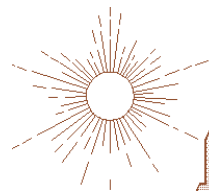


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



ADAW

Arizona Desert Aire Waves

Vol 41, No 10

October 2016

CLUB MEETINGS SCHEDULE

QCWA
December
TBD
Cave Creek Area
11:00 AM

WVARC
Oct 3rd
St Clement Catholic Church
Social Hall
7:00 PM

SuperstitionARC
Oct 18th
Charles K Luster Bldg
7:00 PM

ARA
Oct 27th
Denny's Restaurant - Tempe
7:30 PM

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

MARA
Oct 29th
Barrow's Pizza - Maricopa
9:00 AM

ANSR
Oct 17th
via Skype
7:30 PM

YARC
Oct 6th
Mile High Middle School
7:00 PM

OVARC
Oct 21st
Ascension Luthern Church
7:00 PM

ARCCC

CLUB MEETINGS SCHEDULE

SARC
Oct 5th
Scottsdale Senior Center
7:00 PM

AARC
Oct 13th
Red Cross Bldg. - Phx
7:30 PM

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

TBARC
Oct 20th
North Phoenix Campus
Northern Arizona University
7:00 PM

CARL
TBA
AZ Science Center
TBA

CADXA
Oct 6th
PERA Club
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	W0SLI	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.

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	Kelley Law	KF7ZVL	
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	
	Ed Nickerson	WU7S	480.949.5162
	Charlie Brown	NJ7U	
	Bill Kouchis	N9EIV	

SARC, P. O. Box 10878, Scottsdale, AZ 85271-0878. Phone: 602.735.3988. DUES: \$20.00/YR, (\$10.00/Add'l Family Member). Web Site: www.scottsdalearc.org

ARIZONA NEAR SPACE RESEARCH

The Arizona Near Space Research group meets the **THIRD MONDAY** of the month at 7:30 p.m. on Skype. Technical meetings are held the first Monday of the month at 7:30 p.m. on Skype. Please contact an officer about joining our meetings.

President	Stephen Thomas	KE7TLS	iamgadget1@yahoo.com
Vice President	Vince Jenkins	KC7IUI	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

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.

AZ RED CROSS COMMUNICATIONS CLUB

The Arizona Red Cross Communications Club meets at the Red Cross Building located at 4747 N 22nd Street in Phoenix. The group meets at emergency drills and at the call of the officers.

President	Frank Engstrom	KB7IQ	480.209.7300
Vice President	Larry Buchanan	AA0LB	623.703.9161

Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016.



ADAW Member Clubs

BARRY M GOLDWATER, ARIZONA CHAPTER QUARTER CENTURY WIRELESS ASSOCIATION

The Barry M Goldwater Arizona Chapter of the QCWA includes amateurs from all over Arizona. Four luncheon meetings are planned each year. The meeting months and locations are announced by newsletter, but generally follow the following schedule:

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

The AZ Chapter meets on the air every Sunday morning at 0700 MST (0730 during December and January) on 3890 +/- QRM. During December and January, the net time is moved to 0730 MST.

President	Tom Fagan	K7DF	520.574.1129
Vice President	John Marshall	WA7BST	623.334.2583
Secretary	Clifford Hauser	KD6XH	520.235.7393
Treasurer	Dave Hanson	W7BJ	w7bj@outlook.com
Webmaster	John Marshall	WA7BSR	623.334.2583

Web Site: <http://azqcwa.org> Email: azqcwa@gmail.com.
 DUES: \$7.00/year and current national QCWA membership.

MINGUS MOUNTAIN REPEATER GROUP

Meetings are held twice a year, an annual board meeting in Phoenix and a picnic meeting in Chino Valley. Dates, times, and locations are announced in the newsletter.

President	Bob Sitterley	K7POF	928.636.2146
Vice President	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.

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	Josh Babb	W3JB	801.358.1078
Vice President			
Secretary	Bob Beltz	KU4ZG	770.680.1204
Treasurer	Heather Canevit	KG7MUY	
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

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	Mike Corder	K7MJC	602.439.1303
Vice President	Alex Munro	K7AEM	602.469.7234
Secretary	Sharon Blaylock	KI7DOK	623.584.6974
Treasurer	Jim Rogers	N7YTI	623.214.9219
Membership	Tom Connor	W7TLC	623.444.7956
Club Directors:	Bob Paul	KG7FIL	623.252.0149
	John Siepmann	N9NA	630.209.4116
	Roger Thacker	KD0MD	623.974.1516
	Tom Connor	W7TLC	623.444.7956

WVARC, P O Box 1573, Sun City, AZ 85372-1573. DUES: \$15.00/YR for family residing at the same address. MEMBERSHIP YEAR - January - December. Web Site: <http://www.westvalleyarc.org>.

SUPERSTITION AMATEUR RADIO CLUB

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

President	Steve Estes	KB7KWK
Vice President	Jeff Machesky	K7ZLX
Secretary	Jeff Harris	KD2DFE
Treasurer	Douglas Mitchell	W7ADD
Board Members:	Brian Betz	W7JET
	Dale Schmidt	N7QJK
	Dan DeVliieger	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.



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	
VicePresident	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, WB7TUI	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 website at www.w7yrc.org

ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at Ascension Lutheran Church located at 1220 W Magee Road in Tucson. (June is normally Field Day. December is annual Christmas Party and date and location varies.) Visitors are welcome. Board Meetings are held at 9:00 a.m. at the Oro Valley PD Substation EOC on Tangerine Rd (next to WalMart) in Tucson. Check the web site at www.tucsonhamradio.org for dates.

President	Steve Wood, W1SR	president@tucsonhamradio.org
Vice-President	Bob Molczan, KA7VPR	vicepresident@tucsonhamradio.org
Secretary	Carl Foster, KB7AZ	secretary@tucsonhamradio.org
Treasurer	Hanna Eckert, KG7TPD	treasurer@tucsonhamradio.org
Board Members	Scott Boone, K7ADX	
	Lanny Voight, KF7LV	
	Ross Eckert, K4WBR	
	Fred Bresani, W2HZ	
	Bob Stephens, AF9W	

DUES: \$25.00/year (Household members living at same address \$15.00 each additional). To join or for additional information, visit website at <http://www.tucsonhamradio.org/>.

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 ADAAW. ALL RIGHTS RESERVED. **Deadline is 10th of the month**

ADAW Member Clubs

CENTER FOR AMATEUR RADIO LEARNING

The Center for Amateur Radio Learning is a hands-on amateur radio station, W7ASC, located within the Arizona Science Center at 600 E. Washington, Phoenix. Board meetings are held the last month of each quarter at the AZ Science Center. Annual meeting for all volunteers is held the **THIRD SATURDAY** of January. Watch ADAW for details.

President	Bob Burleson	KG7QJ	480.961.1109
Vice President	Jim Felkey	N7BBS	480.966.7084
Secretary	John O'Neal	K7IP	480.961.1109
Treasurer	Karen McConaghy	NO7D	602.799.7338

Board Members:

Jean W4CIH	ADAW, Publicity
Steve WB4ZSC	Tech/IT, CARL/ASC interface
Fred K9TOS	Logbook/QSLs
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>

CENTRAL ARIZONA DX ASSOCIATION

The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. (except for January Awards Banquet) at the PERA Club, located at 1 E Continental Drive in Tempe. Visitors always welcome. See www.cadxa.org/meetings.html for a map. The May meeting is an outdoor barbecue at 6:00 p.m. (reservations required).

President	Lee Finkel	KY7M	ars-ky7m@cox.net
Vice President	Rex Turvin	NR6M	turvin2009@yahoo.com
Secretary	Bill Poole	AA4Q	bill@poole.com
Treasurer	Alton Chaney	W7ACX	w7acx.480@gmail.com
Past President	Tom Kramer	NQ7R	tkramer@azci.net
Board Members	Larry Loen	WO7R	lwlloen@gmail.com
At-Large	Mickey LeBoeuf	K5ML	k5ml@arrl.net

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: cadxa@cox.net. Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: www.cadxa.org.

Real Estate

*Are you or someone you know looking for a Ham Home?
I can help you find a home with a tower or one where a
tower can be added. Call or email me to get started.*

*Richard Haworth W7MDQ
Coldwell Banker Residential Brokerage
602-370-1450 Cell, rahaworth@cox.net*

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MARCA EDITOR		
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MMRG EDITOR		
Lori Cripps	WA7EDI	602.955.7517
OPRC EDITOR		
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OVARC EDITOR		
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ADAW



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From The Editor's Desk

It is truly amazing how quickly time flies by. It seems like a very short time ago we were welcoming in a new year, and now that year is nearly done. Won't be long until we'll be welcoming in another new year!

With the return of cooler temperatures, Amateur Radio activities are picking up. There are two hamfests and five public service events scheduled for October. Then there's the Center for Amateur Radio Learning at the Arizona Science Center which is always looking for volunteers. That's plenty of opportunities for you to get involved and give back.

Speaking of hamfests - The next Arizona hamfest is scheduled for October 15, 2016 in Kingman. This year's event will be held in the parking lot of KRMC Medical Plaza on Stockton Hill Road. You are cordially invited to bring your own food and drink and join the group for a day of swapping and comradery.

Then, head down (or up) the road to Marana for the 2016 ARRL Arizona State Convention and Copafest on October 21 & 22. The Marana Amateur Radio Association is planning a top notch event in the Ultra Star Center at Harrah's Ak-Chin Casino. There will be all the usual convention and hamfest fare - and more! Check out their listing on page 14 and the flyer included with ADAW for all the details.

ADAW welcomes the Arizona Red Cross Communications Club to the newsletter this month. The group provides communications support to the American Red Cross during drills and emergencies throughout Arizona. Members also volunteer at the Red Cross providing assistance where needed. We applaud their efforts and welcome them.

A note to all readers. ADAW offers free advertising of Amateur Radio items for sale by members of participating clubs. Just type up your ad and send it to ADAW via email at adaw@adaw.org or adawaz@arca-az.org. Be sure to include price and contact information. Sorry, but pictures aren't being included at this time, but you can list "pictures available" in your ad. All ads will be run for 3 months and then deleted unless you request and additional 3 month "run."

Those of you with a business might consider advertising in ADAW also. The Arizona Desert Aire Waves currently has a circulation of more than 1500 Amateur Radio operators in Arizona. Back issues of the newsletter on the ADAW website further expands its readership and increases each advertiser's exposure. Best of all, advertising rates are very affordable. If you are interested in learning more, send an email to adaw@adaw.org or adawaz@arca-az.org for details.

There is lots of news and wonderful pictures in this month's issue. So, enjoy reading.

Keep careful watch for the little ones if you are out and about on the 31st and have a Happy and Safe Halloween.

73, Chris, N7PVL



Arizona Red Cross Communications Club

Hello and greetings from the Arizona Red Cross Communications Club (ARCCC). We're excited to be joining the ADAW family and hope you will follow us as we help serve the emergency communications needs of the Arizona Red Cross. We're pleased to be able to partner with our sister club, the Arizona Amateur Radio Club, who also uses the Red Cross facilities for their activities.

Last month, we installed our repeater at the Red Cross building. It's on 146.84 (minus) with a PL of 162.2. This will be a temporary location until we can find a better home for it. Our current location (Biltmore area of Phoenix) restricts propagation to the North and East so our footprint is mainly Northwest through Southeast. The plan is to use the repeater for our drills and exercises, but it is open to the general public otherwise.

We are also in the process of setting up our Echolink connection thru the K7ARC repeater (K7ARC-R). We will then be able to link Red Cross chapters throughout the state.

As with anything technology based, there is bound to be a few hiccups along the way, so be patient as we work those issues out.

Your Humble Scribe,
Mark, N7KKQ

ADAW



License Testing Information

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

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

October Test Sessions

Oct 1st - Venture Out ARC -- 9:00 AM

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

Oct 1st - ORO Valley ARC -- 10:30 AM

Oro Valley Police Sub-Station, Walmart Shopping Ctr, Oro Valley
Contact - James Garrity licensing@tucsonhamfest.com

Oct 1st - DeVry ARC & WVARC -- 9:00 AM

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

Oct 3rd - AARC & WVARC -- 8:00 PM

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

Oct 6th - CARBA -- 7:00 PM

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

Oct 8th - Yavapai ARC -- 9:00 AM

Jeep Posse Bldg in Pioneer Park, 1200 Commerce Dr, Prescott
Contact - Donald Bauer 928.775.4690

Oct 8th - Yuma ARC -- 9:00 AM

Yuma County Sheriff's Office, Training Rm 2, 141 S 3rd Ave, Yuma
Contact - Robert Spencer 928.941.7069
No Walk-Ins - Appointment Only

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

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

Oct 12th - 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.

Continued Next Column



No Report Received

ADAW

Test Sessions Continued from Previous Column

Oct 15th - W7GAA -- 10:00 AM

Suddenlink Community Ctr, 2380 3rd St, Bullhead City
Contact - Keith Bruecker 928.719.8433

Oct 15th - Central Phoenix VE Team -- 9:00 AM

Gilbert Farmers Market, 222 N Ash Dr, Gilbert
Contact - Bill Martin 480.205.3625

No Walk-Ins - Call Ahead for important details/instructions

Oct 15th - Un-sponsored -- 10:00 AM

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

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

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

Oct 18th - Boy Scout Troop 127 -- 8:00 PM

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

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

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

Oct 21st - Tonto ARA -- 6:00 PM

Payson Public Library Meeting Room, 328 McLane Rd, Payson
Contact - Darde De Roulhac 928.468.1487

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

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



Big changes in the Maricopa Amateur Radio Association. Our new interim President is Josh Babb, who was previously our VP. Our new Treasurer is Heather Canevit, KG7MUY, who was elected by the board to fill the position vacated by Steven Ruggles. We want to thank both Ford Willman, N5FW, and Steve Ruggles, KG7GYM, for their years of service to our organization. Our regularly scheduled elections will be at the meeting on Saturday, November 26, 2016. Nominations for officers can be sent to Tim Wimmer, K7TLW at timlee.wimmer@yahoo.com.

A pretty common formula is that 90 percent of the work in any organization is done by 10 percent of the membership. I know that anyone who's been in a leadership position, be it a church group, boy scout troop, or a ham radio club, can attest to that. It's okay that some people just want to be members — after all, this is a hobby as much as it is a service and it's supposed to be fun. Keep in mind that when just a couple of people are saddled with all of the responsibility for keeping the ship afloat, they tend to get tired and burn out.

Think about it. What can you do to take just a little bit of the work off of someone who's doing a lot? When there is a call for volunteers, do you hide or hold up your hand? A strong organization requires the participation of everyone.

We have our Copafest coming up in Maricopa on October 21 and 22, which also happens to be the Arizona State ARRL Convention. It's been a lot of work and has been in the planning stages for almost a year now. We need as much help as we can get from our membership to make this a really great event. Even if you're not a MARA member and would like to help, we won't turn down any assistance. We have already had a few folks from outside our group step up to the plate. Thank you.

Drop me an e-mail at steve@w6sdm.net and let me know how you would like to be a part of this event.

Speaking of the Copafest/Arizona State Convention, it's less than two months away. We will have Jim Zimmerman, N6KZ, and Reinhard Geissler, K7RGG checking cards. If your cards, like mine, have been sitting in a shoe box waiting to get checked so that you can apply for that award, this is a perfect time to get them checked.

Oh, and one last thing. We usually close out a QSO with a 73. That's exactly how it's spoken with the words "seven" and "three" in succession. It's not "seventy-three" or "seven threes." Just seven three is the proper way to wish someone best regards. Now who would have expected that ham radio actually has grammar?

The year 2016 marks Yavapai Amateur Radio Club's 25th Anniversary. Come join us for one of our monthly club meetings. Upcoming meeting night programs include: W7JLC – 2017 Solar Eclipse High Altitude Balloon Project (October), and election of new club officers and board members in November. If you are interested in running for a YARC office, why not nominate yourself. Please, members only.





YARC continues our series of licensing classes for people interested in Ham radio. In August, a Technician license class was held with 19 candidates preparing for the Aug. 27 test. The test resulted in 14 new Tech licensees as well as 3 General class and one Extra. Welcome all to the world of amateur radio. Future classes are soon to be scheduled. In addition, YARC offers discounted "HamTestOnline" subscriptions. Upcoming regular test sessions are Oct. 8, Nov. 12, Jan. 14, 2017, and Mar. 11, 2017.

Reminder: If you contacted N7GMH on June 30 for our Granite Mountain Hotshots memorial and want a commemorative QSL certificate, you need to email our contact, DBauer2250@aol.com with your contact information. We will match it to our logs and forward a printable certificate by email.

ADAW



R.J. CARLI ENGINEERING CORP

 ELECTRICAL CONSULTING	 SOUND SIGNAL CONSULTING	<p style="font-size: small;">7311 E. STETSON DRIVE SCOTTSDALE, ARIZONA 85251</p> <p style="font-size: small;">RAYMOND J. CARLI, P.E. ELECTRICAL ENGINEER W7GNE</p> <p style="font-size: x-small;">(480) 941-8810 (OFF.) (480) 945-7020 (FAX)</p>
 MECHANICAL CONSULTING	 PL CONSULTING CONSULTING	

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.



Now that the weather's cooling off, it's getting close to the Arizona QSO party on October 8 and 9. For TBARC, this is kind of like a mini Field Day - we head up north to Flagstaff to take advantage of the altitude and enjoy a weekend of operating, good food and good times. Stations outside of Arizona will be looking to contact as many Arizona-based stations as they can - which means lots of pileups for us! Once again, Jack Lunsford, KD7RCJ has graciously agreed to host us. Thanks Jack!

If you're at the QSO party, be sure to check out the TBARC equipment trailer. It will be up in Flagstaff during the QSO party, and has been newly outfitted with metal shelves to better store our club gear and make transportation up and down the hill less calamitous. Thanks to David Laird KG7NGE for doing the metalworking.

It's getting close to election time at Thunderbird Amateur Radio Club. People will be nominated at the general meeting on October 20, and then actually elected at the general meeting on November 17. We want you to tell us what the direction of the club should be. Show up to both meetings and make sure

your voice is heard! Talk to our election committee (Israel Vicente AD7ND, Andy Durbin K3WYC, and Walt Reinert NJ8G) if you've got questions.

Thanks to Virgil Silhanek, K7VZ for the picture of our VE team. This was taken at the August session. If you want these friendly people to give you a license test, or if you're a VE and would like to join the team, drop a line to our VE liaison, Jim Skinnell, K7EOG at ve@w7tbc.org. We have a session on the third Wednesday of every month at 6:00 p.m. at the Honor Health Medical Office Building, 19841 N 27th Ave in Phoenix. (If you've recently become a VE, please let our membership coordinator Clair Wyant know as well by sending an email to membership@w7tbc.org.)

Have you been to a TBARC meeting yet? Why not stop by? We'd love to have you join us, and guests are welcome. Our meetings are held on the third Thursday of the month at the North Phoenix Campus of Northern Arizona University. It's near Greenway and I-17, starting at around 7:00 p.m. See the club website at w7tbc.org for directions. In October Brad Lee W0VFT will talk about his Cook Island DXpedition. What's it like to operate a pileup from Rorotonga? Where the heck is it that anyway? Come and find out!

Andrew Cornwall, KF7CCC
kf7ccc@arrl.net

ADAW



TBARC VE Team



1981 T-Bird Balloon Races

Happy birthday to AEN-MAR (<http://aen-mar.org>) as the net just celebrated its 10th anniversary. Tune into any of the Metrolink repeaters on Monday evenings at 9pm to participate in the net. If you missed the article, open your September 2016 ARRL QST magazine and read Mike WB4ZKA's article on pages 71-73. He analyzes how AEN-MAR has set the bar when it comes to training nets and continues strong into its second decade.

The public service season kicked off in September with two of the larger, longer events. The Barnburner Mountain Bike Race west of Flagstaff and the Mogollon Monster north of Payson will have been completed by the time this goes to press. You're not too late to help out. Go to www.mcecg.net and sign up for one of the many events being supported this fall and next spring. There's everything from the longer, overnight events, as mentioned above, to support for smaller 5k type events that only take a few hours. There are several weekends where multiple events are scheduled; October 8th and 9th has 3 events and November 5th and 6th has a whopping 6 events that need volunteers.

Speaking of anniversaries/birthdays, the Arizona Repeater Association was founded in September 1967, turning 49 years old this fall. Thanks to Dennis WA7ZZT, we have a box of Squelch Tails from 1974 until printing was discontinued in 2008. At a general meeting earlier this year, Hal WA7ZCZ handed me a photo album from the early 1980s full of ARA photos. I've scanned the 102 pages of photos as well as organized the old Squelch Tails and hope to use this material to celebrate the ARA's 50 years in 2017. Do you have old Squelch Tails saved? (I primarily need anything 1967-1974.) Or do you have old ARA photos of the repeater sites or public service events? Please contact me if you do.

Remember, if you hear interference or any issues on ARA repeaters, please take a minute to submit an interference report. <http://w7ara.org/public/InterferForm.Asp>

Virgil K7VZ
ARA President

Photos provided by Hal WA7ZCZ.



RV with ARA banners



Barney
K7TPW



Wayne
WB9VMP



Robin
KA7DTT



Many Balloons!



Public Service Calendars

Maricopa County Emergency Communications Group Events

Yavapai Amateur Radio Club Communication Events

EVENT	LOCATION	DATE
Xterra Estrella Mtn Trail Ride	Estrella Mtn Park	10/02/16
Y Race Phoenix (YMCA Half Marathon)		10/08/16
	Phoenix South Mountain Park	
Susan G Komen Race for the Cure		10/09/16
	Downtown Phoenix	
Tour de Scottsdale		10/09/16
	Scottsdale - Rio Verde - Fountain Hills	
Javalina Jundred	McDowell Mountain Park	10/29-30/16
Heart of Arizona	Congress	11/05/16
JROTC First Water		11/05/16
	First Water North of Apache Junction	
MS Walk on the Wildside	Phoenix Zoo/Papago Park	11/05/16
Walk for the Cure ADA		11/05/16
	Central & Bethany Home in N Phoenix	
Phoenix Half Marathon	Downtown Phoenix	11/06/16
Xterra San Tan Trail Run	San Tan Park	11/06/16
Fiesta Bowl Half Marathon	Scottsdale Civic Center	12/11/16
Xterra - Whit Tanks	Waddell	01/08/17
Prickly Pedal	Cave Creek - Lake Pleasant	01/21-22/17
JOTC First Water		01/28/17
	First Water North of Apache Junction	
Runner's Den Pancake Run	EPhoenix	02/05/17
	Paradise Valley Mall	
Black Canyon 100K		02/18/17
	Spring Valley to Emery Henderson Trailhead	
Lost Dutchman Marathon	Apache Junction	02/19/17
JROTC Lake Pleasant	West of Lake Pleasant	02/25/17
Xterra Black Canyon Trail Run		03/05/17
	Black Canyon City	
Mesquite Canyon	Waddell	03/18/17
Crown King Scramble	Lake Pleasant - Crown King	04/01/17
El Tour de Mesa	In and Around Mesa	04/01/17
March of Dimes for Babies		04/08/17
	Wesley-Bolin Plaza, Downtown Phoenix	

EVENT	LOCATION	DATE
Prescott Road Rally	Prescott	09/30-10/01/16
Man to Horse Race	Prescott	10/01/16
	Doug Freeman, KV8TD coordinating	
Diabetes Walk	Prescott	10/15/16
	John Broughton, WB9VGJ coordinating	

Unless otherwise stated contact Patti, KD7VBG at kd7vbg@k7yca.org to sign up.

ADAW

Want Ads

WANTED:

I am looking to purchase an alinco DJ-G29T 222/900 MHz Dual-Band HT. If you have one to sell, please contact:
 Larry Stafford, N7WBU
 3527 S Chesin Drive
 Tucson, AZ 85730-2319
 email: TFDFFF@cox.net

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. \$485.00 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: Ken Jenkins, WB6MMV at kjenkins5623@gmail.com or Bob Kettler WA6MIO at rdkettler@msn.com.



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.



Apartment Dwellers' and HOA Residents' Stealth Antenna Solutions

Our October 18 meeting will feature a presentation by KD4ABB, Andy Keels, providing stealth antenna solutions.

Our meetings are open to the public and to nonmembers, as well as club members. This is one reason we have experienced such a robust growth in membership.

DriveTime Net Controls are Needed

If you are interested in running the morning DriveTime trivia net, please see Dave, K7AV@ARRL.NET. We currently have no backup net controls for our 7:00 A.M. through 8:00 A.M. weekday morning net.

Many thanks go to Dan, W7TWR for picking up the Tuesday slot vacated when Dave, K7AV was no longer able to anchor two mornings in a row.

Here are the folks who are currently serving every week:

- Monday: Jean, W4CIH
- Tuesday: Dan, W7TWR
- Wednesday: Dave, K7AV
- Thursday: Larry, WB7C
- Friday: Steve, KY7W and Andy, KD4ABB take turns.

Several Members Honored in August Meeting

Steve, KB7KWK missed the Organ Stop Pizza luncheon so he honored several people at the August club meeting.

Jeff Williams, W3MLC has been regularly donating money to the club for no special reason, and the Board voted to award him a Life Membership in the club.

Andy Keels, KD4ABB was recognized for his hard work in putting together a binder for each director and officer of the Board outlining the duties that need to be performed throughout the year. It was something that Club President Lloyd Watkins, KB7BEI wanted to accomplish 25 years ago.

Dan Karnes, W7TWR was recognized for joining the Technical committee. Dan brings both technical knowledge and good camaraderie to our club.

Dale Schmidt, N7QJK brings a fresh new look to the club website. He was honored for his hard work rebuilding both the club and SuperFest sites.

Larry Kuck, WB7C was named the club's "first" Club Historian by the Board. We had a gentleman with a WA3 callsign who summered in Pennsylvania, and that is the best I can do to remember our last Historian. He passed away

decades ago and the position was never filled until now. But he was not the first Historian. That title goes to Naomi Helsley, the significant other of the club's first President, Bill Falk, K7WJF who used to do a lot of chalkboard talks on radio theory, back 40 years ago when Larry joined this club



Jeff, W3MLC Larry, WB7C Andy, KD4ABB Dan, W7TWR Dale, N7QJK

Nominations Open for November Election

Please consider filling a small number of seats on the Board of Directors and send the President an email. Thank you!

Merchandise Can Be Purchased with the Club Logo

Visit the Cafe Press site at SHOP.SuperstitionARC.org to see the selection available.

Superstition SuperFest on Saturday, December 3 in Mesa

You may find our flyer elsewhere in the ADAW for full details.

Losing a Good Friend to Oregon

Andy, W7ATJ will be leaving Arizona for the state of Oregon, as an employment opportunity has come up, and when he bought in an HOA community here, he was not yet a ham with antenna farm desires.

I mention this here because Andy has been a good friend to me. He came out of Chandler on two occasions to pick me up to go to our Field Day once, and to pick me up here in eastern Mesa to go to the club meeting in town. I appreciate Andy's friendship and his generosity with the transportation.

Of course, Andy will continue to be a good friend. He just won't be in local commuting distance. I am sure he will still check in on our repeaters through EchoLink, but he will also be free to expand his HF radio horizons up yonder in the Northwest.

The Oregon amateur community will gain a good man. Of course, I won't be losing a good friend; he will still be in radio range! My best to you, Andy, W7ATJ.

- 73 - Larry, WB7C



Old Pueblo Radio Club INTERMOD

President's Column



Well, the calendar has confounded me again. The first OPRC meeting of the season after our traditional summer break, 14 September 2016, is scheduled for after the ADAW deadline. 'Hope all have had a good summer.

73 de Ron, N7SPW
President, OPRC

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

Superstition ARC Repeaters

147.120 MHz (+) 162.2 Hz - Usery *
448.275 MHz (-) 100.0 Hz - Usery
449.600 MHz (-) 100.0 Hz - East Mesa *
KB7KWK-L Echolink Node 538499 *

* - Linked Full Time and Carries all Nets (except 10-Meters)

Club 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 and AR Newslines.
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
Morse Code Class Net: Saturdays, 7:00 PM

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.

OVARC continues its growth and recently added 18 new members from its summer Technician Class. Testing was completed on July 12th when the club congratulated all 18 members upon their successful completion. All are licensed now and many are already on the air.

August 25th is The National Park Service Centennial. Like many other clubs planning to activate their local National Parks, OVARC plans to activate HP45 at The Tumacacori National Historic Park in the Santa Cruz River Valley just south of Tubac, AZ. In order to beat the heat, we plan to be on the air about 6:00 A.M. and depart about the time the park festivities begin at 10:00 A.M.. We have activated this site before and it's a very easy location to get to. Please stop in and say hello if you're nearby. For more details and directions, see the OVARC web site at www.tucsonhamradio.org

Upgrades to the OVARC repeater system are continuing. We have replaced a number of aging components.

MARANA IS RADIOACTIVE . . . On August 27th, the Repeater Committee convened to the Marana Town Center to install another O.V.A.R.C. Repeater. The installation was directed by the Repeater Committee's chairman, Gary Schmitz, KT7AZ. Using an outside third party to climb the tower, the first part of the installation was to elevate and mount a Telewave vertical antenna. With a gain of 7dB, the design is particularly tolerant of lightening strikes, making it ideal for tower mounting. Tightening the bolts on the tower, at an elevation of 90 feet, the LMR600 cable was routed inside the tower down to ground level. About 30 minutes later, the repeater was on the air and testing began. After a few level adjustments, the repeater was fully commissioned for use. A coverage map is now being generated, but the repeater is expected to have solid coverage from Rio Rico to Casa Grande. This brings the total population of O.V.A.R.C. repeaters to 7, which includes 2 meters, 70 centimeters and D-Star. Congratulations to the O.V.A.R.C. Repeater Committee for a job well done!

The OVARC Hamfest is November 12th, so mark your calendar and make plans to come down. We'll be at the same location as last year. We are on the hunt for donations from SK's, estate sales, or anyone else that has a saleable amateur radio-related item. Supporting OVARC with a tax-deductible donation helps out the club and it helps you on your taxes. See the OVARC website for details, or contact the club president Steve, W1SR at W1SR@arrl.net.

Hamfest Calendar

8 October 2016 - **West Valley Amateur Radio Club Hamfest** - hosted by the West Valley Amateur Radio Club will be held at St Clement of Rome Catholic Church, 15800 N Del Webb Blvd in Sun City. Hours are 7:00 AM until Noon. Set up beginning at 6:00 AM. Free Admission. Tailgaters/Vendors spaces \$10.00. Talk-In Frequency: 147.300 P1 162.2. Visit the web site at www.WestValleyHamfest.org for more details.

15 October 2016 - **2016 Kingman Hamfest** - hosted by the Mohave Amateur Radio Club will be held in the parking lot of the KRMC Medical Plaza, 2202 Stockton Hill Road in Kingman. Hours are 7:00 AM until 3:00 PM. Bring your own food and drinks. Contact Rick Cooper at 928.530.1671 or Bill Smith at 928.303.9857 for details.

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- (P1 136.5) & 145.210- (P1 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.

5 November 2016 - **Harkfest Tailgate Hamfest** - hosted by the Hassayampa Amateur Radio Klub (HARK) will be held at North Ranch Escapees RV Park, 30625 S Hwy 89 in Congress. Free Admission - Free VE Testing - Free Tailgate Sites (pre-registration required - n0daj1950@gmail.com). Prizes, Vendors, Arts & Crafts Show at Activity Center, Lunch will be served in the Activity Center. Overnight Camping (Full Hook-Up & Dry) is available and tailgating at campsite is permitted. Pre-registration for camping is required. Visit www.escapees.com/parking/congress to reserve. Talk-In: 146.620 (P1 162.2) or 146.580 (simplex). Contact Doug Jarmuth at n0daj1950@gmail.com for more info.

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 P1 156.7. Contact Steve Wood, W1SR at 520.906.1204 or email to nauset2222@yahoo.com for more information.

3 December 2016 - **SuperFest 2016** - hosted by the Superstition Amateur Radio Club will be held at Mesa Community College, 1833 W Southern Avenue in Mesa. Hours are 8:00 AM to 4:00 PM. Vendor set up beginning at 6:00 AM. Admission \$5.00 per person, 12 years and under free. (Each paid admission includes one door prize ticket.) Tailgate - \$10.00 per space. Grand Prizes (tickets \$2 ea), Hourly Prizes (tickets \$1 ea). VE Testing, ARRL Card Checking, K7A Special Event Station, GOTA Station, Fox Hunts, Great Food and Drinks, and Live Music by John J. KD8PC. For more information, visit the web site at superstitionsuperfest.org.

14 January 2017 - **Thunderbird Hamfest 2017** - hosted by the Thunderbird Amateur Radio Club will be held at Northwest Community Church, 16615 N 43rd Avenue in Phoenix. Hours are 8:00 AM until 12:00 Noon with vendor set up beginning at 7:00 AM. Commercial Vendors may also set up Friday night after 5:00 PM. General Admission: \$3.00 per person. Tailgate and Vendor: \$10.00 per Parking Spot. Door Prizes every half hour, VE Testing (exam fee \$15.00), and Seminars. Snacks and Beverages will be Available. Talk-In on 146.700 -600 KHz, 162.2 P1 or 446.150 -5 MHz, 100 P1. Email hamfest@w7tbc.org for more details. Sorry - this is a church/school property - no firearms, alcohol or drugs are permitted.

17 - 18 February 2017 - **2017 Arizona Section 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, 16 February, at 2:00 PM for camping. Admission \$5.00 per person. Talk-In frequency - 146.840 (-) P1 88.5 Hz. Check web site at www.yumahamfest.org for full details. Email contact: info@yumahamfest.org.

25 March 2017 - **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 7:00 AM until 11:00 AM. Set up starts at 6:00 AM. Free Admission and parking. Vendor/seller spaces - \$10 per space. Prizes, VE Testing, GOTA Station, ARRL Card Checking and Snacks. For map and information, visit the website at <http://www.k7rst.org>.

ADAW



Beginning DX - Part I

Interested in working DX – distant stations? Here’s how to get started.

For a station, you don’t need much – a basic one hundred watt HF rig and simple wire antennas. Just make sure the antennas are efficient. Easiest? Put up a 20-meter dipole. If it has good SWR, it is probably a good enough performer to start with. Just get it up as high as you can – at least 20 feet. If you can’t manage that, try 15 or 17 meter dipoles. For licensing, you only need a General class license. So, get your General or maybe even your Extra.

How do you actually do it? Many DX stations have limited English. So, they often prefer contests or just sitting on a frequency working as many stations as fast as they can. For the basic countries like France or Wales (yes, it counts separately), they are easy to work. Big secret: nobody cares if you actually turn in a contest log. This happens all the time. Just learn the proper contest “exchange” and go for it. This is by far the easiest way to run up a big score. Eventually, you will care about whether it is France, Guadeloupe, or something else. To get started, just work everything you can.

If you contact stations in contests, especially on bands like 15 and 20 meters (you can put up a “fan” dipole and work both bands from one antenna), you will start to learn about propagation. Basically, you’ll hear Europe and Africa in the morning, South America and the Caribbean throughout the day, and Asia and the Pacific just before sunset and (on 20 meters) into the evening.

Soon, you’ll hear what we DXers call a pileup. As a beginner, you will want to avoid those. There’s a lot of DX to be worked that is easy to do and on the same frequency you listen on. Just like a stateside HF net really. But you’ll soon realize that many stations that “should be” easy to work keep saying “up five” and don’t respond to you. What’s that all about?

When a DX station has many hams calling him or her, their strategy is to transmit on one frequency and then listen “up” – that is, to a different, higher frequency. Almost all HF rigs have two VFOs and can be put into a “split” mode that transmits on one frequency and listens on another. The DX will transmit on the lower frequency and you have to guess how far up (higher in frequency) the DX is listening. If you can figure that out and transmit there, your chances of being the next station the DX selects is high. If you guess wrong, someone else will win. If

CADXA Continued from Previous Column

you listen well enough, you may discover a pattern that enables a very shrewd guess as to where the DX will listen next.

Now, some really rare DX stations have howling pileups. Just avoid those. Look for one like Figure One.

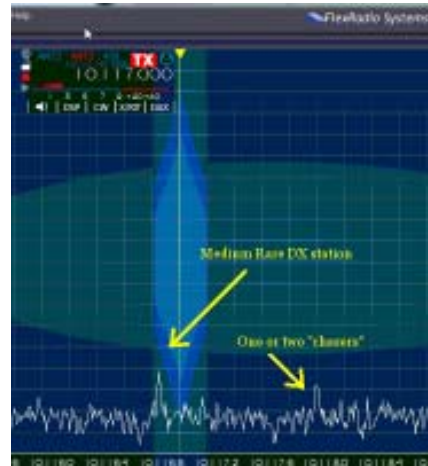


Figure 1 – Small Pileup

Here we see a “medium rare” DX station sitting on 30 meters, around 10116.8. Higher up the band at 10.118 is at least one station who thinks the DX is listening there. This is a CW snapshot, but the same idea applies to SSB or RTTY. You, the “chaser,” set your listening VFO on 10116.8 and try to put your transmit VFO on the “right” frequency (maybe 10118.2?) and be the next to make contact. But even with a small pileup, you may find it prudent to give up. When to know? When it stops being fun.

Once you have more experience, you can begin to deal with howling pileups like this one:

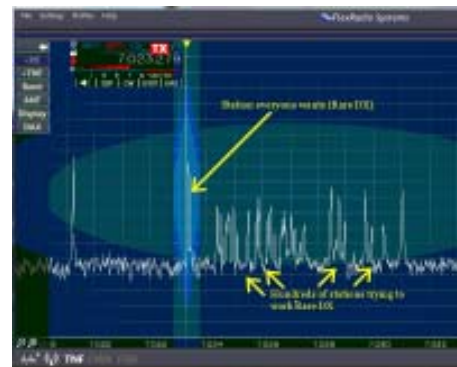


Figure 2 – Large Pileup

Beginners don’t enjoy these kind of pileups. Just tune the dial to something more manageable and focus on fun.

That’s it. You can have a lot of fun just working garden-variety DX until you have enough experience to go after the rarer stuff. And the CADXA will Elmer you so you can take on the tougher pileups when you are ready.

Continued Next Column

ADAW



Since my HF antennas are back on line, I have been having a lot of fun on 20 meters. I do not have a lot of time to play radio, but whenever I can, I listen to 20 CW and make a contact of two. I have noticed the old days of rag chewing seems to be gone. The contacts I have made lately have been in the hello and good by style of contesting. On 40 meters the contacts take a little longer before they brush me off with a 73. Maybe my code is not fast enough for them. I do not care. I just enjoy having anyone come back to me.

The September club meeting had a presentation by David Ray, AC7UB on QRP kits. Everyone at the meeting really enjoyed the slide show and the presentation on a Chinese QRP kit that costs only \$3.60. The kit is called Pixie II and is available on ebay. The kit comes with a printed circuit board, all the components and connections. The crystal itself would cost more than the whole kit. The assembly instructions are very weak, so David put one together that even I can understand.

Now you must understand my discipline is in architecture and not in electronics. But I have a strong interest in how things work. I have built a few kits starting with Heath Kits in the 50's. So step by step instructions help me to learn while I am building something. When the project is completed, I have always had a good feeling of accomplishment. In his presentation, David pointed out how easy it would be to build this kit. I can't wait to get one built and get it on the air. Of course, the radio is putting out about 1 watt on 40 meters so I will have to learn some patience.

David brought a few kits he has built to show us the finished product. They were great. At the end of his presentation the club members kept asking him questions about these kits and others. The questions ranged from acquisition of this kit, comparing to other kits, and testing. This went on for at least a half an hour. All were very interested in this neat kit. David finished the evening by offering to help anyone who needs help building this kit.

Now as we get away from the high heat of summer it is time to think about more outdoor activities. The club has been kicking around the idea of a club picnic in the near future. Suggestions are welcome. We also have a Saturday morning breakfast at the Denny's restaurant at the Pavilions. The time is around 8:00. Maybe some of the more ambulatory hams in the club would like to get together for a short hike north of town. Bring that new HT. You will be surprised how you can talk to Tucson on 3 watts or less.

The club has a VHF / UHF net every Tuesday evening at

Arizona Near Space Research is planning for the following flights this fall.

October 22, 2016 - CopaFest launch site Maricopa
November 19, 2016 - ASCEND! launch site Maricopa 2 balloons

We will assist Embry Riddle with their launch on November 15, 2016 from Prescott.

The pictures on the next page are from the Williams Hamfest. I forgot to include them in the last issue.

Hope to see everyone at the CopaFest!

Bill McLean, K7WWM
Treasurer Arizona Near Space Research
www.ansr.org



SARC Continued from Previous Column

7:00 P.M. The club frequencies are 147.18 with a tone of 162.2 and 440.00 with a tone of 100. Everyone is welcome to check in.

Well, that is all I have for now. Be well and keep on hamming.

Ed Nickerson WU7S
enickerson427@aol.com

SARC CONSTANTS:

SARC is a 501 (c)(3) club. That means all donations are fully tax deductible. Contact Paul Jorgenson, KE7HR at 602.992.8043 for information on estate donations and equipment pick-up.

For membership information, call 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.



Continued Next Column

The 2016 ARCA/Williams Hamfest Balloon Launch



ADAW



BEHIND THE SCENES AT W7ASC

Every shift at the Harkins Ham Shack brings a new experience. Each visitor enters the station with a unique set of expectations. The Volunteer on duty must be attuned to the visitor's attitude and find a way to move the demonstration along lines that create an impression that resonates with that visitor's world view. No one has suggested that this is an easy task.

Some visitors are quite young. They would like to push buttons with no real concern for cause and effect. The idea of using that button for other than just the feel and click is alien to their experience up to that point. Timing, duration, and rhythm must be introduced one step at a time, or the visitor never gets the message. Of course, no two youngsters are identical. To some, the idea of dits and dahs makes instant sense. Get on with my name! To some the mystery remains behind a cloud and the Volunteer/instructor plods on, hoping that somewhere along the line the concept will break through. That is why this Volunteer never invites a visitor to try Morse. Everyone who stops in the Shack reaches some degree of success. So we suggest that they "do," not just "try" (thanks, Yoda). That is, after all, what the signs says. "Do your name in Morse code."

A family stopped at the entrance to the Shack. Typical nuclear family/ Father, Mother and two young girls. The girls appeared to be about seven and four. Under the gaze of the proud parents, the older girl took up a pen and proceeded to demonstrate that she could, indeed, write her name in the boxes on the form. That task completed, she followed instructions to use the button (key) to form the dit, then the dah, and, finally, combine them to form the Morse A. A little light came on in her eye. The parents glowed with pride at what their offspring had learned in that brief moment. Now the Instructor/Volunteer filled in the code for each letter of the girl's name, and she proceeded to do it. A pause for further instruction about the need to separate the letters. Then her name could be heard, in Morse of course, across the gallery. Certificate awarded. Sticker/badge (I sent my name in Morse Code) proffered and affixed, by her, to a prominent place on her blouse. Session done? Her voice is too soft to work on the radio, so we wait for her to leave. But not so fast! She insists that her young sister must do her name. Well, we are there to serve. How will we do that? No need to worry. Big Sister becomes the instructor!

Continued Next Column

CARL Continued from Previous Column

Fills out the code sheet with little sister's name. Asks the Instructor to fill in the code.

Shows little sister how to do the dit, then the dah. Guides her finger to make the Morse A. Then on to the name in Morse, guiding the little finger through it all. Hands the form over to the instructor for validation and certification. Peels off a fresh sticky badge and places it on the little sister's shirt waist. Looks up for approval! (which she did receive from all observers). So – is the mission complete?

Not really. Little sister has a stuffed animal that must learn Morse code. Big sister does the entire protocol again for that animal. Without complaint or hesitation.

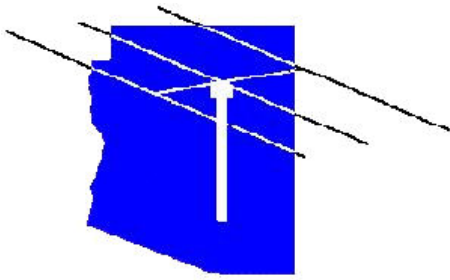
The family seems reluctant to leave the Shack. What else can we do for them? We talk a bit about Ham radio and present some colorful flyers. Since they are Science Center members, we invite them to return for a refresher. As the family walks on to other activities in the area, the girls turn to show those new Morse badges to their parents. The day is off to a great start in the Harkins Ham Shack. (Hint – that Volunteer could have been YOU)

The Great Roof Repair Project may actually be complete! Not really sure, but it was to start the evening of 29 August. Unless the Cosmos has taken an unusual turn, that is a date in history. This is a project with many pieces and many performers/managers. Let us explain.

The City of Phoenix owns the building that houses the Arizona Science Center. The roof also belongs to Phoenix. It has been up there in the Arizona sun for almost eighteen years. As is typical of flat roofs in this climate, it has developed a few flaws. The City wants to repair those flaws in order to protect the integrity of the building. But Phoenix does not have roof repair technicians on its payroll. Phoenix has issued a contract for the work to a local roofing company. That company, in order to stay in business, has a backlog of roof jobs, each with its own problems and imperatives. This job apparently requires access to both the inside and the outside of the roof. Special equipment must be used inside, and some exhibits are in the wrong location for that to happen. The Arizona Science Center has a relatively small exhibit staff. Their job is to keep the exhibits in repair. This small, though experienced, staff must now move some exhibits in order to allow the roof repair contractor to get that large equipment into the correct location. One of those exhibits is a HUGE motorized preying Mantis. That does not belong to the Science Center! It must be moved very carefully. The Science Center wishes to stay in operation and not shut down.

When the Ham shack was first installed, it was on the Science Center second floor. At that time, the decision was made to place the antennas on the roof! That roof now leaks and is the subject of the repair project. Back in the last century, the W7ASC volunteer corps was 20 years younger, fearless

Continued Next Page



MARCA INC.

No Report Received. ed



CHAPTER 16

BARRY M. GOLDWATER ARIZONA CHAPTER

I would like to welcome John Stevens, AB9JS from Prescott, our newest member to the Arizona QCWA chapter.

Our Arizona QCWA meeting was held on Saturday Sept 10 from 12:00 noon to 2:30 P.M. in the conference room at Coco's Restaurant, 9801 W. Bell Rd., Sun City, AZ. Start time was slightly later this time. The meeting was our annual business meeting, and it was kept short so that we would have time for a presentation. We planned to have two presentations. Both are very good presentations; Amateur Radio Operation at the South Pole and Lightning/Grounding.

It's election time. We had nominations for each of the officer positions. Each have accepted the nomination. They are as follows:

- Tom Fagan, K7DF President
- John Marshall, WA7BSR Vice President
- Clifford Hauser, KD6XH Secretary
- David Hanson, W7BJ Treasurer

Cliff, David and myself are current officers. Ray Tyrrell N6MY decided not to rerun for vice president. I want to thank Ray for his time as Vice President. John has been the webmaster and photographer for the last few years and done a great job.

If you have been a ham for 25 years or more, join the Arizona chapter of the Quarter Century Wireless Association. We have four luncheon meetings each year around the state.

Tom K7DF
QCWA AZ President



CARL Continued from Previous Page

and nimble. The roof, the platform for the antennas, is about sixty feet off the ground. Access is ONLY via a shaky ladder that is bolted to the outside of one wall. No other options exist. The building was not designed to be an antenna farm.

There is yet another factor. A crane is required in order to move equipment and materials up to the roof. A crane that can lift heavy stuff sixty feet in the air is expensive. It will be on-site for the shortest possible amount of time. The roof will be sealed and the crane and the contractor will leave.

Somewhere in this flurry of activity the Ham shack antennas will need to come down, be replaced, and possibly repaired. New cable will be pulled into place. Some of the original volunteers are now grandfathers. They have life insurance with "falling off of buildings" exclusions. Some have arthritis. The ranks of the available have thinned.

The above gives you some idea why we are unable to give you a firm schedule for Ham shack operations during this project. Volunteers will probably be there to teach Morse. EchoLink should work. There have been suggestions that we use mag mount antennas. Great idea, but the ham shack is all wood and plastic. We can reach the ARA network through the Chase tower repeater using a hand held. Count on the Volunteers to be resourceful! They are, after all, Hams!

73 de W4CIH Jean
jeanjol@hotmail.com 480-664-7353





This is a very special time for the Arizona Amateur Radio Club. Austin of the Red Cross has confirmed that our meetings for the rest of the year are scheduled for the large meeting room at the American Red Cross Building at 22nd Street and Highland. Members and visitors are welcome to attend all our meetings. Meetings are held the second Thursday of each month at 7:30 P.M.. Doors are open at 7:00 P.M. Our VE test sessions are held at this same location the fourth Saturday of each month at 7:00 P.M. Pre-registration for VE tests must be made to Gary Hamman, K7GH (602-996-8148) or Joe Cutitta, WØSL (623-215-2226)

Mark Kesauer, N7KKQ, has installed a repeater at the Red Cross building, 22nd St. & Highland. As Mark can verify, he picked one of the hottest days in Phoenix to do this. He will undoubtedly relate his experience with the repeater installation at the next meeting. Thanks, Mark, from all of us for your diligence in this project.

As you know, throughout 2016, Amateur Radio will be helping the National Park Service celebrate their 100th anniversary. Hams from across the country will activate NPS units, promote the National Park Service and showcase Amateur Radio to the public. The Arizona Amateur Radio Club has decided to operate from a national park as a group during 2016, but no definite decision was made at the September meeting as to when and where. Emails have been being sent between members all day trying to iron out the details, and it looks as though we will operate two stations as a group before the year runs out.

73,
Lori, WA7EDI



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SHORT SKIP

VE Test Sessions Reports

DeVry University Test Sessions

The next exam session is Saturday, October 1st, 2016. Exams start at 9:00 AM and all tests must be concluded by 11:00 AM. Please bring photo identification, \$15.00 test fee in check or cash (exact change only), original and copies of any current license, any Certificates of Successful Completion of Examination (CSCE) you might have, and a pen and pencil.

No report was received from the September 3rd session at DeVry.

West Valley ARC License Exams

Test sessions are held on the first Monday of each month, after the club's monthly meeting from 8:00 p.m to 9:15 p.m. at St. Clements' Church Social Hall located at 15800 N. Del Webb Blvd. in Sun City. Walk-ins are always welcome.

Please bring photo identification, \$15.00 test fee in exact change, original and copies of any current license, any Certificates of Successful Completion of Examination (CSCE) you might have, and a pen and pencil.

For more information, please call Joe Cutitta WØSL at 623.337.0040 or 623.215.2226.

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

The West Valley Amateur Radio Club is are starting a high-speed multimedia special interest group, and also mesh networking. If any is interested and would like to sign up, please let me know.

Bob KG7FIL kg7fil@arrl.net

Newbie Net

The "Newbie" net is held on the 1st and 3rd Friday's of each month at 7:00 p.m. on the NY7S repeater on Del Webb Hospital Sun City West AZ. Everyone is welcome. The net is to help get you started with the procedures and protocols used in amateur radio.

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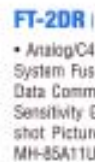
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