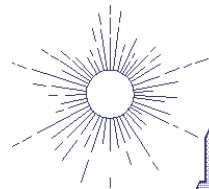


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



ADAW

Arizona Desert Aire Waves

Vol 41, No 7

July 2016

CLUB MEETINGS SCHEDULE

SARC

Jul 6th
Scottsdale Senior Center
7:00 PM

OPRC

Sep 14th
Marshall Conference Ctr
at Tucson Medical Ctr
7:15 PM

CARL

TBA
AZ Science Center
TBA

AARC

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

TBARC

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

ARDG

Every Wednesday
Phoenix Country Day School
11:10 AM

CLUB MEETINGS SCHEDULE

QCWA

June or July
TBD
Prescott
11:00 AM

SuperstitionARC

Jul 19th
Charles K Luster Bldg
7:00 PM

MARCA

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

ANSR

Jul 18th
via Skype
7:30 PM

OVARC

Jul 15th
Ascension Lutheran Church
7:00 PM

WVARC

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

ARA

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

MARA

Jul 30th
Barrow's Pizza - Maricopa
9:00 AM

YARC

Jul 7th
Mile High Middle School
7:00 PM

CADXA

Jul 7th
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	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	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	

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	520.235.7393
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	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

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 Siepman	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, 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 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	Bob Molczan, KA7VPR	president@tucsonhamradio.org
Vice-President	Steve Wood, W1SR	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	lwloen@gmail.com
At-Large	Mickey LeBoeuf	K5ML	k5ml@arrl.net

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

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OVARC EDITOR

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ADAW



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FROM THE EDITOR'S DESK

This month, we have some wonderful pictures of the activities that the clubs have been involved in, including pictures of the 2016 Prescott Hamfest that was held on June 10 and 11. Did you make it to the hamfest? If not, you missed a really nice event. The facilities were wonderful and the temperatures outdoors were very pleasant, especially for us “desert dwellers.” The Yavapai Amateur Radio Club and the Embry-Riddle Amateur Radio Club did a great job with this one. From what I hear, they plan on having another one next year. Watch for details.

The next event in Arizona is the ARCA/Williams Hamfest on July 22 thru 24 at the Rodeo Grounds in Williams. There’s a full slate of presentations and meetings on both Friday and Saturday, along with the usual tailgaters and commercial vendors. A no-host hospitality suite will be held on the grounds on Friday evening and everyone is invited to join in the fun. Beverages of the non-alcoholic variety will be provided as well as snacks and excellent conversation.

On Saturday, the Arizona Near Space Research group will launch a balloon from the hamfest grounds at 9:00 A.M. Live video feed and tracking will be available at the ANSR booth in the main hall. Two cross-band repeaters will be flying on this balloon as a test for future flights. For all the information and some spectacular photos from their May flight, check the ANSR column on page 17.

After a full day of “hamfesting” and presentations, plan on attending the annual BBQ dinner hosted by the Railside RV Ranch crew. The food is always wonderful and plentiful, and the company is great! There’s musical entertainment, too. The annual ARCA awards for Ham of the Year and Young Ham of the Year, and this year’s ARCA scholarship will be presented after the meal. It’s a perfect way to end the day.

Sunday, you’re in for a treat - an excursion to the Grand Canyon aboard the Grand Canyon Railway. There’s entertainment during the trip and some great scenery. It’s a wonderful way to visit the Grand Canyon without all the hassles of traffic and finding a place to park once you get there. Once you’re at the Canyon, there’s plenty of time to wander around and enjoy the vast expanse of the Canyon, partake of some delicious food or delicacy, or shop at one of the numerous gift shops. Or . . .

Have you heard of National Parks On The Air (NPOTA)? To help the National Parks Service celebrate their 100th Anniversary hams from across the country travel to one (or more) of the National Parks to “activate” the park, promote the National Park Service and showcase Amateur Radio to the public. As an added bonus to your trip to the Grand Canyon, you can join the fun. The Northern Arizona Amateur Radio Club will be setting up at the Grand Canyon so that you can take a turn “activating” the park and get YOUR name in the log. The

Continued Next Column



Emergency Communications Since 1961

SHORT SKIP

No Report Received

ADAW



Amateur Radio Development Group

No news this month.

ADAW

Editor Continued from Previous Column

site will be set up right near the spot where you exit the train. Check it out!

After the ARCA/Williams Hamfest, Arizona takes a “breather” from hamfests. The next one in Arizona won’t happen until October. But not to worry. The Duke City Hamfest/ARRL New Mexico State Convention/ARRL Annual Meeting will be held in Albuquerque, New Mexico on August 12th, 13th and 14th. It will be held at the Marriott Pyramid North Hotel and special rates have been negotiated with the hotel. This growing event is worth checking out.

That’s all for this month - Stay cool.

73,
Chris, N7PVL

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.

July Test Sessions

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

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

Jul 4th - AARC & WVARC -- 8:00 PM

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

Jul 7th - CARBA -- 7:00 PM

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

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

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

Jul 9th - 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

Jul 12th - Radio Society of Tucson -- 7:00 PM

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

Jul 13th - 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.

Jul 16th - W7GAA -- 10:00 AM

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

Jul 16th - Un-sponsored -- 10:00 AM

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

Old Pueblo Radio Club INTERMOD

President's Column

On summer break. No news this month. See you in September.



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



Test Sessions Continued from Previous Column

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

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

Jul 21st - Thunderbird ARC -- 6:00 PM

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

Jul 23rd - ARCA/Williams Hamfest & CRC -- 9:00 AM

Railside RV Ranch Clubhouse, 877 E Rodeo Rd, Williams
 Contact - Roderick Martin 928.527.1139

Continued Next Column



TBARC Continued from Previous Column



We talked about it last month, and now we've got photographic evidence of the incredible technician class license course on the west side and how some intrepid souls on the west side are spending their evenings. Thanks to Bob KG7FIL, for the pictures - and Gary WK7B for the education! We had more than fifty students in the classroom . . . that's got to be close to a record for the Valley!

Field Day is going to be happening right around when ADAW comes out. So - just in case it comes out before the fourth full weekend in June, we invite you to join us in Flagstaff for some contacts where it's cooler and higher up. We'll be hosting the Northern Arizona DX Association as well - coming together for an even bigger party. Directions are on the club web site, w7tbc.org. If ADAW comes out after Field Day, well . . . I know we'll have had a good time!

There's an interesting fact about the Northern Arizona DX Association: their club call is W7TB. In prior years we have always used a member's call for Field Day, because having W7TB and the Thunderbird call W7TBC operate in the same city is just too confusing. Because of the arrangements, this year we're able to run with the club call.

If you came to the June meeting, you might have noticed we've got a new Membership Coordinator. Say "hi" to Clair KG7MAJ - he's stepping up to take some of the load off of our treasurer Darren AF7CO - and off of me as well! Thanks Clair! I know one of Clair's priorities is to make sure email addresses, phone numbers and mailing addresses in the roster are accurate. If you haven't checked for a while, download a copy of the roster from the Members Only section of the club website and make sure things are as they should be. If not, let Clair know!

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 July the ever-popular Chuck Adams K7QO will be talking about "Kit Building 101: A New Teaching System." See you there!



Andrew Cornwall
KF7CCC
kf7ccc@arrl.net

Continued Next Column





At the June meeting of the Arizona Amateur Radio Club, we went on a whirlwind trip with Ingrid, W7ISG, and Reinhard, DL1UF, via their spectacular photos. Ingrid activated 44 National Park units on this past trip to the East, but overall she has been on the air from 78 Park units so far this year, of which 64 were unique units. Their photos not only verified these activations, but also they made us realize once again the beauty of this wonderful country we live in. Sometimes our daily involvements make us forget the beauty that surrounds us. Their photos and commentary renewed some of the history we may have forgotten. They showed us the true spirit of ham radio. Some nights were spent in their little tent in remote areas full of endless beauty. Reinhard notes that this is the same tent that he got second hand 36 years ago.

Along the way what could be more pleasant for the Geisslers than a stop at W1AW!! This indeed was a whirlwind trip for them, but we are not even half way through 2016 at this writing. I expect that more will be added to this adventure in the next six months, and I'm sure you will hear about it.

Field Day planning was also an important part of the meeting. The AARC is looking forward to this major event.

--Lori, WA7EDI



Reinhard, K7RGG and Ingrid, W7ISG Geissler



The June ARA General Meeting is the Thursday before ARRL Field Day, so hopefully everyone can make it. We're excited to have Steve, W4YHD visiting to present on the HF Active Auroral Research Program.

REMINDER: The ARA does not hold a General Meeting in the month of July.

Instead, the ARA will have a table at the ARCA Williams Hamfest on July 22 - 23. Stop by and say "hello." Lance KW7LH will be doing a similar presentation on Station Monitors as his presentation at our May General Meeting. If you missed it in May, be sure to catch it at the hamfest in July.

Repeater problems and interference are inevitable, whether it's on a single repeater or the larger linked systems. It's half way through the year and our repeaters have had their share of problems. Please help us when you hear anything abnormal or malfunctioning on one of the ARA systems. Please take the time to read the Dealing with Interference page on our web site, <http://w7ara.org/z/Interference.aspx> Then, when you hear problems, please take the time to submit an interference report.

ARA Interference Report Form: <http://w7ara.org/public/InterferForm.aspx>

Virgil K7VZ
ARA President



Club Badges by N7KKQ

Custom CNC Milled Badges and Nametags
Fine Detail - Many Styles and Colors
Club Logo Artwork Included
Pin or Magnetic Clasp



Mark, N7KKQ - 937-424-9069
markk.tec-paq.com



In any organization, ham radio clubs included, 5 percent of the membership ends up doing 95 percent of the work. This is most evident at MARA as we work on our plans for the 2016 ARRL Arizona State Convention.

Before I got involved with our Maricopa hamfest, I didn't think much about the planning. All of the times that I've been at hamfests before, like most people there, I just walked around and bought stuff that I didn't really need with money that I couldn't actually afford to spend. I know others do the same thing because I keep seeing the same Collins KWM2 and Yaesu FT 101 at different venues being sold by different tailgaters. I usually pick up a few things that I could probably get on eBay for less money and risk a bad case of food poisoning at the roach coach.

I almost bought a life membership at the ARRL booth once until I did the math and figured I wouldn't be around long enough to make it pay out. I've stood in line at the portable toilets that, once inside, I could swear they've been sitting there for a month. Hamfests have become routine, but we all keep going anyway. Maybe it's the quest for something new, or the off chance that we'll run into a smoking hot deal on our dream rig, that keeps us going back.

Whatever the reason, this year's Arizona state convention will be different. How, you ask? Well, no roach coaches. There will be a variety of food venues and restaurants to choose from. Seminars will be held in formal meeting rooms. We will have movies outside after dark, a bowling alley, laser tag, a 14-theatre cinema, and a whole host of other entertainment options that will keep the XYLs and kids occupied while you search for that elusive deal or attend that compelling seminar.

We will have a raffle for a variety of prizes that are yet to be determined. Oh, and check this out: Admission is FREE.

Oh, and those porta-potties that will clear your sinuses from ten yards away? They won't be there. We will have access to clean, comfortable, restrooms with indoor plumbing. And if you're worried about spending too much time under the Sonoran Desert sun, we have an air-conditioned indoor vendor area.

This is a hamfest you won't want to miss. It's our second on for the Maricopa club, and, since we're still in the planning stages, we could use your help. Even if you're not a member of our club, if you're aware of tail-gaiters, vendors, or speakers that you would like to see us invite, send us a message and let

Continued Next Column

Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Barnburner Mtn Bike Race	Kendrick Peak	09/10/16
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
Yarnell Fire District Memorial Run	Prescott	06/04/16
15 Operators Needed from 6:30 a.m. to 10:30 a.m. MST		

Contact Doug Jarmuth, N0DAJ at 928.685.3328 (H) or 928.231.2616 (C) or email n0daj1950@gmail.com



MARA Continued from Previous Column

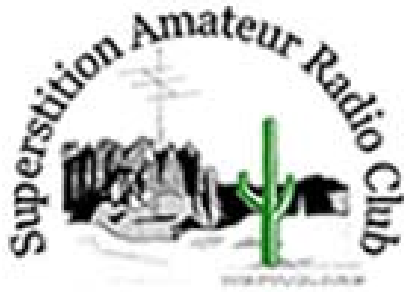
us know. Our e-mail is info@copahams.org.

Mark your calendar for October 21-22, 2016. Our hamfest and state convention will be at the Ak-Chin UltraStar Multitainment Center. And yes, there is a hotel and casino right next door.

Now, back to the task of planning parking, permits, insurance, contacting vendors, etc. Next time you're at a hamfest, thank one of the organizers for all the hard work. Also, check the guy at the roach coach and make sure he's wearing gloves. Those porta-potties don't have running water.

Steve Miller, W6SDM





**CHAPTER 16
BARRYM.GOLDWATER ARIZONA CHAPTER**

No Report Received



Third Annual Independence Day Net July 4 at Noon

Happy Independence Day! At 12:00 Noon on July 4, JD, KF7VOX will conduct the third annual reading of the Declaration of Independence on the 147.120 and 449.600 on-air and KB7KWK-L online. Each participant in turn will read a section of the Declaration, and the overall effect is a complete reading in several voices

You are urged to contact JD in advance (KF7VOX@cox.net) so he can establish the roll call order and each successive participant will have a copy of the portion to be read, to become familiar with it before the net.

July 19 Meeting Program

Ray Sara, W7USA of Phoenix is scheduled to present National Parks On The Air for the Superstition Amateur Radio Club General Meeting on Tuesday, July 19 at 7 P.M.. My notes indicate this to be tentative, so please check the club website for the latest.

July 23 at Noon is Organ Stop Pizza

Now, over at the Organ Stop Pizza in Mesa, where we sit inside the Wurlitzer Pipe Organ, so-to-speak, Lew Williams, Organist, will come in on his day off to entertain the Superstition ARC members and guests on Saturday, July 23. Come on out and join us!

There are drums and cymbals on the upper left and a piano on the upper right as you face the organ console, and the lowest notes are from the long pipes under the floor.

We arrive at Noon and it goes until about 2:00 P.M. Please bring cash. Cost is \$8.00, which includes pizza and salad. Drinks are extra.

ARRL Field Day June 25 and 26

This July issue may be out in time for Field Day. It begins Saturday at 11:00 A.M. and will run 24 hours, because we will set up our antennas in advance. Our coordinates are 34.632104, - 111.261096. For the latest, please see the website.

Larry Kuck WB7C

Want Ads

WANTED:

I am looking to purchase a (WT3) Programmed 33cm (927 MHz) Radio. If you have one to sell, please contact:

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

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 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
- 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.superstitutionsuperfest.org for the latest information.

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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: "Fun of CW Operating" (August), and Software Defined Radio Project (Sept).

While all the numbers are not yet in as of this writing, Prescott Hamfest 2016 at ERAU appears to have been a substantial success. YARC and the Eagle Amateur Radio Club of Embry-Riddle Aeronautical University hosted the event.

YARC has begun a series of licensing classes for people interested in Ham radio. Just completed was a 10-week General license class. A Technician license class will begin in August prior to our September test session. In addition, YARC offers "HamTestOnline" subscriptions. YARC also offers bimonthly license testing. Test sessions coming up are July 9, Sept. 10 and Nov. 12.

We are looking forward to Field Day and hope to hear you on the air. Look for us as W7YRC. Following Field Day, we will once again operate the "Granite Mountain Hotshots Memorial" on June 30. Listen for our special call N7GMH.

ADAW

The 2016 Prescott Hamfest (in pictures)



Continued Next Column

Hamfest Calendar

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.

15 October 2016 - **2016 Kingman Hamfest** - hosted by the Mohave Amateur Radio Club. Details to follow.

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@arri.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 located at 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 (PI 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 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.



ORO VALLEY AMATEUR RADIO CLUB TOP SCORE IN 7TH AREA QSO PARTY

The Oro Valley Amateur Radio Club participated in the 7th Area QSO Party on May 7-8. Coordinated by the club's Chief Elmer, Tom W8TK, club members were able to schedule their desired operating time at the operating site, Tom's QTH. Signing the club's call, W7AI, the operators successfully achieved the top score in the Multi-Single Low Category.

Congratulations to the following OVARC Members that got on the air during the event:

K7ADX - Scott
K7AZT - Paul
K7EAZ - Ken
K7ROG - Roger
NU7Y - Quinton
W2HZ - Fred
W8TK - Tom

Here are the club's actual results:

Band	Mode	QSOs	Pts	Mult
7	CW	126	378	24
7	LSB	122	236	1
14	CW	353	1059	12
14	PSK3	1	3	0
14	USB	146	276	22
21	CW	69	207	6
Total Both		817	2159	65
Score: 140,335				
1 Mult = 12.6 Q's				

Many thanks to Tom, W8TK for organizing and chairing this event for the club!

ADAW

SCOTTSDALE AMATEUR RADIO CLUB, INC.



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



The June general club meeting was focused on the annual Field Day outing. This year the field day organizers have decided to go to the Rim Country for a change. For the last few years we have held the event in town with air conditioning and first class restrooms. We had a lot of fun working with new hams and helping them with their first HF contacts. We had plenty to eat and drink, and great conversation to enjoy.

This year we will be camping in the forest of majestic pine trees. Most of the people attending will show up a day or two before the event. Everyone gets their camp site in order and then to the planning for antennas and stations. The generators are located and tested.

Field day is always noted for the food, the comradery, and the “unexpected.” The food and comradery are always great, but it is the “unexpected” that we all remember from years past. Something happens, be it equipment failure, weather, and even wild animal intrusions, during the day that we remember for years to come.

Or course, this year we will have nature’s air conditioning and more primitive restrooms, but we will have all of the fun with setting up the equipment and enjoying great conversations with good friends. Helping new hams make those contacts is our mission. There is also the pure enjoyment for fresh forest air and the smell of the pines. Once the antennas are up and tested, everyone who has been to other field days begins to tell stories of other great outings.

Here are a few pictures of the Rim area that was chosen for this year’s Field Day. Access to the site is very good on paved roads with good signage. These pictures are courtesy of the 4x4 Ham Club I believe they are joining with us this year. There will be many good stories and pictures next month about this event.

So far this summer the HF bands have been fair with occasional wide-open periods. But when Field Day begins there are always thousands of stations jamming the bands. What a great time to make as many contacts as you like and can stay awake for. And new hams, with a little bit of encouragement and help from us old timers, can experience those great feelings of each contact. I love Field Day!

This is a reminder to all club members. The July club meeting is our annual Ice Cream Social. The Field Day event will be discussed and there will be pictures and stories galore. I look forward to seeing you all there.

The club also has several new events that are in the planning stage. You can always check the club web site for this information. The web site will also post your pictures and stories of your own outings. Everyone can enjoy reading about them. The web site is: scottsdalearc.org

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



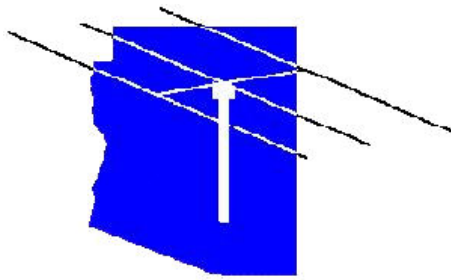
SARC CONSTANTS:

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



MARCA INC.

This might make the pre Field Day July publication. If not, it may read as an ironic comedy. Field Day 2016 preparations are well underway. May was planning, preparing, and assigning volunteers to all the operational of Field Day. May & June is our time to hone operating skills, like CW and phone. Digital modes are not necessarily the fastest point accumulators, but it can be competitive with practice and the right software.

MARCA plans to operate 2A. Our location is the Gentry Fire Tower Camp Ground, a few miles east of Forest Lakes and a few miles south of Black Canyon Lake. Tall ponderosa pines provide plenty of height for 6 or 7 dipoles covering the HF bands in multiple directions.

This year we've gathered the courage to tackle the Social Media Coordinator using Facebook. This should be an interesting challenge for our Social Media volunteers dealing with all our activities and of course internet connectivity. Our Facebook page is <https://www.facebook.com/MARCA-W7MOT-1724147384537226/timeline>. As you can see, our first challenge is the title. But check it out, as of beginning of June, everyone is just beginning the learning curve.

What makes our Field Day is the Social aspect of getting together executing our talking skills. The highlight is the BBQ Dinner and home cooked breakfasts of pancakes, bacon, and eggs. We have an excellent Chef and plenty of helpers. Gourmet coffee is available almost any time.

As of June 10th, all MARCA repeaters are operational. 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 the simple & quick online report at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>.

We did have some issues with the DStar Gateway Server early June. It was indirectly reported, but fixed after a few hours. Problem was HTTPD service stopped on the server, not affecting any of the DStar repeaters and user features, but prevented viewing the Gateway Status Page and user login / registration page. Remotely doing a soft reboot of the server restored Web Services.

W7MOT-37, 443.150 MHz, Fusion is on the air working both digital & analog (Listed on MARCA website Repeater Map under Scottsdale GD - General Dynamics Scottsdale at Hayden & McDowell).

Continued Next Column

MARCA Continued from Previous Column

SDR radio has captured the interests of many members. Presentations can be downloaded from our website Library. This issue, there hasn't been anything much written, just a lot of playing. Scott Cowling, WA2DFL, has done a series of SDR introductory articles as well as beginning FPGA programming articles in QEX, excellent for those looking to improve their computer and programming skills. And all the software needed is free.

MARCA has several APRS and digi-peaters on several mountain tops across central Arizona, W7MOT-8 on Mt. Elden, W7MOT-10 & 11 on Mt Ord, and W7MOT-3 & 4 on White Tank. The W7MOT A, B, & C Dstar repeaters on White Tank also do APRS. Why mention APRS? APRS is alive and well. It's not new and fancy like Fusion, Moto-Turbo, or Dstar, but is just as complex with features applied from Public Service to Ballooning to Voice Repeater Coordination. Not to mention all the smart phone applications getting in on the action for many non-emergency (loss of public networks) mixed operation applications.

Our MARCA website is www.w7mot.org .

Norm Johnson, aa7oo
Secretary MARCA

ADAW

Real Estate

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

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

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: Ted Walker, KB5OF at kb5of@cox.net.



The June 11th Prescott Hamfest was a very active one for the Mingus Mountain Repeater Group. President Bob Sitterley, K7POF, did an excellent job of designing an MMRG identification setup for our booth, a banner mounted on a support system. It was an attractive way to let the attendees know that the MMRG was there and that the MMRG was celebrating its 42nd year in 2016. The booth was manned (and Womaned) by President Bob Sitterley (K7POF), VP Ray Tyrell (N6MY), Secretary Lori Cripps (WA7EDI), Board Member Jerry Roberts (KB7CN), and Board Member/Historian Linda Sitterley (W7POF). Handouts with information about the organization were distributed.

MMRG members also provided interesting and informative seminars at the Prescott Hamfest. Tomy and Debbie Ivan informed us about the NTS, the National Traffic System. Tomy (KF7GC) has been the Arizona Section Traffic Manager since 2008 and the ATEN Section Manager since 2005. In his role as NTS Training Instructor as well as Traffic Manager he has been an integral element in maintaining this highly organized system. MMRG member Don Bauer (WB7TPH) not only presented the seminar “Why Ham Radio? –An Introduction into the World of Amateur Communications,” but he also conducted a Saturday morning VE test session. Dixie Zappala (N7OYY) enlightened us with her session “Women in Amateur Radio.”

Many other activities provided an opportunity to learn, explore, buy, and enjoy. There was something of interest for everyone. Some attendees came from a mile or two away from Emory Riddle; others came from more distant locations. The weather could not have been better. The Prescott Hamfest was a success, and MMRG members helped make it one.





Arizona Near Space Research is working on plans for our next launch at the Hamfest in Williams, a new trailer for hauling and storing supplies, and plans to fly a crossband repeater from Ft. Sumner on the HASP flight in early September. (For more information, see

http://sites.wff.nasa.gov/code820/news/news_article37.html).

At the ground station in Williams, live video feed from the flight and tracking of the flight will be available. Two crossband repeaters will be flown, testing for future flights. One will have an input frequency of 146.56 using CTCSS tones 162.2 and output frequency 445.925 and the second will Input frequency of 147.56 using CTCSS tones 89.1 and output frequency of 446.025. We will be testing different antenna systems and are looking for volunteers - anyone wanting to help test, when at altitude. In the past, hams from Las Vegas and El Paso have connected to the repeater. Flight launch will be 9 a.m. MST July 23rd and the repeaters should be at altitude from about 9:30 a.m. to about 11 a.m.

Pictures are from launch and recovery of ANSR-100 in May.

Respectfully submitted,

Bill McLean

Treasurer Arizona Near Space Research

www.ansr.org

K7WWM



Continued Next Column



CADXA Continued from Previous Column

Keep an eye and ear on 6m in the coming weeks. Let's hope for a few more of these rare multi-hop openings on 6m.

Speaking of 6 meters, two of our club members will be QRV from Jamaica on VHF between June 23 and July 5. Watch for Larry, WO7R, operating as 6Y7R and Ned, AA7A, operating as 6Y5AZ. They will be active on 6m and 2m EME (moonbounce) as well as the HF bands.

The July CADXA meeting (on July 7th at 7:00 p.m.) will feature the 3XY1T video from the Italian DXpedition Team led by Silvano, I2YSB. His team has conducted many successful DXpeditions over the years and this one was responsible for over 90,000 QSOs earlier in 2016. Come join us in the cool confines of the PERA Club. There will be leftover BBQ chocolate cake from KY7M's freezer included in the meeting refreshments.

2-Meter Repeater Update – A commercial grade antenna was located by K8BN and W7USA. It will soon be installed for the CADXA 2-meter repeater, K5VT/R, on 147.32 (+) (no PL tone). Once the antenna work is completed, we are planning to have a weekly net at 0200Z (7:00 p.m. local time) on the Thursday nights when there is no club meeting. Stay tuned for more information.

I hope to see some of you at the ARCA/Williams Hamfest, July 22-24. Check the ARCA website for details – www.arca-az.org. QSL card checking for DXCC including 160m will be available there.

73,
Lee, KY7M
CADXA President

ADAW



Thank you (ma halo) to Fred, NA2U, for his aloha presentation at the June meeting about operating from Volcano (the town) on the Big Island of Hawaii. It was good to learn more about the Hawaiian Islands and to see the amazing station that Max, KH6ZM, has assembled. Fred has certainly done well in both DX contests and the non-contest pileups every time he has visited Max's station.

As predicted in the last newsletter, 6 meters has had some exciting sporadic E openings over the past month. The ARRL June VHF contest yielded plenty of North American grid squares and a few stations outside of the USA and Canada. However, the real fireworks came the day after the contest on Monday, June 13th. The best summary was in an email on the CADXA Yahoo Group from Ned, AA7A, excerpted here:





It seems like there are one or two days a year when we get an opening to EU on 6m multi-hop, sporadic E. Today might have been that day. It started for me at 1503Z when I heard F6FRR start to burble up out of the noise. The DX maps that present the paths for 6m openings were looking very promising, but there were no reported contacts out to the west up to that time.

The band stayed open for the next three hours, which is the longest EU opening I have ever seen out here. I managed to log 19 EU stations over that time in 10 DXCC entities (F, EA6, GM, GD, G, ON, PA, CT, EI and DL). My local skimmer picked up a few more callsigns in a few other DXCC that I never got around to working. Also heard, but not worked here, was EA and EA8.

One thing that was quite unusual in this opening was the fact that while hearing the EU stations, I was not hearing any stations in between. The band was clearly open to the Midwest since I was hearing many of the usual beacons in W0 but there were literally no stations copied in the band from 50080 to 50110 other than EU stations. Apparently, we had what is called a chordal hop in our path where there is a reflection in another Es layer where signals never reach the ground. Either that or everyone in the Midwest has antenna patterns with 100 dB front-to-back. I cannot remember ever hearing anything like this before.

Continued Next Column

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W7GNE

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(480) 945-7020 (FAX)

If anyone is considering a major radio shack, workshop, addition or going into business for yourself, I am offering professional Electrical, Mechanical and Plumbing Engineering services to radio club members at a 20% discount for residential property, and 10% discount for commercial property. Talking is always free.



W7ASC - Not your Granddad's Ham Shack!

The Center for Amateur Radio Learning (C.A.R.L.) has operated a demonstration Ham radio station for more than 20 years, in a variety of Phoenix locations. It started with a different Call Sign, but C.A.R.L. was able to obtain the current Vanity call after the station moved into the Arizona Science Center, the current location. Some of the founders can still be heard on the air from W7ASC when they volunteer. The station is operated by volunteers, of course. The plan is to operate during all hours that the Science Center is open, but the staffing scheduler has no authority to draft operators. There are some times when the station is dark. Many of you who are reading this newsletter have had a QSO with W7ASC, but not many have actually visited the third floor (initially the second floor) of the Science Center. Tucked away in one corner of the My Digital World gallery, under a metal canopy that reads "Harkins Ham Shack," there it is. Were it not for the sign, you might not realize that it is, indeed, a working Ham station. At that modest spot, many visitors have had their first experience with Morse code. And, for that matter, with Ham radio! But that is why W7ASC is there.

The Station has two complete and independent operating positions, although the equipment changes from time to time as volunteers bring some of their own gear into the shack, there is usually a decent HF rig, a VHF/UHF rig, a computer on each side and a Morse code key embedded in each operating table. The software is Ham and communication related. Echo Link? Of course. PSK31 is there. At least one rig is controlled by Ham Radio Deluxe. The antenna farm, on the roof, is reasonable and probably better than the average Ham can install. On one side there includes a complete Ham TV installation.

The Station, however, does not exist for the entertainment of the Volunteers. Now we come to the inside information, so pay attention. Operating priority is with the visitor. For some volunteers, this is a difficult change from the home station. Picture this: you are a volunteer, sitting at one of the positions. It is early and the Gallery is devoid of visitors. The bands are hopping! This is your chance to snag some rare DX. And there it is. There are only two legal stations in Lower Slovakia, and one of them is just starting to return your call!!! A Mother walks

CARL Continued from Previous Column

up and starts to tell her second grader how this is a CB station and Morse was invented, during WW II, as a secret way to communicate.

So, Volunteer, what do you do? Send that pair away so that you can brag about your DX catch? Sadly, but knowing your duty, you ignore that rare Lower Slovakian station and turn to the visitors. You start to help them, correcting the misinformation. Both Mom and son learn the real story about Morse. They do their names in code, receiving a Certificate and that special sticker. You have their attention, so you put them on one of the repeaters for a short QSO with Sierra Vista. (Forget the fact that Manchuria is pouring in on Ten). That never happened in your granddad's Shack, did it?

Some visitors are so intrigued by this simple demonstration that they want more. You, the Volunteer on duty, show them many of the other operating options that you know how to invoke. It often happens that other visitors, seeing some action, draw near and soon you have a crowd. Your fellow Volunteer is surrounded by children and adults who are busy with the code key. Questions fly. You hope that you are providing accurate and interesting responses. You look up. The day has flown by and it is time to QRT. Just as you start to pack up the station, a few young visitors, having heard about Morse code, want a turn at the key. So you drag your feet about the close down, giving a few more visitors a thrill that they never expected to experience. Then you are home, answering questions about why you were late! You reflect on the day and think about all of those visitors who now know that W7ASC is NOT CB and that Ham radio is a public service. Some of those visitors will be clutching the flier that tells them about the upcoming Technician license classes. Others will have selected one or more of the handouts. You will know that some of those visitors will be back, with more questions, including the one about how they can join in the fun. With their own license. There is a great feeling to be experienced when a visitor dashes off, returning with a friend or a family member, urging them to do the code. Now you know why you volunteer. Why it is so addictive. The inside story of W7ASC. Or, at least, some of it.

You, too, can get in on the fun at W7ASC. Call Bob KG7QJ at 480-961-1109. He will send you the simple application. Once you have been accepted by Arizona Science Center, Bob will find some time that fits your schedule. There is no hard and fast rule about volunteering. Make it convenient on yourself. Give it a try. You will probably find it to be very different from any other Ham experience.

73 de W4CIH Jean 480-664-7353

Continued Next Column

ADAW

HAM RADIO OUTLET

14 STORE BUYING POWER!



FTDX5000MP Limited | 200W HF + 6M Transceiver

- Internal Power Supply • Two Totally Independent Receivers • Super Sharp "Roofing" Filters • High Performance Yaesu Custom-designed 32-bit Floating Point DSP • True Analog Meter Precision



FT-450D | 100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift **Call For Pricing!**



FTM-400DR | 2M/440 Mobile

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



FTDX3000 | 100W HF + 6M Transceiver

- 100 Watt HF/6 Meters • Large and wide color LCD display • High Speed Spectrum Scope built-in • 32 bit high speed DSP /Down Conversion 1st IF **Call For Low Pricing!**



FT-857D | Ultra Compact HF/VHF/UHF

- 100w HF/6M, 50W 2M, 20W UHF • DSP included • 32 color display • 200 memo • Detachable front panel (YSK-857 required) **Call For Our Low Price!**



FT1DR | 144/430 5W Digital Transceiver

- C4FM/FDMA • 1200/9600bps AX.25 APRS & GPS Recvr Built-in • Dual Band Operation w/Dual Receivers (V-V/U-V/V-U) • Wideband Receiver/AM Bar Antenna/Aircraft Receive • 1266 Memory Channels w/16 Char Alpha Tagging **Also Available in Silver!**



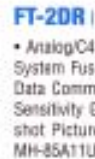
FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - 55B/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/4440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP • 160-6 meter high speed automatic antenna tuner



FT-2900R | Heavy-Duty 75W 2M FM Transceiver

- Massive heatsink guarantees 75 watts of solid RF power • Loud 3 watts of audio output for noisy environments • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users



FT-2DR | C4FM/FM 144/430 MHz Transceiver

- Analog/C4FM Dual Monitor (V-V/U-U/V-U) • System Fusion compatible • 1200/9600 APRS Data Communications • Integrated 66ch High Sensitivity GPS • Wide Band Receiver • Snapshot Picture Taking Capability With Optional MH-85A11U



VX-8DR | 50/144/220/440

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



FTDX1200 | 100W HF + 6M Transceiver

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



FTM-100DR | C4FM FDMA/FM 144/430 MHz Transceiver

- Power Packed System Fusion Transceiver • High Audio Output Power • Rugged Powerful Transmitter • Integrated 66ch High Sensitivity GPS • 1200/9600 APRS Data Communications • Voice Guide and Recording Function *Optional FVS-2 Required • Digital Group Monitor (GM) Function • Digital Clock & Timer Functions



FT-60R | 2M/440 5W HT

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



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

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The radio



ANAHEIM, CA (800) 854-6046	OAKLAND, CA (877) 892-1745	SUNNYVALE, CA (877) 892-1749	PORTLAND, OR (800) 785-4267	PHOENIX, AZ (800) 559-7366	WOODBIDGE, VA (800) 444-4799	PLANO, TX (877) 456-8750
BURBANK, CA (877) 892-1748	SAN DIEGO, CA (877) 520-9623	NEW CASTLE, DE (800) 844-4476	DENVER, CO (800) 444-9476	ATLANTA, GA (800) 444-7927	SALEM, NH (800) 444-0047	ONLINE STORE WWW.HAMRADIO.COM

*Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HFD 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, TX, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



2016 ARCA / WILLIAMS HAMFEST

JULY 22, 23 & 24, 2016



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

WILLIAMS RODEO GROUNDS, 800 RODEO ROAD
WILLIAMS, AZ



GATES OPEN AT NOON THURSDAY, JULY 21 FOR SET-UP.
HAMFEST OPENS AT DAWN FRIDAY, JULY 22.

FREE ADMISSION!

MAIN PRIZES

- Grand Prize - ICOM IC-7100 HF/VHF/UHF Mobile
- Second Prize - Yaesu FT-8900R QuadBand
- Third Prize - Kenwood TM-281A 2M Mobile
- Fourth Prize - Yaesu FT-2900R 2M Mobile
- Fifth Prize - Baofeng UV-5R
- Early Bird - Tigertronics Signalink USB

PRIZES

DOOR PRIZES EVERY HOUR
RAFFLE TICKETS
12 for \$20, or 3 for \$5.00

Commercial Vendors

Huge Swap, Meetings, Seminars, Activities
VE Tests, ARRL Card Checking
Hospitality Suite, Saturday Night BBQ Dinner

ALL OUTSIDE SPACES

\$20 per Space before June 25

Selling and/or Camping

INSIDE SPACES - \$85 per Space

Advance Reservation Closes June 25

After June 25 - On-Site Reservation Only

\$25 per Space

(all prices are for entire weekend)

FOR RESERVATION INFORMATION

Visit the ARCA Web Site

www.arca-az.org

On-Line Reservation Available on Web Site

Call - 602-881-ARCA (2722) for info

Talk-In - 146.78 - (91.5 PI)



SPECIAL EVENT STATION!

Sunday, July 24 - Grand Canyon Train Trip

NO FOOD OR BEVERAGE SALES WITHOUT WRITTEN PERMISSION & HEALTH PERMITS
NO DRUGS or ALCOHOL PERMITTED on GROUNDS

National Parks
ON THE AIR
2016
www.arra.org



Special Event Station (Call TBD)

The Amateur Radio Council of Arizona and the Northern Arizona DX Association are proud to offer a special event in conjunction with the 2016 Williams Hamfest. Ride The Train and Activate Grand Canyon National Park (#22) for National Parks on the Air from parking lot of the historic train depot!

Date: Sunday, July 24th, 2016

Train Ticket Prices: Adults 16 and over: \$102.11

Children Ages 2-16: \$51.88, Under 2: Free!

Price Includes Grand Canyon National Park Admission Fee

Prices May Go Down if 20 or More Individuals Sign Up

For Further Information Contact: arca@arca-az.org




GRAND CANYON
Railway & Hotel
EST. 1901





**2016 HAM FEST
KINGMAN - ARIZONA**

SATURDAY OCTOBER 15, 2016
7:00 AM TO 3:00PM

**OUTDOOR TAILGATE SWAP MEET,
BRING YOUR OWN FOOD AND DRINKS AND SPEND SOME
TIME WITH US**

**2202 STOCKTON HILL ROAD
FROM I-40 GET OFF ON STOCKTON HILL ROAD
GO SOUTH $\frac{3}{4}$ MILE BETWEEN CLUB AVE AND GOLDEN GATE
AVE ON EAST SIDE OF STREET - IN THE PARKING LOT OF
KRMC MEDICAL PLAZA**

**RICK COOPER 928.530.1671 -- BILL SMITH 928.303.9857
LOCAL REPEATER 147.240 + offset, PL 123
70cm 448.550 - offset, PL 123**

WELCOME TO COPAFEST 2016

Maricopa Amateur Radio Association, Inc.



**ARRL
2016
Arizona
State
Convention**

Maricopa, Arizona - October 21-22, 2016

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

16000 Maricopa Road, Maricopa AZ
Click [HERE](#) for map

Hamfest setup Saturday 5:00 am, Event opens at 7:00 am

Indoor Spaces - Prices to be announced.

Outdoor Spaces - Prices to be announced.

Vendors Pre-Register

[HERE](#)

Fest@Copahams.Org

Friday evening event to be announced.

Special Event Station – W7M,

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



Harkfest Tailgate Hamfest

Presented by HARK (Hassayampa Amateur Radio Klub)

Sponsored by RFStuff

Nov. 5, 2016

8 am - Noon

North Ranch Escapees RV Park

30625 S. HWY 89, Congress, AZ 85332

(GPS 34 06.292 112 49.880) MM 263.8

ARRL Card Checking

Free Admission, Free Tailgate Sites (pre-registration required)

Register at n0daj1950@gmail.com

Overnight camping (full hook-up or dry camping) available

(pre-registration required at www.escapees.com/parking/congress)

Tailgating allowed at campsite

LARC (free) VE Testing, 9am in the Club House (Blue Room)

Main Prizes: First Prize: TBA

Second Prize: TBA

Tickets \$1 each, 6 for \$5, 15 for \$10

Drawing at Noon

Door Prizes

Vendors

Talk in on 146.620 (pl. 162.2) or 146.580 (simplex)

Arts & Crafts show(Activity Center) 9 am - 2 pm

Lunch Served

ORO VALLEY ARC



HAMFEST

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

November 12, 2016

**Marana Middle School
11285 West Grier Road
Marana Arizona 85653**

Mark your calendars.

Send questions to hamfest@tucsonhamradio.org