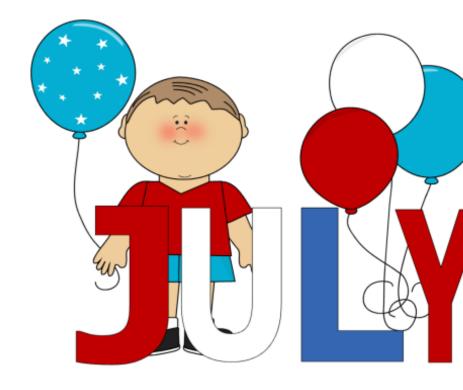


4529 W. Park Place Glendale, AZ 85306-1512







Arizona Desert Aire Waves

Vol 45, No 7

**July 2020** 

#### **CLUB MEETING SCHEDULE**

#### SARC

Jul 1st - 7:00 PM On Line

#### **OPRC**

Sep 9th - 1:30 PM ?Big Heart Coffee - Tucson?

#### **CADXA**

Jul 9th - 7:00 PM via ZOOM

#### **MARCA**

Jul 21st - 6:30 PM TBD Check Web Site

#### **AARC**

Jul 9th - 7:00 PM Red Cross Bldg. - Phx

#### **TBARC**

Jul 16th - 7:00 PM Via Zoom - See Website

#### ARA

Jul 23rd - 7:30 PM TBD

#### **MARA**

Jul 11th - 9:00 AM On-Line

#### **ARCCC**

Jul 14th - 9:00 AM Via Microsoft Teams Phoenix

#### **SuperstitionARC**

Jul 21st - 7:00 PM Charles K Luster Bldg

#### **ANSR**

Jul 16th - 7:30 PM via GoToMeeting

#### **OVARC**

Jul 17th - 7:00 PM Via Zoom

#### ATN (VOAR)

Jul 19th - 6:30 PM Dennys or On-line

#### **AMO**

Jul 9th - 7:00 PM Charles K Luster Bldg

#### **CARL**

Jan 16th, 2021 - 12:00 PM Arizona Science Center

#### **WVARC**

Meetings Suspended Shepherd of the Desert Lutheran Church

#### **YARC**

Jul 2nd - 7:00 PM TBD - Check Website

#### **KARC**

Jul 14th - 7:00 PM On the Air

#### CHRC

Barrow's Pizza - Chandler 9:00 AM

#### **QCWA-AZ Chapter**

TBD - 9:30AM/10:30AM/TBA Phoenix/Prescott/Tucson

#### **SunLifeARC**

Every Monday - 10:00 AM Via Zoom

#### **MMRG**

TBD See Web Site

#### 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 <a href="https://www.W7IO.org">www.W7IO.org</a> for map. Visitors are welcome.

President	Gary Hamman	K7GH	602.996.8148
Vice President	Steve Tolnai	W7WSV	480.390.4446
Secretary	Open		
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) in Scottsdale. The club also holds a net <u>every Tuesday night</u> at 7:00 p.m. on the 147.78/.18 repeater.

President Vice President	James Wasson Ray Vasquez	N7ELL K4RMV	480.456.1154
Secretary	Mike Childers	K7URK	
Treasurer	Douglas Mitchel	l W7ADD	
Past President	Paul Finell	W7EFQ	602.741.6563
<b>Board Members</b>	Irv Hembuck	K0OTZ	
At-Large	David Yee	N7AJR	
	Bill Kouchis	N9EIV	
	Jim Dye	AG7AU	
	Paul Finell	W7EFQ	
	ChrisSchweiger	NE7EE	
	Bruce Harmsen	KA9EYX	

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 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
T7' D '1 '	$\alpha_1$	T 1	TZTZOTO	

Vice President Clayton Jacobs, KJ6QJS Secretary Steve Miller, W6SDM

Treasurer Bill McLean, K7WWM bmcleanl@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 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 (<a href="http://w7tbc.org">http://w7tbc.org</a>) for a map and more details.

President	Charles Loftus	KG7KRN	president@w7tbc.org
Vice President	Mike Baker	K7DD	vicepresident@w7tbc.org
Secretary	Andrew Cornwal	KF7CCC	secretary@w7tbc.org
Treasurer	Walt Reinert	NJ8G	treasurer@w7tbc.org
Directors	Clair Wyant	KG7MAJ	kg7maj@w7tbc.org
	Rick Tejera	K7TEJ	k7tej@w7tbc.org
	Kenneth Charleto	on K4FZH	k4fzh@w7tbc.org
	Nic Holladay	K7CLI	k7cli@w7tbc.org
Past President	Brian McCarthy	AK7F	ak7f@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 11394, Phoenix, AZ 85318-1394.

#### OLD PUEBLO RADIO CLUB

The Old Pueblo Radio Club meets the **SECOND WEDNESDAY** of March, June, September and December at 1:30 p.m. at Big Heart Coffee, 4802 E 22nd Street in Tucson. Visitors are welcome.

President	Ron Kalish	N7SPW	520.207.3852
Vice President &			
Treasurer	George Devich	N9IUK	520.760.0125
Board of Director	s: Jim Ulmer	KC7THU	
	Lin Donnelly	KF7CNR	
WebMaster			

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	Charlie Zurenko	N2TFS
Vice President	Mark Steele	KI7RB
Secretary	Saroj Gilbert	KM6BQD
Treasurer	Doug Bessemer	K0VPL
Past President	Peter Petrotta	KD7QIW

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



# 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. 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 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: <a href="http://azqcwa.org">http://azqcwa.org</a> Email: <a href="mailto:azqcwa@gmail.com">azqcwa@gmail.com</a>.

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	<b>Bob Sitterley</b>	K7POF	928.636.2146
Vice President	Ray Tyrrell	N6MY n6my	73@gmail.com
Treasurer	Bob Sitterley	K7POF	928.636.2146
Secretary	Lori Cripps	WA7EDI	602.955.7517
Board Members:	Gary Hamman	K7GH	

Butch Merrill K7JOG

Jerry Roberts KB7CN

Ken Rasback KK7KEN

Tom Raczykowski N7MMC

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 Randy Beecroft W7RJB
Vice President Jim Mortensen W7AZY
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: <a href="mailto:info@kachinaarc.org">info@kachinaarc.org</a> or <a href="mailto:kachinaarc@gmail.com">kachinaarc@gmail.com</a> Dues are \$15/yr for individual; \$25/yr for family. Membership is January 1 - December 31. Website: <a href="mailto:www.kachinaarc.org">www.kachinaarc.org</a>

#### 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 Heimbuck, K0OTZ	k0otz@w7ara.net
Treasurer	Cole Cunningham, AA7RI	D aa7rd@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net
Roard 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 <a href="http://w7ara.org/mbr/Membership.aspx">http://w7ara.org/mbr/Membership.aspx</a>. 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 the **THIRD TUESDAY** of every month (except December) at 7:00 p.m. at the Charles K Luster Building, 640 N. Mesa Drive (near N. Mesa Drive & E University Dr.) in central Mesa. Visitors are Encouraged. The Officers and Board of Directors meet the second Tuesday of every month (except December) at 6:30 p.m. at Black Bear Diner, 1809 E. Baseline Road (near Gilbert Rd & E. Baseline Rd.) in Gilbert.

President	Andy Keels	KD4ABB	480.622.4000
Vice President	Ed Taggard	K7EDT	480.813.7440
Secretary	Brent Butler	W7FK	480.332.1141
Treasurer	Bryan Hubbard	KF7DPC	480.205.8122
Board Members:	Jeff Harris	K2DFE	602.617.6930
	Jeff Heinze	N7CCW	480.720.7908
	<b>Bob Thomas</b>	N8ANV	239.253.8279
	Larry Fort	AB7C	480.861.7066
	DonRollock	W2EULw2ei	ul@yahoo.com
	Fred Atkinson	WB4AEJ	602.464.4406
	Steve Estes	KB7KWK	480.251.0551

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277. Web Site: SuperstitionARC.org and SuperstitionSuperFest.org. The Superstition Amateur Radio Club, Inc. is a 501(c)(3) non-profit corporation. For more information, contact: 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 <a href="http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem">http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem</a>. 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 Granite Reef Senior Center, 1700 N Granite Reef Road in Scottsdale. The May meeting is a BBQ dinner starting at 6:00 p.m., paid reservations required. Visitors always welcome. See <a href="www.cadxa.org/meetings.html">www.cadxa.org/meetings.html</a> for a map.

President	Larry Loen	WO7R	lwloen@gmail.com
Vice President	Mike Fulcher	KC7V	kc7vmike@q.com
Secretary	<b>Bob Davies</b>	K7BHM	k7bhm@cox.net
Treasurer	Mike Wright	N7MW	n7mw@aol.com
Past President	Lee Finkel	KY7M	ars.ky7m@gmail.com
<b>Board Members</b>	Fred Hoffert, III	NA2U	cwman1@aol.com
At-Large	John Jolly	N7NWL	wa7nwl@gmail.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 <a href="https://www.w7yrc.org">www.w7yrc.org</a> 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	WG7W president@w7yrc.org
Vice-President	John Snedden	KT7P vice_president@w7yrc.org
Secretary	Tim Norton	K7PVY secretary@w7yrc.org
Treasurer	Sam Prather	K7SCP treasurer@w7yrc.org
<b>Board Members</b>	Kathy Laing	KJ6KMK kj6kmk.yarc@gmail.com
	Sandy Meadowcroft	KF4JHC sandymeado2@yahoo.com
	Dave Erlach	$W7VSX \qquad {\tt rocketdog@dslextreme.com}$
	Mike Reid	N7IEP mdr126@gmail.com
	John Laing	K7PRS

Yavapai Amateur Radio Club, P O Box 11994, Prescott, AZ 86304-1994. DUES: \$20.00/yr. Visit the website at <a href="https://www.w7yrc.org">www.w7yrc.org</a>

#### 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 <u>VERY</u> 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 <u>www.tucsonhamradio.org</u> for dates.

President	Steve Wood, W1SR	W1SR@arrl.net
Vice-President	Mike Peterson K7VTT azr	nacguru@gmail.com
Secretary	Logan Zintsmaster KZ6O	kz6o@arrl.net
Treasurer	Hanna Eckert, KG7TPD	haneck@aol.com
Board Members	Fred Bresani W2HZ	
	Hal Long N7BAZ	
	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 <a href="http://www.tucsonhamradio.org/">http://www.tucsonhamradio.org/</a>.

#### 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	<b>Bob Proctor</b>	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

#### 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 McCor	naghy NO7D	602.799.7338
Station Engineer	Ron Taylor	WA7GIL	602.390.5335
Webmaster	Allyson Lee	KI7LGD w7asc.w	ebmaster@gmail.com
Board Members:	•		

Jean Jolkovski W4CIH
Tom Salt AD7PM
John O'Neal K7JP
Bob Burleson KG7QJ
Robert Faerber W9AQ
Tom Salt AD7PM
At Large
Teacher Packets
Trustee/President Emeritus
Log Book

At Large

Direct Phone: 602.716.2082 Web Site: <a href="http://www.w7asc.org">http://www.w7asc.org</a>
For information: Email to <a href="mailto:carl@w7asc.org">carl@w7asc.org</a> or call Jack, KD7ROB

#### AMATEUR TELEVISION NETWORK

Scott Gillins W2KP

at 480.759.5195.

The Amateur Television Network (ATN) is a group of radio amateurs that promotes video operation on linked repeaters and mesh networks. Our business meetings are in January and July. Monthly social meetings are the **THIRD SUNDAY** of each month at 6:30 PM at Denny's in Tempe or <a href="whereby.com/amateurtvnetwork">whereby.com/amateurtvnetwork</a>. Watch our nets on Wednesday and Sunday at 7:00 PM AZ time and Tuesday at 7:30 PM CA time. Video streams are on www.youtube.com/amateurtelevisionnetwork, search for W6ATN Live or W7ATN-Mesa Live. Send your live video to <a href="whereby.com/amateurtvnetwork">whereby.com/amateurtvnetwork</a>, W7ATN-Arizona and W7ATN-Mesa. Check in on <a href="whereby.com/amateurtvnetwork">whereby.com/amateurtvnetwork</a>, ATV, FM or DMR.

ATV Repeater Inputs: 434 MHZ AM/DVB-T and 2441.5 MHZ FM ATV Repeater Outputs: Phoenix - 1253.25 and 5910 MHz, Mesa - 421.25 and 1289.25 MHz, Tucson - 1277.25 MHz FM Repeater Outputs: Phoenix - 448.400 MHz PL 100.0, Mesa -

445.175 MHz PL 100.0, Tucson - 445.225 MHz PL 103.5 DMR Talk Groups: 940 "ATV Talk" and 31024 "ATN"

President	Ed Olague	K5OLA	602.885.7725
Vice President	Rod Fritz	WB9KMO	480.322.5149
Sec/Treasurer	Lee Weitzel	K0CCU	602.439.4840
Repeater Trustee	Kevin Jacobson	AD7OI	602.694.0851
Webmaster	Roland Hoffman	KC6JPG	562.577.1381

ATN-AZ, 4134 W. Danbury Dr. Glendale, AZ 85308. Membership dues are \$75 annually. Affiliates are free. Website: <a href="www.atn-tv.org">www.atn-tv.org</a>. Email: <a href="wb9kmo@gmail.com">wb9kmo@gmail.com</a>



#### 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 on the third Tuesday of the month at 1:00 PM at Lou's Tivoli Gardens, 12535 W Bell Rd in Surprise. 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	Danny Hoerr	KM4HFT
Vice-President	Fred Peters	K7WFP
Secretary	April Kramer	KI7GFJ
Treasurer	Doug Totel	K9RZ
Board Member:	Gary Franklin	K8BKB
	Joe Fitzgerald	KV2H
	David "Cee" Putn	nan, W7DCP
	Tom Smith	WA00FO
Past President	Pat Regan	KD7TFD
Committees:		
Membership	Krissy Larson	KI7GJJ
Technical Advisory	Frosty Oden	NQ1S
Equip. Donations	& Sales	
	Ken Jenkins	WB6MMV
or	Jim Seay	WB7RBN

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: <a href="http://westvalleyarc.com">http://westvalleyarc.com</a>. 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 Sue Rogers, W7SKH at happyham7777@gmail.com.

#### Nets:

20 Meter Net: Monday, Wednesday, & Friday, 14329 Mhz SSB 12:30 p.m./11:30 a.m. during daylight savings time.

10 Meter Net: Tuesday & Thursday, 28.329 Mhz, SSB. 7:00 p.m./ 8:00 a.m. during daylight savings time. Check in using Echolink Node W7ASL-L. Nick, AA7QK provides this service and will assist you.

Venture Out: 2 Meter Net: Monday, Wednesday, & Friday, 1:00 p.m., 146.58 MHz FM simplex, 12:30 p.m.

President	Sue Rogers	W7SKH happyham7777@gmail.com
Vice President	Ralph Towers	KAOCET retowers@hotmail.com
Secretary	Chuck Rogers	W7CBR rogers_charles@hotmail.com
Treasurer	Dwight Carlson	KF7WI dec@kalama.com

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



#### CHANDLER HAM RADIO CLUB

The Chandler HAM Radio Club (call sign N7CHN) meets the **SECOND SATURDAY** of each month at 9:00 AM at Tri-City Baptist Church, 2211 W Germann Road, Room #180 in Chandler (very back of parking lot). Visitors are welcome. Check the web site at chandlerhams.org for dates and presentation topics of club meeting. Weekly net is held every Thursday at 8:00 PM on 443.050+ PL100.

President	Gary Laatsch	KI7PBR	pres@chandlerhams.org
Vice President	Norm Fasoletos	K7NWF	vp@chandlerhams.org
Secretary	Debbi Smith	KJ7MIQ	sec@chandlerhams.org
Treasurer	Byon Garrabrant	N6BQ	treas@chandlerhams.org
Web Page: <a href="http://chandlerhams.org">http://chandlerhams.org</a> . DUES: \$25/year primary			
member; \$10/year fan	nily member.		

#### AMO - ARIZONA MESH ORGANIZATION

The Arizona Mesh Organization (AMO), a newly formed 501(c)(3) amateur radio club, meets the **SECOND THURSDAY** of each month at the Charles K Luster building, 640 N Mesa Drive in Mesa. The organization's goals are to support ARDEN MESH networks throughout the state of Arizona, explore new technologies, support emergency and public service communications, and (of course) to have fun along the way. AMO's purpose is to promote the education of what amateur radio mesh is, to support and exchange information with mesh users throughout the state, and to further the technology of mesh radio itself. Weekly AMO radio nets are held from 7:00 to 9:00 PM on the 1st, 3rd, and 4th Thursday evenings of the month on the Superstition ARC linked repeaters - 147.120 and 449.600 and the KB7KWK-L Echolink node. Visit the web site at <a href="https://arizonamesh.org">https://arizonamesh.org</a> for more information on the AMO Club and up-to-date news.

President:	Steve Estes, KB7	KWK president@arzonamesh.org		
Vice-President	Gary Hinton, AC	7R vicepresident@arizonamesh.org		
Treasurer:	Scott Gillins, W2	KP treasurer@arizonamesh.org		
Secretary:	Michael Bailey, I	XI7LXY secretary@arizonamesh.org		
Board of Directors				
Dale Sch	midt, N7OJK	n7qik@arizonamesh.org		

Dale Schmidt, N7QJK n7qJk@arizonamesh.org
Heidi Brewer, K7ZAE k7zae@arizonamesh.org
Paul Lowe, N7NLY n7nly@arizonamesh.org
Robert Fridell, N3BZ n3bz@arizonamesh.org
Rodney Fritz, WB9KMO wb9kmo@arizonamesh.org

Arizona Mesh Organization Inc, 7939 E Golf Avenue, Mesa, Arizona 85209. DUES: Full Membership \$25.00 per year. Visit the AMO web site for more information on membership. Web Site <a href="https://arizonamesh.org">https://arizonamesh.org</a>



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 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** 

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

#### Editor's Desk Continued from Previous Column

# From The Editor's Desk

Here we are in the second half of 2020 already. This year is certainly passing quickly. The COVID-19 Coronavirus is still playing havoc with our lives. Mask wearing in public is now mandatory in nearly every area of the country. Physical distancing (also called Social Distancing) is a necessity and gatherings are limited to smaller numbers. While we all would like to get back to normal, we need to accept that "normal" will be very different - at least for a while yet. However, we are a resilient species, aren't we? We'll survive.

All of our spring hamfests, picnics, and other get togethers were canceled under the stay-at-home orders and gathering size restrictions. So, alternative methods were found to keep in touch with each other. Clubs started holding meetings on-line or on clubs repeaters. Social hours were being scheduled online and on repeaters also.

As the stay at home orders were lifted, clubs began weighing the decision of resuming in-person meetings or continuing to meet on-line. Several club meeting locations were still limiting access, so the decision was an easy one for some. The clubs that have resumed in-person meetings are following the required precautions to keep their members and visitors as safe as possible.

Test sessions throughout the state were canceled during look-down also. A couple of groups continued testing on a very limited basis with enhanced sanitary measures being taken. Masks, gloves, hand sanitizer, and 6-foot distancing were mandatory. Now that testing has resumed for more clubs, there appears there is a large pent-up demand for testing opportunities. Evidently many people used the months of enforced staying at home to study for a new or upgraded license. VE teams continue to make every possible adjustment to keep everyone safe and healthy during their exam.

The Amateur Radio Council of Arizona (ARCA) will be holding their Annual Meeting on July 25th at 11:00 AM via GoToMeeting. Election of officers for the 2020-2021 term will be held at the meeting. The council is currently calling for nominations. If you, or someone you know, is interested on serving on the ARCA Board, please sent an email to Bob Howard, W8RH at <a href="mailto:arca@arca-az.org">arca-az.org</a>. Nominations will also be taken from the "floor" at the meeting also.

Meeting information and links will be sent to all club presidents, delegates, and alternates. The meeting link and information will also be posted on the ARCA web site at <a href="https://www.arca-az.org">www.arca-az.org</a>. Click on Meeting Schedule on the left side of the screen to access information. If you have questions, please send an email to <a href="mailto:arca@arca-az.org">arca@arca-az.org</a> no later than Thursday, July 23rd.

The 2020 ARCA Ham of the Year and 2020 ARCA Young Ham of the Year will be announced at the meeting. Three very dedicated and deserving individuals were nominated for each of the awards. The 2020 ARCA scholarship will also be awarded at the meeting. ARCA will award a \$2,500 scholarship this year.

As usual, not many activities are scheduled in Arizona in the summer months. At present, there are still hamfests scheduled for the fall when our temperatures begin to moderate and cool. The Radio Society of Tucson's Fall Hamfests will be held on September 26th at the Target Store in Tucson. Copafest is on the calendar for October 24th at the UltraStar at Ak-Chin Circle in Maricopa. November 7th will see the annual Cochise Amateur Radio Association hamfest in Sierra Vista and HARKfest in Congress. The Oro Valley Hamfest is scheduled for the 14th of November in Marana and the Superstition Superfest is planned for December 5th. Keep watching the Hamfest Calendar on page 11 for news on these and other upcoming events.

The heat is on for Arizona and valley heat is blazing to 110 and higher. So – Stay Cool, Stay Safe, and wear that mask.

Have a Great July! Chris, N7PVL







#### 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 (ASC) 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. Direct phone number is 602-716-2082.

As this newsletter is being drafted on MEMORIAL DAY weekend, matters continue to be far from normal. Since this newsletter cannot predict the future, we have no idea what we will be facing when this is actually published later in June. All that we know is that our station W7ASC is temporarily closed as the Arizona Science Center has shut down in response to the COVID-19 situation. This is a prudent move, but it creates a sense of isolation.

W7ASC is really a very unique Ham station. Unlike personal stations, this station operates for the benefit of non-Hams by demonstrating the wonders of radio using the Ham bands. W7ASC, which initially had a different call sign, has been in operation almost from the first days of ASC. One of the most popular elements of the demonstration is Morse code! Many schools bring students to ASC for a field trip. The station is also enjoyed by adults, many who remember that Morse code experience from their days as students in local schools or scouts.

There are many Ham clubs and some of them operate club stations and repeaters. Few, if any, are regularly open to the non-licensed public. If there is any doubt about this claim that W7ASC is not operated for the benefit of the C.A.R.L. volunteers, consider that the temporary closing of the AZ Science Center during the pandemic shutdown has not kept our volunteers off the air.

Each Wednesday and Saturday, at 0900 local time, the C.A.R.L. Volunteers gather for a net. We currently use the 440.375 MHz repeater on South Mountain to exchange greetings, check on one another, and discuss the status of the ASC and W7ASC's reopening.

During this same net, the attendees also disclose the individual Ham projects that are helping to occupy their period of isolation. Some of those projects are being described in CARL's contributions to the ADAW newsletters. In last

#### CARL Continued from Previous Column

month's ADAW Newsletter, we published Steve's WB4ZSC discussion about his ongoing efforts to support CARL's TWITTER feed. This month, we have contributions from Ron WA7GIL & Rusty WA8ZID below.

Ham radio has not been slowed by the virus, but the public has been deprived of the opportunity to participate at our shack. With a little luck, that period will soon end and W7ASC will be back in operation.

You are invited to join the C.A.R.L. Net (see above). Also please consider volunteering at W7ASC once the Arizona Science Center reopens and the station is active again. When you do serve a volunteer shift, you will probably be amazed at the number of people who have no idea what we do on Ham radio. Using this opportunity as a volunteer, you can offer information to allay the public's misunderstandings of our hobby. There are many people who would benefit by learning that Ham radio is fundamentally a Public Service!

Stay well, stay healthy and, hopefully, we will see you at ASC.

73 de W4CIH jeanjol@hotmail.com

>>>

\*\*Contributed by Ron WA7GIL\*\*

During this virus look-down, I've been finding lots of time to build homebrew equipment for my Ham Radio hobby. I've built several things, and the latest was a power amplifier for my HF QRP radios. A Ham friend in Mexico wanted to duplicate it and asked me to make a video showing how I did it, so I shot some video, edited it, and published it on YouTube. Anyone interested in seeing it can search on my call sign WA7GIL on YouTube and get right to my channel. There's also a short video in there showing how I built a pocket sized 20-meter QRP rig a few years ago.

I'm currently restoring an old Heathkit DX-40 transmitter with VF-1 VFO and a Hallicrafters SX-99 receiver. These items were given to me by our very own Dennis Checkoway N4NDS from the Tuesday Crew. This was Dennis' old Novice rig and I'm proud to own it. It's all in pristine condition and the transmitter just needed a few things to bring it back to life.

>>>

\*\*Contributed by Rusty WA8ZID\*\*

Since I have been retired and mostly stay at home since February, I've spent some time building antennas and working FM satellites. Have over 60 grids in the log book. I've tried my hand at building an eggbeater circularized polarized antenna – results are still pending. Talked as far east as Queens NY on AO-91 with the FT7900 in the car.

One fact that did come out of my getting active in VHF/UHF

# Public Service Calendar

## Maricopa County Emergency Communications Group Events

	EVENT	LOCATION	DATE
	Mogollon Monster 100	Pine	09/12/2020
	Barnburner Mountain Bike	e Race	09/19/2020
	Kendric	k Peak (NW of Flagstaff	
	Arizona Emergency Net - I	Maricopa Picnic	05/15/2021
Payson, Houston Mesa Campground, Fox 2 Group Site			Site
	Auxcomm Interest	TBD	12/31/2021

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.



#### CARL Continued from Page 8

is a "did you know," the entire state of Arizona as well as Florida and New Mexico has a transmit power limit for the 70-cm band. Without special approval, the maximum power allowed in the entire state and other specific areas in per 47 CFR §2.106 - Footnote US270, is 50 watts. Most of the restricted areas outside of the three states are near Air Force Bases. See http://www.arrl.org/us270

This does not impact the ERP, just the actual power (PEP) coming out of your antenna connector on your rig. Several hams have received exemptions by applying for them thru the military coordinator at Peterson AFB who just happens to be a ham himself. The exemptions are mostly for EME activities. There is at least one ham in Tucson, Phoenix, and Prescott that I have heard about getting approval. Your typical commercial radio doesn't exceed 40 watts on 70 cm so it often isn't an issue. You can build a huge 440 MHz antenna array and be legal as long as you keep the PEP to 50 watts.

Just goes to show you there are more things that you don't know than you do.



#### CHAPTER 16 BARRYM.GOLDWATER ARIZONA CHAPTER

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 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.





#### HELLO ALL,

With all the Pandemic issues, this continues to be a confusing and crazy month, with more months probably following. There is a high probability the meeting locations will basically be closed through September. With that, SARC will continue its meetings on line. The meetings have been excellent and well received. We have had an attendance of 20 to 30. To attend the meeting, check our WEB SITE (<a href="www.scottsdalarc.org">www.scottsdalarc.org</a>) for instructions on how to attend.

With the arrival of Summer heat we have terminated the HIP (Ham in the Park) until next fall. We do have our Club NET Tuesday evening on the club repeaters. Time is 7:00 PM. Our Club breakfast is at 8:00 AM every Saturday at Denny's on Indian Bend just west of Loop 101.

On a sad note, Ray Carli, W7GNE, became a Silent Key a few weeks ago. He became a member of SARC in 1968.

73's, Paul W7EFQ



#### **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.

# For Sale / Wanted



LOOK! Great Deals!

## For Sale

#### **AMERITRON AMPLIFIER - AL80B**

1 KW. 120V. In pristine condition with very few hours. Purchased in Dayton, 2019. I prefer local pick up. \$1000 firm. (\$1100 if I ship it.) Email if interested - ac7kn@arrl.net

**Stacked 70CM KLM Yagis** - Two, 16-element stacked side-by-side for vertical polarization. Gain 14.0 dBd each, 17dBd for the stack. Broadbanded 420-450 MHz. I used it fro ATV. Boom length 10 ft. 3in. \$160 including manual. Contact Erik Basilier K7TV at <a href="mailto:ebasilier@cox.net">ebasilier@cox.net</a>

**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 (pipebomb upgrade). Excellent Condition - \$2,000.00

Contact Bob Drake AF7EL at 623.385.6531 or email <a href="mailto:af7el@yahoo.com">af7el@yahoo.com</a>

#### 11.0/13.5 KW 120/240 V Predator Generator

Looks and runs like new. Electric start with 12V battery and charger. Purchased 8/3/16, has 37 hours total run time. Comes with Manual, complete maintenance log, 90' 50-A cable, and dual 6' loading ramps. \$1800.00 Contact: Dave West K9JKN at WestDL@aol.com or 480.641.1480.

Cleaning out 50 year collection of ham related parts, connectors, ICs, cables, antennas, poles, and such, all on a "make offer" basis. Contact Bill, W7JSW at <a href="https://hoskingb@cox.net">hoskingb@cox.net</a> to arrange a meeting.

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 Jim Seay, WB7RBN at wb7rbn@arrl.com.



## Hamfest Calendar

26 September 2020 - **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 - 6:00 AM - 11:00 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

10 October 2020 - ATN Surprise Hamfest - hosted by the Amateur Television Network will be held at 12983 W Grand Avenue in Surprise. Hours are 7:30 AM until 12:00 Noon. General Admission: \$1 per person. Tailgaters, Vendors & Club Booths are \$10 per space with set up beginning at 6:30 AM. Early Arrival and Camping May Be Available. Contact Bob Minnick, W8ARZ at povertyflataz@yahoo.com for space and booth reservations. Talk-In on 448.400 MHz FM PL 100.0. Direct questions to Rod Fritz, WB9KMO at wb9kmo@gmail.com.

24 October 2020 - Copafest - hosted by the Maricopa Amateur Radio Club will be held at The Ultrastar at Ak-Chin Circle, 16000 N Maricopa Rd 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 <a href="mailto:fest@copafest.org">fest@copafest.org</a> or visit the website at <a href="mailto:www.copafest.org">www.copafest.org</a>.

7 November 2020 - 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.



7 November 2020 - 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: <a href="mailto:bridges.slt@gmail.com">bridges.slt@gmail.com</a>) Overnight Camping (Full Hook-Up or Dry) is Available (Pre-Registration is required for camping <a href="mailto:northranch@escapees.com">northranch@escapees.com</a>) Tailgating permitted at campsite. Free VE Testing via LARC VE testing - Must Pre-register via email to <a href="mailto:cecarter39@yahoo.com">cecarter39@yahoo.com</a> - 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 <a href="mailto:harkaz.org">harkaz.org</a> for up-to-date information. Questions? Email Duane Grooms, KD0KYK at <a href="mailto:digrooms@yahoo.com">digrooms@yahoo.com</a>

14 November 2020 - Oro Valley 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 email to pre-register <u>licensing@tucsonhamradio.org</u>). Interesting Seminars - ARRL Card Checking and LOTW Assistance at ARRL Booth - Food for Breakfast and Lunch. Truck Contact hamfest@tucsonhamradio.org for more information. Visit the website at www.tucsonhamradio.org.

5 December 2020 - Superstition Superfest - 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, and Food Vendor will be available. Contact the Hamfest Chairman at <a href="mailto:chairman@superstitionsuperfest.org">chairman@superstitionsuperfest.org</a> for more information.



#### May general meeting

Our May general meeting was virtual via Zoom. We had 21 members and one guest attend. We discussed future projects: fox hunting, finishing up the repeater system, adding digital capability to the repeaters, a communications trailer for HF/VHF/UHF, POTA/SOTA, and more. Wayne W6IZK presented information about AllStarLink, which is an option to add to our repeaters. Ultimately, the majority of the attendees thought that fox hunting had the most appeal. If you have great ideas, let Charlie know at <a href="mailto:president@w7tbc.org">president@w7tbc.org</a>.

#### Could you be the next Membership Coordinator?

Clair Wyant KG7MAJ has been taking care of the membership coordinator role for at least the past four years. Now the time has come to pass that on to someone new. Clair will be there to help transition things, If you're interested in the future of the club and want to start learning more about how things run, get in touch with Clair (membership@w7tbc.org) or Charlie

(president@w7tbc.org) for more details.

#### What's happening with Field Day?

Things are evolving fast with Field Day. We decided not to head up to Flagstaff. The ARRL has updated the rules to allow 1D stations to contact other 1D stations, and to count individual contacts for a club as well. So - when you're home operating 1D (or 1E - on emergency power) - make sure to let the ARRL know you're part of the Thunderbird Amateur Radio Club as well. A few club members are considering heading out to cooler locations, but no matter what location you choose, you'll be part of the event! We're planning a virtual meeting (Zoom) on June 27-28 as well - so join in and get the Field Day spirit!

This is a strange year, isn't it? Keep your eye on the website w7tbc.org for more details!

Andrew Cornwall KF7CCC <u>kf7ccc@arrl.net</u>





Raymond "Ray" Carli, W7GNE November 23, 1941 to May 15, 2020

Raymond "Ray" Carli, W7GNE became a silent key on May 15,2020. He was a highly distinguished engineer, inventor, and ham radio operator. Ray's passion for amateur radio and electronics led him to a successful career in the electronics and electrical design field, and the subsequent founding of the R.J. Carli Engineering Corp in 1978.

Ray was a long-time member of the Scottsdale Amateur Radio Club, the American Radio Relay League, and the Scottsdale Model Airplane Club. He was also a valued supporter of the Arizona Desert Aire Waves for many years.

Ray is survived by his wife of 55 years, Roxanne, two daughters, Patricia "Patty" Sprague (sp. Joseph), and Tina Kosednar (sp. Robert); sister Catherine Kostelc (and her two children); and nine grandchildren.





# 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.

IMPORTANT NOTICE: In light of the current situation with the COVID-19 virus, please call to verify if test session will be held.

# JulyTest Sessions

Jul 7th - PV Ham Study Group -- 6:00 PM
Trinity Lutheran Church, 3950 N Valorie Dr, Prescott Valley
Contact - J M Scherfling 928.632.2050
No Walk-Ins - Call Ahead

Jul 11th - Yavapai ARC -- 9:00 AM
Church of Jesus Christ of Latter Day Saints
7073 Pronghorn Ranch Parkway, Prescott Valley
Contact - Donald Bauer
928.775.4690
Pre-Register online: www.w7yrc.org-Click on License Tests

Jul 11th - Yuma ARC -- 9:00 AM
Yuma County Sheriff's Office, 141 S 3rd Ave, Yuma
Contact - John Ham 970.927.3273
No Walk-Ins / Call Ahead / Appointment Only

Jul 13th - East Valley VE Team -- 6:00 PM
City of Mesa Utilities, 640 N Mesa Dr, By Flag Pole, Mesa
Contact - 480.242.8606

Jul 13th - Radio Society of Tucson -- 7:00 PM

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

Jul 15th - Thunderbird ARC -- 6:00 PM

Honor Health Medical Office Bldg, 19841 N 27th Ave, Phoenix

Contact - 623.668.7804

Jul 18th - Coconino ARC -- 9:00 AM

North Country Healthcare, 2920 N 4th St, Ste A1, Flagstaff

Contact - Roderick Martin 928.254.3420

Jul 18th - Hualapai ARC -- 10:00 AM
Kingman Fire Station, 2600 Northern, Kingman
Contact - Daniel Miller 928.897.3883

Jul 21st - Hassayampa AR Klub -- 2:00 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

Jul 26th - 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







On Sunday, June 14, a traditional antenna raising was held at the home of Steve Miller, W6SDM. The mission was to raise a GAP Voyager vertical. Not a task for the weak at heart, it's a lot like trying to make a 45-foot wet spaghetti noodle stand straight up.

After a couple of close calls, the antenna was once again standing in all its glory, radiating from 160-10 meters. The brave souls who helped were Chris Canevit W7CGC, Bob Howard W8RH, and Pat Lacey KG7LGG. We also had the supervision of Digger and Barkley from the MARA Canine Corps.







We continue to look for ways to stay together as all of our activities have been impacted by the pandemic.

Last month we launched "Zoom-Gas." This is a zoom meeting about nothing in particular. It's simply a chat session where members can talk about anything and show an item to other club members. The turn out was good and we'll do another Zoom-Gas soon.

Our Hams & Eggs breakfast has been suspended so we're trying to backfill that get-together with an on-the-air event at the same time. More planning needs to be done to get this in action.

With the change in the Field Day rules, a number of our members are looking forward to operating Field Day from their own QTH but having their contacts contribute to the club's overall success.

By the time you read this, our Hamvention-at-OVARC event will be over. Major amateur radio suppliers have been impaired by the pandemic so at our virtual June meeting we've asked five suppliers to tell us about their latest and greatest products. It should be an informative meeting. Thanks to Carl - KB7AZ for organizing this.

We remain hopeful for our November hamfest. An outdoor event like this should have a better chance regardless of the health precautions that may be imposed on us.

Stay safe and get on the air! 73! Steve - W1SR







Due to the current situation with COVID-19, the July meeting will be held virtually using ZOOM a week later than usual because of the July 4th holiday. Meeting invitations will be sent to members via Groups.io and Slack a few days before the meeting. For anyone else who wants to attend, send an email to <a href="mailto:cadxa@cox.net">cadxa@cox.net</a>. The next meeting will be Thursday night, July 9th, starting at 7:00 p.m.. You can begin checking in at 6:30 p.m. and visit informally with other club members on Zoom until the meeting starts. Please turn off your computer camera and microphone when the meeting starts.

The July program will be "Remote Ham Radio from the Bluegrass State" by David Perry, N4QS. Tune in and find out what it takes to build a remote station from scratch. Dave ceased his home operations in 2017 and has been slowly building up a remote station on 3 acres of land he purchased in a remote part of McCracken County, Kentucky in 2016.

Dave, N4QS, has been an active DXer and contester for over 50 years. He operates CW, SSB, RTTY, and other digital modes on 160 through 6M. His all-time confirmed DXCC totals are 347 Mixed, 342 CW, 332 Phone, and 315 Digital. He has 9-band DXCC plus 99 countries confirmed on 6 meters. His DXCC Challenge total is 2,769 confirmed, and his lifetime goal is to become a member of the "3,000 Club."

At the June meeting, Petr, AG6EE presented "Roving and Surviving in Nevada." Petr told us how rare grid squares are activated on 6 meters "Field Day style" and the risks of doing so. He showed us amazing pictures and video of the remote places in Nevada from which he has operated in recent years. These roving operations clearly are not for the faint of heart. They take a lot of preparation, a reliable 4-wheel drive vehicle (or a helicopter), and perseverance to overcome unpredictable obstacles such as dangerous unpaved roads, fallen trees, snow drifts, and curious sheep. You can see the video of Petr's program on YouTube at <a href="https://youtu.be/lkqGRLN7qig">https://youtu.be/lkqGRLN7qig</a>.

In this day and age, clubs may be looking for socially distanced speakers. At CADXA, we have several presentations on the world of DXing, QSLing, and related subjects ready for your club. We know how to present via programs like ZOOM. Contact us through our website - <a href="https://www.cadxa.org/contact.html">https://www.cadxa.org/contact.html</a> - or email -cadxainfo@gmail.com - for details.

See you on ZOOM for the July meeting.



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

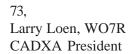
The Arizona Red Cross Communications Club held its annual meeting in June and elected officers for the next two years. Our new officers, effective July 1, 2020 are:

President - Charles Zurenko, N2TFS Vice-President - Mark Steel, KI7RB Secretary - Saroj Gilbert, KM6BQD Treasurer - Doug Bessemer, K0VPL

Many thanks to Peter, KD7OIW for his tireless work and shepherding our club through its infancy. We look forward to building upon his successes over the past two years as we continue to grow and support the mission of the Red Cross.

Our July meeting will be hosted online using MS Teams on July 14th at 7:00 p.m. MST For information about the Arizona Red Cross Communications club, visit our website at <a href="https://www.k7arc.org">www.k7arc.org</a>











Hello to All and Happy July from the Kachina Amateur Radio Club!

The early morning Sunrises and late evening Sunsets up here in the White Mountains have been well used and enjoyed. With the Sun coming up earlier and setting later people up here have been busy with their regular work schedules, cleaning up and out areas around the homestead, gardening, some surgeries to get back up and running from, working hard, enjoying the local lakes, and moving around in general, and plenty of Air Time on the Frequencies and Bands! We've had some 40-50 degree nights, but Jack Frost showed himself again for a few nights of coolish 20-30 degrees in June, as usual. Frost, crickets and LOTS of grasshoppers, LOTS! Feel free to stop by and pick some up on your way to go fish at one of the many lakes up here, take all that you can, they come in many different sizes. Nothing beats live bait!

Meanwhile, there have been little helpers up here buzzing around lending a hand where needed, to help solve someone's Radio or Antenna issues, helping to keep individuals and new Hams on the air. You know who you are, and thank you, ALL of you!

Our May Meeting didn't happen, trying to navigate through all the changes that has been recommended to the public in an ever-changing world. Sounds like just the thing for Ham Radio Operators, flexible and ready to adjust. Nothing better to fend off cabin fever than to have a good radio and antenna already in place and have someone to talk to or listen to friendly/interesting conversation.

The repaired Antenna raising went very well, good weather to boot! Here is the report by Mike Adams AG7AB:

#### Green's Peak Repeater Update

On May 26, a crew reinstalled the Antenna on the club's Greens Peak Repeater. A big thanks to Randy Beecroft W7RJB, Doug Troxel NQ5G, Roger Brown KJ7IGQ, Bill Turley KJ7GYH, Jim Mortensen W7AZY, and Marie Mortensen N7SKS; and a special thanks to Randy W7RJB for climbing the Tower. Here are a few pictures of the Project.

#### KARC Continued from Previous Column



Randy W7RJB on the Tower

Ground Crew L to R Doug NQ5G, Jim W7AZY, Roger KJ7IGQ, Bill KJ7GYH





The whole Crew L to R Bill KJ7GYH, Randy W7RJB, Roger KJ7IGQ, Doug NQ5G, Jim W7AZY

Photos by the Camera Crew - Marie Mortensen N7SKS

Continued on Page 17



#### RETURNING TO NORMAL. . . .

Chandler Ham Radio club held its monthly club meeting Face 2 Face on Saturday, June 13<sup>th</sup>, 2020 at 9:00am. We offered a Zoom tunnel into the meeting for those who weren't comfortable face to face. For those in attendance, face masks and hand sanitizer were provided by the club. We had well over 20 members show up for the face to face meeting. Awesome

We also held a VE Team session immediately after the meeting. Seventeen appointments and three walk-ins. Many of them drove in from other areas since we are one of the few VE Teams that have restarted test sessions. Most of them were taking the TECH. The rest were upgrades and a couple testing to reinitiate their licenses. The best one was the 12-year-old tech who passed his General today. He wanted to upgrade before Field Day 2020 so he could participate. His dad drove him down from Lake Pleasant to test with us in Chandler, AZ. He's been waiting a couple months for testing to resume and found out we decided to restart today. To see the smile and joy on his face was one of those great ham radio moments.

THIS IS WHAT AMATEUR RADIO IS ABOUT . . . WOW . . . THIS KID MADE MY DAY. He talked to me about starting a club. He wants to start a Young Ham club up in his area. I am giving his information to a young (15 years old) member of CHRC who is an Amateur Extra. These two kids and others like them are the future of our hobby.

See you on the airwaves.

73 de KI7PBR, Gary President, Chandler Ham Radio Club



#### KARC Continued from Page 16

The White Mountain VE Team held a Test Session on Saturday, June 6th. It was held at the Taylor Fire Station, Thank You Taylor Fire Department, 411 Paper Mill Road at 9:00 a.m.

Test Session results:

Don Miles KJ7OJG — Technician

Ken Josten KG6EIF — upgraded to General

Jim Mortensen W7AZY — upgraded to Extra

Congratulations to All!

It is definitely Fire Season and we are seeing the familiar smoke clouds, flying fine ash and extra red Sunsets at times. The sun shining through the smoke haze sure makes a body weary more than normal when working outside. That's when it's nice to go inside and cool off, re-hydrate, and jump on the Airwayes for a while.

Our Kachina Club Meeting was On-the-Air Thursday, June 11th, at 7:00 p.m. We still do not have a place to meet, so we are continuing with the On-Air meetings the 2nd Thursday of the month at 19:00 hours after the Green's Peak Net at 18:30 hours on 145.310 MHz. -110.9PL. Randy W7RJB gave an Antenna Presentation on five different types of antennas that could be used for Field Day. The information is posted in the Technical Library on the Kachina Club website. This Technical Library has been a welcome addition to go to for reference materials in case anyone missed a Presentation or needs to refer to it again as they learn more about the Ham Radio World. Beginners are really appreciative for these types of learning helps and aids.

The Summer Field Day is being hosted by Randy Beecroft W7RJB, at the family's Hang Out on the 27th and 28th of June. Hamburgers, Hot dogs, and a Potluck, for the evening meal during Field Day. It's for everyone and anyone who would like to get On-the-Air and try it out!

When you find yourself up here in the White Mountains for a visit and some recreation, check us out on our regular evening Green's Peak Repeater Net at 18:30 hours on 145.310 MHz. - PL 110.9. We are a fun group, so tune in, we'd love to have you join in with us!

Please check our website at <u>www.kachinaarc.org</u> for any updates for our Club Meetings, Events and Happenings.

In the meantime, keep Bending the Airwaves with good conversations and hang tough!

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

Take Care and Happy July to All, Tara KI7KLJ



### President's June Message

Dear Friends.

Let's hope we'll finally be able to meet in July. I'm working with several Hams who are preparing some fun and safe activities that we can do this June from the safety of our homes and cars. Watch email for details!

We're currently working on an emergency contingency plan that will enable us as a Club to continue safe operations in case we're faced with another Corona Virus situation. If you've ever helped develop a plan for your work or another social club, please call me and I'll send you a questionnaire for your suggestions. 480 709 0413

Our Club has many high risk, vulnerable members, of which I am one. Please continue to be careful when you go out. There are still a lot of people testing positive in Maricopa County.

I encourage you all to stay in touch with your friends on the Air, and to participate in some of our daily nets which are offered at 9AM and 8PM seven days a week.

I miss all of you and can't wait to see you again. Danny km4hft

#### June Technical Committee Report By Frosty, NQ1S

Jim N7YTI, Ray W0IVB, and I have been working with our host, Charles KE7IBG on the ongoing problem with connectivity for users on the NY7S-R EchoLink connection. Charles indicates that he has stayed on top of the updates and resets. So we needed to look deeper.

Under settings you will find four Network connections. Relay, Direct, Public Proxy, and Custom Proxy. The Relay connection uses "relay servers" that are on the cellular networks. Here is where I think the problem resides. At home, use the direct connection, it uses your local Wi-Fi. The term "proxies" are a public proxy. An example is if you are at a restaurant that has a Wi-Fi, use that one. The custom proxy uses private Wi-Fi's.

#### WVARC Continued from Previous Column

One thing that the EchoLink page mentions is using the "relay" connection, but you must have a good signal, i.e., four bars or so. Lower levels will not let you in. This is where many users run into trouble connecting.

Read further on the EchoLink user page to better understand the inner work workings of this marvelous device! Frosty, NQ1S - Tech Chairman

#### For Sale Items

#### Wheelchair Van For Sale

Toyota Sienna 2017, converted by VMI 12,085 miles. Extras include: back-up camera, BSM, Integrated phone, GPS, plus lots more. No accidents. Call Sharon: 623-584-6974 or Mike: 1-415-265-8574

**DONATED EQUIPMENT LIST** Version 20-6, dated 6/5/2020

Kenwood AT-200 Antenna Tuner (no manual) - \$50.00

Kenwood MC-50 Desk Microphone (no manual) - \$25.00 Tuner SSB-2 Desk - \$10.00

Alinco DJ-580T/E Dualband Handheld with manual (memory battery dead, backlight for display out) - \$40.00

 $20~\rm{meter}~(14mHZ~)$  to  $6~\rm{Meter}~(50mHz)$  Homemade Receiving Converter (no manual) - \$10.00

Waters Model 335 6 Position Antenna Switch - \$15.00

2 Position Antenna Switch with BNC connectors (make unknown) - \$10.00

Dow Key 2 Position 12 Volt Antenna Switch - \$25.00

MFJ Model 260 300 Watt Dummy Load - \$35.00

B&W Model 427 Low Pass Filter - \$5.00

R.L. Drake 1 KW Low Pass Filter - \$5.00

Two (2) New Alpha Delta Transi-Trip Lightning Protectors - \$10.00 each

Sony Microphone - \$5.00

Four (4) 120 volt Muffin Fans - 4 for \$10.00

Radio Shack Intercom - \$5.00

New (unused) Five (5) Port Ethernet Hub - \$15.00

New (unused) Four (4) Video Component Device Selector - \$10.00

Bag of Coax Jumpers and Connectors - \$5.00

Bag of AC Cables - \$5.00

Linksys Router - \$5.00

Cash or checks accepted. No payment plans! Offers entertained! Contact: Jim, WB7RBN, if interested. email: wb7rbn@arrl.net Cell Phone: (509) 430-3124



With June, comes Summer. Many people have spent the Spring season in quarantine. It is our hope that everyone's family is still healthy. We want to again thank our medical professionals and public servants for their dedication during this time.

As Hams, we are always preparing. Are you ready to deploy when requested? How do you test your readiness? Tune in to Metrolink on Monday night at 9:00 PM to brush up on your skills. I have met with the AEN-MAR net control team and they have excellent training planned for the next few months.

The ARA is starting to work on our remote mountain tops. Towers has already needed some care as we found a broken antenna jumper for the 449.175- repeater. Mingus needs some attention and will have a trip planned. Elden will undergo a regrade this summer of its power system. This will include new fusing, distribution, and UPS power. The tech committee is planning trips. Email <a href="techchair@w7ara.net">techchair@w7ara.net</a> to help out.

The ARA is looking to restart the general meeting in June. This could be in-person if Denny's is open for business. It will be good to see familiar faces again. We are also looking at ways to share the meeting electronically.

The ARA Board meetings have still been going on through e-meetings. Guests are still welcome, email president@w7ara.net to join.

Please continue to be safe.

73, Brian McCarthy, AK7F





The Sunlife Amateur Radio Club meets every Monday at 10:00 AM via Zoom from now until October. In October, we hope to meet face to face, but if COVID restrictions still apply, we will continue our meetings on Zoom.

Contact us if you would like to join our club and Zoom meetings.

Sue Rogers at <u>Happyham7777@gmail.com</u> Or Ralph Towers at <u>retowers@hotmail.com</u>



#### WVARC Continued from Page 18

#### Pat Blaylock ~ W6SPS (SK) ESTATE GEAR FOR SALE

Icom 7200 HF Radio - \$600.00

Bencher Key (CW) - \$100.00

Jetstream JTP531mb Pwr Supply - \$50.00

BK Freq. Counter 1803-D - \$100.00

MFJ 259-C - \$175.00

1 Gal Dummy Load W/OIL - \$25.00

Heil DESK Mic - \$75.00

MFJ Tuner MFJ-969 - \$150.00

Ten-Tec R4020 QRP Rig - \$169.00

D-104 Silver head - \$50.00

D-104 Black Head - \$50.00

MFJ-890 Beacon Monitor - \$75.00

Yaesu FT-60R/E Handheld - \$125.00

MHS5200A Dual Channel Signal Generator - \$50.00

Contact Rick WORIC, "WORIC.HAM@gmail.com" for information on these items





The June 11 meeting of the Arizona Amateur Radio Club was primarily concerned with looking at sites for our Field Day, which this year is June 27-28. The site we chose was a few miles east of Forest Lakes on FR 122, 0.5-mile north of Highway 200. After viewing photos and Google Earth views of the location, it was agreed that this looks like a good spot for our field day. This is a "dispersed camping" site. Let Gary, K7GH, know if you plan to join us.

Also at the meeting Bob, K7JJT, gave his Treasurer's report with our account balance after paying current bills.

The June testing session this year will be June 20 rather than June 28 because of Field Day being the 27th and 28th. The July session is July 26. Email Gary, K7GH, at least a few days before the session to register and get updated information: ghamman@aol.com. There were 24 candidates at our May 31 test session. All but one got a new or upgraded license. The ARRL-VEC got the licenses issued/upgraded by noon of June 1, less than 24 hours after our test session!

73, Lori, WA7EDI





No Report Received this month.

#### Superstition ARC Repeaters

147.120 MHz (+) 162.2 Hz - Linked to 449.600 (-) 449.600 MHz (-) 100.0 Hz - Linked to 147.120 (+) 448.275 MHz (-) 100.0 Hz - Fusion

KB7KWK-L Echolink Node

#### 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

**Fusion Confusion:** Monday & Friday, 8:00 PM - 448.275 **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: <a href="https://superstitionarc.org">https://superstitionarc.org</a> for more information.

#### Superstition SuperFest

The Superstition SuperFest is held on the first Saturday of December. Visit <a href="https://www.superstitionsuperfest.org">www.superstitionsuperfest.org</a> for the latest information.



# No Reports Received

# Old Pueblo Radio Club INTERMOD



#### RACES Repeaters

 145.150
 packet/wide
 N7OEM

 146.880 - PL 110.9
 wide coverage
 N7OEM

 448.55 - PL 110.9
 wide coverage
 N7OEM











# HAM RADIO OUTLET

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#### FTDX5000MP Limited | 200W HF + 6M XcVr

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

#### FTDX3000 | 100W HF + 6M Transceiver

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



#### FT-991A | HF/VHF/UHF All ModeTransceiver

Real-time Spectrum Scope with Automatic Scope Control . Multi-color waterfall display . State of the art 32-bit Digital Signal Processing System • 3kHz Rooting Filter for enhanced performance • 3.5 Inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



#### FTDX101D | HF + 6M Transceiver

. Narrow Band SDR & Direct Sampling SDR . Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics Unparalleled - 70dB Maximum Attenuation VC-Tune • 15 Separate (HAM 10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



#### FT-891 | HF+50 MHz All Mode Mobile Transceiver

Rugged Construction in an Ultra Compact Body • Stable 100 Watt Output with Efficient Dual Internal Fans • 32-Bit IF DSP Provides Effective and Optimized QRM Rejection • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control. PTT/RTTY Control



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

 100w HF/BM, 50W 2M, 20W UHF • DSP included • 32 color display • 200 mems • Detachable front panel (YSK-857 required)



#### FT-2980R | Heavy-Duty 80W 2M FM Transceiver

· Massive heatsink guarantees 80 watts of solid RF power · Loud 3 watts of audio output for noisy environments . Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users



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

· Power Packed System Fusion Transceiver · High Audio Output Power • Rugged Powerful Transmitter • Integrated 66ch High Sensitivity GPS • 1200/9600 APRS Data Communications



#### FTM-400XD | 2M/440 Mobile

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



#### FT-70DR C4FM/FM 144/430MHz Xcvr

. System Fusion Compatible . Large Front Speaker delivers 700 mW of Loud Audio Output · Automatic Mode Select detects C4FM or Fm Analog and Switches Accordingly . Huge 1,105 Channel Memory Capacity . External DC Jack for DC Supply and Battery Charging



#### FT-2DR C4FM/FM 144/430 MHz Xcvr

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



#### FT-65R | 144/430 MHz Transceiver

Compact Commercial Grade Rugged Design . Large Front Speaker Delivers 1W of Powerful Clear Audio . 5 Watts of Reliable RF Power Within a compact Body . 3.5-Hour Rapid Charger Included . Large White LED Flashlight. Alarm and Quick Home Channel Access

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

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





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