



# Yavapai Signal

The Yavapai Amateur Radio Club – Prescott, Arizona – DM-34 – Volume 30 – No. 8 – August 2015

Summary of Upcoming Club Events				
Date	Day of Week & Time	Event	Place	Details
07/24-25/15	Friday & Saturday	Hamfest	Williams	YARC booth, flea market
08/06/15	Thursday 1900 MST	YARC General Meeting	Prescott Mile High Middle School	Program: Digital Modes JT65/JT9 Presentation
08/07/15	Friday evening	License Testing	Jeep Posse Bldg., Commerce Dr., Prescott	Contact: Don WB7TPH
08/09/15	Sunday 1300 MST	Transmitter Hunt	Arizona State Credit Union parking lot, Prescott	Contact: Pete K6VVR or John WB9VGJ

For further details and other events, refer to the calendar on the club's website.

Arizona Amateur Television Network
<p>The Arizona Amateur Television Network (AZ-ATN) group is scheduled to make an amateur television (ATV) presentation at the Williams Hamfest on Saturday, July 25 from 1300 to 1400 MST. Mike, WA6VST would like to set up a dinner get-together for Saturday evening, July 25, 2015. Please contact Lee, KØCCU at <a href="mailto:k0ccu.atv@gmail.com">k0ccu.atv@gmail.com</a> if you plan on attending the hamfest and are interested in attending the evening dinner meeting.</p>

**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 meets at 1900 MST on the first Thursday of every month in the technology classroom at Prescott Mile High Middle School, 300 South Granite Street in Prescott. Vehicular access to the school parking lot is via the entry at the intersection of South Montezuma Street and Carleton Street. Programs of interest are included as part of the meeting.

[www.w7yrc.org](http://www.w7yrc.org)

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

<b>Club Nets</b>					
<b>Band</b>	<b>Mode</b>	<b>Frequency</b>	<b>PL</b>	<b>Night</b>	<b>Time</b>
2M	FM	147.260 MHz	+103.5 Hz	Wednesday	1900 MST
2M	SSB (USB)	144.220 MHz	N/A	Wednesday	2000 MST
10M	SSB (USB)	28.440 MHz +/- QRM	N/A	Thursday	2000 MST
1¼M	FM	224.080 MHz	-156.7 Hz	Wednesday	1830 MST
<b>Yavapai County ARES/RACES Nets</b>					
2M	FM	147.260 MHz	+103.5 Hz	Monday	1830 MST
2M	FM	145.290 MHz	-127.3 Hz	Monday	1900 MST
<b>Club Repeater</b>					
2M	FM	146.880 MHz	-100.0 Hz	Open Use 24/7	Open Use 24/7

<b>Club Mentors (“Elmers”)</b>		
<b>Name</b>	<b>Call Sign</b>	<b>Telephone Number</b>
Bud Semon	N7CW	928-899-7400
Jim Zimmerman	N6KZ	928-713-0542

<b>Club Website Registration</b>
Please register to get on the club's email distribution list and also gain access to the members'-only area of the website. The members'-only area contains the club roster and detailed club treasurer's reports. To register, go to <a href="http://www.w7yrc.org">www.w7yrc.org</a> , click “Join Us” and then select “Registration.” Fill out the requested information, and then click “Register.” The webmaster will then verify your membership and authorize your account. His response is not immediate in real time.



### From the President's Desk: Amateur Radio vs. Ham Radio

Earlier in the year, I attended a radio related meeting and several representatives of an organization based out of the Phoenix area mentioned that they don't like to use the term "amateur radio" and prefer to use "ham radio", if I remember correctly. The rationale was along the lines that "amateur" has a shoddy connotation. At the time, it struck me as being odd, but I didn't say anything. To me and a lot of the members of our hobby, "amateur radio" is a term of pride. The real meaning of "amateur" in "amateur radio", means non-professional, as there can be no commercial interest in our operating activities. Some radio amateurs are still pushing the technical limits of amateur radio, such as creating new software driven weak signal digital modes, reverse beacon networks, software defined radios, and other technical advancements. This surely is not "amateur" behavior in any negative sense of the word.

"Amateur radio" will certainly continue to be part of our ham heritage. Our licenses are very clearly titled "Amateur Radio License", as we are part of the FCC Amateur Radio Service. It took me, and a good number of others, a lot of work and time to go from Novice, to General, to Advanced, and then to Amateur Extra. This when each of these licenses, except Advanced\*, required us to receive and transmit Morse code at ever increasing speeds, in addition to passing increasingly difficult written examinations – a double whammy. At that time, if you happened to fail any part of the examination, like the sending of perfect Morse code for at least one minute at the required speed, you failed the entire examination and received no credit for any part that you passed.

Things have changed, and that is great. Morse code is no longer a requirement and license exam questions are more stable and predictable. We now have many more hams in the U.S. and CW continues to grow in popularity. Yes, as you can tell, I am still proud of being a radio amateur and you should be too.

I have no issue with "ham radio" either. My non-licensed wife refers to me and my associates, as "ham heads" and I wear that tag with a sense of pride as well.

Okay, I am off my soap box now. As always, let the board and officers know how we can improve things. We represent you, the member. Look forward to seeing you at the August general meeting.

73 – Frank Bender, K8FB

**Editor's Note:** \*The Morse code requirement for the Advanced class license was 13 words per minute, the same as for General class. If a license applicant did not already hold a General class license, the applicant was required to pass Morse code examinations in sending and receiving at 13 words per minute. Your editor held an Advanced class license from 1977 to 2001. – Loren Singh, AE7CG



W7BJ

**TREASURER'S REPORT — June 2015**

		<b>General Fund</b>	<b>Repeater Fund</b>
<b>CASH - May 31, 2015</b>		<b>\$11,204.51</b>	<b>\$2,730.64</b>
	Dues	\$211.50	\$23.50
	Donations	\$10.00	
	50/50 Raffle	\$29.50	
	Misc. < \$50	<u>\$50.79</u>	<u>\$0.07</u>
	<b>TOTAL INCOME</b>	<b><u>\$301.79</u></b>	<b><u>\$23.57</u></b>
	Donation - Coax EL2DT	\$250.00	
	Repeater #2	\$500.00	
	Field Day Supplies	\$481.92	
	Misc. < \$75	<u>\$191.65</u>	
	<b>TOTAL EXPENSES</b>	<b><u>\$1,423.57</u></b>	<b><u>\$0.00</u></b>
<b>CASH - June 30, 2015</b>		<b><u>\$10,082.73</u></b>	<b><u>\$2,754.21</u></b>
* * Detailed statements are posted on <a href="http://www.W7YRC.org">www.W7YRC.org</a>			

<b>YARC:</b>	<b>Badges</b>	<b>Patches</b>	<b>Shirts</b>
<b>Features:</b>	Name & Call	Club Name & Logo	With or Without Name & Call
<b>Contact Person(s):</b>	Dan Simpson AE7IH or Erica Simpson KF7MAU	David Hanson W7BJ	Pete Morrison K6VVR
<b>Cost:</b>	\$7.00 each	\$3.00 each	Without Name & Call \$20.00 each — With Name & Call \$24.00 each



KCØTGG

Yavapai Amateur Radio Club (YARC)  
Board of Director's Meeting  
June 16, 2015  
Yavapai Hills HOA Clubhouse  
Prescott, AZ

Present: K8FB, W7BJ, KCØTGG, WB7TPH, KF7YZJ, KV8TD, W6TYV, and AE7CG.

The meeting was called to order by K8FB at 18:01 MST

Old Business:

1. The Treasurer's report and meeting minutes: W7BJ presented the Treasurer's report as of June 16, 2015.
2. Trade Mark update status: W7BJ stated it is on his "to do" list.

3. Club Station Status: K8FB stated that the MOA/access and usage rules and guidelines were approved by the Board. WB7TPH, W6TYV, N7CW, and K8FB agreed and stated that they are going to meet with Jeep posse at their request on Thursday, June 18th to finalize all documents and sign same.

Note: Jim Grimm brought up an issue about the tower. He questioned, "Why does it have to be so high?"

W6TYV stated that they have concerns that it will take up parking spaces where they now park the communications vehicle. Other issues are that there are underground lines and Blue Stake will have to mark them. K8FB added that he has a desktop Pentium-4 computer for sale that could be used for the Club Station. W6TYV said that internet access is being installed on Friday. K8FB handed out the "Club Station Access" list and members decided to have a rotating basis for one year. A list will be given to the Jeep Posse. WB7TPH suggested that a digital lock box be purchased.

On June 30th the Granite Mountain Hotshot Memorial special event will honor the Hotshots who lost their lives. The Club members will be able to use the YCJP/Club Station with a temporary antenna.

4. Field Day: W6TYV stated that things are looking good. N6KZ is going to be the GOTA Captain. N7CW will be the CW captain. W7BJ will be the SSW captain. We have both camp sites. The lower site will be available Friday at 1400 MST and the upper site will be available Saturday at 1400 MST. K8FB stated that the Field Day and Club banners will be on site.

The Ambassadors: WB7TPH, N6KZ, WB7RFY and KB7TRE - need more ambassadors at the GOTA station for visitors. An article about Field Day was printed in the Prescott Daily Courier on Sunday, June 14th.

Picnic: KF7YZJ reported that we have approximately 34 people signed up. We need more people to sign up to bring side dishes for Saturday. Hamburgers, Brats, and hot dogs will be on the menu! On Sunday, KB7TRE will be cooking breakfast! Parking is limited and volunteers are needed to direct cars to the shuttle parking...HELP!!!

5. Williams' Hamfest: K8FB said that he will be there July 24th and the 25th. N6KZ offered to help bring things up to Williams. W7BJ also offered to help. Volunteers, W7HAM and WN7E, will help in the booth. N6KZ will help check/booth/transportation. WB7tPH is doubtful he can attend but will if he can. K8FB suggested that the Club purchase more folding tables. W7BJ made a motion to buy 3 tables. KF7YZJ seconded the motion. The Board approved the purchase. K8FB stated that N7CW said that the Mount Francis repeater is the same repeater pair as the Mount Union pair. YARC would also like to get a 2 meter pair to install on Mt. Francis. The Club wants to get the policy changed at the ARCA Repeater owners meeting at the Williams Hamfest on July 25. K8FB, N7CW. and possibly, K6VVR may attend.

New Business:

6. K8FB wants to welcome KCØTGG as the new Secretary until the end of the current term...December 2015. AE7CG has stepped down as Secretary and is now the Signal editor. K8FB received an email from a Club member stating that he/she was dissatisfied with the way the membership expires on the website and may let his/her membership expire. AE7CG stated that any dissatisfied members should be specific about their complaint(s), and if they have a suggestion on how to solve the problem, let us know. WB7TPH said that a comment card be available to members to complete. WB7TPH stated that the upcoming programs are SIG's in July...Special Interest Groups... when there will be an introduction to all special groups and in August...to be announced! September will be Log Book of the World! W7BJ suggested that all SIGs with contact numbers be listed in the Signal. W6TYV said that these are listed on the website.

7. Other subjects discussed:

YARC Party: K8FB told the group that WN7E has reserved the Stoneridge Grill for January 23, 2016 for the YARC party.

Time keeping: K8FB recommended that general meetings should be limited to 40 minutes and presentations to 35 to 40 minutes. Also a Timekeeper should be assigned.

License Club chair-person: K8FB stated that we have an opening for a License Club chairperson as W7JLC has stepped down. We are looking for interested people!

Important: AE7CG suggested that we remove the language on the 2 Meter Net Control that says: "Temporary use of ARES repeater until further notice". The board agreed to remove the language.

Revise brochure: K8FB stated the Club brochure needs to be updated. WB7TPH added that he will work on it.

Logo update: WB7TPH suggested that we leave the logo alone for the time being. The newsletter and website have a newer logo they can continue using. The board agreed.

Online membership renewal and ordering patches and badges: K8FB suggested that we table this discussion until the August meeting.

Respectfully submitted by

Ron Nelson, KCØTGG  
YARC Secretary

Yavapia Amateur Radio Club (YARC)  
General Meeting  
July 2, 2015  
Prescott Mile High Middle School  
Prescott, Arizona

The meeting was called to order by K8FB at 1900 MST. The Pledge of Allegiance to the Flag was recited by all present. K8FB asked if there are any visitors who are not becoming members this evening, and N6VR Ray stood up and introduced himself.

K8FB announced that Don WB7TPH had knee replacement on 6/29/15 and is recovering. K8FB asked for a motion to approve the minutes of the June general meeting and the May treasurer's report. K7POF made the motion and AF7ZR seconded the motion. The motion was unanimously approved by acclamation.

New Members: K8FB presented four new applications for YARC membership from Chris Carter KG7LMB, Doug Theriault NO1D, Dewey Shirley KC7FRA, and Terry Schultheiss KC7BAM (not present). K8FB asked for a motion to approve the applications. WB9VGL made the motion. W1DGL seconded the motion. The motion was unanimously approved by acclamation.

#### Committee Reports:

1. Public Service: Saturday, September 12, 2015. .... March of Dimes March for Babies.... This event this year will be held in Prescott Valley with the course to be determined. Sunday, September 20, 2015. ....Skull Valley Loop Challenge.... This is a small Bike event starting in Downtown Prescott. Saturday, September 26, 2015. ....Groom Creek Classic.... This is the 1/2 Marathon, 10K, 5K, and 2 Mile fun run starting at the Groom Creek Fire Station. Saturday, September 26, 2015 will be a new event this year. ....The Bradshaw Grinder.... It will be the same as the Chino Grinder, except in the southern Bradshaw Mountains, starting and finishing in Mayer, Arizona. With this being on the same day as the Groom Creek Classic, Bob, KC8BOB, will be coordinating this event. More details to follow. Friday and Saturday, Oct 2 & 3, 2015 will be the Prescott Road Rally. Sign up for this event will be available on the Prescott Rally website: <http://prescotttrally.com/> ... We have had our first meeting for this event so things are getting started. Saturday, Oct 17, 2015 .... Diabetes Walk.... John, WB9VGJ, will be coordinating this event. Except as noted above, to sign up for any upcoming events you can contact Patti – KD7VBG at [kd7vbg@k7yca.org](mailto:kd7vbg@k7yca.org) or visit the website [www.k7yca.org](http://www.k7yca.org), go to Calendar and sign up there. Also, sign-up sheets will be at the YARC meetings.
2. Patches and badges: W7BJ has patches and badges.
3. Shirts: K6VVR has shirts.
4. Club Repeater: K6VVR 440 MHz repeater application submitted ARCA repeater council. Antenna – and other equipment needed.
5. Fox Hunt: K6VVR Stated that this Fox hunt will be a special one, Starting at the usual time, but will be held at Embry Riddle and there will be 5 transmitters to find, using low output.
6. License Class: K8FB stated that W7JLC stepped down from the license class coordinator and if anyone is interested in doing that please let K8FB know.
7. Field Day: W6TYV stated that field day went very well, and wanted to thank all the coordinators and everyone that helped put this on. K8FB wanted to thank: Randy, W6TYV – FD Chair and satellite station; Bud, N7CW and Patti, KD7VBG – ARES MARC; Jim, N6KZ – GOTA station captain; Bud, N7CW – CW station captain; Dave, W7BJ – SSB station captain and Army MARS station and Breakfast Grill Master, Ron, KCØTGG, Grill Master; Doug, KF7YZJ – Picnic Coordinator and food acquisition; Don, WB7TPH – PIO – FD Publicity and log submission; Joann, KF7WOT and Terry, KG7BAM – Deep cycle batteries; Mike, W1DGL – 6 M GOTA station and photographs; Loren, AE7CG – photographs for Signal; and Jeff, WB7RFY – FD ambassador.
8. June 30 Granite Mountain Hotshot Memorial Event Update: KV8TD, Doug Freeman operated N7GMH from the Jeep Posse Building. A number of members operated from their home stations using N7GMH.

Old Business:

9. Williams Hamfest: July 24, 25: K8FB stated that the club is looking for donations and volunteers for both days.
10. Club Station Update: YCJP did not want us to put up a permanent tower but were offered to borrow the ARES/RACES antenna trailer that was approved by the YCJP.

New Business:

11. EL2DT Thank You Email: K8FB stated that we received a thank you email from Dickson EL2DT for the YARC donation.
12. 2016 YARC Party: is scheduled for Sat. January 23rd. 2016.
13. Signal Editor Emeritus: Joe Oliver, AC6AA has cancer and has started chemotherapy. He was the editor of the Signal for approximately 10 years and the board awarded him this title.
14. Proposed Meeting Time Line: 1900 – 1940 Business Meeting; 1940-1950 Break; 1950-2030 Program.
15. SIG Breakouts: Planned twice a year.
16. New members (late to the meeting) were voted in. Bob Rose, AA3RR and Brenda Rose, KB3ATI.
17. 50-50 Drawing: The winning ticket went to KG6AY in the amount of \$56.
18. Break
19. The SIG breakouts were held. The CW Slow Speed Net SIG and the Equipment Evaluation SIG were deemed inactive for the current time. K8FB started the Basic Amateur Radio SIG for new and inexperienced hams.
20. Adjournment: K8FB adjourned the meeting at 2030 MST.

Respectfully submitted by

Ron Nelson, KCØTGG  
YARC Secretary



**August Program: Army Military Auxiliary Radio System (MARS) in Vietnam**

For our August Program at the August 6th club meeting, Ray Benny, N6VR will be giving a presentation on ARMY MARS in Vietnam. Ray is a serious DX'er who resides in Chino Valley. We appreciate Ray offering to do this program on ARMY MARS for our club. If you are not familiar with the MARS program, this is sure to be quite informative.

**New Members**

We are happy to welcome the following new YARC members. Please introduce yourselves to them and make them feel welcome.

Chris Carter KG7LMB	Dewey Shirley KC7FRA	Bob Rose AA3RR
Doug Theriault NO1D	Terry Schultheiss KC7BAM	Brenda Rose KB3ATI



Joe, AC6AA



Don, WB7TPH

**YARC Sick Call**

<b>Joe Oliver, AC6AA</b>	Joe Oliver, AC6AA, our club's <u>Signal</u> Editor Emeritus has recently given up his chemo therapy treatments due to the great loss of weight that he encounters during each treatment cycle. Joe is now seeking palliative care from his care givers. Please reach out to Joe and also keep him in your thoughts and prayers.
<b>Don Bauer, WB6TPH</b>	Don Bauer, WB6TPH, our past president, had knee replacement surgery on June 29th. The surgery went well, but Don has run into some complications. Don has had a hematoma on his knee, resulting in a fair amount of blood loss. Recently he had to have a blood transfusion. Don's condition is slowly improving. Hopefully, he will be released from the rehab center in Prescott Valley later in July.

<b>YARC:</b>	<b>Badges</b>	<b>Patches</b>	<b>Shirts</b>
<b>Features:</b>	Name & Call	Club Name & Logo	With or Without Name & Call
<b>Contact Person(s):</b>	Dan Simpson AE7IH or Erica Simpson KF7MAU	David Hanson W7BJ	Pete Morrison K6VVR
<b>Cost:</b>	\$7.00 each	\$3.00 each	Without Name & Call \$20.00 each — With Name & Call \$24.00 each



### **New Club Station Status Update** by Frank Bender, K8FB

The Memorandum of Agreement (MOA) to set up a club station at the Jeep Posse building at 1200 Commerce Drive has been signed by YARC and the Yavapai County Jeep Posse (YCJP). We have also drafted a set of physical access rules and station usage guidelines that the board has approved. Both of these documents are posted on the website under the menu “Club” and then “Club Station”.

We have created a list of members who will be permitted direct access to the Jeep Posse building and club station. To be placed on this list you need to be available to be scheduled for periodic club station operating events. You will also need to have some availability to open up the club stations for members upon request. If you are interested in having this access, contact Frank Bender, K8FB ([president@w7yrc.org](mailto:president@w7yrc.org)) or Don Bauer, WB7TPH ([wb7tph@w7yrc.org](mailto:wb7tph@w7yrc.org)).

Until YCJP updates its agreement with Yavapai County, we will have to use a tower trailer loaned to us from the Yavapai County ARES/RACES organization. Bud, N7CW brought the tower trailer over to the Jeep Posse building with the help of Jim, N6KZ and Art, KG6AY. For a good part of July, Jim – N6KZ has been leading the installation of the club station. The desk has been spray painted, so it looks much better. The Elmer Group loaned the station a Kenwood TS-440 HF transceiver. We also have a VHF/UHF dual band transceiver and a Diamond VX-50 dual band vertical installed on the tower trailer. Art, KG6AY crawled under the building to pull a line through to drag the coax cables under the building. Jim, N6KZ rigged up some nice coax terminal boxes on the floor of the shack and also installed a panel to contain the coax terminations from the antenna and the lightning arrestors.

The remaining work includes hooking up an HF antenna and completing the lightning arrestor terminations to an 8 foot ground rod. Many thanks especially to Jim, N6KZ for driving the work to get everything installed in a professional manner and selecting the station accessories. Thanks also go to Art – KG6AY, Dave – W7BJ, Tom – WN7E, and Randy – W6TYV for helping out with the installation.

We hope to have the station up and running by the end of July. Watch for an announcement on the club's home page for club station updates. Up to date information about the club station can be found by going to the club station menu and selecting “Club” and then “Club Station”.

Once we have the station up and running, we intend to schedule some sessions to demonstrate more of what the beginning ham can be done with ham radio, using the installed radios in demonstrations. During these sessions, the new ham will be able to ask questions that are pertinent to their own situations.

Event Communications Calendar — Autumn 2015					
Date	Day of Week	Event	Place	Course	Coordinator
09/12/15	Saturday	March of Dimes March for Babies	Prescott	TBD	
09/20/15	Sunday	Skull Valley Loop Challenge	Prescott - Downtown		
09/26/15	Saturday	Groom Creek Classic	Groom Creek Fire Station	½ Marathon, 10K, 5K, 2mi. Fun run	
09/26/15	Saturday	Bradshaw Grinder	Mayer	Southern Bradshaw Mountains	Bob Thompson, KC8BOB
10/2-3/15	Friday & Saturday	Prescott Road Rally			Website: precottrally.com
10/17/15	Saturday	Diabetes Walk			John Broughton, WB9VGJ

Except as noted above, to sign up to participate in any of the above events—contact Patti Halgunseth, KD7VBG at [kd7vbg@k7yca.org](mailto:kd7vbg@k7yca.org) or visit the website [www.k7yca.org](http://www.k7yca.org), go to Calendar and sign up there. Also, sign-up sheets will be at the YARC general meetings.

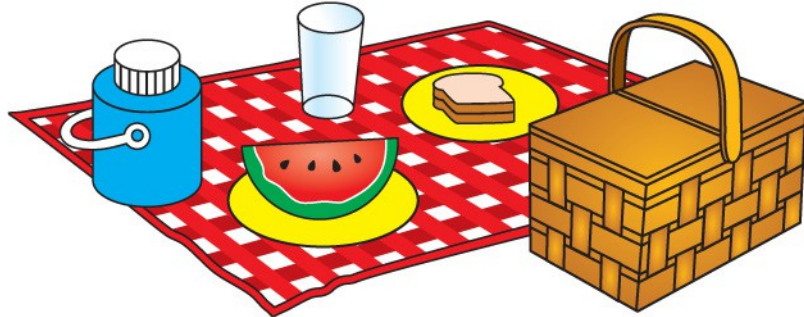
**Amateur Radio Roundtable**

It's time for Amateur Radio Roundtable, a live weekly amateur radio webcast and simulcasted shortwave program, held every Tuesday night at 1800 MST (0100 UTC Wednesday). The show can viewed at [W5KUB.com](http://W5KUB.com) or heard on shortwave radio station, WTWW on 5085 KHz. Tom Medlin, W5KUB, is joined by co-host Ted Randall, WB8PUM, from the QSO Radio Show. The show covers a wide range of topics for ham radio operators, shortwave listeners, and electronic hobbyists; including balloon launches, satellites, go-kits, emergency communications, SDR, digital modes, DXing, home brewing, and more.

**July Program: Special Interest Group (SIG) Breakouts**

At our July meeting, the moderators of each SIG arose and explained the purpose of their SIGs and invited club members to participate in their breakout. The Digital, Arduino/Raspberry Pi/SDR, 10 Meter, and IRLP SIGs then met to discuss what they have been doing and planned next steps. The Equipment Evaluation and Slow Speed CW Net SIGs are currently inactive. A Basic Amateur Radio SIG was started to address the needs of new hams and help them with “what’s next now that I have my license.”

Hopefully we will see some more meeting programs from the SIGs in the near future. Our current plan is to have SIG breakouts at the club meetings a few times each year.



### **2015 Field Day and Picnic** by Frank Bender, K8FB

This year's Field Day and picnic turned out well at our sites at the Eagle Ridge Group Camp Ground at Lynx Lake. The weather was a bit hotter than normal, causing some members to forgo the picnic.

Three stations were set up for Field Day: Get On the Air (GOTA), SSB, and CW. Wire antennas were strung up in the tall Ponderosas for the SSB and CW stations. Bud, N7CW did a great job launching ropes into the trees, despite some good-natured ribbing when he did occasionally miss. The CW station had a fair amount of activity. Jack, KBØYYG spent a good bit of time listening to CW contacts being made by Bud before jumping in to make contacts on his own.

The SSB station, captained by Dave, W7BJ in the ARES MARC vehicle, kept busy throughout the day. Dave also checked into his ARMY MARS net on the weekend.

Jim, N6KZ was continually working with people at the GOTA station and awarded a number of ARRL GOTA pins for their participation. Jim set up an R-6000 vertical at the GOTA station for 20 through 10 meters, which performed well. The GOTA and CW stations operated entirely on deep cycle batteries and made it through the 24-hour event satisfactorily. The SSB station operated using the batteries and generator in the MARC. Because of the heat, the MARC's air conditioner was running during the day, which made the SSB station a popular place to be.

The picnic on Saturday afternoon had a good turnout. The large ramada at the Osprey site provided plenty of seating and shade for the picnic. Our grill master Ron, KCØTGG did a great job keeping picnickers supplied with grilled eats. Thanks to Doug, KF7YZJ for acquiring the meats and picnic supplies.

Thanks to everyone for coming out to help set up, operate, camp at the sites, and help with and enjoy the picnic. We especially want to thank Bud, N7CW and Patti, KD7VBG for the use of the ARES MARC vehicle. It appeared that everyone who came to the events had a good time. Go to the club website, select "Events" and then "Field Day" from the menu. Scroll down and see links to photos of Field Day and the picnic.

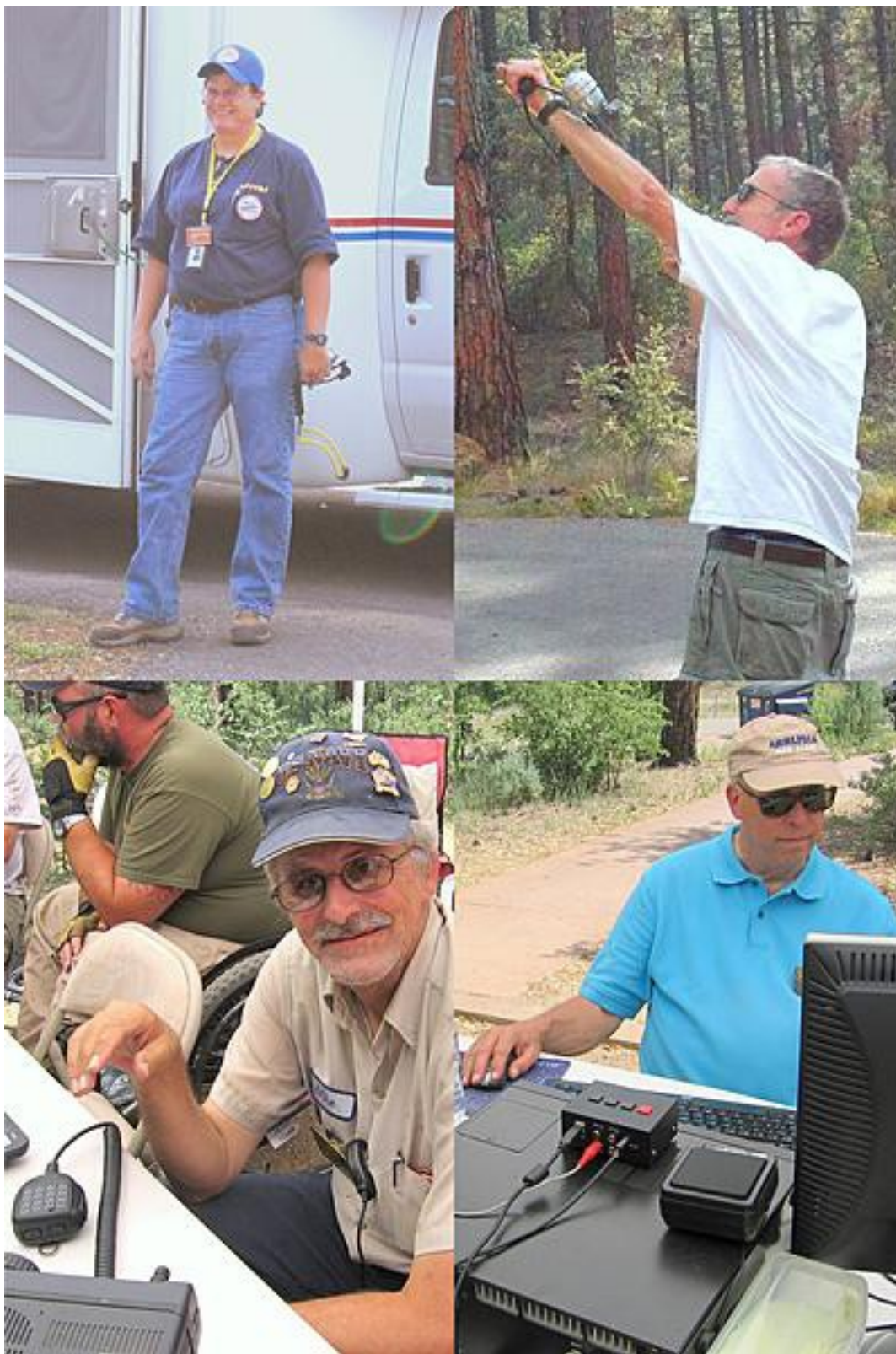
As it turned out, there was plenty of parking at the Field Day/ picnic sites this year. No one had to park off site that I am aware of. We did have some hiccups along the way, but there was nothing major. For our first Field Day away from Granite Mountain Middle School in several years, things actually went fairly well. We are already collecting feedback from participants to make improvements for Field Day 2016. If you have any comments or suggestions for improvements to Field Day or the picnic, please send me an email with your feedback to [president@w7yrc.org](mailto:president@w7yrc.org). We will get back to the membership with a summary of our findings in the future. We hope to see you at next year's Field Day!



Field Day and Club Picnic Scenes, June 2015 -13- Yavapai Signal August 2015

### Field Day and Club Picnic Scenes, June 2015

From upper left, clockwise: Patti, KD7VBG; Bud, N7CW; Frank, K8FB; and Mike, W1DGL:





**July 2015 Foxhunt**  
by John Broughton, WB9VGJ

The monthly foxhunt was held Sunday, July 5th. Byon, N6BJ and his wife Lara, KD6AYO drove up from Chandler and they hid the transmitters. They hid five transmitters in various locations on the Embry Riddle Aeronautical University campus. They were transmitting on different frequencies at 15 mW of power with duty cycles of about 15 seconds on and 12 seconds off. It made for a very interesting and fun hunt. It was a new experience and everyone seemed to enjoy it very much.

Some hunters walked to most or all of the transmitters, while some drove until they were close to the transmitters and then got out and finished on foot. None of the transmitters were all that far away from a road or parking lot.

We had four teams of hunters:

- 1) Bob, WB6ODR, and Linda, KD7EEO; 2) Jeff, WB7RFY, and John, WB9VGJ; 3) Pete, K6VVR, and Diane, KE7ODP; and 4) Dave, W7BJ, and Frank, KF7ANX.

This was the first multi-transmitter hunt we've had and was a very interesting experience. All the teams did pretty well in the hunt. The results were:

Place	Team	# Transmitters Found	Time
1	WB6ODR & KD7EEO	5	1 hr. 54 min.
2	K6VVR & KE7OD	4	1 hr. 53 min.
3	W7BJ & KF7ANX	5	2 hr. 02 min.
4	WB7RFY & WB9VGJ	3	2 hr. 05 min.

Congratulations to Bob and Linda for winning the hunt! We had our usual social get-together after the hunt at Prescott Junction Restaurant. Often, the camaraderie after the hunt is just as much fun as the hunt itself. It is always enjoyable.

You can see pictures of the hunt at:

<http://tinyurl.com/YARCJuly2015Foxhunt>

We would encourage more folks to get involved in the hidden transmitter hunts. They are really fun and help develop direction-finding skills.

**Thank You Message from EL2DT to N7CW**

From: Dickson Tarnue <[dtarnue@gmail.com](mailto:dtarnue@gmail.com)>  
 Date: Fri, Jun 26, 2015 at 2:35 PM  
 Subject: Thanks!  
 To: Bud Semon <[bsemon@gmail.com](mailto:bsemon@gmail.com)>

Dear Bud, N7CW:

I would like to thank you very much for your financial contribution you sent to us from The Yavapai Amateur Radio Club. Your financial support will help us continue in our mission to assist in the training process of interested Liberian youth wishing to join the amateur radio hobby.

The generous support of individuals and amateur radio club like this will make it possible for our organization to exist and to make ham radio training available in our various secondary schools and communities in our country.

Thank you again for your support!

Sincerely,  
 Dickson, EL2DT

**YARC Volunteer Opportunities**

Contact Frank Bender, K8FB ([president@w7yrc.org](mailto:president@w7yrc.org)) if interested in helping out in any of these or other areas.

Opportunity	Description
License Class Chairperson	Looking for someone to coordinate license classes for the club. YARC generally holds two sets of license classes each year. We are planning to hold a set of classes this coming fall.
License Class Instructors	Looking for volunteers to teach a section of the license class session beginning in the fall. Veteran instructors or instructors with no experience are being sought.
Club Station Access Members	With the installation of the new club station (W7YRC) at the Jeep Posse building, we are in need of several members who will have access to the building and the station. These members will have access for a period of time and will need to be available to be scheduled for open house operating events, as well as opening up the station upon request for the use of other club members. Please send your request with a very brief rationale as to why you should be considered to Frank Bender, K8FB or Don Bauer, WB7TPH.
Yavapai Hamfest Chairperson	The YARC Board would like to re-institute an annual hamfest in the Prescott area. We envision the hamfest being a half day or so event at a local venue, such as ERAU. The timing of the hamfest has not been determined. A hamfest in the summer or early fall might entice hams in the hotter areas of the state to come to Prescott. A spring or fall hamfest would also be an option.



### **RF Tripping of Arc Fault Circuit Interrupters** by Arthur Protas, KG6AY

A number of Eaton Arc Fault Circuit Interrupters (AFCI) are known to be susceptible to RF. AFCI circuit breakers are being installed in newer homes and homes where the electrical panels were recently upgraded.

So what is an AFCI? An AFCI is a circuit breaker that is installed in the electrical distribution circuit breaker panel at the utility service entrance of your home. These are relatively new devices and are now required by the National Electric Code (NEC) and therefore installed in recent home construction. An arc fault is an unintended arc created by current flowing through an unplanned path. Arc faults are characterized by low values of current that produce high amounts of heat at the point of the arc. They may be involved between the hot line wire and neutral conductor; hot wire and ground; or in series with a conductor wire (such as at a poor connection). An arc is characterized by a relatively low current with the arc energy and high amount of heating at the arc fault location.

Over-current protective devices do not detect low level hazardous arcing currents that have the potential to initiate electrical fires. The AFCI circuit breakers use a complex algorithm to detect various types of arc faults from those associated with normal operation of devices that produce arcs, such as the switching of a reactive load or the arcing of a motor commutator.

I recently encountered an issue when testing my newly installed station in my 2½-year old house. During HF testing into a new vertical antenna, I had all 4 of my Eaton AFCI breakers trip at once at about 10 watts on 18 MHz. After some routine troubleshooting, I pretty much ruled out any radio or antenna issues as the sources of the problem. I had several suggestions to just replace the AFCI breakers with normal over-current-only breakers. I ruled this out since it would have not only violated code but would have also scarified valuable protection offered by these devices.

I did a search of AFCI devices and RF and found a reference to ARRL article (<http://www.arrl.org/news/arrl-helps-manufacturer-to-resolve-arc-fault-circuit-interrupter-rfi-problems>) for this very problem with regard to the commonly used Eaton AFCI. Eaton along with ARRL test laboratories had determined there were issues with some of these AFCI breakers. Both parties worked together to resolve the issue on the now manufactured Eaton AFCI breakers. The article provides names and numbers of Eaton representatives. After I contacted and explained my issue, Eaton provided four new AFCI breakers free of any charges.

These breakers are relatively easy to install provided you are knowledgeable and feel comfortable to safely work in the 240/120 volt electrical distribution panel. I have worked in the industry for many years and for me it took less than a ½-hour once I opened the main breaker and tested for zero voltage. If in doubt I urge you to err on the side of safety and hire an experienced electrician. My tripping issue was resolved with the replacement breakers.

## I Have My License - Now What?

by Frank Bender, K8FB

This is a common question of the newly licensed or inexperienced ham. It was one of my major goals when I took on the role as the YARC president to provide more attention to the newly licensed or inexperienced ham. There is no sense in anyone making the sizable effort to study to become a ham - successfully pass their license exam and then have their interest die through inactivity and inattention. We are slowly making improvements to grow the new ham.

We would also like to encourage more Technician Class licensees to upgrade to General or Amateur Extra Class licenses.

Our club is trying to do a better job of addressing the needs of the new ham. We are making progress, but sometimes it is slower than we would like. You can help us out by letting us know what we, as a club, can do better and also what you particularly like that we do. Feel free to contact me at [president@w7yrc.org](mailto:president@w7yrc.org) or stop by and chat before or after the club meetings, if you have any suggestions or questions.

Services to Aspiring or New Radio Amateurs	
Service	Description
License Classes	Intense, one-day classes to enable you to pass the entry level Technician Class exam. We are planning on offering another Technician and possibly a General class training session sometime in the fall.
License Exam Sessions	The next scheduled license exam session will be on Friday, August 7th at 1800 MST at the Jeep Posse building on Commerce drive in Prescott. On the club's website ( <a href="http://www.w7yrc.org">www.w7yrc.org</a> ) menu go to "Become a Ham" to register for a license exam.
Buddy Mentor Program	The buddy mentor can answer your questions about amateur radio and offer you ongoing advice. The mentor has good experience that can get you through a lot of the first steps in ham radio. If you would like a buddy mentor to be assigned to you contact Don, WB7TPH at <a href="mailto:wb7tph@w7yrc.org">wb7tph@w7yrc.org</a> . Please be patient as it may take some time for Don to get back to you, due to his ongoing recovery from knee replacement surgery.
Elmer Program	The Elmer Group can help you get your station and antennas set up or resolve technical issues with your station. Occasionally, the Elmer Group has equipment that they can loan to help you get started. The YARC Elmer Group has been active for a number of years and is in the best tradition of service in amateur radio. Bud, N7CW and Jim, N6KZ are the major players in the Elmer Group and keep quite busy helping out club members with their stations. We are very fortunate to have Elmers of their skill and dedication. If you would like their assistance, send them an email at <a href="mailto:ask.elmer@w7yrc.org">ask.elmer@w7yrc.org</a> .
Basic Amateur Radio Special Interest Group (SIG)	At the July meeting we started the Basic Amateur Radio SIG to help identify topics that you, the new ham, would like the club to focus on to meet your needs. If you are interested in joining this informal group, contact Frank, K8FB at <a href="mailto:president@w7yrc.org">president@w7yrc.org</a> .
The New Club Station	One of the major uses of our new club station will be to schedule periodic sessions, as part of the Basic Amateur Radio SIG, to address the needs of the new or inexperienced ham. We intend to use the HF rig and the VHF/UHF rig of the club station to demonstrate operating techniques and answer questions to help you get more immersed in amateur radio. Stay tuned to announcements of newbie sessions to be scheduled at the new club station at 1200 Commerce Drive in Prescott (the Jeep Posse building). We hope to begin these sessions as early as August, once we have the club station up and running.

Public Service Events	Our club provides a great service to our community by providing free comprehensive communications services to charitable events in the area. These communication exercises are a good way to prepare for a real emergency. Our club participates in approximately a dozen of these events each year. These events are normally coordinated by Patti, KD7VBG. These events are a great way to learn by doing. Don't be concerned if you feel too inexperienced as Patti will pair you up with another more experienced ham, who knows what to do and who can show you the ropes. Patti can be contacted at <a href="mailto:kd7vbg@cableone.net">kd7vbg@cableone.net</a> .
Yavapai County ARES/RACES Organization	This organization prepares for emergencies in Yavapai County and responds to them when called out by the Office of Emergency Management (OEM). ARES/RACES is a great organization that is the backbone of amateur radio emergency services. You can't get much greater satisfaction out of our hobby than through this commitment. Participation in ARES/RACES is also a great way to get valuable operating and technical experience. Membership requires completing some basic online training and participating in a weekly ARES/RACES net. Our club member Bud, N7CW is the District Emergency Coordinator (DEC) of the Yavapai County ARES/RACES organization. Please contact Bud at <a href="mailto:bsemon@gmail.com">bsemon@gmail.com</a> if you are interested in joining this organization.

<b>Club Officers</b>			
<b>Officer</b>	<b>Name</b>	<b>Call Sign</b>	<b>Email Address</b>
President	Frank Bender	K8FB	<a href="mailto:president@w7yrc.org">president@w7yrc.org</a>
Vice President	Rex Mauldin	N7NGM	<a href="mailto:vice.president@w7yrc.org">vice.president@w7yrc.org</a>
Treasurer	David Hanson	W7BJ	<a href="mailto:treasurer@w7yrc.org">treasurer@w7yrc.org</a>
Secretary	Ronald Nelson	KCØTGG	<a href="mailto:secretary@w7yrc.org">secretary@w7yrc.org</a>
Director	Donald Bauer	WB7TPH	<a href="mailto:wb7tph@w7yrc.org">wb7tph@w7yrc.org</a>
Director	Douglas Meyer	KF7YZJ	<a href="mailto:kf7yzj@w7yrc.org">kf7yzj@w7yrc.org</a>
Director	Douglas Freeman	KV8TD	<a href="mailto:kv8td@w7yrc.org">kv8td@w7yrc.org</a>
Director	Randy Dashiell	W6TYV	<a href="mailto:w6tyv@w7yrc.org">w6tyv@w7yrc.org</a>
Editor Emeritus	Joseph Oliver	AC6AA	<a href="mailto:joliver@cableone.net">joliver@cableone.net</a>
Editor	Loren Singh	AE7CG	<a href="mailto:newsletter@w7yrc.org">newsletter@w7yrc.org</a>
Webmaster	Randy Dashiell	W6TYV	<a href="mailto:webmaster@w7yrc.org">webmaster@w7yrc.org</a>

