



Yavapai Signal

The Yavapai Amateur Radio Club – Prescott, Arizona – DM-34 – Volume 31 – No. 3 – March 2016

Upcoming Club Events				
Event:	Date:	Time:	Place:	Contact/Info:
General Meeting	03/03/16	1900 MST	PMHMS	Club Website
Fox Hunt	03/06/16	1300 MST	AZ CU Parking Lot, GG Wy & WC Rd	Pete K6VVR or John WB9VGJ
Club Station Operating Sessions, New Hams	03/x/16 Fridays	1800 MST	Jeep Posse Bldg.	See club website Calendar at www.w7yrc.org
Club Station, Operating Open House	03/x/16 Fridays	1800 MST	Jeep Posse Bldg.	See club website Calendar at www.w7yrc.org
Practice License Tests – Technician Class	03/08/16	1800 MST	Jeep Posse Bldg.	David W7BJ
License Tests	03/12/16	0900 MST	Jeep Posse Bldg.	Don WB7TPH



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

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)	144.220 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

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 MST

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

Club Mentors (“Elmers”)

Name	Call Sign	Telephone Number
Art Protas	KG6AY	928-227-2954
Jim Zimmerman	N6KZ	928-713-0542

Club Website Registration

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 www.w7yrc.org, 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 ...
by Frank Bender, K8FB

The Elmer Group – Unsung Volunteers

Our club has so many different volunteers that keep it humming along. One of the busiest, most effective, and low-key groups continues to be the Elmer Group. It is truly a YARC and ham radio treasure. Our VE group keeps cranking out new and upgraded licensees with a bi-monthly exam schedule. The Elmer Group, however, engages these new and beginning licensees and makes sure they get started on the right foot and stay involved and grow with the hobby.

It seems that at least every week, the core Elmer Group, consisting of Jim Zimmerman N6KZ and Art Protas KG6AY, is doing site surveys and installing antennas for a good number of these new hams. The group often encourages these new hams to upgrade to General Class and get an HF station on the air. The group even has some loaner equipment and power supplies to help the newbie get on the air without having a significant outlay of cash. I have seen Jim N6KZ even help some of these new hams select and purchase the best equipment for their situation at hamfests.

Additionally, Art and Jim, in addition to several other club members, are participants in the regular new and beginning ham sessions at the Jeep Posse building that helps the new hams grow in their knowledge of the hobby. The Elmer Group builds the confidence of new hams and encourages them to get involved with public service events and ARES/RACES. The club station wouldn't have been established and installed without the Elmer Group.

Other club members help out the Elmer Group when they can. Bud Semon N7CW recently stepped down as a core member of the Elmer Group, due to his responsibilities with ARES/RACES. However, he still helps out the group and the club when he can, often with his skill as a tower climber. Neil Vince K7SEN also helps out with his tower climbing skills when needed. Others, such as Mike Belanger W1DGL, David Hanson W7BJ, Jo Schultheiss KF7WOT, and Terry Schultheiss KG7BAM help out with the new ham sessions or installations when called upon.

If you are in need of help with an antenna or station installation or need help with a technical issue - no matter whether you are a beginner or an experienced ham - we urge you to get in touch with the Elmer Group at ask.elmer@w7yrc.org. This is a service that the club offers to hams at no charge. Have you thanked an Elmer today – or even given one a hug?



David W7BJ

TREASURER'S REPORT		General	Repeater
January 2016		Fund	Fund
CASH – December 31, 2015		\$9,257.70	\$2,364.69
	Dues	\$180.00	\$20.00
	Annual Party, Jan. 2016	\$814.00	
	Equipment Sale	\$75.00	
	Misc. < \$50	\$18.98	\$0.07
	TOTAL INCOME	\$1,087.98	\$20.07
	Annual Party, Jan. 2016	\$2,467.15	
	Mt. Union Rent / Utilities, 1 yr.		\$257.04
	NRA Day Certificates	\$73.24	
	Power Supply RS-35M	\$70.00	
	Misc. < \$50	\$63.75	
	TOTAL EXPENSES	\$2,674.14	\$257.04
CASH – January 31, 2016		\$7,671.54	\$2,127.72
** Detailed statements are posted on www.w7yrc.org			

Agenda for the January 28, 2016 Board of Director's Meeting

Present at Meeting: KE7SA, W7PVA, KJ6KMK, W6TYV, WB7TPH, W7BJ, N9JYO,

Meeting called to Order by K8FB at: 1805 MST.

Old Business:

Treasurer's Report and Meeting Minutes: December EOY Treasurer's report has been published in the February Signal (balance \$9,257.70, repeater \$2,364.69). December 29 Board minutes have been published in the February Signal. There were no January member meeting minutes as the meeting on January 7 was canceled due to snow.

YARC Party:

- 84 people attended. Mary AB7NK presented a brief history of YARC at the party. The number was later amended to 83 by Tom WN7E.
- Jerry Kimmet and his wife Marilyn, representing the Yavapai County Jeep Posse, attended the party and their dinners were paid for by the club.
- Club member Jim Shryne N6DHz — owner of The DX Store — donated a Heil HM-12 microphone and a Heil HB-1 desk boom as a major prize for the drawing.
- K8FB is suggesting to the board that, in appreciation of the donation, The DX Store be given one year's worth of free advertising in the Signal newsletter.
- ♣ This motion was approved by the Board.

Upcoming Programs:

- February – JT65 presentation by John Broughton, WB9VGJ
- March – ARES/RACES overview presentation by Bud Semon N7CW
- April – Printed Circuit Board Prototyping presentation by Doug Theriault NO1D
- May – Transmitter Hunt presentation by Pete Morrison N6VVR
- As part of the ARRL NPOTA project, Don WB7TPH has suggested that the club plan a trip to Tuzigoot National Monument near Cottonwood to operate an NPOTA station.
- ♣ Don will follow up and report back to the board.

Club Liability Insurance:

- Kathy KJ6KMK's draft notice was distributed via email to the board to be reviewed and approved by the board.
- ♣ Revised draft was approved and will be placed on the web site.

Local Hamfest:

- W7PVA, KE7SA, K8FB, WH6EAL, and KJ6QJS met with ERAU representatives on January 15 and received permission to hold the Prescott Hamfest at ERAU on June 10 and 11 at no cost for use of the campus facilities.
- A contract is being prepared by ERAU to be signed by K8FB, the YARC president. A certificate of insurance needs to be returned with the contract.
- The contract will be reviewed and approved by the board before being signed and returned to ERAU.
- The board needs to recommend approval of approximately \$1800 to be spent by the Hamfest Committee to pay for expenses and major prizes for the hamfest. This amount must then be approved by the club membership.
- ♣ It was suggested to raise the amount closer to just under \$3000. This amount to be adjusted as the real expenses are realized. This expenditure will be presented at the March YARC meeting.
- For this first year, the goal is for the hamfest to break even after expense are paid.
- Any proceeds after all expenses are paid, per the pending contract, are to be split between YARC and the Eagle ARC at ERAU.
- K8FB is requesting that the board to officially approve the split of proceeds between YARC and Eagle ARC.
- ♣ This proposal was approved by the board.

New Business:

- Purchase
 - o One 35 amp Astron 35M power supply with voltage and amp meters was purchased at the Thunderbird Hamfest for \$70. The power supply will be used to power ICOM, Yaesu or Kenwood transceivers so that they can be tried out and demonstrated at the club station for newbies and other hams. This power supply can also be utilized as a loaner supply by the Elmer Group.
 - Mary Vince AB7NK – stepped down as the chair of the awards committee. John Broughton WB9VGJ would prefer that someone else be chair person. John suggested some other life member be appointed chair person.
 - ♣ Don WB7TPH suggested that Frank K8FB call a meeting of the life members to recruit a chair. He also suggested expanding the membership of the committee.
- 2016 Draft Budget
 - o A 2016 budget has been drafted and is being submitted by W7BJ to the board for review.
 - ♣ Dave needs to adjust the expenditures for the hamfest and increase training supplies.
 - ♣ The draft budget will be posted on the website and presented to the membership in March.
- Club Station Purchase Request
 - o The Elmer Group recommends that the club purchase a Cushcraft D3W WARC rotatable dipole for 30, 17, and 12 meters that can be mounted on the tower. An extra feedline under the building already exists for this antenna. This purchase will almost double the number of HF bands that the club station can operate on.
 - o K8FB is requesting that the board recommend to the membership the purchase of this antenna for approximately \$370.
 - ♣ The Board approved this recommendation.
 - o The proposed purchase will go before the membership at the February meeting for approval.
- Member Meeting Format Adjustment Request
 - o KE7SA feels the business portion of the meeting is still too long and needs to be shortened. So many things are repeats of what is in the Signal newsletter and what is on the website.
 - o The board agreed to have the committees only report on upcoming events.
- Membership Survey – KE7SA has suggested that the membership be surveyed for suggestions. In 2015, this issue was brought up and discussed by the board, but voted down by the board primarily because generally there are a small number of responses from surveys. Board had suggested that a suggestion box be put at the sign in table, but has not been implemented. Mary AB7NK has indicated in the past that the December meeting was a forum for members to go around the room and give ideas for what the club wanted to do.
 - o A member survey was tabled by the board.
 - o The idea was presented to have a suggestion coffee can passed at each meeting for members to submit suggestions. This will start at the February meeting. Don WB7TPH will provide the suggestion “box”.
 - o A suggestion button will also be added to the website. This was accomplished during the meeting by Randy W6TYV and will be tested by the board.
- Special Interest Groups (SIGs) – SIGs haven't met in a couple of months and several SIGs no longer have moderators. Thoughts from the board regarding SIGs?
 - o Suggestion was made to hold the break out sessions during the break between the business meeting and the speaker. Will try this at February meeting.

Additional Business:

- o Don WB7TPH passed out updated YARC brochures and asked for suggestions as to updating the copy and the graphics. Board was asked to supply Don with suggestions. Once approved, the brochure will be provided in new member packets and handed out at the June hamfest.
- o Don will also research the cost to print 1000 copies and present the information at the next board meeting.
- o Randy W6TYV presented information that the Jeep Posse wants to share room on the tower for a 150 MHz antenna. The Elmer Group approves this request and will support its installation.
- o A suggestion was also made to add the patches and decals to the new member packets.

Adjournment: K8FB adjourned the meeting at 2000 MST.

Minutes of Yavapai Amateur Radio Club General Meeting — February 4, 2016

Call to Order at 1900 MST. Pledge of Allegiance led by K8FB.

Welcome visitors: Sandy KG7YVZ, Gene K7AJ, Karl Mauldin a WWII maritime CW radio operator (N7NGM's father).

Suggestion Box: Frank K8FB announced that a suggestion box (coffee can) would be available at all meetings to collect suggestions from the membership on possible program ideas, ideas for the hamfest seminars, as well as general ideas to improve the club meetings. A suggestion button is also available on the website under the Members menu. Suggestions collected at the meeting as well as suggestions from the website will be presented to the board and reviewed every month.

Introduction of New Officers and Board Members: Frank, K8FB introduced the new board members and new officers for 2016. This would have taken place in January, however due to bad weather the January meeting was canceled. The new 2016 YARC Officers and Board members are:

- John Stevens, N9JYO – Vice President - new
- David Hanson, W7BJ – Treasurer - incumbent
- Kathy Laing, KJ6KMK – Secretary - new
- Don Bauer, WB7TPH (not present) - Past President Board Member -
- Bill Noe, W7PVA – Board Member – new
- Chuck Zappala, KE7SA – Board Member – new
- Randy Dashiell, W6TYZ (not present) – Board Member - incumbent
- Frank Bender, K8FB – President - incumbent

December Treasurer Report: A motion was made by Pete K6VVR and seconded by John WB9VGJ to accept the Treasurer's Report. The motion passed.

Correction to the 12-29-2016 Board minutes was made by Bob K7POF and presented by Loren AE7CG – The work done on the "440 MHz ARCA Repeater Installation" – change reference from ARCA to YARC.

New Members: Mike Sturdy KG7YVR, Alan Krause KI7ALL, Bob Black KJ7WED, Joe Quint KI7ALM, Mark Brown KG7YWG, and Steve Engler KI7ALC — all applications for membership were approved unanimously by acclamation.

Business Meeting Format Change: Frank K8FB, announced that in order to shorten the business meeting, the board has voted to limit committee reports to events occurring in the upcoming month. This caused a lot of discussion and a motion was made by John WB9VGJ and seconded by Pete K6VVR to rescind the decision of the board and not change the reports. There was additional discussion and then the motion was called. The vote was 20 aye and 25 nay. The motion was defeated. Committee reports will be kept to current or important information needed by the membership for immediate response.

Another motion was made by David K6UWV and seconded by Art KG6AY to move the program to after the treasurer's report and any business requiring a vote of the membership. The vote was called and the motion passed by a majority of the members present. The Board is to define the new meeting format and present it to the members at the March general meeting.

Committee Reports:

— YARC Event Communications - Patti KD7VBG – Patti was not present, but it was noted that the Sedona Marathon public service event was being held on February 6.

— Membership Updates (Paypal) – Dave W7BJ indicated that members can now renew their membership online using Paypal, which is accessible from the Members menu on the club website. Fox Hunt, Pete K6VVR – Fox Hunt on February 7 at 1300 MST – meet at AZ State Credit Union parking lot on Gail Gardner Way.

- VE Exams, Don WB7TPH – Don was not present, but license exams are being held on March 12, 2016.
- Exam Practice Test – Dave W7BJ – being held on March 9, 2016.
- Signal Newsletter Printed Copies – K8FB asked any member who wanted a paper copy of the Signal newsletter to get in touch with him. There would probably be a charge, as the newsletter runs in the neighborhood of 16 pages.

New Business:

- Approval D3W Rotatable Dipole for \$370 – K8FB requested approval of the expenditure for the antenna for the station at the Jeep Posse building. Jack KB7HH made the motion to approve and Tony KI6AHH seconded the motion. The motion to approve passed unanimously.
- Prescott Hamfest at ERAU – W7PVA reported: The committee gave a report on the upcoming hamfest to be held June 10 & 11 at ERAU. A flyer on the hamfest has been prepared and a request for volunteers as well as seminar ideas was requested. Complete information is on the website. A very special thank you was given to the ERAU Eagle Club for their support in helping secure the campus for the event.
- Club Liability Insurance Explanation – KJ6KMK: A brief explanation of the insurance provided by the club through ARRL was presented. A copy of the complete explanation is on the website under Public Service and has also been provided to Patti KD7VVG as information for public service events.
- SIG Breakouts during the break: The SIGs will have the opportunity to have breakouts each meeting during the break prior to the program.
- 50/50 Raffle: \$65. was won by number 1013285, Ron KG7TGH.
- Program – John Broughton WB9VGJ – JT65 Digital Mode Presentation: John’s presentation slides are posted on the website under “Clubs” and then “Presentations, Forms, Docs, & History”.

Adjourn: 2040 MST.

Correction to Minutes for the December 29, 2015 Board of Director’s Meeting	
<p>Had read: 440 MHz ARCA Repeater Installation</p> <p>Corrected to read: 440 MHz YARC Repeater Installation</p>	

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



Upcoming License Testing						
Date	City	Location	Time	Sponsor	Contact	Walk-in
02/23/16	Prescott Valley	Trinity Lutheran Church, 3950 N. Valorie Dr.	1830 MST	Prescott Valley Ham Club	Jim Scherfling 928-632-2050	Yes
03/07/16	Sun City	St. Clement Church	2000 MST	West Valley Amateur Radio Club	Joe Cutitta 623-215-2226	Yes
03/12/16	Prescott	Jeep Posse Building	0900 MST	Yavapai Amateur Radio Club	Don Bauer 928-775-4690	Yes

License Testing by Don Bauer, WB7TPH
<p>Our next test session is Saturday, March 12, 2016. We have committed to testing on a bi-monthly basis for 2016, due to the number of applications we have been receiving and the number of new hams we are seeing.</p> <p>The January session had 14 candidates. Eight took the Tech test, and five of those also took the General test. Six had recently tested for Tech and were back to take the General. This all made for an interesting morning with 19 tests taken in all. I am happy to report that we welcomed four new Tech licensees into the fold and (drum roll please) ten new General class licensees. One of the candidates had previously had a Tech ticket, but allowed it to lapse. He took and passed the Tech and General tests and is now a very happy General. Congratulations to all!</p> <p>We are also providing information on additional opportunities to test at nearby locations. Hopefully this information is useful. Prior to each test session, we try to make sure it is promoted on radio and in the newspaper, as a means of community outreach.</p> <p>You may note there are periodic tests held at Trinity Lutheran Church in Prescott Valley. These are being conducted by Jim Scherfling and other members of our VE team. They are being scheduled for those who cannot make a Saturday morning session.</p>

Upcoming Public Service Event Communications				
Date	Day(s)	Event	Place	Comments
04/16/16	Sat.	Whiskey Trail	Prescott Loop Trails	New event
04/29-05/01/16	F, Sat., Sun.	Whiskey Off-road Mountain Bike Event	Prescott	Expecting close to 2000 riders
05/07/16	Sat.	Chino Grinder	Chino Valley	Bob Thompson KC8BOB to coordinate
05/14/16	Sat.	Whiskey Row Marathon	Prescott	Long standing YARC event
05/21/16	Sat.	Mountain Mayhem	Prescott	Tentative date

Signing Up for Events
<p>Sign-up sheets will be at the YARC general meetings, and be available 2 to 3 months before the events. Contact Patti KD7VBG at the meetings to sign up. Also you can go to the YARC website at www.w7yrc.org , 1) click the link to go to ARES/RACES, 2) click on Calendar and 3) fill out the application for the event you want to sign up for.</p>



New Members

The following new YARC members were voted in at the February meeting. Please introduce yourself to them and make them feel welcome:

- Mike Sturdy KG7YVR
- Alan Krause KI7ALL
- Bob Black KJ7WED
 - Joe Quint KI7ALM
- Mark Brown KG7YWC
- Steve Engler KI7ALK

Upcoming March 3, 2016 Program: March Program: ARES/RACES Presentation

Club member Bud Semon N7CW, the Yavapai County ARES District Emergency Coordinator and RACES Radio Officer, will provide members with an overview of ARES/RACES. Learn about this public service program and have the opportunity to ask Bud questions. If you are not an ARES/RACES member and would like to use your amateur radio skills to help our community during emergencies, please consider joining. Emergency preparedness is a big part of the mission of our ARRL Special Services club. See the ARES/RACES website at www.k7yca.org.

Previous February 4, 2016 Program: JT65-HF An "Odd" but Fun Digital Mode

Thanks to John Broughton WB9VGJ for his presentation on the popular JT65 weak signal digital mode. His presentation can be found on the club's web site. Select "Club" on the menu, then select "Presentations, Docs, Forms, and History". You can then download John's presentation.

Club Liability Insurance

There were questions raised about what insurance our club carried during a public service event late last year. As a result the Board looked into the coverage that the ARRL affiliated club liability insurance provides. An explanation of the liability insurance coverage was drafted and approved by the Board.

Essentially, the policy protects the club, its members, officers, and other participants (such as non club members participating in public service events) involved in club activities from third party law suits. The policy will also pay medical expenses for a third party involved in an incident. The ARRL sponsored club liability insurance does not cover members or participants from incidents during club activities. Members are expected to carry their own medical and liability insurance to adequately protect themselves.

The explanation of the club liability insurance coverage can be found on the club's web page under "Public Service Events". As noted in the explanation, the ARRL also provides an explanation of the affiliated club liability insurance coverage on their website.

If you have any questions about the club liability insurance policy, contact a club officer or board member.

Suggestion "Box"

The YARC Board has implemented a suggestion box capability. The new feature can be used to communicate to the board any suggestions that you might have to improve the operation of the club. There are two ways to make a suggestion. First, go to the "Members" page on the club web site, select "Suggestion Box", and submit your suggestion online. Second, during the meeting a suggestion "box" will be passed around for you to submit any suggestions that you might have. You have the option to leave your name if you wish. The Board will review and address the suggestions in the monthly Board meeting. Suggestions and actions taken will be published in the Signal newsletter.

Equipment Donations

The club is looking for donations of equipment to sell at the Prescott Hamfest at ERAU in June and also at the Williams Hamfest in July. Proceeds will go to the club treasury. Please bring your donations to the club meetings or contact Frank Bender K8FB at president@w7yrc.org. The club will also be selling equipment on consignment at these hamfests. Again, if interested contact Frank K8FB.

Draft Budget for Calendar Year 2016

FOR CONSIDERATION AT THE MARCH MEETING: A draft budget for calendar year 2016 has been prepared by our Treasurer, David Hanson W7BJ, and approved by the Board. A PDF file containing the proposed and not yet approved budget was distributed to the general membership by email on January 31, 2016. The draft budget will be officially submitted at the March 3, 2016 YARC general meeting for consideration and possible approval. This is our first attempt at producing an annual budget. Please review the document sent by email and let us know of any questions before the March meeting. We plan to address any questions in a single document or possibly several response documents prior to the March meeting. Please send any questions to treasurer@w7yrc.org and president@w7yrc.org.

The Society of Amateur Radio Astronomy (SARA) Western Regional Conference Embry-Riddle Aeronautical University, Prescott, Arizona 11 March – 13 March, 2016

The Society of Amateur Radio Astronomers (SARA) has announced that a regional conference will be held at Embry-Riddle Aeronautical University in Prescott, Arizona March 11 to 13, 2016. SARA member Ray Fobes is a Staff Radio Astronomer at the University and is coordinating the event. He can be reached by email at westernconference@radio-astronomy.org.

Papers on radio astronomy hardware, software, education, research strategies, philosophy, observing efforts and methods will be presented. Registration for the 2016 Western Conference is \$60.00. This includes breakfast and lunch Saturday and Sunday. Payment can be made by going to www.paypal.com and direct payment to treasurer@radio-astronomy.org. Please include in the comments payment is for the Western Conference.

You can also mail a check payable to SARA Treasurer at 904 Towering Oak Court, Purcellville, VA 20132. Please include an email address so a confirmation can be sent upon receipt of your check.

www.radio-astronomy.org — Submitted by: Tom Azlin, W7SUA



Prescott Hamfest at Embry-Riddle Aeronautical University (ERAU)

The Prescott Hamfest at ERAU will be held on Friday afternoon, June 10, 2016 and all day Saturday, June 11, 2016 on the campus of the Embry-Riddle Aeronautical University. Planned activities include tailgating, YARC consignment sales, commercial vendors, test bench to check out potential purchases, transmitter-hunt, antenna shoot-out, DXCC card checking, VE sessions, seminars, ARES/RACES MARC vehicle display and booth, tour of the Eagle Amateur Radio Club at ERAU, ARRL Booth, and prize drawings.

The hamfest is being co-sponsored by the Eagle Amateur Radio Club at ERAU and YARC. The Eagle ARC effort is being led by Forrest Murdoch WH6EAL and Clayton Jacobs KJ6QJS. The hamfest is also an ARRL sanctioned and an Amateur Radio Council of Arizona (ARCA) sponsored event. ARCA is distributing our hamfest flyer to clubs and hamfests and also provides us with the use of hamfest related equipment such as tables and a golf cart.

The YARC hamfest committee is co-chaired by Chuck Zappala KE7SA and Bill Noe W7PVA. The rest of the YARC hamfest committee includes Ron Nelson KC0TGG, Art Jackson KA5DWI, Don Bauer, WB7TPH, and Frank Bender K8FB. Anyone wishing to assist with the hamfest please contact Bill W7PVA (w7pva@arrl.net) or Chuck KE7SA (czappala@cableone.net).

Hamfest flyers are now available and are being distributed. For further information and a copy of the flyer, as well as continue to check for updates, go to www.w7yrc.org/prescott-hamfest. This will be a great event for our club and the local and Arizona ham community.

YARC 440 MHz Repeater Update

The club's repeater committee, consisting of Pete Morrison K6VVR, John Laing K7PRS, and Doug Theriault NO1D recently met to address improving the 440 MHz repeater. When the weather improves in the spring, the committee is planning to raise the repeater antenna height, add a 100 watt amplifier, and possibly improve the antenna performance. John K7PRS has generously offered to donate a 100 watt amplifier for use on the repeater.

New Net Manager for YARC Wednesday Night 2M FM Net

Mike W1DGL has resigned as manager of the club's Wednesday night 2M FM net. It meets at 1900 MST on the 147.260 MHz (+103.5 Hz PL) ARES/RACES repeater. Loren AE7CG is now serving as net manager and net control operator.

National Parks On The Air (NPOTA)

by Don Bauer, WB7TPH

DBauer2250@aol.com

How would you like to participate in NPOTA as an activator? How would you like to be on the receiving end of pile-ups without having to go to Timbuktu ? I would like to propose a day trip to Tuzigoot National Monument. It is nearby and we have approval from the ranger in charge. Currently my plan is for April 20 or 21, 2016 and for as many hours as we have members to cover. The operating hours of the monument are 0900 to 1700 MST.

We would operate from the lower parking lot of the monument. If there are interested members who have a travel trailer or motor-home from which we could operate, I would like to hear from them. Of course, a multiple-band vertical antenna and a radio suitable for field operation are necessary as well. Spring is a fairly busy season for Tuzigoot, so we would need to make a relatively small physical presence. If we were to take up one or two parking spaces and be as self-contained as possible, our operation would be most welcome. Members wanting to participate can come and go at varying times during the day so long as two (operator and logger) are on station at any time.

If this is successful, we could perhaps do other NPOTA locations later. Montezuma Castle and Montezuma Well are under the same ranger jurisdiction, for example. If you think that this would be a fun outing, a chance to operate from the field, or to participate in NPOTA, contact me via email or in person at the March 3, 2016 general meeting. I will try to make sure we have the necessary people and equipment to proceed. I am looking forward to putting W7YRC on the air from Tuzigoot.

Amateur Television Anyone?

A couple of years ago we invited members of the amateur television group from Phoenix to speak about ATV. Their presentation was interesting, but lacked any demonstration of amateur television in action. Since that time, I and a few others have been muddling the status of ATV in our minds and think it is time to see what interest and or knowledge there is within YARC concerning television.

Most amateur TV work up to recently has been analog, and that mode is still viable and supported. The cost and availability of digital TV has slowly come into play as well. So, there is much to consider. Is there interest enough to pursue a few local ATV stations to prove the viability? Is there interest in a repeater that could potentially be linked to the Phoenix repeater(s)? Or, could we consider a repeater that could augment YARC's participation in public service events or Emcomm?

Is it time that we establish a special interest group within the club to discuss potential ATV interests? I would be interested in gathering input from members to consider forming a SIG. Before putting the subject of ATV before the entire club as a program topic or suggested direction for future activity, I think it would be prudent to gather together a small group (SIG) to discuss direction, mode, abilities etc. I know there are members who have the ability to go forward with either analog or digital TV, individual stations or repeaters, stand-alone or linking etc. The real question is do we have a collective desire to pursue the subject. Drop me an email with your thoughts. Let's see what might happen. Don Bauer WB7TPH at DBauer2250@aol.com .



25th Anniversary Party

The 2016 YARC Party was held on January 23, 2016 at the Stoneridge Grill. Eighty-three (83) people attended. Mary Vince AB7NK gave a very interesting overview of the 25 year history of YARC. Thanks to Mary for taking the time to prepare and present this overview.

— Thanks also go to Tom Griswold WN7E and Gail Griswold K7YTI for hosting the event again this year. We were also happy that Jerry Kimmet, from the Jeep Posse, and his wife Marilyn were able to join us.

— Thanks to Jim Shryne N6DHZ of The DX Store for donating the Heil microphone and boom as drawing prizes. These were very generous gifts. Your patronage of his business is encouraged.

— Thanks to Erika Schiltneck KI7JZ who donated a wrapped prize.

— Thanks to Dave Hanson W7BJ for donating a 2016 ARRL Repeater Directory.

— Thanks to Mike Belanger W1DGL and Ron Nelson KCØTGG for taking photographs of the party.

Grand Prize Winners:

- \$300 Gift Card – Linda Zimmerman, XYL of Jim N6KZ
- \$150 Gift Card – Pete Morrison K6VVR
- Heil Microphone and Desk Boom – Jo Morrison, XYL of Pete K6VVR
- \$50 Gift – Brian Ferguson KK6PGR



Patti KD7VBG

Ron KCØTGG

Joe AC6AA



Linda, XYL of Jim N6KZ

Photos of the 25th Anniversary Party
(Courtesy of Ron KCØTGG and Mike W1DGL)



Left to Right, Row 1: Tom WN7E; Frank K8FB; Patrick KG7EWD and Pete K6VVR;
Row 2: Bud N7CW; Bob K7POF; and Forrest WH6EAL;
Row 3: Bob WB6ODR.



Bud N7CW Climbing the W7YRC Antenna Tower

Club Station Update

A Cushcraft D3W rotatable dipole for the WARC bands has been purchased to be installed on the club station tower. However, one of the 18 Meter traps is not working correctly. Cushcraft is in the process of sending us a new set of replacement 18 Meter traps. Many thanks to Bud Semon N7CW and Art Protas KG6AY for installing the antenna and troubleshooting the antenna issues. The accompanying photo, taken by Rob Redford KG7LMI, shows Bud N7CW working on the D3W on the tower. This antenna will provide the club station with the additional capability to operate on the 30, 17, and 12 Meter bands. Hopefully the antenna will be installed and working by the time that you read this.

Once the D3W antenna is installed, the club station will have the capability to operate on 40, 30, 20, 17, 15, 12, and 10 Meters. The Elmer Group has been talking about possibly installing an 80 Meter antenna at the station to provide complete HF capability (except for 60 Meters). Digital modes are now available using a Signalink USB sound card interface. These include the most popular digital modes RTTY, PSK31, PSK63, JT65, and JT9. Our FLDIGI software will even copy CW, the first and most popular digital mode. The station also has HF and VHF/UHF to email capabilities using RMS Express Winlink and Winmor software.

On February 12, Mike Belanger W1DGL presented an overview of HF Operating for the Beginning Ham at the new/beginning ham session. The presentation is posted on the club website. Many thanks to Mike for doing this presentation.

Check the Calendar on the club's website for future dates for new/beginning sessions as well as operating open houses. The operating open houses provide an opportunity for you to get a demonstration and tour as well as operate the club station. These events are open to anyone who has an interest in ham radio. An announcement of these events is also made the week before the event on the club web site home page.

If you would like to operate the club station, contact someone on the club station access list that can be found under the "Members" menu on the web site.

Elmer Group Update

The Elmer group (Jim Zimmerman N6KZ and Art Protas KG6AY) have been busy helping out our members and some non-members and even one prospective ham. These activities include initial site visits, antenna installations, antenna troubleshooting, antenna removal, and help with new radios.

Some of the latest recipients include:
Charlie and Dianne Sullivan KG7YVP and KG7YVQ
Sandy Jack KG7YVP
Clyde Stanton WA7GQN
Dough Askerman KG7PAQ
Jack Szelka AI1K.



Installing VHF/UHF Antennas at the QTH of AI1KL — Photos Courtesy of Art KG6AY



February 2016 Foxhunt
by John Broughton, WB9VGJ

The monthly foxhunt was held Sunday, February 7, 2016. The foxes were Forrest WH6EAL, and Braden KG7GLX.

We had four teams of hunters, which was good for Super Bowl Sunday: 1) Bob WB6ODR and Linda KD7EEO; 2) Jeff WB7RFY and John WB9VGJ; 3) Dave W7BJ and Ron, KCØTGG; and 4) Pete K6VVR and Diane KE7ODP.

The results were:

Place	Team	Time
1	WB6ODR and KD7EEO	0 hr. 29 min.
2	W7BJ and KCØTGG	0 hr. 49 min.
3	K6VVR and KE7ODP	1 hr. 15 min.
4	WB7RFY and WB9VGJ	1 hr. 23 min.

Congratulations to Bob and Linda on winning the hunt in excellent time. The foxes found good places to hide the transmitters on a trail crossing Granite Basin Road. The secondary transmitter was very difficult to spot, even when one knew he/she was close to it. 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/YARCFoxhuntFeb2016>

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

Liberia Update

Here is an update about the activities of the BWI ham club - station EL2DT via Bud Semon N7CW. YARC donated \$250 to the club last year to purchase coax cable for the club station. Looks like there will be a good number of additional Liberian hams on the air soon.

73 - Frank K8FB

From: Bud Semon <bsemon@gmail.com>
Sent: Sunday, January 24, 2016 2:21 PM
To: Frank Bender; Dickson Tarnue
Subject: Update on Donations to BWI Amateur Radio Club

I just received an email from Dickson, EL2DT. All the donations for the BWI ham club arrived safely in Monrovia and were officially turned over to the school in a presentation ceremony by the Liberian Radio Amateur Association. This included the various pieces of test equipment, power supplies, radios (including a brand new FT450 in the box from Bob, N6OX), antennas and many miscellaneous items useful in a ham shack. Antennas and most of the test equipment and accessories were donated by the Central Arizona DX Association. In addition, license manuals, ARRL Handbooks, Antenna books and Basic Electronics books, which were purchased through a donation from the YASME foundation, were given to the school. Previously, the Yavapai Amateur Radio Club donated cash to purchase the long runs of coax to go between the club station and the proposed antenna location.

The BWI Electrical and Electronics Dept. Alumni Association was responsible for shipping all this material and making sure it safely arrived at the school.

There are 24 people who have passed their first license exam (in a class taught by Dickson) and are waiting for their official licenses and call signs.

I have attached 2 photos of the presentation.

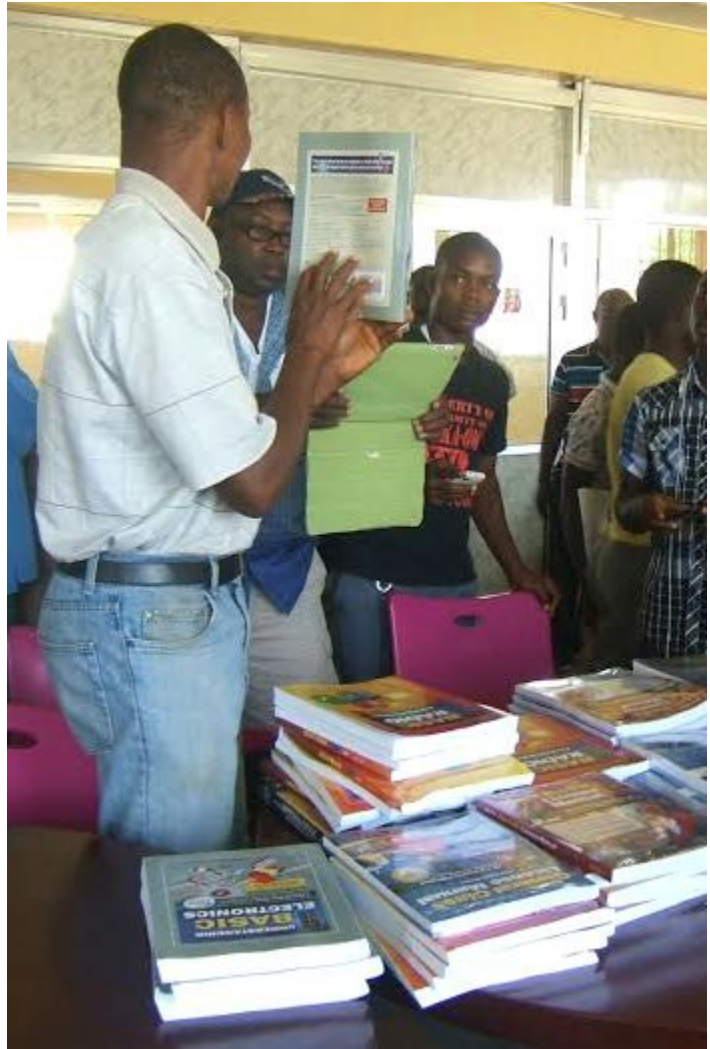
I will keep everyone informed as the school station is assembled. I am really looking forward to hearing some new EL calls on the air!

Thank you all for your support.

73, Bud N7CW



Photos from Liberia — Courtesy of Bud N7CW:





Lisa KK6AFC

“Marte” Wessel Scholarship: Lisa Ferguson, KK6AFC

I am writing to thank you for the generous \$ 1,000.00 Martha "Marte" Wessel, KØEPE, Young Ladies' Radio League (YLRL) Memorial Scholarship presented at the Embry-Riddle Aeronautical University's Prescott Campus. I was very happy and appreciative to learn that I had been selected as a recipient of this scholarship.

I am an Electrical Engineering major and recently completed a minor in computer science. I plan to pursue a career as an electrical engineer working on the research, design, and development of small scale electronics and communications upon graduation from Embry-Riddle. I am currently starting my senior year and am planning to graduate in the Spring of 2016. After graduation, I will start work as an electrical engineer, hopefully designing printed circuit boards or developing cutting edge technology. Thanks to this generous scholarship, I am one step closer to that goal.

By awarding me the Martha "Marte" Wessel, KØEPE, Young Ladies' Radio League (YLRL) Memorial Scholarship, you have lightened my financial burden which allows me to focus even more on my studies. The money which you have invested in my education has inspired me to work even harder, so that someday I will be able to show such generosity to the next generation of engineers. — Sincerely, Lisa Ferguson, KK6AFC

Biography:

Lisa is the student chair for the IEEE student branch at Embry-Riddle Aeronautical University where she is a Senior Electrical Engineering major. She is quite active with Arizona's Yavapai Amateur Radio Club and she serves as treasurer for the Eagle Amateur Radio Club at her university.

Lisa is also involved with Embry-Riddle's first ever Cube-Sat project and is the communications sub-system lead, responsible for designing, fabricating, and tuning the satellite's on-board radio and antennas.

During an internship with NASA's Jet Propulsion Laboratory several years ago, Lisa gained first-hand experience with research and the design of small scale electronics for projects such as the Curiosity Rover which landed on Mars during 2012!

Most recently, Lisa worked as an intern for California's largest utility company, Pacific Gas & Electric, developing software to monitor the health of the electrical substations and IT networks. Lisa is the recipient of both the Tulare County and the Martha "Marte" Wessel, KØEPE, Young Ladies' Radio League (YLRL) Memorial Scholarship.

Question for Techies

I have an FT-60R. I have a:

Comet antenna
model SMA-24
Dual-band 2M/70cm HT Antenna
Super flexible and lightweight, made from the same material as unbreakable eyeglass frames
Gain & Wave length:
2M: 2.15dBi 1/4 wave
70cm: 3.5dBi 5/8 wave
Max Power: 20 watts
Length: 15.75"
Connector: SMA-male

I also have a:

Comet antenna
model CSB-790A
CSB = Comet Super Beam
Comet's BEST DualBand Mobile Antennas
2M/70cm high gain mobile antenna
Gain & Wavelength:
2M: 7/8 wave 5.1dBi
440MHz: Three 5/8 waves in phase, 7.7dBi
SWR: 1.5:1 or less
Max Power: 150W
Length: 62"
Connector: Gold-plated PL-259, locking fold-over hinge included

connected to the radio via a:

ABR Industries LLC coax cable
model 23316-SM-SO-6
Coax Jumper with SMA Male plug on one end and SO239 (UHF Female) connector on other end, using RG316/U Teflon® Cable sealed with weatherproof heat shrink tubing.

My question:

When the comet SMA-24 (15.75" whip) antenna is connected to the radio the S meter deflects as it should when a signal is received. When I connect the 23316-SM-SO-6 and CSB-790A, the S meter never deflects, even when a strong signal is received. Why does the S meter not deflect when the 23316-SM-SO-6 and CSB-790A are connected?

Thanks—Greg Quintana—KK6AVK

Question Answered

I disconnected the cable and measured it. It turns out it is OK when measured with a multimeter. I reconnected the cable and the S meter is working! What do ya know? The reason I said the signal was strong with the second antenna was that the audio volume was the same as it was with the first antenna, maybe a little louder. Anyways, it's fixed.

Thank You —Greg Quintana—KK6AVK

Could be the connector wasn't tightened all the way and the connection was marginal, until you reconnected it.
Ben—KG6BNL

YARC Volunteer Opportunities

Contact Frank Bender, K8FB (president@w7yrc.org) if interested in helping out in any of these or other areas. Contact other leaders where indicated.

Opportunity	Description
License Class Instructors and Chairperson	We are still looking for volunteers interested in helping out with instructing club members who are studying for their license tests.
Assistant Webmaster	We are looking for a volunteer who has strong Word Press and associated skills who can assist the webmaster with the website work load, especially with more complicated Word Press coding concepts.
Hamfest Volunteers	The Prescott Hamfest at ERAU is scheduled for June 10 and June 11, 2016. We are looking for volunteers to help out with the hamfest. Some of the roles needed to be filled are 1) gate tenders; 2) call in operators; 3) parking directors; 4) manning the YARC club booth; 5) manning the YARC consignment tailgate booth; 6) hamfest set up and tear down; and 7) hamfest guides. Contact hamfest co-chairs Bill W7PVA (w7pva@arrl.net) or Chuck KE7SA (czappala@cableone.net).
Special Interest Group (SIG) Moderators	The Raspberry Pi/ Arduino and Software Designed Radio (SDR) SIGs are in need of moderators.
Buddy Mentors	We are looking for several more experienced club members to be a resource that new hams can contact with questions. You would also be a friendly face in the crowd. Here's an easy way to give back to our club and help keep the interest of newly licensed hams.

The DX Store

No BS. Just good old fashioned customer service.

Heil PRO7 Simply The Best

Black

Red



Pink

Blue

Available in Four Colors

sales@dxstore.com
www.dxstore.com

Club Officers, 2016

Officer	Name	Call Sign	Email Address
President	Frank Bender	K8FB	president@w7yrc.org
Vice President	John Stevens	N9JYO	vice.president@w7yrc.org
Treasurer	David Hanson	W7BJ	treasurer@w7yrc.org
Secretary	Kathy Laing	KJ6KMK	secretary@w7yrc.org
Director	Donald Bauer	WB7TPH	wb7tph@w7yrc.org
Director	Randy Dashiell	W6TYV	webmaster@w7yrc.org
Director	Bill Noe	W7PVA	w7pva@w7yrc.org
Director	Chuck Zappala	KE7SA	ke7sa@w7yrc.org
Editor Emeritus	Joseph Oliver	AC6AA	joliver@cableone.net
Editor	Loren Singh	AE7CG	newsletter@w7yrc.org
Webmaster	Randy Dashiell	W6TYV	webmaster@w7yrc.org

Yavapai Amateur Radio Club — W7YRC Club Station Access List — Effective August 20, 2015

Name:	Call:	Lic. Class	Notes:	Telephone:
F. Bender	K8FB	E	YARC President	379-5575
P. Morrison	K6VVR	E	W7YRC Trustee	899-8555
B. Semon	N7CW	E	Elmer Group	771-8267
J. Zimmerman	N6KZ	E	Elmer Group	713-0542
A. Protas	KG6AY	E	Elmer Group	227-2954
D. Freeman	KV8TD	E	N7GMH Trustee	759-0958
D. Bauer	WB7TPH	E	VE Chair	775-4690
R. Dashiell	W6TYV	G	Dual Member	602-501-2571
J. Grimm	KD7RMV	T	Dual Member	759-0747
R. Mauldin	N7NGM	E	Rotating Member	216-2637
D. Hanson	W7BJ	E	Rotating Member	602-615-3444
M. Belanger	W1DGL	G	Rotating Member	420-0498



