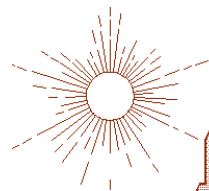


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



ADAW

Arizona Desert Aire Waves

Vol 44, No 9 September 2019

CLUB MEETING SCHEDULE

SARC

Sep 4th
Scottsdale Senior Center
7:00 PM

AARC

Sept 12th
Red Cross Bldg. - Phx
7:00 PM

OPRC

Sep 11th
Marshall Conference Ctr
at Tucson Medical Ctr
7:15 PM

TBARC

Sep 19th
North Phoenix Campus
Northern Arizona University
7:00 PM

CADXA

Sep 5th
PERA Club
7:00 PM

ARA

Sep 26th
Denny's Restaurant - Tempe
7:30 PM

ARCCC

TBD
American Red Cross Bldg
Phoenix
9:00 AM

SuperstitionARC

Sep 17th
Charles K Luster Bldg
7:00 PM

MARCA

Sep 17th
Denny's Restaurant - Tempe
6:30 PM

ANSR

Sep 19th
via GoToMeeting
7:30 PM

OVARC

Sep 20th
Ascension Lutheran Church
7:00 PM

WVARC

Sept 2nd
Shephard of the Desert
Luthern Church
7:00 PM

YARC

Oct 3rd
Prescott Rodeo Grounds
7:00 PM

MARA

Sep 7th
Copper Sky Substation
9:00 AM

KARC

Sep 21st
The Hangout in Linden
Check Web Site

CHRC

Sep 14th
Barro's Pizza - Chandler
9:00 AM

QCWA-AZ Chapter

Sep 18th/Sep 10th/TBD
Phoenix/Prescott/Tucson
9:30AM/10:30AM/TBA

ADAW Member Clubs

ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURSDAY** of each month at 7:00 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	Mark Kesauer	N7KKQ	602.843.0960
Secretary	Reinhard Geissler	K7RGG	
Treasurer	Bob Hodges	K7JJT	602.375.9982
Activities Mgr	Lori Cripps	WA7EDI	602.955.7517
Membership	Bob Hodges	K7JJT	602.375.9982

AARC c/o Bob Hodges, K7JJT, 15214 N 7th Place, Phoenix, AZ 85022. DUES: \$15.00/YR, Prorated (\$18.00 Family, \$9.00 Student), MEMBERSHIP YEAR BEGINS FEB. 1.

SCOTTSDALE AMATEUR RADIO CLUB, INC.

The Scottsdale Amateur Radio Club meets the **FIRST WEDNESDAY** of each month at 7:00 p.m. in Room 8 at the new Scottsdale Senior Center located at 1700 N Granite Reef Road (west side of Granite Reef Rd., 50 yards north of McDowell Rd. Parking on site). The club also holds a net every Tuesday night at 7:00 p.m. on the 147.78/.18 repeater.

President	James Wasson	N7ELL	480.456.1154
Vice President	David Yee	N7AJR	
Secretary			
Treasurer	Ed Nickerson	WU7S	480.949.5162
Past President	Paul Finell	W7EFQ	602.741.6563
Board Members	Irv Hembeck	K00TZ	
At-Large	David Yee	N7AJR	
	Bill Kouchis	N9EIV	
	Ray Vasquez	K4RMV	(ARCA Rep)
	Bruce Harmsen	KA9EYX	
	Chris Tabor	K7TAB	

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 THURSDAY** of the month at 7:30 p.m. via GoToMeeting. Technical meetings are held the first Monday of the month at 7:30 p.m. on GoToMeeting. Please contact an officer about joining our meetings.

President	Stephen Thomas	KE7TLS	iamgadget1@yahoo.com
Vice President	Clayton Jacobs	KJ6QJS	
Secretary	Steve Miller	W6SDM	
Treasurer	Bill McLean	K7WWM	bmclean@gmail.com

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

THUNDERBIRD AMATEUR RADIO CLUB

The Thunderbird Amateur Radio Club meets the **THIRD THURSDAY** of each month at 7:00 p.m. at North Phoenix Campus of Northern Arizona University located at 15451 N. 28th Avenue (near I-17 and West Greenway Road). The meeting is held in room 147. See the website (<http://w7tbc.org>) for a map and more details.

President	Brian McCarthy	AK7F	president@w7tbc.org
Vice President	Darrell Bradshaw		vicepresident@w7tbc.org
Secretary	Gary Larson		secretary@w7tbc.org
Treasurer	Bob Townsend		treasurer@w7tbc.org
Board Members	Clair Wyant	KG7MAJ	kg7maj@w7tbc.org
	Kenneth Charleton	K4FZH	k4fzh@w7tbc.org
	Nick Holaday	KI7HZQ	ki7hzq@w7tbc.org
	Andrew Cornwall	KF7CCC	kf7ccc@w7tbc.org
Past President	Gary Duffield	WK7B	wk7b@w7tbc.org

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. The Thunderbird Amateur Radio Club is a 501(c)(3) non-profit organization. Mailing address: PO Box 32544, Phoenix, AZ 85064-2544.

OLD PUEBLO RADIO CLUB

The Old Pueblo Radio Club meets the **SECOND WEDNESDAY** of March, June, September and December at 7:15 p.m. in the Marshall Conference Center at Tucson Medical Center. Visitors are welcome.

President	Ron Kalish	N7SPW	520.207.3852
Vice President & Treasurer	George Devich	N9IUK	520.760.0125
Board of Directors:	Jim Ulmer	KC7THU	
	Lin Donnelly	KF7CNR	
WebMaster			
Trustees:	(146.66- Repeater's Call is W7GV)		
Primary	Ron Kalish	N7SPW	146.660-
	Paul VanBeverhoudt	KA7LFX	224.06+
Secondary	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	Peter Petrotta	KD7OIW
Vice President	Charlie Zurenko	N2TFS
Secretary	Rob Rodriguez	KI7PDR
Treasurer	Mark Steele	KI7RB
Past President	Frank Engstrom	KB7IQ

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. Monthly meetings are held in various parts of Arizona. The schedule is as follows:

Phoenix - Third Wednesday of each month at 9:30 a.m. at Iron Works Food and Spirits, 17233 N 45th Avenue in Glendale. 602.843.0909. Contact John Marshall at wa7bsr@gmail.com

Prescott - Second Tuesday of each month at 10:30 a.m. at Golden Corral, 1901 E AZ-69 in Prescott. 982.776.1664. Contact Don Broadston.

Tucson - Seeking volunteer to set up monthly meetings in Tucson.

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	John Marshall	WA7BSR	623.334.2583
Vice President			
Secretary			
Treasurer	Dave Hanson	W7BJw7bj@outlook.com	
Webmaster	John Marshall	WA7BSR	623.334.2583

Web Site: <http://azqcwa.org> Email: azqcwa@gmail.com.

DUES: \$7.00/year and current national QCWA membership.

MINGUS MOUNTAIN REPEATER GROUP

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

President	Bob Sitterley	K7POF	928.636.2146
Vice President	Ray Tyrrell	N6MY n6my73@gmail.com	
Treasurer	Bob Sitterley	K7POF	928.636.2146
Secretary	Lori Cripps	WA7EDI	602.955.7517
Board Members:	Phil Hazlett	WA7UID	
	Sonja Hazlett	WB7CWW	
	Peggy Williams	KD7AWU	
	Jerry Roberts	KB7CN	
	Gary Hamman	K7GH	
	Ken Rasback	KK7KEN	

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

KACHINA AMATEUR RADIO CLUB

The Kachina Amateur Radio Club meets the **SECOND TUESDAY** of each month at 6:30 p.m. at the Solterra at White Mountains, 5408 W White Mountain Blvd in Show Low.

President	Tim McFadden	K7DXA	
Vice President	Steve Herron	AG7GD	928.242.2558
Secretary	Marie Mortensen	N7SKS	
Treasurer	Dennis Wilkes	W7DRW	928.739.4700

Mailing Address: Kachina Amateur Radio Club, P O Box 2996, Show Low, AZ 85902. Email: info@kachinaarc.org Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: www.kachinaarc.org

ARIZONA REPEATER ASSOCIATION, INC

The Arizona Repeater Association general meeting is held the **FOURTH THURSDAY** of each month at 7:30 p.m. There are no meetings in July and December. The November meeting is held the Monday before Thanksgiving. Meetings are held at Denny's Restaurant, 825 S 48th Street, in Tempe, near SR143 and University Drive. Visitors are welcome. Come early for food and social time before the meeting starts. For further information about the ARA, including repeaters, site status, and the tech/board meeting, please visit our web site at www.w7ara.org.

President	Brian McCarthy, AK7F	ak7f@w7ara.net
Vice-President	Erv Heimbeck, K0OTZ	k0otz@w7ara.net
Treasurer	Cole Cunningham, AA7RD	aa7rd@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 (Joe Godfrey, AE7JG 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.

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	480.251.0551
Vice President	Andy Keels	KD4ABB	602.809.3561
Secretary	Brent Butler	W7FK	480.332.1141
Treasurer	Douglas Mitchell	W7ADD	480.540.4110

Board Members:

Tony Manzo	W7KLV	
Dan Karnes	W7TWR	602.502.5259
Don Rollock	W2EUL w2eul@yahoo.com	
Jeff Harris	K2DFE	602.617.6930
Jeff Heinze	N7CCW	480.720.7908
Jeff Marchesky	K7ZLX	602.628.0238
Rod Fritz	WB9KMO	

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277. Web Site: SuperstitionARC.org and SuperstitionSuperFest.org. The Superstition Amateur Radio Club is a 501(c)(3) non-profit organization. For club information, please send email to: Communications@SuperstitionARC.org.



ADAW Member Clubs

MARCA, Inc. / W7MOT

MARCA is an Arizona 501(c)(3) Non-Profit organization. The club call sign in W7MOT. Membership is open to all amateur radio enthusiasts. Meetings are held the **THIRD TUESDAY** of each month at 6:30 p.m. at Denny's Restaurant located at 825 S 48th Street in Tempe (SE corner of University & 48th Street). Monthly presentations cover a broad spectrum of interesting subjects. Visitors are welcome to attend. Come early for dinner and socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications.

President	Dave Hall	N7ZPY	
Vice President	Norm Johnson	AA7OO	480.278.2886
Treasurer	Don Aldridge	WA7RLL	
Board Member	David Yee	N7AJR	
Secretary	Open		
Trustee:	Norm Johnson	AA7OO	480.278.2886
Webmaster:	Norm Johnson	AA7OO	480.278.2886

MARCA, Inc., c/o Norm Johnson, 5756 S Wildrose, PO Box 85140, Mesa, Arizona 85212. Membership dues \$25 annually. See our website (<http://w7mot.org>) for more information about meeting schedules, membership, repeaters, library, and club activities.

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	Larry Loen	WO7R	lwloen@gmail.com
Vice President	Tom Boza	NE7X	qrz-dx@ne7x.com
Secretary	Bob Davies	K7BHM	k7bhm@cox.net
Treasurer	Mike Wright	N7MW	n7mw@aol.com
Past President	Lee Finkel	KY7M	ars-ky7m@gmail.com
Board Members	Fred Hoffert, III	NA2U	cwman1@aol.com
At-Large	Reinhard Geissler	K7RGG	dl1uf@compuserve.com

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.



YAVAPAI AMATEUR RADIO CLUB

The Yavapai Amateur Radio Club meets the **FIRST THURSDAY** of every month at 7:00 PM in the Freeman Building at the Prescott Rodeo Grounds located at 840 Rodeo Drive in Prescott (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	Bill Noe	W7PVA	president@w7yrc.org
Vice-President	Joe Thomas	KG6IDN	vice_president@w7yrc.org
Secretary	Art Jackson	KA5DWI	secretary@w7yrc.org
Treasurer	Jim Fortney	K6YK	treasurer@w7yrc.org
Board Members	Kathy Laing	KJ6KMK	kj6kmk.yarc@gmail.com
	Sandy Meadowcroft	KF4JHC	sandymeado2@yahoo.com
	Ray Kolman	KI7COM	spudzman@gmail.com
	Dave Erlach	W7VXSX	rocketdog@dslxtreme.com

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. (December is annual Christmas Party). Visitors are VERY welcome. Board Meetings are held at 9:00 a.m. at the Ascension Lutheran Church located at 1220 W Magee Road in Tucson. Check the web site at www.tucsonhamradio.org for dates.

President	Steve Wood, W1SR	W1SR@arrl.net
Vice-President	Mike Peterson K7VTT	azmacguru@gmail.com
Secretary	Carl Foster KB7AZ	carlfoster@cactuscomm.net
Treasurer	Hanna Eckert, KG7TPD	haneck@aol.com
Board Members	Fred Bresani W2HZ	
	Ross Eckert K4WBR	
	Gary Pierce AE7GP	
	Marnee Dearman KG7SIO	
	Tom Ambler W7TRA	

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/>.

MARICOPA AMATEUR RADIO ASSOCIATION

The Maricopa Amateur Radio Association (MARA) meets the **FIRST SATURDAY** of each month at 9:00 a.m. at Maricopa PD Community Room, 17985 N Greythorn Dr. in Maricopa.

President	Curt Steger	NA7CS	president@copahams.org
Vice President	Wayne Kropp	KI7SPW	vicepresident@copahams.org
Secretary	Bob Proctor	N6YPE	secretary@copahams.org
Treasurer	George Hogan	K7TGH	treasurer@copahams.org
PIO:	Steve Miller	W6SDM	pio@copahams.org
Webmaster:	David French	N7FAN	david@copahams.org

The Maricopa Amateur Radio Association is a 501(c)(3) non-profit organization. DUES: \$25.00/year individual, \$30.00/year family. Apply on-line at www.copahams.org. Mailing address: P O Box 951, Maricopa, AZ 85139

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. Hours of operation are the same as the Arizona Science Center (subject to availability of volunteers.) The station is located on the third floor of the Science Center, in the "My Digital World" gallery. Board meetings are held the last month of each quarter at the AZ Science Center. An annual meeting for all volunteers is held the **THIRD SATURDAY** of January. Watch ADAW for details.

President	Jack Landon	KD7ROB	480.759.5195
Vice President	Jim Felkey	N7BBS	480.966.7084
Sec./Scheduling	Sam Marshall	N7INV	602.291.0992
Treasurer	Karen McConaghy	NO7D	602.799.7338
Board Members:			
	Jean Jolkovski W4CIH	ADAW, Publicity	
	Steve Warford WB4ZSC	Tech/IT, CARL/ASC Interface	
	Tom Salt AD7PM	At Large	
	John O'Neal K7JP	Teacher Packets	
	Bob Burleson KG7QJ	Trustee/President Emeritus	
	Robert Faerber W9AQ	Log Book	
	Ronald Taylor WA7GIL	At Large	
	Scott Gillins W2KP	At Large	

Direct Phone: 602.716.2082

Web Site: <http://www.w7asc.org> Web Master - Allyson Lee

For information: Email to carl@w7asc.org or call Jack, KD7ROB at 480.759.5195.

AMATEUR TELEVISION NETWORK

The Amateur Television Network (ATN) is a group of radio amateurs that promote audio and video operation on linked repeaters and on mesh networks. We hold regular meetings are held each year in January and July, and typically have monthly social events. Refer to our www.atn-tv.org website for details. Watch our nets on Wednesday and Sunday at 7:00 PM Arizona time and Tuesday at 7:30 PM Pacific time. Browse YouTube.com and search for [W6ATN LIVE](#) or [W7ATN-MESA LIVE](#). Alternately, browse to [BATC.TV](#) and select Repeaters and [W6ATN](#), [W7ATN](#), or [W7ATN-MESA](#). Send your live video on the Internet at appear.in/amateurtvnetwork or on amateur radio ATV or FM.

ATV Repeater Inputs: 434 MHz AM/DVB-T and 2441.5 MHz FM
 ATV Repeater Outputs: 1253.25 and 5910 MHz (Phoenix and Orange County), 1277.25 MHz (Tucson), 1289.25 MHz (Mesa and Santa Barbara), and 3380 MHz (Ventura County)

FM Repeater Outputs: 448.400 MHz, PL 100.0 (White Tanks), 445.225 MHz, PL 103.5 (Mt Lemmon), 447.175 MHz, PL 100.0/C4FM (Mesa), and 1286.15, 223.82, and 146.43 MHz (CA)

President	Ed Olague	K5OLA	602.885.7725
Vice President	Rod Fritz	WB9KMO	805.772.8804
Sec./Treasurer	Lee Weitzel	KOCCU	602.439.4840
Repeater Trustee	Kevin Jacobson	AD7OI	760.898.4601
Webmaster	Roland Hoffman	KC6JPG	562.577.1381

ATN-AZ, 4134 W. Danbury Dr. Glendale, AZ 85308. Membership dues are \$75 annually. For more information about our meetings, membership, repeaters and club activities, please see our website <http://ATN-TV.org>

WEST VALLEY AMATEUR RADIO CLUB

The West Valley Amateur Radio Club, an Arizona 501(c)(3) non-profit corporation, has been providing emergency communications since 1961. Meetings are the **FIRST MONDAY** of each month at 7:00 PM at Shepherd of the Desert Lutheran Church, 11025 N 111th Avenue in Sun City. The board meets at 11115 W Nevada Avenue in Youngtown at 10:00 AM the third Tuesday of the month in June through September and at 2:00 PM October through May. A weekly breakfast is held on Thursdays at Lou's Tivoli Gardens, 12535 W Bell Rd at 7:00 AM. Club nets are held on 147.300 (tone 162.2) at 9:00 AM daily and Monday - Thursday at 8:00 PM. Please check our website (below) for other events and information.

President	Pat Regan	KD7TFD	623.341.7613
Vice-President	Dick Stout	KE7RD	623.815.0985
Secretary	Gloria Putman	KI7SQV	623.238.9963
Treasurer	Alven Brite	N7GVF	623.979.5944
Board Member:	Gary Franklin	K8BKB	269.501.3898
	Joe Fitzgerald	KV2H	623.784.9940
	David Putman	W7DCP	253.307.0544
	Bob Shoemaker	KG6EJW	858.598.7972
Past President	Gary Robin	K6HDU	623.234.2252
Committees:			
Membership	Jim Rogers	N7YTI	623.214.9219
Technical Advisory	Gary Franklin	K8BKB	269.501.3898
Equip Donations & Sales			
	Gary Franklin	K8BKB	269.501.3898

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://westvalleyarc.com>. Email: suncitywvarc@gmail.com

SUNLIFE AMATEUR RADIO CLUB

The Sunlife Amateur Radio Club meets **EVERY MONDAY** from October through April each year at 10:00 a.m. at the Greenfield Village RV Resort located at 99 South Quinn Circle in Mesa. Meetings are held in a gated community. For access, please contact Jerry Davis, K7AZJ at k7azj@arrl.net.

President	Jerry Davis	K7AZJ	k7azj@arrl.net
Vice President	Sue Rodgers	W7SKH	happyham7777@gmail.com
Secretary	Chuck Rodgers	W7CBR	rogers_charles@hotmail.com
Treasurer	Cliff Bean	AE7VZ	klyffone@gmail.com

Membership dues are \$10.00/year. If you would like to be a member, visit the website at <https://www.sunlifearc.org/>

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

ADAW Member Clubs

CHANDLER HAM RADIO CLUB

The Chandler HAM Radio Club (call sign N7CHN) meets the **SECONDSATURDAY** of each month at 9:00 AM at Barro's Pizza located at 1880 S Alma School Road in Chandler. Visitors are welcome. Check the web site at chandlerhams.org for dates. Weekly net is held every Thursday at 8:00 PM on 442.550+ PL100.

President	Gary Laatsch	KI7PBR	president@chandlerhams.org
Vice President	Norm Falosetos	K7NWF	vicepresident@chandlerhams.org
Secretary	Lisa Allen	KJ7DJR	secretary@chandlerhams.org
Treasurer (acting)	Gary Laatsch	KI7PBR	treasurer@chandlerhams.org
Web Master	Lisa Allen	KJ7DJR	webmaster@chandlerhams.org

No dues at current time. Web Page: <http://chandlerhams.org>.



The *Arizona Desert Aire Waves* is published monthly and is the official news media of the sponsoring clubs. All news items, articles and inquiries should be submitted to each club's editor. Any information and opinions printed herein are those of the contributors and are not necessarily those of the sponsoring clubs. Full permission is granted to quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED. **Deadline is 10th of the month**



Announcing the Laurel VE Team, WM-VET, Test Session

The Laurel VE Team, WM-VET, will be conducting testing on 5 October 2019 at 9:00 AM at Solterra Senior Living located at 5408 Arizona Highway 260 in Lakeside, Arizona. Walk-Ins are permitted, however, pre-registration is preferred. You can email the team at VEtesting@cablone.net to pre-register. Please include your name (the exact name used to create your FRN, if you have an FRN), license call (if you have one), and which license exam you wish to take. An acknowledgement will be emailed back to you.

At the test session, the following will be required: A government issued photo ID, your FCC Registration Number (FRN) if you have one **OR** your social security number, the original and a copy of any passed exam element credit (CSCE), and a copy of your current license if upgrading.

The test session begins at 9:00 AM.

ADAW Staff

PUBLISHER/MANAGING EDITOR

Christine Kesauer	N7PVL	602.843.0960
AARCEDITOR		
Lori Cripps	WA7EDI	602.955.7517
ANSREEDITOR		
Steve Miller	W6SDM	602.290.1603
ARAEDITOR		
T D Kennard	N7ISR	n7isr@w7ara.net
ARCCEDITOR		
Charlie Zurenko	N2TFS	chazur@icloud.com
ATNEEDITOR		
Ed Olague	K5OLA	602.885.7725
CADXAEDITOR		
Lee Finkel	KY7M	ars-ky7m@cox.net
CARLEEDITOR		
Jean Jolkovski	W4CIH	480.664.7353
CHRCEDITOR		
Gary Laatsch	KI7PBR	ki7pbr@cox.net
KARCEEDITOR		
Lydiann McFadden		lydiann@gmail.com
MARAEDITOR		
David French	N7FAN	480.430.9426
MARCAEDITOR		
Norm Johnson	AA7OO	480.278.2886
MMRGEDITOR		
Lori Cripps	WA7EDI	602.955.7517
OPRCEDITOR		
Ron Kalish	N7SPW	520.207.3852
OVARCEEDITOR		
Steve Wood	W1SR	nauset2222@yahoo.com
George Cooley	NG7A	george@ng7a.com
QCWAEDITOR		
John Marshall	WA7BSR	623.334.2583
SARCEEDITOR		
Paul Finell	W7EFQ	602.741.6563
SunlifeEDITOR		
Bill Farina	KE0WPF	608.301.5544
SuperstitionARCEEDITOR		
Larry Kuck	WB7C	Ellsworth@us60.us
TBARCEEDITOR		
Andrew Cornwall	KF7CCC	kf7ccc@arrl.net
WVARCEEDITOR		
David Putman	W7DCP	253.307.0544
YARCEEDITOR		
Don Bauer	WB7TPH	dbauer2250@aol.com
TECHSUPPORT		
Mark Kesauer	N7KKQ	602.843.0960
ADAWEMAIL		adawaz@arca-az.org or adaw@adaw.org
ADAWWEBSITE		www.adaw.org



From The Editor's Desk

The monsoon finally returned to the Valley of the Sun in the evening of August 28 bringing much needed rain. Lightening lit up the night sky and thunder rolled startling animals and humans alike. The wind blew through the trees carrying leaves into everyone's yards - and pools! It was an exciting night!

This month, we welcome a new club to the valley and to the Arizona Desert Aire Waves. A couple of Chandler hams got together to form the Chandler HAM Radio Club. Check their listing on page 7 and their column on page 8 to learn more about this brand new club. Welcome, to ADAW.

Received the following from Lori Cripps, WA7EDI (AARC editor) just before publication and wanted to bring it to everyone.

"The Arizona Amateur Radio Club had a very special VE session on Sunday, August 25, 2019. Bill Martin, AI0D served as a Volunteer Examiner for the 1,000th time. Of course this called for a celebration. We celebrated with an appropriately decorated cake and ice cream (see the photo), and Bill was given a Certificate of Appreciation from the ARRL as well as one from the Arizona Amateur Radio Club. Thanks, Bill, for your dedication. Volunteer Examiners play a very important role in amateur radio, and the time and effort put forth by VEs is incredible. Bill is one of the few who have reached the 1,000 mark!"



The Radio Society of Tucson will hold its Autumn Hamfest on September 28. The event will be in the usual spot at the Target Store on Old Spanish Trail in Tucson. This is a growing half-day event that is definitely worth checking out. See their flyer in the flyers file and visit their web site at <http://www.k7rst.org> for all the details.

Public Service events are gearing up with two listed on the MCECG calendar. The Barnburner Mountain Bike Ride takes place northwest of Flagstaff on September 7th and the

Continued Next Column

Silent Key



*Myrna Lorraine Cross
9/18/1941 - 7/20/2019*

It is with profound sadness that we mourn the loss of a truly remarkable and very special person. Myrna Lorraine Cross, KN7M, passed from this life on Saturday, July 20, 2019 due to injuries sustained in a severe automobile accident about six days prior. She is survived by her husband of 24 years, Terry Cross, NK7T, son Robert Bugh, and stepchildren Kenneth and Jennifer Cross.

Myrna's professional life was as a microbiologist. She enjoyed the pursuit of isolating and identifying the organisms that cause illness and searching for a cure.

In her leisure time, Myrna enjoyed bowling, water aerobics, ham radio, and other outings. She was a fixture at many of the Ham Radio events in the valley, volunteering where needed during the event or just visiting with people. She was a delight to talk with. Her cheerful smile and friendly demeanor brightened instantly everyone's day.

Myrna's family was her greatest joy. She was devoted to her husband Terry and her two stepchildren. She dearly loved her son Robert and cherished spending time with him.

Myrna will be forever missed by all those whose lives she touched throughout the years.

Godspeed, dear friend. Rest in peace.

Chris N7PVL

ADAW

Editor's Desk Continued from Previous Column

Mogollon Monster 100-Mile will be held in the forests east of Pine on September 14th. If you are interested in either of these events or any of the events listed on page 8, contact Dennis Bietry, KE7EJF at 602.274.3732 or email to ke7ejf@cox.net. Volunteers are always needed. Find out how you can help.

Speaking of volunteers - the Center for Amateur Radio Learning is always looking for volunteers to help at the Harkins Ham Shack at the Arizona Science Center. Volunteers at the center meet and greet visitors to the Shack, explain what amateur radio is all about, demonstrate the equipment, and a host of other activities. If you think you might be interested, contact one of the officers listed on page 5.

73 Til Next Month,
Chris, N7PVL

ADAW



Chandler HAM Radio Club - How We Got Started

The Chandler HAM Radio Club "CHRC" officially formed on July 13th, 2019 when we held our inaugural club meeting at Barro's Pizza in Chandler.

A couple of us originally got together thru another local HAM who was trying to start a club as part of the city's volunteer CERT program. We were not so much interested in the CERT as we were in the fellowship side of the hobby. We decided to start meeting separate from the original group for breakfast every other Saturday morning. As the breakfast group grew, so did the interest in starting our own club. It was surprising to most of us that as large as Chandler is and with as many licensed operators as there are in this city that there was no club. We also realized there was also no VEC teams for license testing in this area.

As we moved forward, as I like to say, like a baby bird ("we must spread and develop our wings before we can soar with the eagles") we started taking the steps toward forming the club. We talked to officers of other clubs (thanks MARA, Inc) on what to do and any experiences they can share with us. They provided us with their club documents to use as a guideline to create our own. We also have several members who are, or were, associated with other clubs in the past and passed on their experiences as well. We needed a repeater and a member of the South Mountain User Group suggested using their repeater on South Mountain as an interim club repeater for our NETs. We asked other SMUG members and they approved our request. As the dominoes fell perfectly in place, we applied for a club call sign and it was granted by the FCC. We then submitted for a vanity call sign of "N7CHN" which was also approved.

We already have plans to have a presence at the COPA Fest coming in October and are also setting up for Winter Field Day in Jan of 2020. We have at least 3 Extra class VE's and plan to provide local area testing for Amateur Radio licensing. We are looking into scheduling future events for technical speakers on various aspects of amateur radio. One other very important fact, we make ourselves available for any sort of communication needed to assist local authorities if an emergency or need arises.

If you are interested in joining our club, we meet on the second Saturday of every month at Barro's Pizza at 9:00am, 1880 S Alma School Rd (NW corner of Alma School and Germann) in Chandler. You can also visit our website at chandlerhams.org for more information.

73 de KI7PBR, Gary Laatsch
CHRC President



Public Service Calendar

Maricopa County Emergency Communications Group Events

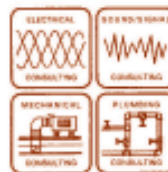
EVENT	LOCATION	DATE
Barnburner Mountain Bike Ride	Kendrick Peak (Northwest of Flagstaff)	09/07/19
Mogollon Monster 100 Mile	Tonto and Coconino National Forests East of Pine	09/14/19
Tour De Scottsdale	Scottsdale	10/13/19
Javelina Jundred	Fountain Hills	10/26/19
Heart of Arizona	Congress	11/02/19
JROTC Orienteering First Water	First Water Trail Head - East Valley	11/02/19
Cave Creek Cactus Classic	Cave Creek	11/09/19
Xterra - San Tan Trail Run	San Tan Park	11/10/19
JROTC Sophies Flats	Northeast of Wickenburg	12/14/19
Xterra - Estrella Mtn Trail Run	Estrella Mountain Park	12/15/19
Xterra - White Tank	Waddell	01/05/20
Prickly Pedal	TBD	01/18/20
JROTC First Water	North of Apache Junction	01/25/20
Xterra - McDowell Mtn	Fountain Hills	02/02/20
Black Canyon 100K	Spring Valley to Emery Handerson Trailhead	02/15/20
JROTC Orienteering - Sophies Flat	Sophies Flat	02/22/20
Mesquite Canyon	Waddell	03/07/20
Xterra Black Canyon Trail Run	Black Canyon City	03/08/20
Crown King	Lake Pleasant-Crown King	03/28/20

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.



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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.



AMATEUR RADIO SERVICE DEMONSTRATION STATION

W7ASC is a Demonstration Station for the Amateur Radio (public) Service. The Volunteers who operate the station are members of the Center for Amateur Radio Learning (C.A.R.L.), a 501(c)(3) organization. W7ASC is open to all visitors to the Arizona Science Center during those hours when the Arizona Science Center is open. The station is located on the third floor of the Science Center, in the “My Digital World” gallery.

BREAKING NEWS! WE HAVE A WINNER IN THE HAM QUIZ . . . Lewis “Sonny” Roberts N3LER was first across the wire. He recognized the portrait of James Monroe - and that it was painted by Samuel Morse, also the inventor of the Code that had to be mastered some years ago in order to become license as a Ham.

A close second was Roger Ringer AB7WP who recognized the portrait, but did not mention that Morse was the painter. Congratulations to both of you. And thanks to the multitude who were correct, but late.

Here is **ANOTHER QUIZ:** The deadline for submitting your answer is close of business on September 31. Submit your answers to jeanjol@hotmail.com . **SEPTEMBER QUIZ QUESTION** - There is an obvious connection between photography, the Civil war, and Ham radio. Tell us, please, just what is that connection? As a hint, there is more than one nexus.

July 2019 was an important month in the history of communications technology. This month we celebrated the 50th anniversary of the Moon landing. There were three major systems that contributed to the ultimate success of the mission. There was Propulsion and Navigation, Life Support and, of course, Communication. There were many Hams, employed by NASA and its contractors, who contributed to the design and implementation of that innovative system. It is old news, but worth noting that the total computer power available on the project was less than that available in the average cell phone in use today!

The Arizona Science Center celebrated the anniversary in many ways. Visitors were treated to a series of presentation by Mark Kelly, the Astronaut, shown below with Attila W7AMR, one of the C.A.R.L. Volunteers.

CARL Continued from Previous Column



ASC dressed some staff members in NASA coveralls. One of those Astronaut look-a-likes visited the Ham Shack where the Volunteers on duty were interviewed on live video about their contributions or experiences during the Moon landing. The following photo shows the on-duty Volunteers in the Ham Shack together with an ASC staff member.

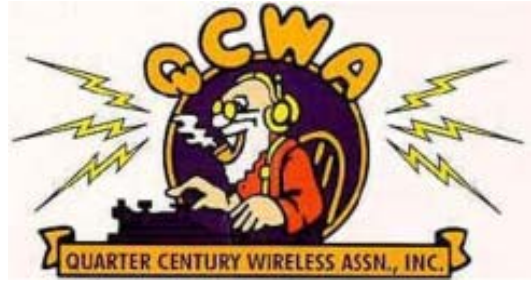


These events attracted unusually large crowds to ASC, so the Ham Shack was busy. The extra Volunteers were fully engaged in demonstrating and teaching Morse code. Many visitors had their first Ham contact on these busy days. Hams in range of the local repeaters were a big help with this third-party demonstration activity. EAARS and ARA networks performed very well in support of this extra activity. The Volunteers were kept busy explaining to the curious visitors that the NASA Moon landing communication system was inspired by methods that were first implemented by Ham radio licensees. The Ham Shack is one of the few places within ASC where visitors may ask questions, about technology (and the location of the restrooms) from a real live human!

The ADAW newsletters are one of the very popular handouts that visitors take with them as they leave the Shack. Keep in mind that your club newsletter that is included in ADAW is seen by many visitors and not just by your club

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Continued on Page 10



**CHAPTER 16
BARRY M. GOLDWATER ARIZONA CHAPTER**

This month my report is to join with the Prescott area people to congratulate a member of MMRG for starting his 49th year as the longest serving Prescott Unified School district teacher this fall. He is Terry Pemberton KB7TRE.

Terry is also a former Arizona Ham of the Year. In addition to his regular teaching classes, he had a radio club for students interested in Ham radio. Over the years, a number of these students got their ham licenses. For many years, Terry's class room was used for the Yavapai Amateur Radio Club meetings.

For the article on Terry go to <https://www.dcourier.com/news/2019/aug/01/longest-serving-pusd-teacher-relishes-first-day/>

73 Bob K7POF



CARL Continued from Page 9

members. It is amazing how many active Hams visit the Shack – if you doubt that, look at the visitor log when you next stop by the Shack at ASC. A large percentage of local licensed visitors are not members of any club. If written with that audience in mind, some of these non affiliated Hams might decide that it would be worthwhile to find their way to your meetings!

As we look back on July and the conversations that are held in the Shack with the many visitors, we realize that we are really discussing Ham radio as the embodiment of applied science. That is a great fit with the broad mission of the Arizona Science Center. Come visit us there.

Want to consider helping to spread the word about just what Ham radio does for the public by volunteering? Go to the W7ASC web site, W7ASC.org, find and complete an application, or visit the station in person. The direct line for the Shack is 602-716-2082

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

Amateurs in Arizona with twenty five years of experience are invited to join the QCWA. There are monthly meetings in various parts of Arizona

Phoenix, AZ

Third Wednesday of each month at 9:30 AM
Iron Works Food and Spirits
17233 N 45th Ave.
Glendale, AZ 85308
602-843-0909
Contact: John L Marshall
WA7BSR@gmail.com

Prescott, AZ

Second Tuesday of the month at 10.30 AM
Golden Corral
1901 E AZ-69
Prescott, AZ 86302
928-776-1664
Contact: Don Broadston

Tucson, AZ

We need a volunteer to set up monthly meetings in Tucson.

Officers are:
(All officer positions are open for volunteers.)
President: John Marshall WA7BSR 623-334-2583
Vice President: Open
Secretary: Open
Treasurer: Dave Hanson W7BJw7bj@outlook.com
Webmaster: John Marshall WA7BSR WA7BSR@gmail.com

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





4747 N 22nd St. - Suite 100 - Phoenix, AZ 85016
VHF – 146.84 MHz – PL 162.2 / UHF – 446.900 MHz – PL 131.8
Echolink Node #731289 – K7ARC-R

In July an evacuation was ordered for communities along Schultz Pass and Elden Lookout Road in Flagstaff. A Red Cross shelter was opened at Sinagua Middle School. As the fire grew, there was great concern that communications towers on Elden might be in danger. In response to this threat, we were tasked with sending our Command Post with a team of amateur radio operators to plan for the possible interruption of phone service in northern Arizona.

Two members, Peter, KD7OIW and Mark, KI7RB, departed Phoenix with some extra communications gear added to the normal complement carried in the Command Post. Upon their arrival, they met with Red Cross staff in Flagstaff and Coconino County Emergency Management to develop and implement a plan to keep the lines of communication open between the Red Cross office in Flagstaff, the shelter at Sinagua Middle School and the County EOC in Flagstaff. They met with Joe, W7LUX from Coconino County to assess local resources and work out a plan to integrate local hams into the response plan to support Red Cross operations should the fire impact local communications. They then got to work completing the installation of a low-band Motorola Consolette at the Red Cross office in Flagstaff along with a Yaesu 857 and a 2-meter radio. The radios were on-site and needed to have their coax and antennae checked and everything tuned before moving on to the shelter. One of the finishing touches to the plan was added by Mark, N7KKQ who advised that the Mingus Mountain repeater (147.000) provides a reliable link from Flagstaff to Phoenix if needed.

Everyone breathed a sigh of relief as word came the threat to the towers on Elden had passed. While this meant that Peter and Mark would return to Phoenix, it does not mean that local residents and volunteers can relax. As we all know, following a wildfire there is always a threat that rains can increase the flood risk in areas around the burn scar. With monsoon season underway, the threat to some local neighborhoods is real. For this reason, we've decided to leave the Command Post on station in Flagstaff, positioned for a quicker response if necessary. Red Cross disaster leadership held a briefing for regional disaster responders to make us aware of the threat and to begin identifying resources that could be called up to assist in a flood scenario.

Thanks to the efforts of all who helped with this response, we are in a better position to help in the high country. Mel, KI7DTA is a northern Arizona Red Cross volunteer who provided

Continued Next Column



The August 8, 2019, meeting of the Arizona amateur Radio Club was especially enjoyable. Roger, K7GXB, shared experiences and photos of his recent trip to British Columbia. It included a ten-hour ferry ride from the north end of Vancouver Island to Bella Coola where the sun rose at 5:21 AM and set at 9:44 PM for sixteen hours 23 minutes of daylight! The views at Bella Coola were spectacular to say the least!

From Bella Coola, Roger went east on highway 20. In about 60 miles he came to a 40-mile stretch that was a narrow, graveled road with steep grades, sheer drop-offs, and no guard rails. It is known as one of the most dangerous roads in Canada. Thanks, Roger, for sharing the beauty of your BC trip that included stops in the US at Yellowstone and the Navajo Bridge near Lee's Ferry in Marble Canyon.

Charlie, N2TFS and Mark, KI7RB reported on the response by the Red Cross to the Museum Fire near Mt. Elden in Flagstaff. K7GH made a brief introductory presentation of 160, 80, and 40 meter loop antennas. Steve, W7WSV brought a picture of a huge antenna installation in Finland that came down in a winter storm. It included 160 and 80 meter Yagis!

On July 28, the AARC held its monthly Sunday evening VE test session. There were eight candidates and all accomplished their goals:

- KJ7IDI Tech: Mehdi Jaidi
- KJ7IDJ Tech: George Chase
- KJ7GEN Extra: Klemens Pepel
- KJ7IDK Tech: Richard D. Pepel
- KJ7IDL Tech: William M. Landenberger
- KJ7IDO General: Kristina Wojciechowski
- KJ7IDM Tech: Brian Corban
- KJ7IDN General: Jeff L. Galvin

Join us at our September 12 club meeting!

73,
Lori, WA7EDI

ADAW

ARCCC Continued from Previous Column

additional support putting the comms plan in place. We now have radios installed and ready to use in the Flagstaff office and have taken steps to include additional local amateur radio operators in Coconino County if a future incident requires additional resources to support a Red Cross response.



September is a big month for many of us. The kids are starting back to school, and sports and other activities are starting. As the weather cools, activities move more outdoors.

For Amateur Radio, September means the start of the Public Service season. Looking at mcecg.net, there are many opportunities for hams to lend a hand.

The season is kicking off with two big, out of town events. On September 7th, the Barn Burner will host a 100-mile mountain bike ride in the cool pines NW of Flagstaff. The Hams provide tracking, safety, and assist participants along their journey.

The next weekend, September 14th, marks the 36 hours of insanity called the Mogollon Monster. The Monster is an Ultra run known for its 23000 feet of elevation change along its 100-mile course. The course starts and ends in Pine with four trips up and down the Rim. The Hams provide communications, safety, and tracking along this treacherous route. Multiple shifts are required for the team to cover 36 hours. If you want to escape the heat one more time, the team could sure use the help.

There are many more events which could use your help. Please sign-up at www.mcecg.net.

As mentioned in past months, the ARA is undergoing a change in their Bylaws. The Bylaws committee has been meeting weekly for months on the updated language. The board reviews have been positive and the board approval should happen at the September meeting of the Board of Directors.

The committee has been very successful with the rewrite of the Bylaws. This has been accomplished through removal of duplicate and conflicting language. The new bylaws are organized by topics which improves the readability and allows each topic to be properly understood.

Once the Board has approved the final version of the Article of Incorporation and Bylaws, the updated documents will be posted in the members area on the website (<https://w7ara.org/Rcm/>) for members to review. When members vote in November, they will also be voting to accept the new Bylaws along with the directors for 2020-2021. Each member of record will also be receiving a post card with the web address for the new Bylaws. If you do not receive your post card in September, please contact membership@w7ara.net.

Have you been to an ARA meeting yet? Why not stop by?

The Kachina Amateur Radio Club regularly meets the second Tuesday of each month at Solterra in the White Mountains, 5408 W. White Mountain Blvd., in Show Low. However, the September meeting features our annual club picnic, and will take place on September 21st, 2019, at "The Hangout" in Linden. Specific details will be available on our club website: kachinaARC.org. There will be a short business meeting prior to the lunch.

Our recurring calendar events are: We meet the second Saturday of each month at 9:00 a.m. for donuts at Basha's in Taylor, AZ. We also meet the 3rd Saturday of each month for breakfast, at Sal and Teresa's Mexican Restaurant on Deuce of Clubs in Show Low. We enjoy sharing our common interests in eating delicious food and having fun together!

Mailing Address: Kachina Amateur Radio Club, P O Box 2996, Show Low, AZ 85902. Email: info@kachinaARC.org Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: www.kachinaARC.org

Submitted by Lydiann McFadden

ADAW

ARA Continued from Previous Column

We'd love to have you join us. Guests are always welcome. Our meetings are held on the fourth Thursday of the month at the Denny's at University and S 48th St. Although the meeting starts at 7:30 PM, join us early to eat and socialize with other Hams. See the club website at <http://w7ara.org/mtg/Meetings.aspx> for directions. September's presentation will be "CWops Club and learning CW," presented by Sergey Nikiforov, NS6W. We hope to see you there.

For more information on the Arizona Repeater Association, visit us on the Web at www.w7ara.org, or email membership@w7ara.net.

73,
Brian McCarthy, AK7F

ADAW

Continued Next Column

Hamfest Calendar

28 September 2019 - **Tucson Fall Hamfest** - hosted by the Radio Society of Tucson will be held at the Target Store, 9615 E Old Spanish Trail in Tucson. Hours - 7:00 AM - 11:00 AM. Seller Set Up 6:00 AM. Free Admission and Buyer Parking. Tailgate Spaces \$10 per Parking Space. Free VE Testing at 9:00 AM - GOTA Station - QSL Card Checking - Prizes. Snacks & Beverages Available for Purchase. No Alcohol, Drugs, or Firearms. Talk-In Frequency 146.800 FM Tone 156.7. For Information & Map, visit <http://www.k7rst.org>

5 October 2019 - **Tonto ARA Hamfest** - hosted by the Tonto Amateur Radio Association will be held at Rumsey Park, Ramada #4, 400 N McLane Road in Payson. Hours 9:00 AM - 12:00 Noon. Tailgating is \$5.00 and Vendors are \$5.00 per table. Admission is Free. A Potluck/BBQ Will Follow - Bring Your Own Meat & Something to Share. A Hot Grill and Condiments will be Provided. Everyone is Invited! To Pre-Register or for Additional Information Call or Email: Bruce Johnson, N7DDT at 928.474.4154 - stretch8@q.com

26 October 2019 - **Copafest 2019** - hosted by the Maricopa Amateur Radio Association will be held at the UltraStar at Ak-Chin Circle, 16000 N Maricopa Road in Maricopa. Hours are 7:00 AM until 1:00 PM. Admission Donation is \$5.00 per person. Spaces are \$10.00 for two parking spaces. Setup begins at 5:00 AM. Balloon Launch, VE Testing, Card Checking, Vendor Exhibits, Seminars, Prizes and more. Many activities available in the Multitainment Center including laser tag, bowling, movies, games, dining and more. Dining and Hotel also available. For information, email fest@copafest.org or visit the website at www.copafest.org.

2 November 2019 - **HARKfest** - hosted by the Hassayampa Amateur Radio Klub will be held at North Ranch Escapees RV Park, 30625 S Hwy 89 in Congress. ARRL Card Checking, Free Admission, Free Tailgate Sites (Pre-Registration is Required. Email: bridges.slt@gmail.com) Overnight Camping (Full Hook-Up or Dry) is Available (Pre-Registration is required for camping northranch@escapees.com) Tailgating permitted at campsite. Free VE Testing via LARC VE testing - Must Pre-register via email to cecarter39@yahoo.com - Prizes - Arts & Crafts Show at the Activity Center 9:00 AM - 2:00 PM. Lunch will be served at the Activity Center. Talk-In 146.620 (pl 162.2) or 146.580 (simplex) Visit the web site at harkaz.org for up-to-date information. Questions? Email Duane Grooms, KD0KYK at djgrooms@yahoo.com

9 November 2019 - **Oro Valley ARC Hamfest** - hosted by the Oro Valley Amateur Radio Club will be held at Marana Middle School, 11285 West Grier Rd in Marana. Gates open at 7:00 AM, closes at 1:00 PM. Admission is \$5.00 which includes a bottle of water. Children under 12 with a paid adult and students with any Arizona school ID are free. Sellers spaces are \$10.00 per space and includes seller's admission. Indoor VE Session with pre-registration preferred, but not required. Send an email to pre-register (email licensing@tucsonhamradio.org). Interesting Seminars - ARRL Card Checking and LOTW Assistance at ARRL Booth - Food Truck for Breakfast and Lunch. Contact hamfest@tucsonhamradio.org for more information. Visit the website at www.tucsonhamradio.org.

7 December 2019 - **Superstition Superfest** - hosted by the Superstition Amateur Radio Club will be held at Mesa Community College, 1833 W Southern Ave in Mesa. Hours are 8:00 AM - 4:00 PM. Admission is \$5.00/person (includes 1 door prize ticket) and children 12 and under free. Tailgate is \$10.00 for 2 spaces which includes 2 paid admissions tickets. VE Testing will be available. Registration is from 8:00 to 9:00 AM with testing beginning at 9:00 AM. ARRL Card Checking, Special Event Station, GOTA Station, Fox Hunt, Prizes, Live Music, and Food Vendor will be available. Contact the Hamfest Chairman at chairman@superstitionsuperfest.org for more information.

11 January 2020 - **Thunderbird Hamfest 2020** - hosted by the Thunderbird Amateur Radio Club will be held at Glendale Nazarene Church, 5902 W Cactus Road in Glendale. Hours are 8:00 AM until Noon. Vendor set up after 5:00 PM Friday, January 10 and Saturday, January 11 after 6:00 AM. General Admission - \$5.00 per person includes one door prize ticket. Kids under 12 are free. Grand Prizes, Hourly Prizes, Seminars, ARRL QSL Card Checking, Snacks and Beverages Available. Laurel VE Testing from 10:00 AM until 11:00 AM. For latest information, check the website at <http://www.tbirdfest.org>. Questions? Email hamfest@w7tbc.org.

28 March 2020 - **Tucson Spring Hamfest** - hosted by the Radio Society of Tucson. Watch for Details

26 September 2020 - **Tucson Fall Hamfest** - hosted by the Radio Society of Tucson. Watch for Details.

ADAW

ADAW



TBARC Continued from Previous Column

Election is coming up

Do you have an interest in helping to decide the future of the Thunderbird Amateur Radio Club? There will be at least a few places for board members and executives. If you think you might have a few good ideas, contact Nic Holladay ki7hzq@w7tbc.org and toss your hat into the ring. We're relying on you!

September Presentation

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. September's presentation will be "Operating at PJ2T Contest Station in Curacao" by Lee Finkel KY7M. What's it like to operate a major contest station? Did he even see the beach? And just where is Curacao anyway? Join us and find out!

Andrew Cornwall, KF7CCC
kf7ccc@arrl.net



Yes, there's a hamfest! Planning has been going on behind the scenes already for next year's hamfest, and our flyer is now public. You can pick it up at HRO, or just take a look at the back pages of ADAW for the details. We've got an excellent new domain specifically for the hamfest - tbirdfest.org - and we'll be at the same place we were last year. We're looking forward to an even better event, with more exciting prizes and great deals. We hope to see you there! Mark the second Saturday in January on your calendar today so you don't miss it!

Hamfest call for presenters

Speaking of the hamfest, we are now scheduling presenters for our seminars. If you are someone who knows a lot about a topic, can speak about it enthusiastically for 45-55 minutes, and have a desire to pass your knowledge on to other hams - this might be for you! Send a brief abstract about your topic to hamfest@w7tbc.org and we'll work to get you on the program.

A big win from the treasurer

If you've attended recent TBARC meetings, you'll have heard our treasurer Bob K1FJC mention as part of the treasurer's report that the numbers are correct "except for payments from last year." We had a number of transactions from PayPal that had been entered multiple times, and we needed to disentangle the rat's nest. Bob has done exactly that - so our books are now correct! Going forward, our balances should match what we really have. Thank you Bob!

Membership drive - renew early and (maybe) win!

At the board meeting a few weeks ago, we figured out how the 2020 membership drive will work. We're going to have three prizes this year for early renewers. The way to get the best chance of a prize is to renew by November 30. If you do that, you'll get a chance for a prize three times: at the December party, at the January meeting, and at the March meeting. Next best is if you renew by Dec 31, which will get you in the latter two drawings. Finally, if you renew by February 29, you'll still get a chance at the March meeting. You don't have to be present to win - you just have to have your name on the roster!

ADAW



September 23rd, 2019

Continued Next Column

License Testing Information

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

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

September Test Sessions

Sep 2nd - West Valley ARC -- 6:00 PM

Shepherd of the Desert Lutheran Church, 11025 N 111th Ave,
Walton Hall, Sun City
Contact - David Morrill 623.680.5011
No Walk-Ins - Call Ahead

Sep 4th - Scottsdale ARC -- 5:00 PM

Scottsdale Granite Reef Senior Center, 1700 N Granite Reef Rd,
Scottsdale
Contact - Ray Vasquez 602.363.4207

Sep 9th - CARBA -- 7:00 PM

Lighthouse YMCA, 2900 N Columbus Blvd, Tucson
Contact - Matthew Grossman 520.462.0448
Pre-Reg by email preferred - veregistration@ac7il.org

Sep 7th - DeVry ARC & WVARC -- 9:00 AM

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

Sep 7th - Oro Valley ARC -- 10:30 AM

Ascension Lutheran Church, 1220 W Magee Rd, Tucson
Contact - Quinton Gleason licensing@tucsonhamradio.org

Sep 9th - East Valley VE Team -- 6:00 PM

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

Sep 9th - Radio Society of Tucson -- 7:00 PM

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

Sep 17th - Boy Scout Troop 127 -- 8:00 PM

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

Sep 17th - Motorola ARC of Arizona -- 5:00 PM

Denny's Restaurant, 825 S 48th St, Tempe,
Contact - Edward Olague 602.885.7725
Pre-Registration Required

Sep 18th - Thunderbird ARC -- 6:00 PM

Honor Health Medical Office Bldg, 19841 N 27th Ave, Phoenix
Contact - Brian McCarthy 623.486.0507

Sep 21st - Yavapai ARC -- 9:00 AM

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

Sep 29th - Arizona ARC -- 7:00 PM

American Red Cross, 4747 N 22nd St, Phoenix
Contact - Gary Hamman 602.996.8148
No Walk-Ins - Pre-Register by Saturday Before



ADAW



President's Corner

Steve, KB7KWK

I can report that our annual Organ Stop Pizza event was attended by 103 members and guests! Also, as I suspected, if one sits closer to the food, the acoustics are clearer on the organist's microphone.

It was great seeing all of you at Organ Stop Pizza this year. Usually we have around 50 people at this event. About half way through Vice President, Andy Keels, approached me and told me that the manager advised him there were 103 people who paid. I just about fell out of my seat. The employees had to scramble to make more pizza dough and get some more in the oven. That was a great problem to have.

I did things a little differently this year. Instead of handing out awards, I wanted to recognize and honor several people on the Board of Directors and committees for all their hard work. We also handed out some free raffle tickets and gave away a few radios.

I really like to see our club members come together at these club events. We, the Board, are going to try to put more social events together for next year.

It has been one of my goals as President to help grow the club membership to more than 200 members. When I first was elected club President in 2008, there were around 75 members in the club. As of Saturday, July 20th, I was advised by our membership committee that there are now 203 paid members in our club. I have met my goal! It might have taken me several years but we made it. I hope to see the club continue to grow year after year. At this rate, the SARC will soon be the biggest Amateur Radio Club in Arizona. Thank all of you for being a part of such a great club.

While we were all enjoying our pizza, I learned that Myrna Cross, KN7M became a silent key. I dedicate the rest of this year's club meetings and events to one of God's newest angels. She is sure to be making them all smile as she looks down upon us all. Rest in Peace my friend.

K9EID, Bob Heil, to be our September Guest Speaker

Coming in via Skype, Bob Heil, of microphone fame, will be our guest presenter come Tuesday, September 17. It's been twenty years since we have had a national figure be our guest, when Lew McCoy, W1ICP, then-Editor of CQ Magazine, gave a talk in person. We filled our meeting room with 99 people, as I recall!

Our meeting starts at 7:00 PM, Tuesday, September 17. Please see Page 3 for meeting address and more about our club. Visitors are always welcome.

Myrna Cross, KN7M, Silent Key

It is our sad duty to inform the membership that Myrna Cross, KN7M has been added to the list of Silent Keys on July 20th, 2019. She is survived by her Husband Terry, NK7T and other

Superstition Continued from Previous Column

family members. She was a Life Member of the club. Services were held at Bunker's Funeral Home in Mesa.

Myrna and Terry were involved in a very bad car accident and Myrna survived for about six days before being moved to hospice. Unfortunately she was injured too badly for doctors to save her. Terry and Myrna are two of the nicest people I have ever met. I will miss the smile she always had and will never forget it. Myrna and Terry always tried to attend all of our club functions, and Myrna always helped out at the Superfest.

Steve, KB7KWK

From Larry, WB7C

Terry, NK7T told me that when Myrna joined the club, then-Vice President Lloyd Watkins, KB7BEI, introduced her to Terry, "a nice Christian man." The story that I want to pass along is this:

After their getting to know each other and a year of dating passed, the couple married. Terry placed his and Myrna's Extra Class applications for new callsigns into one envelope along with a cover letter to the FCC asking, if possible, the Commission would issue sequential callsigns, for they had just married.

The FCC did them one better! It issued reversed prefix callsigns with a suffix for each first name initial: NK7Terry and KN7Myrna!!

Terry and Myrna were married for 24 years and are both life members of our club. Myrna was always in attendance and will be dearly missed.

July Meeting Winners

In July the club gave away a programmed Retevis UHF HT on the \$1 ticket (6 for \$5) and a Yaesu Fusion FT-70DR dual-band HT on the \$5 ticket (5 for \$20). The \$1 winner was KI7LXY, Mike Bailey (pictured first) and the \$5 winner was WB7C, Larry Kuck. The tall guy is KB7KWK, President Steve.



Mike Bailey KI7LXY
\$1 Dollar Winner

Larry Kuck WB7C
5 Dollar Winner



Congrats to the lucky winners!

Continued Next Column

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We set a record at Organ Stop!

The annual Organ Stop Pizza Party drew a record 103 members and guests! We usually draw about mid-fifties in attendance. Pictured here are Board and Committee personnel being honored by the President in front of the Organ Console pit.



73 from Larry Kuck, WB7C for Superstition ARC's portion of ADAW

ADAW

Superstition ARC Repeaters

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

Club Nets

- Morning Drive Time Net:** Mon-Fri, 7:00-8:00 AM - Trivia
- City of Mesa CERT Team Monthly Net:** First Tuesday of month, 7:00 PM
- Weekly 6 Meter Sideband Net:** Wednesdays, 7:00 PM on 50.140 MHz, W7ASL-L EchoLink, and 145.575 FM Simplex
- Club Net:** Wednesdays, 8:00 PM - Discussion, Elmer Q&A.
- Mesh Information Net:** Thursdays, 7:00 PM - Net control Steve, KB7KWK

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

Club Membership is open to anyone with an interest in Amateur Radio. Visit: <https://superstitionarc.org> for more information.

Superstition SuperFest

The Superstition SuperFest is held on the first Saturday of December. Visit www.superstitionsuperfest.org for the latest information.



OVARC is making huge progress advancing its repeater network into the digital age. With over 10 repeaters now in the system we are able to reach the edges of the Tucson area with Fusion, DMR, D-Star and FM. Thanks to Gary-KT7AZ, Jim-W5ZIT, Tom-W7TRA, Howard-KC7AC, David-AK2L and other members of the OVARC Repeater Committee.

Our July member meeting was well attended as our monthly attendance figures approach 100 people. During our July meeting we gave special recognition to one of our deceased founders, Ron Walther – W7AI. Ron passed away in July of 2015 at which time the club was able to retain his call in his honor.

Scott – W7ADX was a victim of a roller skating accident a month ago. With a collection of broken bones, Scott was able to wheel himself to the July OVARC meeting and assist Carl-KB7AZ and Roger-K7ROG in running the SKYPE connection to our guest speaker. THANK YOU SCOTT! Amateur radio is always a topic of conversation for Scott. During his short visits to rehabilitation, Scott was able to tell the OVARC story to another licensed amateur, who has since joined the club. We don't know of another amateur radio operator that solicits new club members at rehab. This is another FIRST for Scott! Way to go!

At July's meeting we raffled off two radios. The Icom IC-7100 was won by Ken K7EAZ. An active club member, Ken had the transceiver on the air within a day. The Yaesu FT70 handheld was won by Richard KD6CCM.

Planning is well underway for our November hamfest. We expect to have a HUGE sales table this year as a result of so many generous donations that have been made throughout the year.

73, Steve, W1SR

ADAW

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ATN Continued from Previous Column

ATV repeater output available as a service on the mesh network. The concept has been proven and it works very well. The integration is a work in progress though. It's still a manual process. Our goal is to make the connections automatic and we're close to accomplishing that.

Mesh Networking Status Page

That's all for this month. As you can see, we have plenty going on. We look forward to seeing you on amateur radio!

VIDEO OUTPUT
1253.25 MHz VSB

VIDEO INPUT
434 MHz VSB/DVB-T
2441.5 MHz FM

VOICE
448.400- (100.0 Hz)

In July, we held our ATN-AZ Summer Meeting at Rod Fritz WB9KMO's QTH in East Mesa. Several ATV'ers from Arizona and California attended and we were pleased that several of the mesh users in the Mesa area came to see what ATV is about.

Rod WB9KMO QTH – Mesa ATV Repeater

Rod showed off the Mesa ATV repeater that's at his QTH. The new ATV link system there is now operational, connecting ATV repeater audio/video and FM repeater audio between Mesa, Mt. Lemmon and White Tank. The signal quality is greatly improved from what we had on the link at White Tank.

ATV isn't what most people remember it being years ago. It has moved into the 21st century with digital TV, video streaming and mesh video. We regularly have net check-ins from many states and even from foreign countries. The Tuesday night net is the busiest, typically with 25 check-ins on ATV and 25 check-ins on the Internet.

Streaming ATV to YouTube with vMix

Though not new, many of you may not be aware that ARNewsline has a video version as well as an audio one. Every week, Don Wilbanks from HamNation creates a video newscast that we put on the air during our ATV nets. It's generally about five minutes long, packed with current ham radio news and excellent background video.

Roland KC6JPG Net Control Showing ARNewsline

We now stream live on www.YouTube.com. To watch us, search YouTube for "W6ATN Live" or "W7ATN-MESA Live." Our nets are Sunday and Wednesday at 7:00 pm and Tuesday at 7:30 pm.

You can listen to the nets and check in with audio-only on 448.400 PL 100.0 in the Phoenix/Mesa area and 445.225 PL 103.5 in Tucson. We'd love to have you join in.

We have a new feature the uses WebRTC technology on the Internet. During our nets, you can check in with your live video over the Internet by browsing to appear.in/amateurtvnetwork. From there, you can interact with the net control who will patch you into the net when it's your turn. This is an easy way to get on ATV until you get your ATV equipment on the air.

We are also integrating mesh networking with ATV. This merges the advantages of both modes. Mesh video is inexpensive and easy to put on the air. We pass the mesh video into our ATV repeaters for efficient distribution locally on RF and worldwide through our YouTube streams. We make the



Continued Next Column

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For Sale -

Steppir 3-Element Antenna with optional 40M - 30M Dipole (Trombone) Kit. Also with 6M passive element, SDA 100 with D25 splice, and plug in connector junction box (pipe-bomb upgrade). Excellent Condition - \$2,000.00

Contact Bob Drake AF7EL at 623.385.6531 or email af7el@yahoo.com

The **West Valley Amateur Radio Club** has radios and ALL kinds of supplies available for sale through the club. We get some old equipment that won't sell that will be added to the items for free. Contact: Ken Jenkins, WB6MMV at kjenkins5623@gmail.com or Bob Kettler WA6MIO at rdkettler@msn.com.

Hello All,

I am sorry I was late for last month's ADAW. Our external activities have been receiving a lot of attention. We lost a member of the club for the last 20+ years. Our SK is Myrna Cross. She and her husband have been very active in the club for many years.

I have ordered and received a Nano VNA from banggood.com. This instrument covers from about 50 KHz through 900 MHz. This instrument measures return loss (VSWR) and signal loss or gain through the tested unit with phase. I have seen many instruments that test similar measurements costing well above \$900.00. This one sells for \$50 to \$90. I am very excited with the instrument, as well as my many friends. I would recommend it to all. It does a lot more than most antenna analyzers. It will even do a great job tuning duplexers for repeaters.

Our club external activities have also been doing very well. The club breakfast is having more attendance as well as the club net on Tuesday evenings.

Our club raffle is now for a FT 70D Fusion handheld transceiver is probably going to be drawn in November. This is a great way of going digital on VHF and UHF.

The club has a number of towers and antennas to be sold. Contact the club Board on availability, location, etc.

Our last General meeting had a great speaker covering lightning and its effects. Look at our web site for more information.

We do have many members working SOTA (Summits on the Air) and have a lot of interest. One of our nonmembers, W7RV Tommy Taylor, is very active in this and has accumulated many points in this activity. I retired from Motorola and knew Tommy Taylor there

On the machine shop I purchased in Yarnell, AZ - I found many difficulties. I found the owner used duct tape for wire nuts. There were many broken bolts, bent bolts, and missing bolts. Most of these were special and needed to be machined. I have completed most of that and will be continuing forward. More updates next month.

73's
Paul W7EFQ



ADAW

SARCCONSTANTS:

SARC is a 501 (c)(3) club. That means all donations are fully tax deductible. Contact Paul Finell W7EFQ at 602.741.6563 for information on estate donations and equipment pick-up.

For membership information, call Ed Nickerson, WU7S at 480.949.5162. Please send address change requests to Judy no later than the 7th of the month in which you would like the change to occur.



ADAW



There have been some changes made to the club relating to the monthly meetings. During the July meeting, the membership voted to have business meeting quarterly, leaving the remaining meetings open for projects, hands-on presentations, or a morning of coffee and rag chewing at the local IHOP. Something other than the same old boring business and repeater updates.

Two other items prior to the updated meeting schedule.

Bob B., N7GW will be starting up his kit project, ask an Elmer sessions in September 2019. More information will be posted on the club Facebook page as soon as the date(s) are known.

Dave, N3MRW has provided a secure web site for the club to create a member directory. This will be voluntary and include only what each member wants to add. The main purpose is for members to find those with similar interests, Elmers, etc. Either Dave or Curt.

That being said, here is the schedule for the remainder of the year.

Saturday, September 7, 2019 - Brian, KI7QVR will start off with a hands-on project for Direction Finding. This will include making a portable 2M yagi. If you are interested, contact me directly and I will forward your information to Brian. More information to come as it is available.

Saturday, October 5, 2019 - Given the CopaFest lunacy is at the end of the month (October 26), a relaxing eyeball at the Maricopa IHOP at 9:00 AM would be in order.

Saturday, November 2, 2019 - Regular meeting. At this meeting new board members will be elected. Board members do not have to be licensed hams, and they provide oversight for the club and its officers. We also need to finalize CopaFest. If I can find someone to give a presentation that will also be on the list.

Saturday, December 14, 2019 - The MARA Christmas/Holiday party to be held at Barro's Pizza in Maricopa at 4:00 PM. This will be business free and the entire family is invited. More information to come.

Saturday, January 4, 2020 - Business meeting and installation of the new Board Members. The club schedule for the remainder of the year will be determined.

Something to consider for Winter Field Day. Run the event with boat anchors. Give new hams an idea of how it used to be, and bring back some memories for the rest of us (good and bad) and have fun in general.

Please email us, contact us on Facebook, or check out the club webpage for more information!

David French, N7FAN
Maricopa, AZ
www.n7fan.com



The Yavapai ARC welcomes visitors, both licensed and interested in ham radio. Come join us for one of our regular club meetings. We meet on the first Thursday of every (almost) month, in the Freeman Building on the Prescott Rodeo grounds. Meeting times are 7:00 PM with people showing up to visit about 6:00 PM. Please note that we will not have a meeting in September 2019.

YARC is one of the largest and most active amateur radio clubs in the southwest. Our home is in beautiful Prescott, Arizona, where we have the summertime benefit of our 5000-foot altitude. We are an ARRL Special Service club. The designation reflects our active public and community service efforts. YARC currently provides support communications for 13 community events in the greater Prescott area. Coming up in September are: The Skull Valley Loop Challenge on the 15th, March of Dimes Walk for Babies on the 21st, the Groom Creek Classic on the 21st, and the Prescott Road Rally on the 27th. We do try to keep busy!

The Prescott Hamfest celebrated its third year this June and is growing each year.

YARC tries not to forget our new members and those wishing to upgrade their licenses. Coming up August 24, is a review session for those who are studying for the Extra Class license. On October 19 and 26 comes a two-day Technician class. Our instructors have had a very good record of turning out new licensees, so if you know anyone in the central Arizona area who wants to get that first ticket, here is the chance.

More information can be found on our club website www.w7yrc.org. Testing for all classes of amateur license will be held on September 21 and November 16, 2019. Pre-registration is strongly recommended for testing, and is easily done on our website. Test sessions for 2020 have not yet been confirmed.

So, come on up, down, or over to Prescott and pop in for a visit or join us. The Yavapai Amateur Radio Club is here to serve.

Real Estate

*Are you or someone you know looking for a Ham Home?
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No Reports Received

Old Pueblo Radio Club INTERMOD

President's Column

Do you know the story of the "Code Talkers?" It is the story of how Navajo Americans contributed greatly to victory in WW II with their unbreakable code. Yes, it really was unbroken. And, it intimately involves radio and radio communication. One of our CADXA Members, Bob Davies, K7BHM, knows the story well. Come hear him tell it. There is also a generational component to the story linked by the annual Special Event Station in Window Rock, Arizona held to commemorate the Code Talkers' achievements. Ever wondered about putting on a Special Event Station? Come hear that story, too.

Bob Davies was first licensed in 1957 at the age of 13 (KN7BHM) while growing up in Phoenix. He upgraded thru to an Extra Class License in 1982.

He graduated from Northern Arizona University in 1966 and retired with over 40 years in the Electronics/Aerospace industries here in the Phoenix area. Bob was the Chair of the ARRL 2004 Southwest Division Convention, held in Phoenix, and was the Program Chair for the International DX Convention for eight years between 2002 and 2015.

Bob met a gentleman from the Navajo Reservation, Herb Goodluck, N7HG, in 2004 whose father was a Navajo Code Talker. Every year since 2004, Herb has requested the Special Event Station call N7C, and set up a portable station at the Annual Celebration of the Navajo Code Talkers on August 14th in Window Rock, Arizona. Herb established the Special Event Station in honor of his father, John V. Goodluck, who was one of the original 420 Code Talkers during World War II.

Our last meeting had an excellent presentation by Patrick Stoddard, WD9EWK, on satellite DXing. If you want to follow-up on his presentation, he appears regularly at hamfests for satellite demonstrations.

Our next meeting will be Thursday, September 5th, at the Salt River Project PERA Club, 1 E. Continental Drive, Tempe. Join the informal social hour at 6:30 p.m.; the meeting will start at 7:00 p.m. See you there.

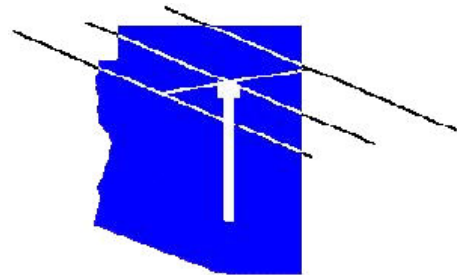
Special note: Because of construction at the PERA Club, we will be meeting at the Granite Reef Senior Center, 1700 N. Granite Reef Road (just north of McDowell Road) for our October and November meetings. The September meeting will be at the usual PERA Club location.

OPRC Repeaters

146.66 - PL 110.9 wide coverage W7GV

RACES Repeaters

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



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IC-7100 | All Mode Transceiver

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ID-5100A Deluxe

VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch



IC-7700 | HF/50MHz Transceiver

- The Contesters' Rig • HF + 6m operation • +40dBm ultra high intercept point • IF DSP, user defined filters • 200W output power full duty cycle • Digital voice recorder



IC-718 | HF Transceiver

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ID-4100A | VHF/UHF Dual Band Digital Xcvr

- Compact, Detachable Controller for Flexible Installation • DV/FM Near Repeater Search Function • Apps for iOS™ and Android™ devices • Wireless Operation with VS-3 & UT-137 Bluetooth® Headset & Module • MicroSD Card Slot



IC-7610 | HF/50 MHz All Mode Transceiver

- Large 7-inch color display with high resolution real-time spectrum scope and waterfall • Independent direct sampling receivers capable of receiving two bands/two modes simultaneously



IC-2300H | VHF FM Transceiver

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IC-R30 | Digital/Analog Wideband Xcvr

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- FAX – All store locations
- MAIL – All store locations



I want to thank Mike, Laura and ALL the staff here at HRO for helping me get ready for 3.3 GHz for my new manager's position. I come from the East Valley so it has been fun to meet so many new Hams from the Phoenix Valley. Thanks for your continuing support, Ron AJ7T

Now serving you at our Phoenix store: Manager Ron AJ7T, Steve W7QY, Mike K7DD, Jim K7EOG, Jim KE7EEU, Richard KIRAB, and Bob W8RH.