteer on duty proceeded to teach a doll how to do its name in Morse, awarded a certificate, and affixed a sticker. The name of the doll is being withheld in order to protect its privacy. It would not wish to be bothered by curious reporters. But there is a doll in Phoenix who has experienced Morse code. An example for other dolls.

And then came the Scouts. Many scouts, working on a merit badge. That is not a rare event at W7ASC, but this time it was extra-special. The Scout convoy originated in Scottsdale. The Volunteer corps at W7ASC, having been forewarned of the plan, put on a special Ham radio demonstration. Prior contacts, on the air, had located some Scouts in Tucson who would be available to provide on-air contacts for the Scottsdale scouts. Thanks to the ever-reliable EAARS network, the scout-to-scout QSO's were conducted. Guest Visitor certificates were awarded. The result might even be some new Hams!

Now – that was FUN. Do not deprive yourself any longer. Contact Bob KG7QJ, or anyone on duty at the Shack, and ask for permission to participate. If his phone is busy, do not give up. Just keep trying. You owe it to yourself.

73 de W4CIH Jean

ADAW

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.



The next meeting date of the Arizona Amateur Radio Club, March 10, 2016, will also be the date of the Palo Verde Nuclear Power Plant exercise. Larry Buchanan, AAØLB, discussed the exercise at our last meeting. Some of our members will assist in providing communications.

Besides this exercise, the AARC is going to be very busy the rest of this spring and early summer. The hamfest at DeVry University, an event which usually has 55 vendors there selling new and used radio equipment and electronics of interest to ham radio operators, will be on April 9. Mark that date on your calendar!

The NPOTA (National Parks on the Air), a program which activates amateur radio in the national parks in the U.S., has been a major project for members Reinhard Geissler, K7RGG, and Ingrid Geissler, W7ISG. (See their article in this ADAW.) They will be with the AARC as we activate the Casa Grande National Monument in March, probably on the 22nd or 23rd.

The AARC is also planning our field day operations at the American Red Cross Building at 4747 N. 22nd Street on June 25th and 26th. This is always a good time for newly licensed hams to get a little experience in operating.

And, of course, the AARC provides testing sessions by Volunteer Examiners (VEs) the 4th Saturday of every month at 7:00 P.M. at this same location, the Red Cross Building. We welcome you to attend our meetings or our monthly breakfast at Denny's on Camelback and 7th Street at 7:30 A.M. the 4th Saturday of every month.

For information concerning the AARC and its activities visit our web site at www.w7io.org or email Gary Hamman at K7GH@arrl.net or Lori Cripps at cripps@cybertrails.com.

73,
Lori, WA7EDI

ADAW

Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Xterra Black Canyon City	Black Canyon City	03/06/16
Mesquite Canyon Trail Run	White Tanks Regional Park (Waddell)	03/12/16
Run for Ryans House	Scottsdale	03/13/16
ADA Tour de Cure	Reach 11 Sports Complex	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 for Babies	Wesley-Bolin Plaza, Downtown Phoenix	04/09/16
Pat's Run	Sun Devel Stadium, Tempe	04/23/16
Zane Grey 50 Highline Trail Run	Payson Area	04/23/16
Fiesta Bowl Half Marathon	Scottsdale Civic Center	12/11/16
Prickly Pedal	White Tanks - Lake Pleasant - Spur Cross	01/21-22/17
Runner's Den Pancake Run	EPhoenix Paradise Valley Mall	02/05/17

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.

Yavapai Amateur Radio Club Events

EVENT	LOCATION	DATE
Wiskey Basin	Prescott Trail	04/16/16
Wiskey Off-Road Mtn Bike Event	Prescott	04/29-05/01/16
Chino Grinder	Chino Valley	05/07/16
Wiskey Row Marathon	Prescott	05/14/16
Mountain Mayhem	Prescott	05/21/16

To Sign Up for a Yavapai ARC Public Service Event, visit YARC website at www.w7rc.org, click on ARES/RACES, click on Calendar, and fill out application for the event you want. Contact Patti, KD7VBG at meetings for more information.

ADAW



TBARC Continued from Previous Column

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 March the program is Operating W1AW Centennial from Samoa (KH8) with Paul Playford W8AEF. What was it like on the other side of THAT pileup? Come and see!

Andrew Cornwall
 KF7CCC
kf7ccc@arrl.net

It's a new year – maybe it's time to learn new skills? TBARC has a couple of courses coming up. If you'd like to upgrade to a General class license, we're holding a General class license course on Saturday mornings, 9:00 a.m. to Noon. It runs from March 5th through May 7th at HonorHealth, formerly John C. Lincoln, Hospital, Deer Valley Campus, 19829 N 27th Ave (SW corner of North Loop 101 and I-17 stack). Send email to course@w7tbc.org with the subject line "General" to sign up. Include your callsign (if any), name and phone number.

Perhaps you've been thinking about learning Morse Code? Chuck Adams K7QO has graciously agreed to teach another class. This one is on Tuesday evenings—February 16th through May 3rd, 2016. Course time is 6:45 p.m. to 7:45 p.m., with no class on March 15th or March 22nd. It's also at HonorHealth, formerly John C. Lincoln Hospital, Deer Valley Campus, 19829 N 27th Ave. Send email to course@w7tbc.org with the subject line "Morse Code" to sign up. Include your callsign (if any), name and phone number.

These courses are free to members! Thanks to our education coordinator, Andy K3WYC for organizing these.

In other big news, the Thunderbird Amateur Radio Club is setting up a regular ham license exam session. Our VE liaison, Jim K7EOG has secured a semipermanent home, and we'll be having a session on the third Wednesday of every month at 6:00 p.m.. It will be at the Honor Health Medical Office Building, 19841 N 27th Ave in Phoenix. Because of limited seating, sign ups are necessary—send email to ve@w7tbc.org for details.

Were you a paid-up member by February 16? If so, I hope you won one of the three "early renewal" prizes given away at the February meeting! We gave HRO gift certificates to three lucky members whose membership had been paid for 2016. If you haven't joined yet, we'd still love to have you! 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 and you'll never have to think about it.

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

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.



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Continued Next Column



MARA Modifies GE Master II Repeaters for use with System Fusion

Last year, the Maricopa Amateur Radio Association purchased three Yaesu DR-1X System Fusion repeaters. We decided having a reliable repeater network was crucial for our area because of our remote location. We also wanted to establish a CERT/EmComm presence in the area.

In the past, we had been relying on two recycled GE Master II repeaters that had been in and out of service over the years. We knew that because of the age of the equipment, the day would come when they would have to be replaced. The opportunity from Yaesu to purchase the equipment at a bargain price made the decision even easier. One repeater would be placed on two meters, the other on 440 MHz. The third would be a spare that we would put on a different frequency in the 440 MHz band and use primarily for special events, CERT, and Emergency communications configured to allow the use of Fusion Digital (C4FM) without interfering with analog users.

Because of the terrain in our area, we found that the repeaters on low power didn't give us the coverage we needed. We didn't want to run on high power because the high duty cycle of a repeater would shorten the life of the equipment if it were kept permanently on high power.

The idea came about to use the System Fusion DR-1X repeaters as exciters and use the old GE Master II Workhorses as amplifiers, and reduce the load on the DR-1X to give it longer life. While it seems simple, it was going to require some modification because the GE Master II repeaters would only accept a maximum of about 200 milliwatts into the PA. The least power that the DR-1 would produce was 5 watts.

Using a commercially made 15dB attenuator, the power out was attenuated to 90mW so as to not over drive the Master II PA input. The Master II PA was adjusted to 75W out - or 68% of its highest rated power. An Arcom controller was also tested with the repeater and is currently being configured for linking a second Fusion repeater as well as adding EchoLink and IRLP, but is not currently in use yet, as we are waiting on additional parts to be received.

Chris Canevit, W7CGC, and Curt NA7CS, installed the repeater and PA at its present location at Central Arizona

Continued Next Column

MARA Continued from Previous Column

College in Maricopa. We have a great relationship with the college, who allows us the use of their 100-foot tower and equipment room. Jim, KC1BB and Joe, K7EES, were assisting and learning as the configuration was put together and tested at Curt's home QTH. It was also a learning experience as Chris demonstrated how to read the antenna analyzer and Curt demonstrated what a proper signal looks like on a Motorola Service Monitor as well as the need for bench testing new configurations before they are placed into service. Joe custom fabricated some rack mount ears so that the equipment could be mounted in the equipment rack at the college.

Going forward, we are in the position of negotiating access to a commercial radio station transmitter site, placing our antenna on their broadcast tower. This will accommodate our 440 MHz repeater. We still need to design the sidarm mounting configuration and calculate placement. We also need to acquire hardline sufficient to reach our desired height on the tower.

A third site is planned in the Hidden Valley area south of Maricopa. We feel these three locations, rather than sharing a single location, will give us reliable, uninterrupted communications in the event of local power outages or emergency situations. We have coordinated with our local CERT organization and communicated our repeater plans and capabilities. Our repeaters are a big part of any CERT communications activities as well as providing our membership with general day-to-day VHF/UHF analog and digital voice communications.

We expect our coverage area to extend north to South Phoenix, West to the Maricopa Mountain Wilderness Area, East to Interstate 10, South to Interstate 8 near the Sonoran Desert National Monument and the Vekol Valley South area.

Our repeater final repeater network will be 145.210 MHz PL 162.2, 449.125 MHz PL 136.5, and 446.300 MHz PL 100. Presently, only the two-meter repeater is on the air until we get locations finalized for the other two machines. Our repeaters are open to all licensed radio amateurs.

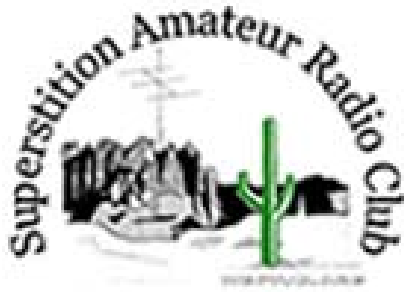
Many thanks to the following members of our tech committee who worked on this project and made it happen for our club: Curt - NA7CS, Bob - W8RH, Chris - W7CGC, Jim - KC1BB, and Joe - K7EES.

By Steve Miller, W6SDM

ADAW



Daylight Savings Begins March 13th



147.120 Repeater Upgrade

In January, the club purchased and installed a new six-cavity duplexer for its two-meter machine. It has improved the system sensitivity by increasing the isolation between the receiver and transmitter. This allows for cleaner-sounding weak signals into the machine, and should help increase its useful range.

147.120 to 449.600 Repeater Linking Project

Currently work is in-progress to complete linking of the 147.120 to the 449.600, with some work remaining to be done for it to be declared finished. Until then, the link may or may not be operational. Link traffic flows one way at a time between VHF on Utery Pass and UHF at the Stone Castle.

Please avoid quick-keying. Squeeze the mic button, and pause one to two seconds before speaking to allow the link to come up. As a courtesy to others on the other side of the link, please leave breaks in between transmissions.

For the latest Technical Committee news, please see the club site.

March 15 Club Meeting Program, Meeting at 7:00 P.M.

A club development session will be held, whereby we will break the members into small groups and gather a consensus of opinion on matters pertaining to what direction you would like to see the club take. We conducted this survey a few years ago to gauge members' wishes. It too was in March.

Yaesu FT-991 Raffle for New Stone Castle Repeater!

The club is raising funds for a new Bridgecom repeater for the Stone Castle 449.600 by selling 150 tickets for \$20 a pop starting in the February meeting. Winner will be drawn at the first general meeting following the sale of all 150 chances.

Please refer to the Official Rules on SuperstitionARC.org.

March 29 Falcon Field Open House

The club plans to set up a special event station at Falcon Field Airport's Open House in Mesa. With it we will have information tables for interaction with the public at that event. This will be the club's fourth year at Falcon Field. Come on out and visit!

By Larry Kuck, WB7C



Superstition ARC Repeaters

147.120 MHz (+) 162.2 Hz - Utery *
448.275 MHz (-) 100.0 Hz - Utery
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 Newline.

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.superstitutionsuperfest.org for the latest information.



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Arizona Near Space Research has elected new officers for 2016. Steven Thomas KE7TLS has been elected President, Vince Jenkins KC7IUU has been elected Vice-President, his wife Kim agreed to serve as Secretary and Bill McLean K7WWM will be the new Treasurer.

Plans are complete for ANSR-96 which will be launching from the Yuma Hamfest on Saturday, February 20th at 9:00 a.m., weather permitting. If you are there and want to join in the chase or otherwise help, please speak to one of our members. We will have two college payloads on the string, in addition to the AREDN experiment that we are flying. Students from South Mountain Community and Pima Community colleges will also be attending the Hamfest and having experiments flying. Two APRS beacons are among the payloads, KA7NSR-7 will be beaconing on 445.925 and KA7NSR-6 will be on 144.34. These will be digipeated on to 144.39, so that tracking can be seen on <http://www.aprs.fi>. There will be a CW beacon on 147.515. The South Mountain Community College payload will be using a 900 MHz frequency and Gene Sweich WB9COY will be using the AREDN frequency of 2390 MHz. There will be several big screen monitors set up in a booth at the Hamfest, where visitors will be able to see video streaming from the flight and track the flight.

Gene Sweich WB9COY will have two different presentations at the Hamfest, and Jack Crabtree, ANSR Past President and Founder, will have a presentation about ANSR. Stop by Jack's presentation and congratulate him on the 25th Anniversary of his first flight.

Planning will start soon for ANSR flights 97 and 98, ASCEND flights 22 and 23. These flights are being planned for Saturday, April 2nd, launching from the University of Arizona Agricultural Center 37860 W Smith Enke Rd., Maricopa, AZ 85138. ANSR-97/ASCEND-22 will launch at 9:00 a.m. and ANSR-98/ASCEND-23 will launch about a half hour later. The ASCEND program has 10 colleges/universities joining in this series of flights, with many different experiments being flown.

ANSR is planning to help track the Total Solar Eclipse in 2017. With a grant from NASA, we will be one of a series of balloons being launched in the track to be able to provide video and pictures of the path of the eclipse. For more information about the eclipse see <http://www.greatamericaneclipse.com/>

The MMRG Tuesday night net has been on the air since the seventies and operates on the 147.00 repeater every Tuesday night at 7:30 P.M. Arizona time. Last December, long time net control station Jim Ball, WB7UZV, retired from his NCS duties. Currently Bob Sitterley is acting net control and is looking for either alternates or someone that wants to be full time NCS on Tuesdays.

Preceding the net, at about 6:55 P.M. AZ time, the Amateur Radio Newline is transmitted on 147.00.

The downtown Phoenix Repeater is working, but in a temporary location in Chino Valley as a ground lever repeater for testing. The repeater will go back up in Phoenix in a month or so.

ADAW

ANSR Continued from Previous Column

or <http://http://www.eclipse2017.org/> More information will be coming later.

Current planned flights:

March 9th - NPA flight from Flagstaff (ANSR will be assisting the school with this flight, it is not a ANSR flight)

April 2nd - ANSR-97/ASCEND-22 and ANSR-98/ASCEND-23 from Maricopa

April 12th - ERAU-21 from Embry Riddle in Prescott

April 19th - ANSR-99 Flight from Diné College in northern Arizona

Bill McLean K7WWM
Registered Nurse

Continued Next Column

ADAW



CHAPTER 16
BARRY M. GOLDWATER ARIZONA CHAPTER



At the Horny Toad Restaurant

We had an excellent meeting at the Horny Toad restaurant in Cave Creek on January 9th. As always, the food was excellent. We had 25 in attendance for the luncheon and the presentation.

Tom Fagan, K7DF, President, had a quick business meeting. He went over the financials as given to us by David Hanson, W7BJ, Treasurer. As you might remember, David wanted to split his duties as Secretary/Treasurer into two jobs. He was fine with doing the Treasurer job, but did not want to continue being Secretary as well. A quick discussion followed and Tom was given an action item to send this out to the membership for a vote.

Our presenter for the meeting was Cliff Hauser, KD6XH. Cliff gave a very informative presentation on his 2014 DXpedition to American Samoa W1AW/KH8 and Western Samoa 5W0XH. Afterwards he answered questions. It was enjoyed by all. Here are some photos taken by John Marshall WA7BSR, QCWA AZ photographer.

Next Quarterly Meeting – March 26, 2016, 11am Social, 11:30am Lunch – Casa Del Rio Mexican Restaurant 1060 S Pantano Rd., Tucson, AZ 85710 (22nd and Pantano). It's just down the road from the RST Springfest Hamfest. Lunch will be: Order from the menu (Individual checks). Program: Yagi-Uda (Beam) Antenna by Gary Thiele KD8ZWS

The talk will go over the history of the antenna, present a few personal notes of his, and conclude with a technical explanation of such things as why only one reflector element, limit on the number of directors, why the narrow bandwidth, etc. No equations are used for this tutorial talk. Gary is a co-author of "Antenna Theory and Design," John Wiley & Sons, 1981, 1998, 2013.

We look forward to you attending this event. We would like to get a reasonable count of attendees. Please let us know soon, if you are planning to attend. Thank you. azqcwa@gmail.com

If you have been a ham for 25 years, do join, you earned it.

Late breaking News: Raymond H Porter, K7AA, became a Silent Key on January 13, 2016. Our deepest sympathies go out to his family, Diana Porter (wife), Larry Porter (son), Pat Sougstad (daughter), and Helen Eppard (daughter).



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.

March Test Sessions

Mar 3rd - CARBA -- 7:00 PM

Lighthouse YMCA, 2900 N Columbus Blvd, Tucson
Contact - Matthew Grossman 520.750.7189
Pre-Reg by email preferred

Mar 3rd - DeVry ARC & WVARC -- 9:00 AM

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

Mar 7th - AARC & WVARC -- 8:00 PM

St. Clement Church, 15800 N Del Webb Blvd, Sun City
Contact - Joseph Cutitta 623.215.2226

Mar 9th - Central Phoenix VE Team -- 6:30 PM

South Mountain Community College, 7050 S 24th St, Phoenix
Contact - Bill Martin 480.205.3625
No Walk-Ins - Limited Space - Please contact prior to exam.

Mar 12th - Yavapai ARC -- 9:00 AM

Jeep Posse Bldg in Pioneer Park, 1200 Commerce Dr, Prescott
Contact - Donald Bauer 928.775.4690
Pre-Reg on-line: www.w7yc.org

Mar 14th - Radio Society of Tucson -- 7:00 PM

Pima Emergency Communications Operations Ctr
3434 E 22nd St, Tucson
Contact - Diane Zimmerman 520.219.0452

Mar 15th - Boy Scout Troop 127 -- 8:00 PM

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

Mar 15th - Eastern Arizona ARS -- 6:30 PM

Search & Rescue Bldg/Graham Cty, 580 S Dusty Trail Ln, Thatcher
Contact - David Wells 928.965.8327
No Walk-Ins - Pre-Register

Mar 16th - Thunderbird ARC -- 6:00 PM

Honor Health Medical Office Bldg, 19841 N 27th Ave, Phoenix
Contact - James Skinnell 602.826.1949
No Walk-Ins



The Yavapai Amateur Radio Club is pleased to announce that a hamfest will return to the Prescott area. After a hiatus of several years, YARC and the Eagle Amateur Radio Club of Embry-Riddle Aeronautical University will host the Prescott Hamfest 2016 on the campus of ERAU in Prescott, AZ.

The event will take place Friday afternoon and all day Saturday, June 10 and 11, 2016. General admission to the hamfest is only \$5.00. Noncommercial tailgate spaces are only \$10.

The hamfest will include seminars for beginners, intermediate and advanced attendees. There will be an antenna contest, transmitter (fox) hunt, DXCC card checking, license exams, prizes, and much more.

The year 2016 marks Yavapai Amateur Radio Club's 25th Anniversary. So, come help us celebrate the event. For more information, see our Prescott Hamfest flyer in this issue.

YARC has begun operation of its club radio station, W7YRC, located in the Jeep Posse building in Pioneer Park in Prescott. Pete Morrison K6VVR is the station license trustee. The station is equipped for HF, and VHF/UHF operations. We have partnered with the Jeep Posse to better utilize the facility. Currently, this is a one year trial agreement with the Posse. YARC uses this facility to conduct new amateur education, open houses and VE testing.



Test Sessions Continued from Previous Column

Mar 19th - W7GAA -- 10:00 AM

Suddenlink Community Ctr, 22380 3rd St, Bullhead City
Contact - Keith Bruecker 928.719.8433

Mar 19th - Unsponsored -- 10:00 AM

Kingman Middle School, 1969 Detroit Ave, Rm 310, Kingman
Contact - Daniel Miller 928.897.3883

Mar 21st - East Valley VE Team -- 6:00 PM

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

Mar 26th - 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



SARC Continued from Previous Column

This past month has been very good with a lot of clear sky and mild weather conditions. I am seeing a lot of people outside enjoying it. When we go to the El Dorado park, we see them walking or running, roller blading, skate boarding, bicycling and I even saw a kid on a unicycle. I am out there too, trying to get some strength back. This is going to take some time.

The February program by Andy Keels, P.E., KD4ABB, was outstanding. He works for SRP in their Electric System Planning & Engineering Department. He gave us an in-depth look at all of the features SRP has for anyone to analyze their power usage. You can literally monitor your power usage on an hourly basis. He had recently taken a vacation trip to Connecticut and to the ARRL headquarters in Newington. He presented a slide show of a private tour of the ARRL headquarters and the Hiram Percy Maxim radio station, W1AW. The headquarters usually close at 5:00 and he arrived at 4:45. Instead of telling him to come back the next day, they took him on this grand tour. At the station he called a friend of his in Georgia and asked him to get on his rig right away. He did just that and Andy made contact with him as KD4ABB/W1AW. I have never been there but I would love to see and work this station. This was a great program.

This is the time of the year when we all start thinking about summer vacations. The fuel prices are definitely an incentive to take a road trip somewhere. It is time to put the rig in the truck and hit the road for some fun. We are thinking about a trip to the redwoods and Northern California sometime this summer. I am sure a lot of you hams out there are also in the planning stage for a vacation trip. So take a lot of pictures and let us know about your trips. Everyone would love to hear about them.

I know the HF bands are not very good right now but I have been having some luck on 40 meters. My tri-band is not repaired yet so I only have the 40 meter dipole to work with. Pete, W7GDU, always gives us a report on the HF band conditions during the Tuesday night net. I find this to be very useful since I am usually too busy during the day to listen around the bands. This is another good reason to check into the net.

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. 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. There will be all of the regular hamfest amenities. For the convenience of our out-of-town guests, there is RV parking the night before the event. There will be three raffles. When you pay the admission fee, you will receive a raffle ticket for the hourly prizes. Then there will be the raffle for the hamfest prizes and a third raffle for a 50-foot tower with rotor. Refreshments will be available. The weather will be perfect. Our weather forecaster, Dreux W7EMU, has promised!

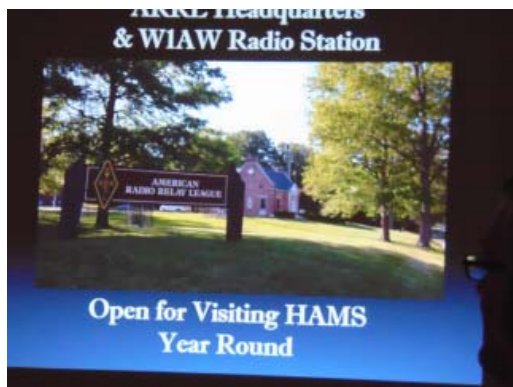
We have a 2-meter/ 70-cm net every Tuesday evening at 7:00 P.M.. The frequencies are 147.18 MHz with a tone of 162.2 and 440.00 MHz with a tone of 100. A bunch of guys get on the air and tell us what they have been up to lately. It is a lot of fun to get on the air especially since the HF bands have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

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

73,
Ed Nickerson, WU7S
enickerson427@aol.com



Andy Keels, KD4ABB at the keyboard



Andy's destination in Newington, CT

Continued Next Column





Old Pueblo Radio Club INTERMOD

President's Column

The ARA will be setting up a table at the ARRL Southwest Convention at the Yuma Hamfest this year. (February 19th - 20th) We also plan on attending the Scottsdale Hamfest. (March 19th) Stop by and say "Hi" and hang out for a while.

We're also working hard on keeping our general meeting calendar booked with great presentations. Join us on the 4th Thursday of the month in Tempe. Topics are updated on the calendar at this link <http://w7ara.org/mtg/ProgramViewer.aspx>

Have you attended a Saturday evening Hamfeast lately? Organized by the public service group, the Saturday Hamfeast rotates through a list of restaurants across central Arizona. Join up with fellow hams each Saturday from 6:30 p.m. until they kick us out. Hamfeast locations are scheduled and announced on the HamServeAZ Yahoo Group email list. Join at this link <https://groups.yahoo.com/neo/groups/hamserveaz/info> .

Virgil, K7VZ
ARA President



The Old Pueblo Radio Club is the oldest amateur radio club in Tucson. Over the years, other clubs have been formed which are able to offer many of the same and similar functions, and much more. Their meeting locations are perhaps a little more convenient from certain areas of town. Their memberships are active, technically skilled and are far more rugged. Heck, they're younger. They are carrying on the skill, art and love of amateur radio very well indeed.

In recent years, many of the OPRC members have reached an age or a state of health where night driving has become difficult or impossible.

Despite the above, the club continues to support community events, and to operate three VHF analog repeaters.

At the February meeting, it was decided to hold meetings every three months, rather than monthly. Therefore, the next OPRC meeting will be on Wednesday, 13 April 2016, at the usual location at Tucson Medical Center. We will discuss the possibility of moving the meetings to different times and locations (think restaurants).

'See you there.

73 de
Ron Kalish, N7SPW
President, OPRC

ADAW

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.

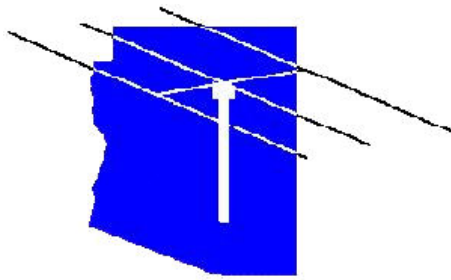


OPRC Repeaters

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

RACES Repeaters

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



MARCA INC.

Missed our February article here. One thing that happened in January, about three hours west of Phoenix on I-10, was Quartzfest 2016. It seemed to be bigger than previous years and more organized, if wandering RVers and visitors can be organized. If you've never attended, then you've missed an experience. The biggest past downside and greatest improvement this year was port-a-potties and accommodation for truck-bed and tenters. There were plenty of activities and a good mix of interesting presentations. Check the website www.quartzfest.org. Keep it in mind for next January and I'll see you there.

As of February 15th, all MARCA repeaters are operational with the exception of Mt Elden APRS. The repeater is not repeating all APRS packets. Remote testing is slow and limited; the antenna system does not appear to be suspect. While remote testing continues, a site visit is necessary for more definitive isolation and determination. Plan A will be to swap out existing repeater with the spare APRS Repeater. Prior to swap out, testing will be performed to further isolate and identify problem. See <http://www.w7mot.org/index.php/repeaters/repeater-map>. If you experience a problem with any of MARCA's W7MOT repeater, please let us know by using a simple quick report at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>.

Our Fusion repeater, W7MOT-37, 147.940 Mhz, digital & analog is still live at our test site a few miles from its planned permanent location. Planned coverage is about 20 miles. (Listed on repeater map under Scottsdale GD). We're still working issues with remote issues.

General Membership meetings are the 3rd Tuesday of the Month. March 15th at 6:30 p.m. - 8:30 p.m. is the next meeting. Ned Sterns, AA7A, will be presenting his latest DX-pedition. It's always interesting to hear how they get into these places with all their gear and then actually operate.

For the past couple years, SDR radio has been capturing the attention of many of the members. We have done several presentations centered on the topic. Presentations can be downloaded from our website Library. A few months ago, I wrote about using a CCD Dipole antenna and success with <200 milliwatt SDR transceiver. In January, Jim Gerwitz ac7fn, gave a presentation on the RTL-SDR and matching up-converter, software, and operation. In February, Norm AA7OO, presented Setting Up Windows for DC-SDR Using

National Parks On The Air with Ingrid W7ISG & Reinhard K7RGG Geissler

An unexpected personal matter took us on a greater than 2,600 mile Phoenix, AZ to Topeka, KS round trip and we quickly decided to activate as many National Park Service units as possible along the way. In the excitement of setting up our antenna at the first stop, we did not even notice that the administrative offices of the park were right behind us from where we were watched. However, all of the park personnel could not have been friendlier and more accommodating. In one of the parks, we were told that they had a conference call that morning alerting them to National Parks On The Air (NPOTA) and the imminent arrival of HAMS. Park Rangers came out to watch us and to take pictures of us for an article that they wanted to write on us.

We drove along extensive stretches of the "Santa Fe Trail" and stopped at Pecos National Historic Park, Fort Union National Monument, Fort Larned National Historic Site, Santa Fe National Historic Trail and El Malpais National Monument. Because of time constraints, we focused on 20m SSB. We worked more than 400 stations from Alaska to Argentina using an FT-857 on a deep-cycle battery and an inverted V on a fiberglass mast. We tried to make the most of our stops and one time we had only eight minutes to take down our antenna, stow everything away and get out of the park before the gate was closed for the night.

There is a tremendous interest in the ARRL's NPOTA program. Postings by a NPOTA Facebook group, that by now has more than 2,000 members, at <https://www.facebook.com/groups/NPOTA/> and the announcements on DX Clusters, quickly generate big pileups. We can only encourage the reader to join the fun. Related information can be looked up at <https://npota.arrl.org/> and we found the online NPOTA + SOTA map at <http://www.spinmap.com/npota-sota/map.html> that includes an additional layer for Grid Squares particularly helpful.

See our pictures on page 17.

MARCA Continued from Previous Column

HPSDR - WSJT-X operating WSPR. There are many ways to jump into the SDR action at different price points. I look forward to writing more about our club activities in this area.

Checkout our website www.w7mot.org for meeting dates, agenda, and guest speakers. If you find something interesting, visit one of our meetings, everyone is welcome.

Norm Johnson, aa7oo
Secretary MARCA

Continued Next Column

National Parks On The Air
with Ingrid W7ISG & Reinhard K7RGG Geissler



Hamfest Calendar

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) PI 162.2HZ. For more information visit 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 PI 156.7 or 145.250 PI 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, 2149 W Dunlap Avenue in Phoenix. Hours are 6:00 AM to 11:00 AM. Admission Donation: \$2.00. Tailgate Spaces: \$10.00 each. VE Testing in school library at 9:00 AM. DX QSL Card Checking from 9:00 to 10:00 AM. Commercial Vendors - Tailgaters - Prizes - Coffee - Doughnuts - Sodas. Talk-In on 147.060 (+) PL 162.2 Hz. Contact Gary Hamman at k7gh@arrl.net or 602.996.8148 for information or to reserve a space.

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, KD7OED 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.

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- (PI 136.5) & 145.210- (PI 162.2). Contact Bob Howard at 520.222.7311 or email to w8rh@live.com 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 Oro Valley 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 PI 156.7. Contact Steve Wood, W1SR at 520.906.1204 or email to nauset2222@yahoo.com for more information.

ADAW



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Day



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SHORT SKIP

Our First Winter Field Day W7V

I know some were getting tired of our seemingly endless preparations via the Club Repeater, but it came off without a hitch, well maybe a few. WFD differs from ARRL's Field Day. Summer Field Day emphasizes civic aspect of Ham radio and the setting up of temporary stations. WFD doesn't give bonus points for public awareness. The objective is set up portable stations quickly, maximum of four hours, and exchange information accurately.

Originating in the northeast USA and Canada, the philosophy is - emergencies don't always happen during summer, we need to be prepared for the harsh winter weather. There are 1000 bonus points for operating outside, off the grid, and not at home.

We setup two permanent stations and several temporary ones as five stations worked at the same time. Starting at 1700 UTC Saturday and ending 1700 UTC Sunday, we accumulated 3948 points. All the HF bands (except 12, 17, 30 & 60 meters) plus VHF & UHF were worked. Three of us stayed out Saturday night.

We would like to thank the estimated 75 people who came out to see, operate, log, or just eat. Speaking for the core crew, it was well worth the effort. Maybe next year a WVARC activity?
73 de Ray, W0IVB



Jim N7YTI, Ray W0IVB, and Alex K7AEM



John N9NA & Ray W0IVB



Don, KG7SUI



Don KG7SIU & Mike K7MJC

**WVARC - Short Skip
Continued
Silent Keys**

The West Valley Amateur Radio Club mourns the loss of two of its members - John Kinney, KL1MV of Juneau, Alaska and John Kombeck, WA9HBT of Peoria, Arizona. Condolences to their families. They will be missed.



Amateur Radio Development Group

No news this month.



John Kinney, KL1MV

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.



John Kombeck, WA9HBT



New Members

- CHAD CARROLL KI7AGL
- LARRIA CARROLL KI7AGM
- BILL CICCONE KA2KHV
- RONALD FRELICH KI7AHK
- RON GULSETH N7PHM
- PAUL KINSHELLA KI7AHN
- PAUL McCORMICK KI7AHL
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