



Yavapai Signal

The Yavapai Amateur Radio Club – Prescott, Arizona – DM-34 – Volume 33 – No. 10 – October 2018

Upcoming Club Events				
Event	Date	Time	Place	Contact / Info:
General Meeting	TH 10/04/18	1900 MST 7 p.m.	Prescott Rodeo Grounds	Club Website
YARC Breakfast	TH 10/18/18	0800 MST 8 a.m.	BackBurner Restaurant, Prescott Valley	Don WB7TPH or Jeff WB7RFY
General Meeting Programs — See page 4.				
License Test Schedule — See page 5.				
Foxhunt Schedule — See page 6.				

YARC:	Badges	Patches	Shirts
Features:	Name & Call	Club Name & Logo	With or Without Name & Call
Contact Person(s):	Mike Reid N7IEP	Mike Reid N7IEP	Pete Morrison K6VVR
Cost:	\$7.00 each	\$3.00 each	Without Name & Call \$20.00 — With Name & Call \$24.00 each

Club Website Registration
In order to receive the <u>Signal</u> (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 members 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 at 1900 MST 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	Night	Time
2M	FM	147.260 MHz	+103.5 Hz	Wednesday	1900 MST
2M	SSB (USB)	144.250 MHz	N/A	Wednesday	2000 MST
10M	SSB (USB)	28.440 MHz +/- QRM	N/A	Thursday	2000 MST
¾M	FM	447.650 MHz	-100.0 Hz	Saturday	0900 MST

Yavapai County ARES/RACES Nets

2M	FM	147.260 MHz	+103.5 Hz	Monday	1830 MST
2M	FM	145.290 MHz	-127.3 Hz	Monday	1900 M

Club Repeaters

2M	FM	146.880 MHz	-100.0 Hz	Open Use 24/7	Open Use 24/7
¾M	FM	447.650 MHz	-100.0 Hz	Open Use 24/7	Open Use 24/7

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 Kathy Laing, KJ6KMK

This is an election year for the president and treasurer positions in YARC. If you would like to serve or know someone who would be interested, please contact any of the officers or board members. We have a large club with a lot of very talented members. To paraphrase a quote of a U.S. President John F. Kennedy, "Don't think about what the club can do for you; think about what you can do for the club." We need to involve more of our members in the planning as well as the execution of YARC activities. Take a look at the by-laws and think about how you can help make YARC a better experience for all of its members.

YARC will be holding the Arizona QSO Party and an open house at the Jeep Posse Building on October 14, 2018 from 1000 to 1400 MST (10 a.m. to 2 p.m. — be sure to save the date. If you have not had a chance to see the new communication room & the club station this will be a great opportunity. We will have refreshments and you will have a chance to see the station in action and operate it if you want.

We will be releasing information and the rules for the contest to design a new badge for YARC. Be sure to check the next issue of the Signal for specifics.

Meeting Minutes

The September general meeting was delayed until September 20. The board meeting is scheduled to convene on September 27. The minutes for these meetings — as well as for the October 4 general meeting — will appear in the November 2018 issue of the Yavapai Signal.

Practice Tests

YARC provides practice tests for the Technician Class license at the Jeep Posse building the Tuesday before the actual license exam. The next practice test will begin at **1800 MST (6 p.m.) on November 13.**



Mike N7IEP

TREASURER'S REPORT AUG 2018	General Fund	Repeater Fund	Prescott Hamfest Fund
BEGINING CASH -July 30, 2018	6,736.89	3,658.08	3137.53
Dues	288.00	32.00	
Training books	60.00		
Donation	60.00		
Badge orders	55.00		
50/50 Drawing	50.00		
Misc. < \$50	(3.52)	0.17	
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TOTAL INCOME	509.48	32.17	0.00
PO Box Rental – Mike N7IEP	92.00		
Mobile APRS Digipeater – Rob KG7LMI	385.43		
Office Supplies – Kathy K6KMK	75.21		
ARRL Books – Kathy K6KMK	112.50		
Misc. < \$50	27.09		
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TOTAL EXPENSES	692.23	0.00	0.00
ENDING CASH – Aug 30, 2018	6,554.14	3,690.25	3137.53

* * Detailed statements are posted on www.W7YRC.org

General Meeting Programs
<p>September Program - For the September general meeting, Rob Redford KG7LMI presented an overview of the work he has been doing on Mesh Networks, primarily for the benefit of Yavapai County ARES/RACES.</p>
<p>October Program – Bill Hager of the Yavapai County Jeep Posse and the Yavapai County Search and Rescue Team will be presenting a program on “Disaster Preparedness”. We appreciate Bill taking time out to present this program.</p>

Call for 2019 Officer and Board Nominations

At the November club meeting, YARC members will elect 3 board of director members (1-year terms) and a new treasurer and president (2-year terms). The current treasurer and president cannot be re-elected per the current club bylaws. Newly elected officers and board members will take office on January 1, 2019. At that time, our current president Kathy Laing KJ6KMK automatically assumes the YARC board position of past president for a 2-year term. Our current secretary and vice-president terms continue through calendar year 2019.

If you would like to be nominated or nominate someone else for a board member position or as treasurer or president, please contact Frank Bender K8FB (fhb47@hotmail.com) or Kathy Laing KJ6KMK (president@w7yrc.org). We are always looking for new faces to provide a different perspective to guiding our club in 2019. We would love for you to volunteer to be a candidate for our new 2019 officers and board. YARC cannot continue to thrive unless dedicated members step up into these positions.

Club Station Open House – October 14

There will be an open house at the YARC club station on Sunday October 14 from 1000 to 1400 MST. Come and tour the station — and even operate it if you wish during the Arizona QSO party. This may be especially interesting to anyone (Technician Class or unlicensed) who might want to operate HF under the supervision of a control operator. Refreshments will be served. This event is open to any interested person.

The club station is at the Jeep Posse building at 1200 Commerce Drive in Prescott (GPS will not get you there exactly). Look for the tower with all of the vertical and horizontal antennas. The Jeep Posse building is located directly behind the skating rink in Pioneer Park.

Contact: Frank Bender K8FB (k8fb@w7yrc.org)

License Testing

by Don Bauer, WB7TPH

The next scheduled license test is Saturday, November 17, 2018. The time is 0900 MST (9:00 a.m.) at the Jeep Posse Building. At the test session on September 15, we had 12 candidates. From those we got 2 new Technician licensees, 6 Generals, and one Extra. One person passed the Technician test and asked if he could try the General. He passed that as well.

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!

Upcoming License Testing

Date	City	Location	Time	Sponsor	Contact	Walk-in?
11/01/18	Prescott Valley	Trinity Lutheran Church 3950 N. Valorie Dr.	1830 MST 6:30 p.m.	PV Ham Study Group	Jim Scherfling 928- 632-2050	Yes
11/17/18	Prescott	Jeep Posse Building	0900 MST 9 a.m.	YARC	Don Bauer 928.775.4690	Yes



Amateur Radio Direction-finding Transmitter Hunt Schedule — Calendar Year 2018

by Pete Morrison, K6VVR

Meet at 1300 MST in the parking lot of the OneAZ Credit Union behind Walgreens near the corner of Willow Creek Road and Gail Gardner Way in Prescott. Contact Pete Morrison K6VVR or John Broughton WB9VGJ for additional information

Month	Day of the Month	Day of the Week
October	7	Sunday
November	4	Sunday
December	8	Saturday

September 2018 Foxhunt

by John Broughton, WB9VGJ

The monthly foxhunt was held Saturday, September 8, 2018. Pete K6VVR and Gary K6JXM were the foxes. He hid the transmitters on Lot 50 in a subdivision on Enchanted Canyon Way. There was five teams for this hunt: 1) Jeff WB7RFY and John WB9VGJ; 2) Mike AD5SU and Betty KF5LDA; 3) Bob WB6ODR; 4) Don KI7IOM and Sherwin WB7NFX; and 5) Mike N7IEP. The results of the hunt were:

Finish	Team	Time
1	KI7IOM and WB7NFX	1 hr. 11 min.
2	WB6ODR	1 hr. 09 min.
3	AD5SU and KF5LDA	1 hr. 10 min.
4	N7IEP	1 hr. 10 min.
5	WB7RFY and WB9VGJ	1 hr. 20 min.

The hunt got started about half an hour later than usual as the hunters could not hear the signal at the first two locations the foxes chose. The final location, the overlook on Pioneer Parkway, worked well as the signal could be heard most anywhere.

One problem with a good signal in many places is it can be misleading. Jeff and I drove through quite a few neighborhoods chasing the signal, which was very strong in some locations. Once we guessed where the transmitter might be, it took a bit of roundabout driving to get from where we were to the site.

You can see pictures of the hunt here:

<https://tinyurl.com/YARCFoxhuntSeptember2018>

We had our usual after hunt socializing session at the Prescott Junction restaurant. We would encourage more folks to get involved in the hidden transmitter hunts. They are really fun and help develop direction-finding skills.



Yavapai Amateur Radio Club Ten Meter Net

by Bill Noe, W7PVA

Your club has a 10 meter net that operates at 28.444 MHz USB every Thursday evening) at 2000 MST (8:00 p.m.). The net is a friendly round-table discussion of many and varied subjects. This net was established with the idea of providing our members with a Technician-level license the opportunity of operating on an HF band. Many Technicians overlook those privileges and operate using their privileges only on VHF and UHF.

HF is a very different radio environment. While VHF and UHF are primarily for line-of-sight contacts, HF propagation can enable long-distance communication. The different bands can be and are at their best at different times of day. Ten meters has had better propagation during the daytime but can be fantastic any time when the band is open. Operators have had contacts around the world with as little as 5 watts SSB. One night a ham in Sioux City, Iowa checked into the net at 8:00 PM and stayed with us for an hour with a great signal.

The 10 meter band wave length is about 33 feet. A half wave dipole antenna is about 16 and a half feet long, 8 plus feet on each side of the dipole. Most dipole antennas work well at least a half wave in height. The 10 meter antennas can be home made with a little effort and be quite effective. A dipole placed a half wave high would be about the height of your home. The antenna can be made very inexpensively using just about any wire and a piece of coaxial cable just long enough to go from the antenna to your radio location.

Equipment required to operate on 10 meters doesn't have to be extensive or expensive. A radio capable of 10 meters often can operate on most of the other HF bands. Check with your club quartermaster for the loan of a club radio. Currently YARC has several radios with HF capabilities to lend. Once you discover that you actually like the bands, whether you remain a Technician or upgrade to General for the additional privileges, you can find and purchase a radio that fits your needs.

Antennas are only limited by size, imagination and your HOA (if any). The antenna I am advocating, the dipole, would be cut and tuned for the frequency of operation. The section of the 10 meter band, 28.300 to 28.500 MHz, is narrow enough to be operated with the antenna tuned to 28.400 MHz. Rather than tell you how to make an antenna, I'm going to refer you to a YouTube video by Randy K7AGE. Below are the links on YouTube for those videos:

<https://youtu.be/84F4UgSWmQo> - How to Build a 10 Meter Dipole

<https://youtu.be/Ogxp3yjAzCs> - How to Tune a 10 Meter Dipole

Again, one of the reasons for the net is the ability of Technicians to operate voice there. If you are a Technician that has a radio capable of 10 meters I hope you will try to join us on 28.444 MHz USB at 8:00 PM Thursday evenings. All hams are welcome to join us. We particularly need relay stations for those that we can't hear. If you want to participate, and hopefully Elmer someone, come on down to the net!



W7YRC 2M FM Net — 147.260 MHz, PL +103.5 Hz — Wed., 1900 MST
Note: NCS = Net Control Station

Call	Name	08/22/18	08/29/18	09/05/18	09/12/18	09/19/18
AE7CG	Loren	NCS	NCS	NCS	NCS	NCS
K6VVR	Pete	x	x	x	x	x
KA5DWI	Art	x	x	x		x
KF7ANX	Frank	x	x		x	x
KF7FPD	Jerry	x	x	x	x	x
KF7INF	Dennis	x	x			x
KF7PQV	Dan	x	x		x	x
KG6AY	Art	x			x	x
W7HAM	Ralph		x	x	x	x
WA6AQK	Ken	x	x	x	x	x
WN7E	Tom	x	x	x	x	x
KG7EWD	Patrick	x		x	x	x
WA6FBA	Robert	x			x	x
NO1D	Doug	x			x	x
KI7LXI	Sheila	x			x	x
KI7LWU	Tim		x			x
KI7LWZ	Mike		x			
K7LMJ	Mike		x			
W7PVA	Bill	x	x		x	x
W7WWB	Ron					
KJ7WED	Bob	x	x			
K7PSR	Tony	x	x			
N7IEP	Mike	x			x	
N7NRE	David			x		
KG7VLH	John			x		

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Breakfast and Lunch Gatherings

There are a number of lunch and breakfast 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. 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 at the **Golden Corral** Restaurant in Frontier Village in Prescott, off Highway 69. You do not have to be a QCWA member to attend.

Every Monday – **Dan Nichols (W6SAK SK) Memorial Lunch**, 1100 MST to 1230 MST at **roving locations**. Contact Bob Rosevear WB7RRQ, 928-458-7830, rosevear520@cableone.net; or Bob Smith WB6ODR, 928-443-9321, lsmith@cableone.net for the next location.

Every Wednesday – **Breakfast** at 0700 MST at the **Manzanita Grill** at the Antelope Hills Golf Course, near the Prescott airport.

Club Officers, 2018			
Officer	Name	Call Sign	Email Address
President	Kathy Laing	KJ6KMK	kj6kmk.yarc@gmail.com
Vice President	Joseph Thomas	KG6IDN	vice.president@w7yrc.org
Treasurer	Mike Reid	N7IEP	treasurer@w7yrc.org
Secretary	Art Jackson	KA5DWI	secretary@w7yrc.org
Director	Don Bauer	WB7TPH	wb7tph@w7yrc.org
Director	David Hanson	W7BJ	w7bj@wq7yrc.org
Director	John Laing	K7PRS	k7prs@w7yrc.org
Director	Frank Bender	K8FB	fhb47@hotmail.com
Editor Emeritus	Joseph Oliver	AC6AA	joliver@cableone.net
Editor	Loren Singh	AE7CG	ae7cg@arrl.net
Webmaster	Randy Dashiell	W6TYV	webmaster@w7yrc.org

Yavapai Amateur Radio Club — W7YRC Club Station Access List — Effective January 26, 2017				
Name:	Call:	Lic. Class	Notes:	Telephone:
M. Bélanger	W1DGL	E	Rotating Member	420-0498
R. Redford	KG7LMI	G	Rotating Member	623-252-3980
T. Jackson	K6PSR	G	Rotating Member	562-644-0528
F. Bender	K8FB	E	Station Manager	379-5575
J. Zimmerman	N6KZ	E	Elmer Group	713-0542
A. Protas	KG6AY	E	Elmer Group	227-2954
D. Freeman	KV8TD	E	N7GMH Trustee	759-0958
B. Vlastelich	K7TSY	E	License Classes	583-7572
R. Dashiell	W6TYV	G	Dual Member	602-501-2571

Note: K. Laing KJ6KMK; P. Morrison K6VVR; B. Semon N7CW; and D. Bauer WB7TPH have station access, but are not to be contacted for station access.

