



Yavapai Signal

The Yavapai Amateur Radio Club – Prescott, Arizona – DM-34 – Volume 38 – No. 1 — January 2023

Upcoming Club Events				
Event	Date	Time	Place	Contact / Info:
General Meeting	January 5, 2023 Thursday	1900 MST 7 p.m.	Freeman Building, Prescott Rodeo Grounds	Club Website
YARC Breakfast	January 19, 2023 Thursday	0800 MST 8 a.m.	Backburner Restaurant, Prescott Valley	Don WB7TPH or Jeff WB7RFY
Transmitter Hunt	January 7, 2023 Saturday	1300 MST 1 p.m.	OneAZ Credit Union parking lot, Gail Gardner Way & Willow Creek Rd., Prescott	Pete K6VVR or John WB9VGJ
General Meeting Programs — See page 4.				
Public Service Communications — See page 6.				
Amateur Radio License Testing — See page 6.				

YARC:	Badges	Patches	Shirts
Features:	Name & Call	Club Name & Logo	With or Without Name & Call
Contact Person(s):	Jane Lerette K7ZHF	Jane Lerette K7ZHF	Pete Morrison K6VVR
Cost:	\$13.00 each	\$6.00 each	Without Name & Call \$20.00 — With Name & Call \$24.00 each

Club Website Registration

In order to receive the Signal (the club's official newsletter), you must be a member of the club. Make sure your email is correct by logging into our website (www.w7yrc.org), then clicking on the member tab and viewing your profile.

Welcome to the Yavapai Amateur Radio Club

The Yavapai Amateur Radio Club (YARC) is an ARRL affiliate Special Service Club. The club participates in many activities in the quad-city (Prescott, Prescott Valley, Chino Valley, and Dewey-Humboldt) area by providing communications for local events, emergency communications, and promotion of the hobby throughout the community.

Membership in YARC is open to any interested amateur or non-amateur alike. Dues are \$20.00 per year (full-time students \$15). YARC general meetings are usually at 1900 MST (7 p.m.) on the first Thursday of every month at the Danny Freeman Building, Prescott Rodeo Grounds, 840 Rodeo Drive in Prescott

www.w7yrc.org

YAVAPAI AMATEUR RADIO CLUB – PO BOX 11994 – PRESCOTT AZ 86304-1994

Club Nets

Band	Mode	Frequency	PL	Day or Night	Time
2M 70cm	FM	146.880 MHz 447.650 MHz	- 100.0 Hz	Mon. through Fri.	1300 MST 1 p.m.
2M 70cm	FM	146.880 MHz 447.650 MHz	- 100.0 Hz	Wednesday	1900 MST 7 p.m.
6M	FM	52.060 MHz / I 52.560 MHz / O	- 100.0 Hz	Friday	1830 MST 6:30 p.m.
10M	SSB (USB)	28.444 MHz +/- QRM	N/A	Thursday	2000 MST 8 p.m.
2M 70cm	FM	146.880 MHz 447.650 MHz	- 100.0 Hz	Saturday	0900 MST 9 a.m.

Yavapai County ARES/RACES Nets					
2M	FM	147.260 MHz	+103.5 Hz	Monday	1830 MST 6:30 p.m.
2M	FM	145.290 MHz	-127.3 Hz	Monday	1900 MST 7 p.m.

Submission Deadline for the Yavapai Signal from editor Loren Singh, AE7CG

The usual deadline for submission of articles and photos to appear in the Yavapai Signal is the 18th calendar day of each month. That gives me time to edit and format submissions, and to have the newsletter available for distribution to the club membership by the 20th calendar day of each month. The aim is to have the newsletter in the hands of club members approximately 10 days or so before the holding of the general meetings on the first Thursday of each month.

ae7cg@arrl.net

Share Your Surplus Items

Bring any ham related surplus items that you no longer need to the next club meeting. There will be a table at the meeting where your items can be placed. Let your fellow club member take those things that they want. The table will be available at each monthly meeting.

Canned Food Donations

Bring your non-perishable food items to the monthly club meetings and Terry Pemberton KB7TRE will take them to the local food bank. Give your bagged items to Terry.



From the President's Desk
by Ray Kolman, KI7COM

I am honored to lead YARC into 2023. Hopefully the shutdowns are behind us and we can resume normal functions of our club. Hamfest returns again in 2023 along with Field Day 2023. We will continue to place emphasis on getting our youth involved in amateur radio.

We all need to get involved in our club's events. I challenge you to volunteer for one event this year. Become "radioactive" in your club. You just might have fun helping others.

There are so many things to get involved with in our club. Pick something and go for it. We need to see new faces at our events. Go to our web page and look for an event that interests you and volunteer. I want to be the President of Fun!

Meeting Minutes

By decision of the board of directors, minutes of the board and general meeting minutes will no longer appear in the Yavapai Signal. They are posted online at the club's website.

www.w7yrc.org → [Members](#) → [Login](#) → [Reports](#)

- |
- [Board Minutes](#)
- [Club Minutes](#)

Mentor Buddies — Revised October 27, 2022

by Bill Noe, WG7W

Name	Call Sign	E-mail	Telephone
Don Bauer	WB7TPH	dbauer2250@aol.com	928.775.4690
Art Protas	KG6AY	kg6ay.dm34@gmail.com	928.227.2954
Jerry Warzеха	W7FNC	jerry.warzеха@hotmail.com	612.205.3810
Bill Noe	WG7W	wg7w@arrl.net	928.710.6925
Mike Belanger	W1DGL	fix_broke_airplanes@hotmail.com	928.710.2565
Ron Purcell	KI7EVK	728rwp@gmail.com	707.849.7099
Jack Szelka	A11K	radioaik@gmail.com	401.580.0330
Mike Reid	WU7V	mdr126@gmail.com	480.250.6093
Sandy Meadowcroft	KF4JHC	sandymeado2@yahoo.com	928.660.8323

Upcoming General Meeting Programs, 2023

by Mike Reid, WU7V

Month:

Program:

January

Guest Speaker: Ned Stearns, AA7A

Ned Stearns AA7A has been very active on VHF in AZ for over 40 years and has achieved DXCC and Worked All States on 2 and 6 meters. He has been active on 2 meter EME since 1989. He has contacted over 1,250 stations in 160 countries on EME using a homebrew antenna system, preamp, and power amplifier. He has also operated EME while portable in West Africa using the calls TZ6NS and 3X5A and in the Bahamas as C6ANS in 2015 and 6Y5AZ in 2016. He is currently building a remotely controlled 2m EME station that is located in a somewhat rare grid square (DM32). The antenna under construction is shown below (AA7A in the bucket lift). The station has been operational since 25 June 2017.

February

“How to Build a 2-Meter Tape Measure Yagi Antenna,”

by Pete Morrison, K6VVR

Pete will have the materials for you and will show you how to build it.

March

DMR Radio Mode (?)

January Grand Prize Raffle Ticket Drawing

by Frank Bender, K8FB

We will be selling 2023 Prescott Hamfest Grand Prize Raffle Tickets at the January 5, 2023 YARC general meeting. Anyone who purchases at least \$10 of raffle tickets will have their name entered for a drawing for \$20 worth of grand prize raffle tickets. Your name and call will be entered in the drawing for each \$10 worth of tickets that you purchase for that month.

The ticket drawing will take place after the meeting break. We are doing this ticket drawing for tickets purchased during the month prior to the meeting or at the meeting. We will be doing this each month through the May YARC general meeting. Tickets are \$1 each or 12 for \$10. The grand prize drawings will be held on Saturday, May 13, 2023 beginning at 11:30 a.m. at the Granville Elementary School. You do not have to be present to win the grand prizes.

If you wish, you can also purchase grand prize raffle tickets online. Go to www.prescotthamfest.org to see the list of grand prizes and purchase your tickets using PayPal or a credit card. If you attend YARC meetings, the tickets will be given to you then. If not, the tickets will be held until the day of the hamfest for you – or filled out and entered for you prior to the drawing.

Next T-Hunt — Saturday, January 7, 2023

by Pete Morrison, K6VVR

Participants should gather at 1300 MST (1 p.m.) in the parking lot at OneAZ Credit Union, located at Gail Gardner Way and Willow Creek Road in Prescott. If you have any questions, feel free to contact Pete Morrison K6VVR or John Broughton WB9VGJ.

Note: The basic plan for T-Hunts during calendar year 2023 will be to schedule the events on Saturdays after each month's Thursday general meeting. If a general meeting is canceled or rescheduled (as, for example, in July), the T-Hunt may also be canceled or rescheduled.

The Saturday Stalwarts — 447.650 MHz YARC Coffee Net — Saturday, 0900 MST (9 a.m.)

Mike K7LMJ serves as the net control station every Saturday morning. Join the loyal crew on the net, including Loren AE7CG, Wayne WA7IGI, Karen KK7AVF, and Kevin KJ7NGS.





December 2022 Foxhunt
by John Broughton, WB9VGJ

The December foxhunt was held Sunday, December 4, 2022. were the foxes. Pete K6VVR, Dave KI7ENY, Jerry KF7FPD, and Debbie KD7COM were the foxes

There were four teams for this hunt:

1	Robert WA6FBA, Bob WB6ODR, and Byron KK7BFL
2	Jeff WB7RFY, Keith KG7GTX, and John WB9VGJ

The results of the hunt were:

Finish	Team	Time
1	1	48 min.
DNF	2	—

The foxes hid the transmitters at 1396 Newport Ridge Dr. at the corner of Newport Ridge Dr. and W. Robinson Dr.

This was another frustrating hunt. At the starting point the heading for the signal was SSW. We headed south and west and east and back a little north and all the bearings we took indicated we should have been near the transmitter but we never got a real strong signal. The bearings all seemed to indicate the transmitter was south of us. We when went up to the Pioneer Home and took a reading and it indicated the signal was coming from the east. We went over to Senator Highway and drove south and took more readings. It seemed that we were east of the transmitter. We took more readings in the area and lastly took a street going east from Senator Highway and then readings indicated the signal was coming from the east. We were getting ready to drive further east when we got a telephone call from K6VVR informing us where they were and that Team 1 had found the transmitter. We decided to call off our hunting and headed to the restaurant to meet up with the foxes and Team 1.

Congratulations to Team #1.

I want to thank Pete, K6VVR, for providing the pictures. You can see pictures of the hunt at:

tinyurl.com/YARCfoxhuntDec2022

The participants went to the Prescott Junction restaurant for after-the-hunt socializing and telling of tall tales.

We invite anyone interested in foxhunting, especially anyone who has not done it before, to join us. Those new to the hobby can ride with an experienced hunter. We always have a good time, win, lose or draw.



YARC Public Service Waiver Form

Beginning with calendar year 2023, every public service participant needs to fill out and return a Public Service Waiver Form. The new form has no expiration date and covers all YARC public service events, so it only needs to be filled out once. The form provides general information about public service events and what YARC's responsibilities are as well as what your responsibilities are, if you wish to participate in our public service events.

The new form can be downloaded by going to the club's web site, www.w7yr.org. On the main menu, select "Public Service" and then select "Public Service Waiver Form". Fill out the PDF-fillable form on your computer, save it, and return the completed form to Frank Bender K8FB (fhb47@hotmail.com) or your event planner. The form does not need to be signed.

Our next public service event is on April 15, 2023 – the Whiskey Basin Trail Runs. The calendar of public service events with published and tentative dates for 2023 can be found by going to our website, selecting "Public Service" from the main menu and then selecting "Public Service Events".

Your participation in our public service events is encouraged and greatly appreciated.

License Testing

by Don Bauer, WB7TPH

Remember, the FCC Application Fee is now in effect. That means that new licensees will be assessed a \$35 registration fee directly from the FCC. It is delaying the receipt of licenses just a bit, depending on how quickly the candidate responds to the email from FCC.

A note to all our Technician licensees: Upgrading to General is not that difficult and it is very rewarding. We have mentors and classes to help. Try it, you'll like it! And, the fee does not apply to simple upgrades.

Upcoming License Testing

Date	City	Location	Time	Sponsor	Contact	Walk-in
02/04/23	Prescott	Jeep Posse Building	9 a.m.	Yavapai ARC	Don Bauer 928.775.4690	Yes
04/01/23	Prescott	Jeep Posse Building	9 a.m.	Yavapai ARC	Don Bauer 928.775.4690	Yes



Having Fun in the Sweepstakes SSB Contest as a Minimalist

by Jim Peterson, K6EI

(from: The Heterodyne [December 2002], newsletter of the West Valley Amateur Radio Association, San José, California)

I typically prefer participating in contests via either CW or RTTY, but every once in a while it's fun to mix things up a bit. The Sweepstakes Phone Contest is always the third full weekend in November, which typically lands on the weekend before Thanksgiving -- making this a busy weekend for me that usually involves either travel to visit relatives or preparations around the house prior to the arrival of out-of-town guests. As a result, I have never taken this contest very seriously.

This year was no exception. We were preparing to visiting our younger daughter in Tucson for Thanksgiving week, but at the last minute I made a decision to not let that stop me from having fun in the contest. I stashed my Elecraft KX3 in the suitcase along with some wire and an antenna tuner.

Homes in Tucson generally don't have trees that can serve as antenna supports, and our AirBnB near my daughter's apartment was no exception. Our temporary QTH did have a small backyard with some tall shrubs in the backyard, so I used the wire to make a pair of dipoles (cut for 20 and 40 meters) that I temporarily draped over the scrubby bushes in the backyard. My portable antenna was up between 6- and 8 feet above the ground. The dipole legs were connected to my antenna tuner which was up about five feet in the vegetation.

After getting my stealth antenna in place, I set up my little transceiver on the patio. Since I don't normally operate SSB using my KX3, it took a few minutes for me to make sure that my signal was adjusted for maximum output and readability -- first by setting the compression level as aggressively as possible without distortion and making sure the mic gain was high enough without overdriving the ALC. And whenever operating QRP in a contest, I always use a calibrated external power meter to ensure that my transmitted output power is as close to 5 watts PEP as possible. (Often, the rig's display may indicate 5 watts output when the measured SSB output only 2- or 3 watts PEP.)

Obviously, the priority of our trip was to spend time with our daughter. But I still managed to make some Sweepstakes contacts Saturday evening, early Sunday morning, and again after Sunday lunch.

As most of you already know, operating QRP/SSB with a yagi on a tower during Field Day from Mora Hill each June is a challenge. Operating the Sweepstakes SSB Contest with 5 watts and a low dipole was even more challenging. There was clearly no point in my calling CQ. Instead, I focused on Search & Pounce -- skimming each band looking for the strongest CQs where I might have a chance of being heard.

QRP contesting requires patience and perseverance. If there were other stations responding to a CQer, I knew there was little point in attempting to join the fray until the everyone else had already been worked. And of course there was the not uncommon frustration of having the op give up trying to copy my exchange after a couple attempts. This just builds character for the QRP operator.

Forty meters was largely an exercise in futility -- too many signals crowded in a narrow band with significant static. Given my low dipole, contacts on that band were largely limited to the local region via NVIS (Near Vertical Incidence Skywave) propagation. Fortunately, daytime action on 10- and 15 meters was far more fruitful. When those bands are open, even 5 watts and a low dipole are adequate to make East Coast contacts. I was especially aware of "spotlight mode" propagation on 10 meters, where I would have multiple strong two-way contacts with say Illinois or Florida but no else. Then that region would fade away and somewhere else would come in strong. It was important to complete these contacts quickly, since a signal that was 5 by 9 might quickly fade to nothing in a few seconds. My QSO total for the contest was 43 with 28 sections.

Bottom line: I definitely didn't break any records, but I had a good time, enjoyed the challenge of trying to be heard, and probably improved my operating skill a bit as well.



Breakfast and Lunch Gatherings

There are a number of breakfast and lunch gatherings in the area that are open to all radio amateurs and interested persons. Please let us know of any updates or corrections at info@w7yrc.org.

Third Thursday of the Month – **YARC** holds an informal **breakfast** gathering at the **BackBurner** Restaurant at 0800 MST (8 a.m.). The restaurant is at 8400 Long Mesa Drive in Prescott Valley. Contact Don Bauer WB7TPH or Jeff Hanna WB7RFY.

Second Tuesday of the Month – **Quarter Century Wireless Association (QCWA) brunch** gathering, 1030 MST to 1230 MST (10:30 a.m. to 1230 noon) at the **Golden Corral** Restaurant in Frontier Village in Prescott, off SR-69. You do not have to be a QCWA member to attend.

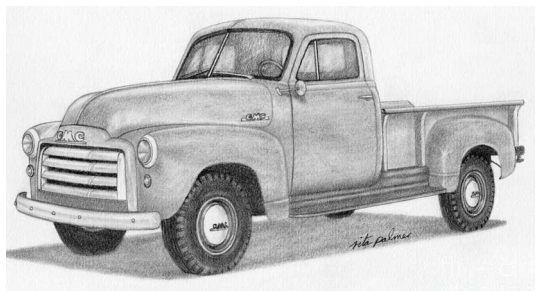
Every Monday – **Dan Nichols (W6SAK SK) Memorial Lunch**, starting at 1145 at roving locations.
Contact Bob Rosevear WB7RRQ, 928.910.2273 for more information.

Every Wednesday – Lunch – 1045 MST (10:45 a.m.) at **Costco** – “The Umbrella Club,” now without the umbrellas!

The DX Store

sales@dxstore.com

www.dxstore.com



Club Officers, 2023

Officer	Name	Call Sign	Email Address
President	Ray Kolman	KI7COM	president@w7yrc.org
Vice President	Mike Reid	WU7V	vicepresident@w7yrc.org
Treasurer	Jane Lurette	K7ZHF	treasurer@w7yrc.org
Secretary	Tim Norton	K7PVY	secretary@w7yrc.org
Director	Mike Schnell	NC7X	nc7x@w7yrc.org
Director	Debbie Kolman	KD7COM	vista9@hotmail.com
Director	Ron Levine	—	—
Editor Emeritus	Joseph Oliver	AC6AA	ac6aa@arrl.net
Editor	Loren Singh	AE7CG	ae7cg@arrl.net
Webmaster	Robert Reister	WA6FBA	webmaster@w7yrc.org

Yavapai Amateur Radio Club — W7YRC Club Station Access List — Effective January 1, 2023

Permanent Station Access (defined by YARC role) —

Name:	Call:	Lic. Class	Notes:	Telephone:
John Snedden	KT7P	E	YARC Ex-President	909.844.5108 – Do not contact for access
Frank Bender	K8FB	E	YCJP Bldg. Mgr.	928.379.5575 – Do not contact for access
Mike Belanger	W1DGL	E	Club Sta. Mgr.	928.710.2565 – OK to contact for access
Pete Morrison	K6VVR	E	W7YRC Trustee	928.899.8555 – Do not contact for access
Bud Semon	N7CW	E	ARES/RACES DEC	928.899.7400– Do not contact for access
Rob Redford	KG7LMI	G	ARES/RACES ED	623.252.3980– Do not contact for access
Jim Zimmerman	N6KZ	E	Elmer Group	928.713.0542 – OK to contact for access
Art Protas	KG6AY	E	Elmer Group	928.227.2954 – OK to contact for access
Doug Freeman	KV8TD	E	N7GMH Trustee	928.759.0958 – Do not contact for access

Building Access for Other Reasons (includes station access) —

Donald Bauer	WB7TPH	E	VE Chair	928.775.4690 – Do not contact for access
Kathy Laing	KJ6KMK	E	License Classes	928.778.2526 – Do not contact for access

Rotating Access (changes every July 1st) —

This category is limited and consists of volunteer members —

Jim Custer	WØHJ	E	Rotating Member	507.720.4053 – OK to contact for access
Tony Jackson	K6PSR	G	Rotating Member	562.644.0528 – OK to contact for access

Note to YARC Members —

For station access, first try to contact the Rotating Access members.
If you are not able to contact the Rotating Access members, then try to contact the other “OK to contact for access” members.

