

4529 W. Park Place Glendale, AZ 85306-1512







Arizona Desert Aire Waves

Vol 43, No 11

November 2018

CLUB MEETING SCHEDULE

SARC

Nov 7th Scottsdale Senior Center 7:00 PM

OPRC

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

AARC

Nov 8th Red Cross Bldg. - Phx 7:00 PM

TBARC

Nov 15th North Phoenix Campus Northern Arizona University 7:00 PM

CADXA

Nov 1st PERA Club 7:00 PM

ARCCC

Nov 17th American Red Cross Bldg Phoenix 9:00 AM

SuperstitionARC

Nov 20th Charles K Luster Bldg 7:00 PM

MARCA

Nov 20th Denny's Restaurant - Tempe 6:30 PM

ANSR

Nov 15th via GoToMeeting 7:30 PM

OVARC

Nov 16th Ascension Luthern Church 7:00 PM

KARC

Nov 13th Solterra at White Mtn - Show Low 6:30 PM

WVARC

Nov 5th Shephard of the Desert Luthern Church 7:00 PM

ARA

Nov 19th Denny's Restaurant - Tempe 7:30 PM

MARA

Nov 3rd Maricopa PD Community Rm 9:00 AM

YARC

Nov 1st Prescott Rodeo Grounds 7:00 PM

TCARA

Nov 19th Goodyear City Hall 7:00 PM

QCWA-AZ Chapter

December TBD 12:00 PM

ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURS**-**DAY** 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	r 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.

cutor.			
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	K0OTZ	
At-Large	David Yee	N7AJR	
	Bill Kouchis	N9EIV	602.723.0700
	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

Treasurer

The Arizona Near Space Research group meets the **THIRD THURS**-**DAY** 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	

Bill McLean, K7WWM

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

President	Brian McCarthy	AK7F	president@w7tbc.org
Vice President	Chris Johnson	K6OZY	vicepresident@w7tbc.org
Secretary	Gary Cline	AF7BJ	secretary@w7tbc.org
Treasurer	Darren Johnson	AF7CO	treasurer@w7tbc.org
Board Members	Clair Wyant	KG7MAJ	kg7maj@w7tbc.org
	Wayne Hale	W6IZK	w6izk@w7tbc.org
	Robert Fairfield	K7RQN	k7rqn@w7tbc.org
	Andrew Cornwal	1 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 Directo	rs: Cliff Hauser	KD6XH	
	Jim Ulmer	KC7THU	
	Lin Donnelly	KF7CNR	
WebMaster	Ted Willis	AA7HX	520.790.3828
	(www.oprc.org)		
Trustees: (all r	epeaters operating	under the K7	TRA call)
Primary	Cliff Hauser	KD6XH	
	146.660, 146.820,	147.220-	
	Paul VanBeverh	oudt KA7LFX	X 224.06+
Secondary	Ted Willis	AA7HX	146.66-
	Ralph Turk	W7HSG	146.82-
	Paul VanBeverh	oudt KA7LFX	X 224.06+

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

AZ RED CROSS COMMUNICATIONS CLUB

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

President	Frank Engstrom	KB7IQ	480.209.7300
Vice President	Larry Buchanan	AA0LB	623.703.9161
Secretary	Rob Rodriquez	KI7PDR	
Treasurer	Mark Kesauer	N7KKO	602.843.0960

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

bmcleanl@gmail.com

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 October Fall Meeting Phoenix Area Holiday Meeting December Carefree Area

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

President	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 n6m	y73@gmail.com
Treasurer	Bob Sitterley	K7POF	928.636.2146
Secretary	Lori Cripps	WA7EDI	602.955.7517

Web Site: 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 FIRST SATURDAY of each month at 9:00 a.m. at Maricopa PD Community Room, 17985 N Greythorn Dr. in Maricopa.

President Vice President	Steve Miller Chris Canevit	W6SDM W7CGC	602.290.1603
Secretary	John Wiltberger	NO7IN	
Treasurer	Curt Steger	NA7CS	520.568.9471
Board Members:	Ronald Beasley	KG7MUV	520.568.4880
	Bob Howard	W8RH	520.709.6176
	David French	N7FAN	480.430.9426
	Dale Dallon	KB7DD	
	Greg Harding	KG7VNZ	
PIO:	Steve Miller	W6SDM	602.290.1603
Webmaster:	David French	N7FAN	480.430.9426

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

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, AK7	F ak7f@w7ara.net
Vice-President	Erv Heimbuck, K0OTZ	k0otz@w7ara.net
Treasurer	Cole Cunningham, AA	ARD aa7rd@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net
Board Members:		
Lance H	alle, KW7LH	kw7lh@w7ara.net
Dennis E	Bietry, KE7EJF	ke7ejf@w7ara.net
Doug Pe	lley, WB7TUJ	wb7tuj@w7ara.net
Joe Godt	frey, AE7JG	ae7jg@w7ara.net
Dennis C	Campbell, AE7WU	ae7wu@w7ara.net
Mike Mo	ontalvo, KF7MBK	kf7mbk@w7ara.net
Marty D	usenberry, KE7DGP	ke7dgp@w7ara.net
James W	asson, 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:	Dan De Vlieger	KC7MSU	480.335.4914
	Dan Karnes	W7TWR	602.502.5259
	Don Rollock	W2EULw2eu	l@yahoo.com
	Jeff Harris	K2DFE	602.617.6930
	Jeff Heinze	N7CCW	480.720.7908
	Jeff Marchesky	K7ZLX	602.628.0238
	Larry Fort	AB7C	480.861.7066

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.



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. Vistors are welcome to attend. Come early for dinner and socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications.

President	Norm Johnson	AA7OO	480.278.2886
Vice President	Dave Hall	N7ZPY	
Treasurer	Don Aldridge	WA7RLL	
Board Member	David Yee	N7AJR	
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.

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).

Lee Finkel	KY7M	ars-ky7m@cox.net
Fred Hoffert, III	NA2U	cwman1@aol.com
Bill Poole	AA4Q	bill@poole.com
Alton Chaney	W7AC	X w7acx.480@gmail.com
Tom Kramer	NQ7R	tkramer@azci.net
Larry Loen	WO7R	lwloen@gmail.com
Reinhard Geissle	r K7RGG	dl1uf@compuserve.com
	Fred Hoffert, III Bill Poole Alton Chaney Tom Kramer Larry Loen	Fred Hoffert, III NA2U Bill Poole AA4Q Alton Chaney W7AC2 Tom Kramer NQ7R

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	Kathy Laing, KJ6KMK	president@w7yrc.org
Vice-President	Joe Thomas, KG6IDN	vice_president@w7yrc.org
Secretary	Art Jackson, KA5DWI	secretary@w7yrc.org
Treasurer	Mike Reid, N7IEP	treasurer@w7yrc.org
Board Members	Frank Bender, K8FB	k8fb@w7yrc.org
	Don Bauer, WB7TPH	wb7tph@w7yrc.org
	Dave Hanson, W7BJ	w7bj@w7yrc.org
	John Laing, K7PRS	k7prs@w7yrc.org

Yavapai Amateur Radio Club, P O Box 11994, Prescott, AZ 86304-19994. 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.

Steve Wood, W1SR	president@tucsonhamradio.org
Fred Bresani, W2HZ vio	cepresident@tucsonhamradio.org
Carl Foster, KB7AZ	secretary@tucsonhamradio.org
Hanna Eckert, KG7TPD	treasurer@tucsonhamradio.org
Ross Eckert, K4WBR	
Scott Boone, K7ADX	
Gary Pierce, WE7GP	
	Carl Foster, KB7AZ Hanna Eckert, KG7TPD Ross Eckert, K4WBR Scott Boone, K7ADX

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/.

George Cooley, NG7A Marnee Dearman, KG7SIO

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	Merle Kissling	KB7MUB	928.386.5426
Vice President	Steve Herron	AG7GD	928.242.2558
Secretary	June Apedaile	KF7KVV	928.243.3780
Treasurer	Dennis Wilkers	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

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.) 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	Jack Landon	KD7ROB	480.759.5195
Vice President	Jim Felkey	N7BBS	480.966.7084
Secretary	John O'Neal	K7JP	480.345.7800
Treasurer	Karen McConag	shy NO7D	602.799.7338
Board Members:		-	

Jean Jolkovski W4CIH ADAW, Publicity Steve Warford WB4ZSC Tech/IT, CARL/ASC Interface Tom Salt AD7PM At Large Sam Marshall N7INV Scheduling John O'Neal K7JP Teacher Packets

President/Emeritus Bob Burleson KG7QJ Robert Faerber W9AQ Log Book

Direct Phone: 602.716.2082

Web Site: http://www.w7asc.org Web Master - Allyson Lee For information: Email to <u>carl@w7asc.org</u> or call Jack, KD7ROB

at 480.759.5195.

TRICITY AMATEUR RADIO ASSOCIATION

The TriCity Amateur Radio Association meets the THIRD MON-**DAY** of the month at 7:00 p.m. in the Goodyear City Hall Conference Room located at 190 N Litchfield Road in Goodyear. Parking is available on the west side of the building. (A social gathering is held at Village Inn at 2700 N Litchfield Road after the meeting.) Weekly Rag Chew every Wednesday at Village Inn (2700 N Litchfield Road) at 2:30 p.m. All hams are welcome. Weekly net is held Wednesday evenings at 7:30 p.m. on 446.400 MHz (PL 100 Hz). Events are posted on our Yahoo Group page at https://groups.yahoo.com/neo/groups/ TRICITYARA/info

President	Bob Nobis	N7RJN	n7rjn@nobis.net
Vice President	Open		
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Carol Melton Secretary AK7N ak7n@azsnaps.com Treasurer Arnold Knack KA7AOK ka7aok@gmail.com

TriCity ARA, P O Box 6293, Goodyear, AZ 85338-6293, DUES: \$18.00/yr. for individuals, \$25.00 for family. Web Site: http:// n7tca.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 the third Tuesday of the month at JB's Family Restaurant, 9889 W Bell Rd in Sun City at 2:00 PM. 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	Gary Robin	K9HDU	623.234.2252
Secretary	April Kramer	KI7GFJ	602.284.6212
Treasurer	Tom Connor	W7TLC	623.444.7956
Board Member:	Robert Paul	KG7FIL	623.252.0149
	Nancy Collins	KG6QWW	623.398.5286
	Many Blanco	KI7QLD	480.395.1653
	David Putman	W7DCP	253.307.0544
Past President	James Rogers	N7YTI	623.214.9219
Committees:			
Membership	James Rogers	N7YTI	623.214.9219
Support Commu	inications Comm	nittee Chair	rman
	Kris Philo	AI8TT	623.853.0586
Technical Advis	sory Committee	Represent	ative
	Frosty Oden	NQ1S	602.899.8055

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.com. Email: suncitywvarc@gmail.com

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



The <u>Arizona Desert Aire Waves</u> 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 approximation 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

ADAW Staff

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ADAWWERSITE		z.org or adaw@adaw.org
ADAW WEBSITE	www.adaw.o	ııg

ADAW

Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Heart of Arizona	Congress	11/03/18
MS Walk on the Wild Side	0	11/03/18
Phoenix Half Marathon	Downtown Phoenix	11/04/18
Cave Creek Cactus Classic	Cave Creek	11/10/18
Xterra San Tan Trail Run	San Tan Park	11/11/18
AuxComm Interest	TBD	11/30/18
Scottsdale Half Marathon	Scottsdale Civic Ctr	12/09/18
Xterra - White Tank	Waddell	01/06/19
Prickly Pedal	Cave Creek-Lake Pleasant	01/19/19
Pancake Run	Paradise Valley Mall	02/03/19
Xterra McDowell Mtn	Fountain Hills	02/03/19
Black Canyon 100K		02/16/19
Spring Valle	y to the Emery Henderson Trail	head
Xterra Black Canyon Trail	•	03/10/19
ž	Black Canyon City	
ADA Tour de Cure	North Valley	03/16/19
Mesquite Canyon	Waddell	03/16/19
	Lake Pleasant to Crown King	03/30/19
March of Dimes for Babies	_	04/13/19
Wessley-Bol	in Park, Downtown Phoenix	
,		

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.





Daylight Savings Time Ends November 4th

From The Editor's Desk

Just got back from Copafest in Maricopa. Wow, what a wonderful event! The UltraStar Multitainment Center is a perfect place to hold a hamfest. There's something for everyone! In addition to the usual hamfest activities of a swap meet, seminars, meetings, testing, etc., there is laser tag, bowling, movies, and a host of arcade games in the UltraStar Multitainment Center for you to enjoy. Dining is available next door along with a hotel and casino. It's perfect for a weekend getaway for the whole family. Watch for information on next year's Copafest and plan to attend. You'll enjoy it!

The Amateur Radio Council of Arizona held their fall meeting at Copafest. Attendance at the meeting was good and discussions were lively. Among the agenda items was the setting of the meeting calendar for 2018-2019 which will be published on the ARCA web site at www.arca-az.org. There was discussion on several additional items on the agenda as well.

Rick Paquette, the ARRL Arizona Section Manager, announced that the 2019 ARRL Southwestern Division Convention will be held in Yuma in February and at this time, the 2020 Convention will as well. A request was received from the Yavapai Club to host the 2019 ARRL Arizona State Convention at their Prescott Hamfest on the 31st of May and 1st of June. Their request was approved by both the ARRL Section Manager and the ARCA membership.

Mark, N7KKQ tendered his resignation as 2nd Vice-Chairperson of the council due to health reasons. Doug Mitchell, W7ADD accepted the appointment by Chairperson Bob Howard, W8RH and will serve out the remainder of the term. Ray Vasquez, K4RMV was appointed Equipment Manager. It will be his job to keep track of and maintain ARCA's inventory of hamfest equipment and trailers.

One of the items that were discussed and was the disposition of the remaining ARCA tent. It was decided that the tent will be sold, either on Craig's List or other means with local pick up only. The tent is 16' X 32' and is good condition. ARCA used it only a couple of times at the Williams Hamfest. The sides roll up for ventilation. If anyone is interested, or knows of anyone who might be interested, please let ARCA know via email at $\frac{1}{1} \frac{1}{1} \frac{1}{$



This picture is a stock photo of the tent that ARCA is selling. It is not the actual tent.

Continued Next Column

Editor's Desk Continued from Previous Column

November brings us not one, but two hamfests. Unfortunately, they are both scheduled on the same day (November 10th), so you'll have to choose.

The first one on November 10th is the Oro Valley ARC Hamfest in Marana. This event is held at the Marana Middle School. There will be seminars, VE testing, and prizes. A food truck will offer both breakfast and lunch items. There is a \$5.00 per person admission. Children under 12 and students with an Arizona school ID are free.

The second November 10th hamfest is HARKfest. Presented by the Hassayampa Amateur Radio Klub, the event will be held at the North Ranch Escapees RV Park in Congress. This swap meet is free admission and free tailgate spaces. Overnight camping with hookups (or dry) is available through the RV park, and tailgating in your camping spot is permitted. VE testing will be available by reservation only (cecarter39@yahoo.com). There will be an Arts & Craft show in the Activity Center and lunch will be served there also.

No matter which event you choose, you are sure to enjoy yourself. So mark your calendar for November 10^{th} and check out one of these.

Since Thanksgiving is rapidly approaching, I'd like to personally thank all our club newsletter editors for the excellent job they do in presenting news of their club activities. It's a tough job writing a column every month and our editors do so admirably. Be sure to thank them at your next meeting.

Also, thank you to our advertisers. Your continued support makes this publication possible and it is deeply appreciated.

Most importantly, thank you to our readers. Without you, there would be no reason for this newsletter.

Have a very Happy Thanksgiving and an enjoyable day with your family and friends.

'Til next month -Chris, N7PVL









AMATEUR RADIO SERVICE DEMONSTRATION STATION

W7ASC in the news! Open your October QST and turn to page 100. At the bottom of the page you will see a short article. A photo is included. C.A.R.L. has been awarded a Community Service award. C.A.R.L. is the organization that operates W7ASC. Read the article for further details. The photo shows Jack KG7ROB, the C.A.R.L. President, holding the award.

Have you ever visited the Ham Shack at the Arizona Science Center? W7ASC has been a part of that Center ever since the building was opened. The organization that operates the station, C.A.R.L. (Center for Amateur Radio Learning) was in existence prior to that opening. The call sign, W7ASC, is not the original call, but is a vanity call. C.A.R.L. is now a 501(c)(3) corporation.

Station management believes that W7ASC is the only Ham radio demonstration station in Arizona that is available to the public on a continuous basis. It is a very rare day when the station is dark.

The volunteers, who are on duty at W7ASC, have a wide range of Ham capabilities to operate and demonstrate. Visitors are invited to participate in their own QSO. Local Hams are very quick to respond to requests for a demonstration QSO.

When you visit the Shack, and you should, you will note that the Shack is lined with racks that hold hand out material. When we say "you should visit," we make that statement as this Station is there to represent the entire Ham community. What is told to visitors is not just the W7ASC story. They hear the Ham radio story. The volunteers on duty are speaking for you! Perhaps it would be wise to stop by the station in order to be certain that story is correct and complete! Conversations go beyond Ham radio. If the visitor is interested, they hear some detail about early methods of communications, including the history of the telegraph and Morse code. Visitors often ask what the word "Ham" means, and how it came to be used. How would you answer that question?

Of all of the printed information that is available for visitors at the Shack, the Volunteers believe that the current ADAW newsletter is the most useful for the visitor. Copies of the current ADAW are always available as a hand out. It is the practice at the Shack to point visitors to the ADAW contents. They are urged to find a club that is in their general neighborhood. It is suggested that they read that club newsletter and even visit a club meeting. When your club

Continued Next Column

CARL Continued from Previous Column

submits a document for inclusion in ADAW, keep in mind that it could be read by your non-Ham neighbors. Make sure that it is interesting and inviting. Write about activities and public service events in which your club has been, or will be, participating. Where can the non-Ham see your club in action?

In addition to copies of ADAW, visitors can pick up articles from ARRL, Hamfest schedules and articles of general technical interest.

The Arizona Science Center sees a steady stream of visitors from local schools. Although these groups are often guided through the Center by a volunteer adult, many attend with their teacher. For that reason, John K7JP, himself a retired teacher, has prepared a special collection of Ham-related material designed for use in the classroom. There is a wealth of information in these free "Teacher Packets" and most visiting teachers seem to be thrilled to be able to leave with such a thoughtful teaching resource. Quite frequently a teacher will stop by to request a packet that was the subject of a chat back at the school.

Within that packet there can be found a long list of articles about Ham radio and Public Service. The story here is that the ham radio contribution to the community is not limited to emergency communications. Very ordinary events work better when there is good communications and Ham radio can, and does, often provide that service. You might want a copy of that long list so that you can hand it out at the next public event in which your club will be participating!

While we are at it, there is always room for a few more volunteers at W7ASC. Call the Shack (number above) or visit the web site for more information, and submit the application in order to join in the fun. We have said it in previous newsletters, but let us repeat that volunteering is not a rigorous commitment. Sam N7INV, who keeps the volunteer schedule, will work to fit your personal schedule, even if it is constantly changing.

We all look forward to seeing you at the Shack, either as a visitor or as a volunteer. See for yourself how visitors are treated. And—who knows? You might even have a suggestion for W7ASC to improve! Suggestions, questions, and comments will, as usual, be welcome!

73 de W4CIH jeanjol@hotmail.com





We have a hamfest! As many of you know, we had to find a new location due to policy changes at the previous location. After many months of searching, the Glendale Nazarene Church has given us a home - so come and bring your friends to 5902 W. Cactus Road in Glendale on Saturday, January 12, 2019. The hamfest starts at 8:00 a.m. and runs to noon. General admission is \$5/person, and tailgaters/commercial vendors are \$10/parking spot. Snacks and beverages will be available for purchase onsite, and we'll have ARRL QSL card checking and Laurel VE testing. This new location allows us more latitude, so we'll have even more drawings and raffles - there are some great prizes, including an FT-891! We will also feature seminars about amateur radio subjects.

Speaking of the hamfest seminars - we are issuing a call for presentations. We have space and time for two presentations. If you've got a topic in which you have an interest, please consider presenting it to our guests. Presentations should fit within a 90 minute window, including post talk Q & A, and should be related to amateur radio. If you've got a presentation you'd like to give, send an abstract via email to k7tej@omiss.net. The club will provide the space and projector.

By the time you read this, the Arizona QSO Party will have come and gone - hope you joined in! We had an intrepid group head up to Flagstaff to represent TBARC and Arizona from October 13 through October 14. I got a chance to look at the menu in advance, and can predict that all the attendees were well fed - and had all the opportunity to work digital, phone and CW that they wanted. A state QSO party is a great way to get as many people working you as possible.

Our September meeting featured a presentation from Andy Keels KD4ABB on grounding, bonding and the NEC. Andy is in the Superstition ARC and I think it's great that the clubs are working together like this. Hopefully the west side and the east side will continue this exchange of knowledge - it can only help everyone.

By the time you read this, election nominations will be done (they end at the October meeting). Nominees will be announced on the club website, w7tbc.org. The upcoming November meeting is the one where club members will vote for next year's executive. Let the board know what you want - make your voice heard! Voting is available only at the

TBARC Continued from Previous Column

meeting, so be sure to show up and vote!

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. November will feature Jack Lunsford KD7RCJ who recently published his article in QST - and will present to us about "Using Walnut Canyon Bridge as an Antenna." Now that's something you don't see every day! How did he do it? How did it work? Join us and find out!

Andrew Cornwall KF7CCC kf7ccc@arrl.net







November 6th is
Election Day
Don't Forget to Vote!





At the October 11 meeting of the Arizona Amateur Radio Club we did not find an acceptable weekend for a camping trip in October or early November, so we will try again at the next meeting. The club considered this very weekend (Oct 13), but Activity Manager Lori's knee is not good enough yet to get in and out of the camper. It turned out it was a rainy weekend, so it was just as well that we were not doing it.

Harkfest is November 10 near Congress. We could consider that, but there are several conflicting activities scheduled for some of us, and that is the same weekend of the hamfest at Marana that Frank, KB7IQ will attend. Hopefully we'll finalize our campout plans at the next meeting.

At the meeting, President Gary Hamman started the program about the ARRL, going through the organization and the functions of it. Then, while showing a map where Headquarters is now (Newington) versus earlier (1950s) in West Hartford, his computer shut down due to low battery (ran about 1.5 hours). So, we adjourned with a "to be continued" of the program, which was the best part of the planned program, the Geisslers' pictures of the visit to ARRL HQ and the tour they got, especially by W1RFI, Ed Hare. The Geisslers' presentation is something to look forward to at the November meeting.

We welcomed two new people at the meeting: Bruce, who is interested in getting a license. He lives at about 7th Street & Thunderbird. The other was Robert Wade, who lives near the building and just passed his Tech. He wants to continue studying to at least get his General license soon. Both said they will be back to our next meeting, which will be November 8. We welcome visitors whether they are licensed amateur radio operators or not.

We missed having Chris N7PVL and our Vice-President, Mark N7KKQ, at the meeting. They were unable to attend due to health issues.

73, Lori, WA7EDI



The September club meeting took place on Saturday, 21 Sept, and was combined with our annual picnic. This year the picnic was held at the Tenney Family Heritage Park in Taylor, AZ. On Friday several of the club members met at the park and made half a dozen "tape measure" VHF antennas to be used at the picnic on a "Fox Hunt." Karl, K7TSF, made the fox while the rest of us made antennas. Here is a link to the description of the antenna we decided to use. https://www.instructables.com/id/Radio-Direction-Finding-Antennafor-VHF/

The Fox Hunt was fun and the antennas worked! Since everyone didn't arrive at the same time the Fox Hunt became an ongoing activity, until The instructions were to find the fox, but to leave it where you found it so others could test their skills. That worked pretty well as two "hunters" found the fox while the rest of us searched and searched only to learn afterwards that the fox's battery died. The joke was on us!

The business meeting was short and sweet. And the meal was fantastic. The club provided the pulled pork and the members brought all the other fix-ins! The club picnic was a lot of fun and the weather was perfect! All had a great time and the day was a success.

Saturday, 6 Oct 2018: License testing took place today and we had one potential ham test with us. We are happy to report there is now a new Technician in the local area. Good work William! Kachina's next scheduled testing date is now set for 1 Dec 2018. Check our calendar on the <u>karchinaarc.com</u> website for updates.

Vince <u>ka7joi@cableone.net</u>





November 11th



The ARA maintains 38 repeaters in 16 statewide site locations. All of these repeaters are open to all licensed amateur use. Many of these repeaters are stand-alone for local traffic. The ARA also provides several linked systems. Rimlink has coverage across most of the state with sites covering in Flagstaff, Show Low, Verde Valley, Wickenburg/Aguilla, Payson, Globe and Metro Phoenix. Metro Link provides coverage to Maricopa County and the Phoenix Metro area. Recently, the ARA assumed responsibility for the Northlink Hub. For more information on the ARA repeaters, you can download maps and information at http://w7ara.org/z/Repeaters.aspx.

The ARA owns some of its sites, leases others, and a few on donated space. Regardless of the site arrangements, maintenance is a regular activity. This is the job of the Technical Committee.

Public Service is not the only team which has weekly contribution to the community. The Technical Committee had teams heading to sites nearly every weekend. In September, the teams covered site inspections on Mt Elden, Greens Peak and Pinal. The teams replaced a transmitter on Mingus Mountain while helping out some fellow hams with problems on their site.

During the month of October, the White Tank site is being upgraded. As part of this, the site radio interface cage is being converted to a new prefabricated backplane. This upgrade will permit the addition of three addition ports, which will be used to connect the Northlink Spoke. In addition a new generator transfer switch is replacing a very old, out-of-production transfer switch. Normally the team is able to repair this equipment, but sourcing parts has become an issue. With a new battery installed in April and the new transfer switch, the site has reliable power in reserve for power grid failures.

Pinal is also receiving a site upgrade. During heavy rains, the Pinal building had seepage through the cinder block. The ARA is sponsoring an Eagle Project to apply sealant to the subterranean part of the wall and put a fresh coat of paint on the building. The ARA is happy to encourage leadership in our youth. The ARA also replaced another broken antenna.

The Tech Committee is open to all ARA members and they always need help. To participate, you are always welcome to the monthly meeting on the 1st Thursday of the month. The



EVERYTHING YOU NEED TO KNOW ABOUT THE MINGUS MOUTAIN REPEATER

Mingus Mountain - K7MRG Cottonwood, AZ

Repeater ID: 04-101

Downlink: 147.0000 Uplink: 147.6000 Offset: $+0.6\,MHz$ Uplink Tone: 162.2 Downlink Tone: 162.2 County: Yavapai Call: K7MRG Use: **OPEN** Op Status: On-Air

Sponsor: Mingus Mountain Repeater Group

Features: E-power, LiTZ.

Nets: MMRG: Tue at 19:30.

Linked Nets: Phoenix Downunder mornings

at 0415-0530 local.

Mingus Roundtable: Daily at 06:00-07:00.

Mercury Net: Sundays at 19:00.

Web links: Mingus Mountain Repeater Group Inc.

Coordination: ARCA

ARA Continued from Previous Column

ARA has three open meetings a month Tech, Board and General. For more information, please refer to: http://w7ara.org/mtg/Meetings.aspx.

Hope to see you soon.

Brian McCarthy, AK7F President Arizona Repeater Association





Arizona Red Cross Communications Club

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

We had a good time at our Oct 20, 2018 meeting. There was lots of discussion about 1200 MHz and upcoming projects with the cooler weather. I especially liked the donuts provided by Charlie, N2TFS. Our next scheduled meeting is Saturday, November 17, at 9:00 AM.

It was decided at this past meeting to hold our popular "Open House" event at the November meeting. Joining us will be our sister clubs, the Arizona Amateur Radio Club and the Public Service Amateur Radio Group. Most of us belong to all three clubs — we just need to remember to bring our 3 badges:). Everyone is invited to attend - but please RSVP. The event will be potluck, but we will provide the hot dogs and hamburgers. So bring a side dish and/or a dessert to be enjoyed by the entire gang. We'll send out a reminder to club members around the first of the month.

Both of our repeaters were off the air last weekend thru Tuesday evening. If you tried to get into them or Echolink, you were out of luck as the entire building and block lost power. SRP managed to find and fix the problem, so we're now back on the air. The building doesn't have a backup generator, which is odd considering the Red Cross mission in helping with emergencies, but what do I know? So we've been talking about doing our own backup system for the club. I'll let you know how that's progressing in future articles.

The nice fall weather means the beginning of Hamfest season. Most of us will be in attendance at Copafest in Maricopa on Oct. 27. Plan is to clean out the N7KKQ shack and affiliated storage shed to shuttle some of this down to Maricopa to sell. Don't know how successful I'll be, but hope to see you there selling your junk as well!

Your Humble Scribe, Mark, N7KKQ



For Sale / Wanted



LOOK!
Great Deals!

For Sale -

Kenwood TS590s with Power Supply - \$800 Yaesu G450A controller and rotator - \$375

20-foot Rohn tower

Coax and many extras

Cushcraft A4S Tri-band beam - \$350

(20m, 15m, and 10m)

6 meter vertical antenna

Located in Glendale. You must take down tower. All equipment in excellent condition. Will sell entire package for \$1400 or prices listed above. Contact Terry Liesengang, W7TRL at liesegangt@yahoo.com

A-4 Antenna For Sale - \$450

This is an older model that does not have the stainless steel hose clamps on the elements. It is the same size and has the same features as the modern A-4S. The mast mount plate is new, and some of the elements have been replaced with stock A-4S parts. The antenna is stock - does 10, 15, & 20 meters. It does not have the 40 meter add on. It is boxed and ready to go now. Contact: Bob Howard, W8RH at 520.709.6176 voice/text or email w8rh@live.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.





Hamfest Calendar

10 November 2018 - HARKFEST - hosted by the Hassayampa Amateur Radio Klub will be held at North Ranch Escapees RV Park, 30625 S Hwy 89 in Congress. Free Admission, Free Tailgate Sites (Pre-Registration Required - djgrooms@yahoo.com) Overnight Camping (Full Hook-Up or Dry) Available (pre-registration required for camping at www.escapees.com/parking/congress) Tailgating permitted at campsite. VE Testing Available - Must Pre-register (cecarter39@yahoo.com) - Prizes - Arts & Crfts Show at Activity Center 9:00 AM - 2:00 PM. Lunch served at Activity Center. Talk-In 146.620 (pl 162.2) or 146.580 (simplex)

10 November 2018 - **Oro Valley Hamfest** - hosted by the Oro Valley Amateur Radio Club will be held at Marana Middle School, 11285 W Grier Road in Marana. Gates open at 7:00 AM (5:00 AM for sellers) and closes at 1:00 PM. Admission: \$5 (Children under 12 free with a paid adult). Students with AZ School ID are free. Sellers: \$10 per space and includes seller. Prizes, VE Session, Seminars, QSL Card Checking, Breakfast & Lunch Available. Talk-In: 146.620(-), 444.100(+), and 147.32(-) all Pl 156.7. For more information, please visit the web site at <u>orovalleyarchamfest.com</u> or send an email to hamfest@tucsonhamradio.org for more information

1 December 2018 - Superstition SuperFest 2018 - hosted by the Supersition 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, Food Vendor, and Drinks will be available. Contact the Hamfest Chairman at chairman@superstitionsuperfest.org for more information.

12 January 2019 - **Thunderbird Hamfest** - hosted by the Thunderbird Amateur Radio Club will be held at Glendale Nazarene Church, 5902 W Cactus Road in Glendale. Keep watch here for all the details as they become available. Visit the TBARC web site at www.w7tbc.org for up-to-date information.

20-26 January 2019 - Quartzfest 2019 - This year's event will be held seven (7) miles south of Quartzsite, AZ on US95 at La Paz Valley Road. Everyone can attend. Everything is free. A week long event with Seminars and Activities for everyone. VE Testing Available. Food, Movies, 4x4 Off Road Trip, Campfires and More. Everyone is welcome to attend. For more information, contact Kris, KR1SS at kristynweed@gmail.com or visit web site at www.quartzfest.org.

15-16 February 2019 - **Yuma Hamfest** - hosted by the Yuma Amateur Radio Hamfest Organization will be held at the Yuma County Fairgrounds, 2520 E 32nd Street in Yuma. Watch for details. Web site: www.yumahamfest.org.

16 March 2019 - **SpringFest** - hosted by the Scottsdale Amateur Radio Club will be held at the Mountain Valley Community Church, 17800 North Perimeter Drive in Scottsdale. Hours are 6:00 AM until 12:00 noon. Overnight RVs are welcome. Refreshments, VE Testing, Tailgating and more. Talk-In: 147.18 (PL 162.2). Contact: Ed Nickerson, WU7S at 480.949.5162 or email at enickerson427@aol.com. Visit the website at http://www.scottsdalearc.org for all the latest information.

20 April 2019 - **April Hamfest at DeVry** (date tentative) hosted by the Arizona Amateur Radio Club and the Arizona Red Cross Communications Club will be held at DeVry University, 2149 W Dunlap Avenue in Phoenix. Hours are 6:00 AM to 11:00 AM. Admission Donation: \$2.00. Tailgate Spaces: \$10.00 each. VE Testing in school library at 9:00 AM. DX QSL Card Checking from 9:00 to 10:00 AM. Commercial Vendors - Tailgaters - Prizes - Coffee - Doughnuts - Sodas. Talk-In on 147.060 (+) PL 162.2 Hz. Contact Gary Hamman at k7gh@arrl.net or 602.996.8148 for information or to reserve a space.

4 May 2019 - Cochise Hamfest and 7th Region Communications Exercise - hosted by the Cochise Amateur Radio Association will be held at the club site, 2756 South Moson Road in Sierra Vista. Gates open at 7:00 AM. Free Admission and Parking. Tailgating - \$5. Inside Table - \$10. VE Testing from 9:00 until 11:30 AM. Coffee, Pastry, and Drinks Available. Hourly Prizes with Main Prize drawing at 12:00 Noon. Talk-In on 146.76(-) Pl 162.2 Hz. Watch for more details.

31 May - 1 June 2019 - 2019 Prescott Hamfest at ERAU - hosted by the Eagle Amateur Radio Club at ERAU and the Yavapai Amateur Radio Club will be held at Embry Riddle Aeronautical University (ERAU), 3700 Willow Creek Road in Prescott. Watch for details. For up to date info, visit the website at www.prescotthamfest.com

27 July 2019 - White Mountain Hamfest - hosted by the Kachina Amateur Radio Club will be held at 1101 Woodland Road in Lakeside. Overnight camping may be available. VE Testing, Demonstrations, Hourly and Grand Prizes, Tailgaters, and Refreshments. Further details to follow. Visit the web site at www.kachinaarc.org and click on "Hamfest" or email info@kachinaarc.org for up to date information.





The October meeting program by Mike Fulcher, KC7V, was all about his experience in Germany this summer as a referee in the World Radiosport Team Championships (WRTC), also known as the "Ham Radio Olympics." This was Mike's fourth time as a referee and he was lucky enough to be in the station with the winning team out of 63 two-person teams competing in 2018. Mike shared with us some of his sightseeing in nearby cities and then focused on the preparations for and ceremonies involved in the WRTC experience. I know we were all impressed by his ability to stay awake and alert for the full 24 hours of the competition while monitoring two radios and their operators, one in each ear. Thank you, Mike!

We are hearing a lot of DX activity on the "dead bands" this month, including VK9XT & VK9XG (Christmas Island), ZL7X (Chatham Island), ZD9CW (Tristan de Cunha), 5W0GC (Samoa), YJ0GC (Vanuatu), VP6D (Ducie Island), and 8Q7YC & 8Q7PE (Maldives). There is activity on CW, SSB, RTTY, and FT8 with a growing use of the FT8 DXpedition (Fox/Hound) Mode. And that is a great segue to our November program to be presented by Ned Stearns, AA7A, "FT8 DXpedition Mode – Will DXing Ever Be the Same?"

The new FT8 digital mode that is available in the WSJT-X weak-signal communication software is changing the landscape on the ham bands. In one year's time, it has created activity on the amateur bands that rivals, if not eclipses that of Phone and CW. The mode was created to provide an improvement over the JT65 digital mode for the 6-meter band. The JT65 mode requires at least four to six minutes to complete a QSO under good conditions. During 6m Sporadic E openings, the band openings often fail to support paths for this duration and FT8 is designed to make QSOs in one minute or less. While developed specifically for 6m Sporadic Es openings, the FT8 mode has become extremely popular on the HF bands as well. It seems that you tune some of the HF bands and find no signals anywhere except for the FT8 channels which are alive with ongoing QSOs.

Ned has been an ardent user of the JT65 mode on EME and HF. He also adopted FT8 as it came out of the WSJT Development Team in July 2017. It came out too late to be used much on 6 meters in late summer 2017, but it certainly became quickly popular on all HF bands. In September 2017, Ned was asked to support the WSJT Development Team in the design of a new FT8 sub-mode, called the DXpedition Mode, which

Continued Next Column



CHAPTER 16 BARRYM, GOLDWATER ARIZONA CHAPTER

Have you been a ham for at least 25 years? Then celebrate by joining the Quarter Century Wireless Association!

The Barry M. Goldwater Chapter 16 Arizona chapter has four lunch meetings a year with fabulous speakers. Check us out at http://www.azqcwa.org/we are also on Facebook at https://www.facebook.com/AZQCWA We are always looking for speakers and great lunch locations. Let us know.



CADXA Continued from Previous Column

would permit higher QSO rates than ever before (possibly up to 600 QSOs per hour). Ned supported the development of requirements for the software as well as participated in the live testing of the new mode throughout its development. And, Ned headed the FT8 operation on the Baker Island 2018 DXpedition (KH1/KH7Z) that was conducted between June 27 and July 7, 2018. The DXpedition team used the new DXpedition Mode on this very rare DXCC activation and where they were wildly successful in the use of this new submode.

Ned will present on overview of the Baker Island 2018 DXpedition and will provide a summary of the results of the DXpedition using the new FT8 DXpedition Mode. If things go as expected, this sub-mode of FT8 will likely change the nature of DXpeditions from this time forward.

Next Meeting is November 1st at the PERA Club at 7:00 p.m. The November Meeting will be held at 7:00 p.m. on Thursday night, November 1st, at the PERA Club. Ned Stearns, AA7A, will present his program "FT8 DXpedition Mode – Will DXing Ever Be the Same?"

Please feel free to arrive early to socialize with your friends. Refreshments will be served at the break. Guests are always welcome. The new parking lot south of the PERA Club (follow the signs) is the place to park for the meeting while building construction continues in the old parking lot.

Lee, KY7M - CADXA President



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.

November Test Sessions

Nov 1st - PV Ham Study Group -- 6:30 PM
Trinity Lutheran Church, 3950 N Valorie Dr, Prescott Valley
Contact - J M Scherfling 928.632.2050
No Walk-Ins - Call to Pre-Register

Nov 1st - 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

Nov 3rd - NOMADS -- 9:00 AM

Venture Out RV Resort, 5001 E Main St, Mesa

Contact - Robert Bingham 480.404.1408

No Walk-Ins - Call Ahead

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

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

Nov 5th - West Valley ARC -- 7:00 PM

Desert of the Shepherd Lutheran Church, 11025 N 111th Ave,

Walton Hall, Sun City

Contact - David Morrill

623.680.5011

Nov 10th - Oro Valley ARC -- 10:00 AM
Marana Middle School, 11285 W Grier Rd, Marana
Oro Valley ARC Hamfest
Contact - Quinton Gleason licensing@tucsonhamradio.org

Nov 10th - NOMADS -- 9:00 AM

Venture Out RV Resort, 5001 E Main St, Mesa

Contact - Robert Bingham 480.404.1408

No Walk-Ins - Call Ahead

Nov 10th - 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

Test Sessions Continued from Previous Column

Nov 12th - Radio Society of Tucson -- 7:00 PM Hardesty Mid-Town Police Bldg, 1100 S Alvernon, Tucson Contact - Diane Zimmerman 520.664.5070

Nov 17th - Unsponsored -- 10:00 AM
Kingman Fire Station #1, 2470 E Butler Ave, Kingman
Contact - Daniel Miller 928.897.3883

Nov 17th - NOMADS -- 9:00 AM

Venture Out RV Resort, 5001 E Main St, Mesa

Contact - Robert Bingham 480.404.1408

No Walk-Ins - Call Ahead

Nov 11th - 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

Nov 17th - East Valley VE Team -- 6:00 PM
City of Mesa Utilities, 640 N Mesa Dr, Mesa
Contact - Fred Bolinger 480.242.8606

Nov 20th - Hassayampa AR Klub -- 2:30 PM
Home, 30645 S Wandering Way, Escapees North Ranch, Congress
Contact - Charles Carter 316.651.7710
No Walk-Ins / Call Ahead for test and location info.

Nov 20th - Boy Scout Troop 127 -- 8:00 PM St Francis Xavier School Library, 4715 N Central Ave, Phoenix Contact - John Kelly 602.264.6854

Nov 20th - Motorola ARC of Arizona -- 5:00 PM
Denny's, 825 S 48th St, Tempe
Contact - Edward Olague 602.885.7725
No-Walk-Ins - Pre-registration required

Nov 21st - Thunderbird ARC -- 6:00 PM
Honor Health Medical Office Bldg, 19841 N 27th Ave, Phoenix
Contact - James Skinnell 602.826.1949

Nov 24th - Arizona ARC -- 7:00 PM
American Red Cross, 4747 N 22nd St, Phoenix
Contact - Gary Hamman 602.996.8148
No Walk-Ins - Call Ahead





Our two critical committees have been restructured to improve the overall club efficiency:

Our SUPPORT COMMUNICATIONS COMMITTEE is headed by Kris Philo, AI7TT. Kris is working very closely with Kevin Wesolowski, KD7DFV of ARES and RACES. Kevin is the assistant emergency coordinator for Maricopa County and a crisis communications expert. Our club members will use their existing equipment (home rigs, go boxes, mobile rigs, HT's etc.) and be part of an EMCOMM response for any Federal, State, County, ARES, RACES, Hospitals, etc. We will also have our club involved with NGO's (Non-Governmental Organizations) such as support for bicycle races, car and motorcycle shows or rides, etc. The Support Communications Committee will also prepare our operators to be ready for any contingency, even down to our own neighborhood level. In order to have interoperability with entities such as ARES, Red Cross etc., our members will be certified through meetings, classroom time and tests of our equipment. With the West Valley Amateur Radio Club and this committee, our members will have more opportunities to go out of the club confines and use their equipment and knowledge to help the community and emphasize the Ham Radio spirit and cooperation.

John Wood, John EC135@live.com

Our **TECHNICAL ADVISORY COMMITTEE** is headed up by Frosty Oden, NQ1S. Members of Frosty's committee are Jim Rogers, N7YTI, Ken Jenkins, WB6MMV, Manny Blanco, KI7QLD, Ray Thompson, W0IVB and Bob Drake, AF7EL. The newly created Tech Committee of the West Valley Amateur Radio Club is dedicated to the upkeep and repair of club equipment and advancement of club projects. One of our projects is to increase user flexibility on 2 meter and 440 bands for many users located around the Phoenix area. Volunteer Ham Radio enthusiasts are welcome to join us as well as those who want to know more about Ham Radio!

Frosty Oden, NQ1S

WVARC Continued from Previous Column

Please come join us for our next General Meeting which will be at Shepherd of the Desert Lutheran Church, 11025 N 111th Avenue in Sun City on November 5th. Our speakers will be our members, Bill (KA2KHV) and Lee Ann Ciccone, who will introduce us to adaptive equipment for people who are vision-impaired. Bill and Lee Ann use these aides to perform activities of daily living and will include a demo of how they are able to read barcodes, identify colors, and how to negotiate shelving in supermarkets. Bill is providing the musical entertainment for our November 3 holiday luncheon!







Continued Next Column



Hello all SARC members and all HAMS. We have several items to cover for this month and possibly for some of the following months.

HAM In the Park (HIP) has started....thank goodness for the cooler weather! At the last HIP we had ten in attendance. We also addressed the YAESU FUSION radio system with a few demonstrations very successfully. Much discussion was held to have most of the club participating with hands-on training with your radios including the possibility of having HIP also on some Saturdays for those members who have to work (NOT RETIRED). Monitor the Club Web page for updated news at www://scottsdalearc.com

The SARC Saturday morning breakfast is catching on with seven to ten attending. A lot of discussions have occurred with members asking technical questions and talking about various endeavors such as SOTA,

NEW HAM RADIO DIGITAL MODE

I must give my next door neighbor in Chino Valley, Tom W7SUA, full credit for this information. He is very knowledgeable and is fully versed in the digital portion of Ham radio

On ham radio - JS8Call is the program. "The idea with JS8Call is to take the robustness of FT8 mode and layer on a messaging and network protocol for weak signal communication on HF with a keyboard-to-keyboard interface. JS8Call is heavily inspired by WSJT-X, Fldigi, and FSQCall and would not exist without the hard work and dedication of the many developers in the amateur radio community." It runs on a raspberry pi, a Mac, a Windows computer and Linux computers.

It used to be called FT8Call. It is not for making quick contacts for QSL cards, so is not really a WSJT-X FT8 competitor. In fact, on the Facebook FT8 group, the "anger" at FT8Call/JS8Call is quite high starting with who would want to do something like talk with another ham as such a slow speed. It is robust, but now up to 10-20 WPM depending on text compression. Eventually a remote ham could put out a message that says "who has traffic for me," then when someone answers with traffic, go get the traffic. It's a very low power robust version of WinLink.

Best I can tell it is more robust than WinLink, but the trade is speed and power needed. Many of the participating hams

SARC Continued from Previous Column

also use HF APRS messaging, WinLink, and skeds to keep in touch. There are multiple places to read about it. The official beta development home is https://groups.io/g/js8call where you can get docs and download executable for Windows, Macs, and Linux computers.

Many ham email reflectors have migrated to groups.io, so you may already be using groups.io. Future full release home is http://js8call.com/, discussion and announcements on https://www.facebook.com/groups/ft8call/ and a twitter feed is located at https://twitter.com/ft8callinfo. For me, the groups.io has most of the information with the Facebook page having lots of discussion with users and the author. It has direct keyboard to keyboard features now, as well as relaying messages or chats via a 2nd or 3rd station. It will eventually have a store and forward feature. The goal is to help low power portable stations connect back via a mesh of home stations.

JS8Call is still in beta testing. Version 0.7.2 just came out. About ever ten or twenty days a new version comes out. So version 1.0 might be out in 30 to 60 days - certainly by the end of the year. The author is a young married guy with brand new baby so he is somewhat busy with job, family, and programming.

SARC CONSTANTS:

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.







It is that wonderful time of the year. Thanksgiving is just a few weeks away and that magical time of Christmas follows shortly thereafter. For the radio amateur, visions of electronic goodies to fill the shack and the airwaves abound. We at Yavapai ARC wish each of you a wonderful Thanksgiving. Don't get overstuffed, so you still fit in front of the microphone or key.

November is elections month, both politically and at YARC. This is the month when we elect our officers and directors for next year. Our model is to elect one half of the officers each year, thus maintaining continuity. Works pretty good!

As an ARRL Special Service Club, amateur licensing continues to be a big part of YARCs service to the community. YARC continues to find people who wish to become licensed amateurs. October saw a technician class that will spill over into the first Saturday in November, followed by license testing on Nov.17. Our next license test will be on January 19, 2019.

We continue to be encouraged by the number of folks who upgrade. In keeping with the ongoing trend, YARC offers periodic license classes for General and occasional Extra classes. We also offer practice tests on the Wednesday evening prior to the test. Our goal is to make becoming a radio amateur enjoyable.

The Yavapai Amateur Radio Club encourages community members and those of other local clubs to join us for our monthly meetings. We continually strive to make our programs interesting by addressing as many facets of amateur radio as possible. Meetings are held the first Thursday of the month (most months, check our website) in the Freeman Building in the Prescott Rodeo Grounds, 840 Rodeo Drive, Prescott, AZ 86305. Meetings start at 7:00 PM. For program information and directions check our website at www.w7yrc.org



Real Estate

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

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

Silent Key

It is with great sadness that I report on the passing of Dan Jackson WA7SRP, amateur radio operator, SRP Lineman, and RFI investigator.

Dan didn't spend much time transmitting on the ham bands, but he made his living doing a lot of listening to the ham bands. Amateur radio operators all over the Phoenix valley knew Dan as the lineman who could get rid of their power line noise with just one phone call.

He lost his battle with battle with cancer on October 14th, one day before his official retirement from SRP.

Both his retirement notice and obituary are shown below.

Andy Keels, P.E. KD4ABB Cell: 602-809-3561 andy.keels@srpnet.com



Daniel Jackson Retires: Oct. 15. After more than 40 years at SRP, Dan has decided to call it a career. Dan

joined SRP in 1977 as a Laborer. In 1979, he became an Apprentice Lineman and topped out as a Lineman in 1983. He spent several years in the Distribution Operations Center and has been in Troubleshooting Operations as a Supervisor for Field Operations for the last 20 years.



Oct. 14. Jackson, 62, died Oct. 14. Jackson joined SRP in 1977 and was a Field Operations Supervisor, Troubleshooting

Inspections. He is survived by his wife, Nancy; and children Sherry, Cody, Lainy and Kaitlyn. A celebration of life will be held Oct. 25, 2 p.m., at Western Spirit: Scottsdale's Museum of the West, 3830 N. Marshall Way, Scottsdale.



President's Corner

Steve, KB7KWK

If you have not heard by now, the board voted at our last meeting to purchase three Yaesu Fusion repeaters. We hope to have better linking and better audio quality from the new repeaters. The decision to replace the BridgeCom with Yaesu repeaters was based on several factors. First of all they are very poorly made therefore seem to fail often. We did not know this when they were purchased. Also, we were told that they would hold up in extreme heat. We found this not to be the case. We had to install high speed cooling fans inside the case as well as temperature sensors to shut down the transmitter if it reached a certain temperature.

The board has not decided yet if we will keep one or two for backups, or just sell them and put the money back into the repeater fund. The warranty on the Yaesu repeaters is better and they seem to be holding up in Arizona tempertures. We now have cooling at both repeater sites and heat should no longer be a problem.

We will be having another program on the Yaesu Fusion system again in the future that is a basic introduction. We had a video at the last club meeting on Fusion; however, it was way too advanced for our use. The club's program director, Andy Keels, KD4ABB has been in contact with Yaesu and explained that the program was not an introduction to Yaesu and Andy asked if they could do it again. For right now it looks like we will have another program on Fusion but the person will be able to answer questions via Skype.

We have suspended our club raffle until after the first of the year. We would like people to please purchase SuperFest tickets instead. Remember this hamfest is where most of the money comes from to keep our equipment running and to purchase new stuff when needed, such as the above Yaesu repeaters. In the future, we plan to replace the tower at the Stone Castle site with a taller one and replace the antenna.

If you can please volunteer for helping out at the SuperFest, we can always use help on the day of the event and on the Friday before to set up. All help is greatly appreciated. Please see John Wolven, KG7NSP who is the SuperFest Chairman if you would like to help. John is not on the air much but you can catch him at every club meeting.

I was made aware by the club Secretary that there were 75

Superstition Continued from Previous Column

people at the last club meeting. I was blown away. We have not had that many people at a club meeting in a long time not even in the winter when our winter visitors are here. It is sure great to see that and it just shows that our club continues to grow.

I hope to see all of you at the next meeting. 73!

Mesh Network Beginnings on 2.4 GHz

Larry Fort, AB7C, wrote an update to the Mesh Network in the Club's Communicator newsletter for October, which can be found in PDF here: <u>SuperstitionARC.org/comm/2018/Communicator 10 2018.pdf</u>

For my ADAW audience, here is a brief summary of our Mesh beginnings:

2.4 GHz ISM Band 2400-2500 MHz

Industrial, Scientific, and Medical equipment are allocated these frequencies worldwide, and all other users in this band must accept the noise these devices emit. Microwave ovens cook food at 2450 MHz with upwards of 1500 watts, but they are designed to be well-shielded to keep emissions on the exterior at a safe level.

The 2.4 GHz Wi-Fi band occupies 2400–2500 MHz, with the first 13 out of 14 channels spaced 5 MHz apart. In the United States, only the first 11 channels are used.

The 802.11-g Wi-Fi protocol occupies 22 MHz per channel. It is common to see most users grouped on channels 1, 6 and 11 to avoid overlapping interference. Wi-Fi must not cause harmful interference to licensed services and must accept interference from them.

The amateur radio band from 2390 to 2450 MHz includes in their entirety the first eight Wi-Fi channels with 5 MHz spacing. Add to that three "channels" below Wi-Fi channel 1 that require the amateur Technician class license.

The club began its Mesh network after Steve, KB7KWK and Larry, AB7C began experimenting with large numbers of Linksys routers for dirt cheap at second-hand stores. They flashed amateur radio firmware from Broadband-Hamnet (Let's call these "BBHN routers") that converted the homenetwork routers into amateur radio networking devices. Within a weatherproofed enclosure at the top of a tower and connected directly to a directional antenna and to a computer in the shack with CAT 5 cable, this is called a "node." Each node carries its owner's callsign to meet ID requirements in Part 97 automatically.

With a node at each end, Larry and Steve experimented with long-range wireless with email and VOIP phone calls. The neat part is that the addition of a new node is as simple as flashing another Linksys and putting in the appropriate info; turn it on and it discovers the mesh if it is within range of one or more nodes.

Superstition Continued from Page19

Range is limited when competing with the neighborhood Wi-Fi, which sees our network as an "ad hoc" network. Further, there are two television repeater input channels in the 2400 – 2450 MHz end of the ham band. Linksys will not work below channel 1, so a decision was made to switch to Ubiquiti routers that can be flashed with AREDN firmware and operated down on 2397 MHz, "Channel -2." Free of the Wi-Fi noise, plus a necessary reduction from 20-MHz to 10-MHz bandwidth in order to observe the band edge, we saw a vast improvement in range. (Further range improvement was reported with a reduction to a bandwidth of 5 MHz!)

Ordinarily, a computer is connected to the Ubiquiti router at the bottom end of the CAT 5, but we could interface the Mesh on channel -2 by wire to a BBHN router operating on Wi-Fi channel 1. We had to boot one BBHN router to the root prompt and make two minor edits in the operating system, restart and plug in the CAT 5. Now this edited router would relay the Mesh from channel -2 up on Wi-Fi channel 1 to other devices each plugged into a BBHN router.

See the article by AB7C, visit the nets on Monday and Thursday and join the email list for current info!

November 20 Election 7:00 PM

The club meeting at the Charles K Luster Building will determine the 2019 Board and its Officers of the club. We have had a very productive Board in 2018. Please see Page 3 of this issue of ADAW for this year's Board, meeting locations and contact information for the club.

Superstition SuperFest at MCC Saturday, December 1

Grand Prize Drawing tickets will be on sale at the November club meeting and again on-site at MCC. Our Flyer is in the supplementary attachment to this ADAW.

Superstition Continued from Previous Column

Christmas Party Tuesday, December 11 at 6:00 PM

Please see our colorful Christmas Party announcement below. Golden Corral is just south of McKellips Rd at 1868 N Power Rd / Mesa, AZ 85205. Telephone 480-985-6793. Please mention the Superstition Club name to the cashier for our special pricing and seating.

We will also have some preliminary tallies from the December 1 SuperFest, the club's annual income generator. See you there!

73 de WB7C, Larry Kuck for Superstition ARC

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

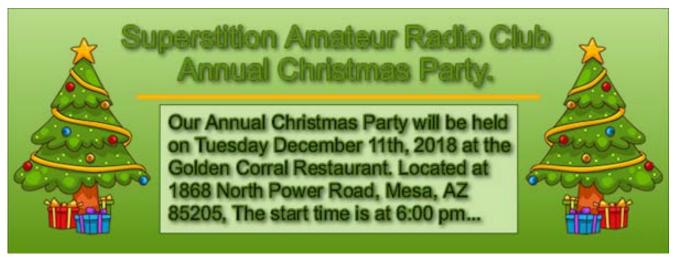
Weekly 6 Meter Sideband Net: Wednesdays, 7:00 PM on 50.140 MHz, W7ASL-L EchoLink, and 145.575 FM Simplex **Club Net:** Wednesdays, 8:00 PM - Discussion, Elmer Q&A. **Mesh Information Net:** Mondays and Thursdays, 7:00 PM - Net control Steve, KB7KWK

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.



Old Pueblo Radio Club INTERMOD

President's Column

No Report Received

OPRC Repeaters

146.66 - PL 110.9 wide coverage W7GV 146.82 - 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

No Reports Received











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