



YAVAPAI SIGNAL



The Yavapai Amateur Radio Club • Prescott, Arizona • DM-34 • Volume 22 – No.11 • November 2007



HAPPY THANKSGIVING!

Prescott Road Rally - October 5th and 6th, 2007

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Flawless Driving by Brian Scott and John Dillon Earns Them The Win.

This popular annual event received major support by YARC and VVARA members providing radio communication.

A special thanks to Bob Thompson and all the others that participated in the Road Rally. See Page 8 for more on this event.

Welcome to the Yavapai Amateur Radio Club

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

Membership in the YARC is open to any interested amateur or non-amateur alike. Dues are \$20.00/year (Full-time students \$15). The YARC meets at 7:00 p.m. local time on the first Thursday of every month in the Technology Room 404, at the Granite Mountain Middle School, 1800 Williamson Valley Road in Prescott. It is about ½ mile north of Iron Springs road, and all amateurs and non-amateurs as well are invited. Programs of interest are included as part of the meeting.

The weekly Net is held every Wednesday at 7:00 p.m. local time on 146.880- repeater. All amateurs are invited to participate, and visitors are always welcome.

The Yavapai County ARES/RACES Net is held on Monday nights approximately at 7:00 p.m. local time on the 145.290- repeater on Mingus Mountain. A PL of 127.3 is required.

Club Repeater

The YARC 146.880- repeater is located on the hill above Willow Creek road and requires a PL of 100.0 Hz. If you hear a 1400 Hz pulsing tone, the repeater is on backup battery power and usage should be limited to necessary communications. Our deepest gratitude to Bill Kafka, W2YAV for allowing us to acquire this repeater. ■

YARC Officers for 2007

President

Terry Pemberton, KB7TRE
kb7tre@cableone.net

Vice President

Dick Hughes, W6CCD
w6ccd@arrl.net

Secretary

Pat Oliver, K7DUC
joliver@commspeed.net

Treasurer

Patti Halgunseth, KD7VBG
kd7vbg@cableone.net

YARC Board of Directors (includes Club Officers)

John Broughton, WB9VGJ
Ken Severance, WA6AQK
Richard Bozeat, KE7DTR
Walter Schumann, KF6SPS

Newsletter Editor

Joe Oliver, AC6AA
joliver@commspeed.net

Membership Count:



1st Thurs. in Sept.....121

Gain/Loss.....+2

1st Thurs. in Oct.....123

Need a Ride?



Are you without wheels and need a ride to a YARC club meeting?

Check into the Wednesday night net on 146.880 at 7:00 p.m., prior to the first Thursday of the month.

There is a good chance that someone will offer you a ride.

Minutes of October 4, 2007 Board Meeting



KE7DTR; Walter, KF6SPS; and Ken, WA6AQK.

Repeater and IRLP Issues: The problem has been resolved with the 447.350 Repeater. The owner has a coordinated repeater and the other repeater has moved. The problem was due to misplaced paperwork. A computer glitch was responsible, and now has been corrected.

Thank You Ken: Terri thanked Ken, WA6AQK for all the work he has done as a Board member.

Donation to Club from Don Cook: Don, KA7WWV donated a radio to the club.

ARRL Membership: One of the requirements for ARRL affiliation is at least 51% of our membership must be ARRL members. Mary, AB7NK has suggested that in the packet handed out in the VE session, we include the following: a congratulatory letter to those new technicians having taken a YARC sponsored class, along with a 3 month complimentary membership in YARC. If the technician then decides to join the ARRL, the membership will be extended another 9 months. If they have marked on their membership application, or if they check the ARRL membership as positive on the Sign-in sheet, we will know.

Nominations: John Gross, W5VJH has submitted nominees for the following offices: Jack Ragen, W3IVQ for

Vice-President and Jeff Hanna, WB7RFY for Secretary. For Board members: Tom Griswold, N6LSA, Walter Schumann, KF6SPS, and Richard Bozeat, KE7DTR.

Field Day for This Coming Year: A discussion was held about possibly doing our own Field Day at Watson lake. If there is interest by the membership, the possibility will be discussed further.

Family Membership: All family members living together will be assigned the same membership expiration date.

The Board adjourned at 1850 MST.

Respectfully submitted,

Pat, K7DUC

Secretary

Minutes of October 4, 2007 General Meeting

Terry, KB7TRE called the meeting to order at 1900 MST. The Pledge of Allegiance was recited and members introduced themselves.

Visitors Vi Hughes and Ernest DeLeon, KD7IOG.

New Members: A motion to vote in the following new members was made by Terry, KB7TRE and seconded by John, WB9VGJ: Michael Helsing, KB7OCR and George Imburgia, KB3OIB.

The motion was approved.

Meeting Minutes: There were no additions or corrections to the General Meeting Minutes of September 6, 2007. The General Meeting minutes were approved.

Treasurer's Report: Patti, KD7VBG gave the Treasurer's Report. The previous balance was \$1494.29, with the ending balance being \$1299.70. The Repeater fund is currently a negative \$396.08. The Treasurer's report was approved.

Committee Reports:

- **ARES/RACES/Public Service:** Lloyd, WA6ZZJ stated that we were in the middle of our busy season. Members were thanked for coming out for the Groom Creek Classic. Upcoming events are the Diabetes Walk and Rails to Trails Race. Nov. 3, is the final training meeting for the year.
Lee, KC7CBK read a thank you note from the Prescott Cycling Club. The Club raised over \$8000 and asked us back next year.
- **IRLP:** Jack, W7JLC indicated that the IRLP is still on simplex. It will remain on simplex at his home, until the final confirmation on the Repeater is completed.
- **Patches/Shirts/Badges:** Patti, KD7VBG has club patches for \$3.00; Dick, W6CCD has club shirts for \$19 for all sizes, except for XXL which are \$21. Name and call sign add \$2 to each, and Bob, WB6ODR has badges for \$6.75.
- **Club Repeater:** Bob, WB6ODR indicated that Neil, KA7JAS has been working diligently on the new repeater and Bob will help when he gets a chance.
- **VE Testing:** Mary, AB7NK stated that testing on Oct. 13, Nov. 10, and Dec. 15, will be held at 9:00 a.m. at Embury Riddle, Room KEC:132.
- **License Classes:** Jack, W7JLC reported that on Sept. 29, he had a well attended class. The General class has been postponed until February and the Extra Class will be held on Dec. 1 and Dec. 8. Jack thanked the volunteer members who are assisting in the classes.
- **Adopt a School:** Terry, KB7TRE stated that at the last meeting, both Mary, AB7NK and Neil, KA7JAS attended and helped out.

Old Business:

- **Nominating Committee:** John, W5VJH reported that the following members have consented to run for the available offices: Vice-President - Jack, W3IVQ; Secretary - Jeff, WB7RFY; Board Members - Walter, KF6SPS; Richard, KE7DTR and Tom, N6LSA. Terry thanked John for all his work and candidates for accepting.
- **Yavapai County Fair Committee:** Doug, KV8TD indicated that all went well and thanked Bob, KC8BOB for filling in when he couldn't be there, and the workers for working in the booth. Doug is negotiating to put the booth in a more visible place next year.
- **NRA Special Event:** John, WB9VGJ stated that the NRA special event will be on Nov. 17. at Gunsite, and invites the membership to attend.
- **Road Rally:** Bob, KC8BOB indicated that 45 volunteers have signed for this event.
- **Groom Creek Community Classic:** Lee, KC7CBK reported that it went quite well.
- **Prescott Valley Arts Festival:** John, WB9VGJ reported that it was less attended than last year.

New Business:

- **Jamboree on the Air:** Jim, N5RO indicated this will be held on Oct. 19,20, & 21. This will be the 50th anniversary for the Scouts. ARRL has the recommended frequencies.
- **ARRL Membership:** Members were asked to check ARRL membership on our Sign-in sheet, so we may keep an accurate count. Mary, AB7NK has suggested that individuals taking a club sponsored class and pass their test, be given a 3 month membership in YARC. If they join

the ARRL, the free YARC membership would be extended to a year. John, WB9VGJ made a motion to accept the proposal. Dick, W6CCD seconded it. The motion was approved.

- **Field Day 2008:** It was suggested that we have our field day at Watson Lake instead of Mingus Mountain. Discussion was held. A vote was held and we will table the discussion until next month and have an exploration committee look into the best location. A motion to that effect was made by Jack, W7JLC and seconded by John, WB9VGJ. The motion carried. Lloyd will check into the logistics.
- **After Christmas Party:** Dick, W6CCD will advise the members who will be in charge. Terry will purchase presents. A committee is needed.
- **YARC Website:** Bob, WB6ODR asked for approval of \$75 for the club's website, as needed. A motion to this effect was made by John, WB9VGJ and seconded by Ken, WA6AQK. The motion passed.

Tonight's Program will be given by Jim Grimm, KD7RMV on the "Jeep Posse: Search and Rescue".

A motion to adjourn the business meeting was made by John, WB9VGJ and seconded by Ellis, KE7NAP. The motion carried. The business meeting was adjourned at 19509 MST.

The 50/50 drawing was won by Terry, KB7TRE, who won \$42.00.

Respectfully Submitted,

Pat, K7DUC
Secretary

Treasurer's Financial Reporting Sheet



Club / Group Name: YARC
Reporting Date: October 2007

By Patti Halgunseth, KD7VBG
Treasurer

Members Name	Dues Paid	Repeater Fund	Donations	Prize Money Paid Out	Net Cash In per Member
Michael Helsing/N=KB7OCR	\$18.00	\$27.00			\$45.00
George Imburgia/N=KB3IOB	\$18.00	\$22.00			\$40.00
Erika Schiltneck/R=KI7JZ	\$18.00	\$2.00			\$20.00
Jack Crabtree/R=W7JLC	\$18.00	\$2.00			\$20.00
Bob Smith/R=WB6ODR	\$18.00	\$22.00			\$40.00
Linda Smith/R=KD7EEO	\$0.00				\$0.00
William Jackson/R=W6HDP	\$18.00	\$2.00			\$20.00
Walter Schumann/R=KF6SPS	\$18.00	\$2.00			\$20.00
John Broughton/R=WB9VGJ	\$18.00	\$2.00			\$20.00
Neil Vince/R=KA7JAS	\$18.00	\$2.00			\$20.00
Mary Vince/R=AB7NK	\$0.00				\$0.00
Richard C. Strick/ARRL	\$2.00				\$2.00
Roy Jackson/ARRL	\$36.00				\$36.00
Michael Helsing/ARRL	\$36.00				\$36.00
50/50	\$84.00				\$84.00
Terry - KB7TRE				\$42.00	(\$42.00)
Michael Helsing/T-Shirt	\$19.00				\$19.00
Michael Helsing/Patch	\$3.00				\$3.00
Total:	\$342.00	\$83.00	\$0.00	\$42.00	\$383.00

Miscellaneous Club Expenses	Cash Out	Check Number
David Passell=Refreshments	\$43.72	970
ARRL=Michael Helsing-New	\$21.00	971
ARRL=Ray Jackson-Renew	\$34.00	972
Insty Print=Newsletter	\$27.38	973
Repeater Fund	\$83.00	Cash
Total:	\$209.10	

Club Funds Summary	Totals
Starting Balance	\$1,299.70
Net Expenses	\$209.10
Net Income	\$383.00
Repeater Fund	(\$313.08)
Cash Flow	\$173.90



NEWSLETTER ARTICLES

All articles from members and interested persons are very welcome. If you wish to submit an article, joke or cartoon, please have it typed or neatly handwritten. It can be submitted by mail, computer disk or E-mail to the newsletter editor. A submission must be in the hands of the editor **no later than the 21st of the month** or it may not be included.



Standing Waves and SWR Meter

Reprinted with permission from David Bower,
K4PZT

Since the dawn of amateur radio communication, hams have sought to "capture" the RF power from their transmitter and "efficiently" transfer it to the radiating device, commonly known as an antenna (or the load). In its ideal form, the transmitter would connect directly to the amateur's antenna and not rely on a transmission line. This is certainly the case with the popular HTs that adorn many a ham's belt. But for more complex stations, including mobile operation, a piece of transmission line allows one to physically locate their antenna for better propagation of RF energy. The purpose of the transmission line, in an ideal situation, would vanish from the equation and the full output from the transmitter would be delivered to the antenna terminals. In practical situations, this is not the case.

First, all transmission lines have an inherent loss, measured in decibels, that will reduce the level of RF arriving at the antenna. The other area concerns a characteristic known as SWR. In this "ideal" situation, the output impedance of the transmitter would be exactly the same value as the transmission line, and the antenna would have "exactly" the same impedance as the transmission line. In this situation, the total RF power generated by the transmitter (minus the loss in the transmission line) would be delivered to the antenna. Ideal situations don't exist, however. Because there is a reactive component associated with the transmission system (i.e. the transmitter, transmission line and antenna taken together), not all of the RF power will be delivered to the antenna. If the equivalent "load" was purely resistive, with no reactive component, then there would be no standing waves present (in this case, the SWR ratio would be an optimum 1:1).

Enter one of the most famous tools available to the ham -- the SWR meter (also known as a bridge). This simple piece of equipment has been around a long time. Older companies such as Heathkit and Knight Kit had units available years ago. Many hams constructed the simple circuit with an available meter to keep a handle on those "mean" standing waves. In its basic form, the SWR meter remains unchanged. Variations, today, include the "cross needle" bridge with two needles sharing the same housing. Others have LEDs as indicators, or even a numerical LCD display. And still others have the capability for measuring both "peak" and "average" SWR (the former being important for SSB equipment). There are a few miss-understandings about SWR. One I've heard concerns the myth that an SWR "better" than 1:1 is



An Early SWR Meter

great. Since we're talking about a ratio, an SWR of 1:1 is the best !!! In simple terms, a 1:1 SWR would represent the ideal situation since the transmitter would be transmitting the maximum RF to the antenna (again, minus the loss in the transmission line). The real culprit, reactive components, kill the performance in the system. These reactive components can exist in both the transmission line and in the antenna. In an ideal situation, the output impedance of the transmitter should be exactly equal to the characteristic impedance of the transmission line. In this case, the remaining consideration would be the antenna. Matching the impedance of the antenna to the line does the trick. Under typical situations, an ideal SWR of 1:1 does not "really" exist. The real concern is getting a useable SWR figure across the ham band being used. As an example, an HF station on 20 meters might have a SWR figure of 1.2 to 1 somewhere in the center portion of the band, and a figure of 1.8 to 1 on the high end, with a 1.5 to 1 on the low end (these are just examples). These are certainly acceptable figures. In the case of a broad band, such as 2 meters, achieving an acceptable SWR across the entire 4 MHz band is a difficult thing to achieve.

Silently, SWR meters continue to occupy a dominant position in the ham shack as an assurance of the proper radiation of an RF signal in the communication process. As food for thought, in the "receive mode" the receiver input circuit actually becomes the load, rather than the antenna. Conversely, as mentioned in the article, the antenna is the load in the "transmit mode." SWR is a consideration in both !! ■

Say Again

Here is a list of some common 2-word redundancies. How many have you used lately?

Added bonus; closed fist; future potential; true fact; revert back; prior history; sum total; end result; temper tantrum; free gift; bare naked; unique individual; total abstinence; join together; advance warning; future plans; lag behind; close proximity; foreign imports; convicted felon; past experience; and etc.; attach together; circulate around; descend down; duplicate copy; exact replica. ■



By Lloyd, WA6ZZJ

ARES/RACES

TRAINING MEETING.....

The next ARES/RACES quarterly training meeting is scheduled for Saturday, November 3, 2007. It will begin in the Yavapai County Public Works Ready Room located at 1100 Commerce Drive in Prescott. The meeting will be from 9:00 a.m. until approximately noon. We will continue on our series of Winlink and using Airmail for Winlink training sessions.

For this session the staff is looking to divide attendees into groups and disperse to at least four locations (where there are packet installations) within the city to set up the Airmail software and use Winlink to send messages between these locations.

Also.... This will be like an actual deployment so you will need to bring your own water, coffee, donuts and other necessities.....

TOPOFF 4 EXERCISE.....

Top Officials 4 (TOPOFF 4) was the Nation's premier terrorism preparedness exercise, involving top officials at every level of government, as well as representatives from the international community and private sector. Taking place October 15-19, 2007, the exercise featured thousands of federal, state, territorial, and local officials. These officials engaged in various activities as part of a robust, full-scale simulated response to a multi-faceted threat.

The exercise addressed policy and strategic issues that mobilize prevention and response systems, require participants to make difficult decisions, carry out essential functions, and challenge their ability to maintain a common operating picture during an incident of national significance.

Wednesday morning brought the start of Yavapai County ARES/RACES involvement with the Arizona por-

tion of the TOPOFF 4 Exercise. The event started at approximately 08:59 with the first message to the State Emergency Operating Center (SEOC) being a simulation of all telephone, both landline and cell, service being out in Yavapai County. Right away that put a bump in our telephone alerting plan. A resource net was then conducted on the 145.290 and 147.260 repeaters.

The TOPOFF 4 scenario was the terrorist detonation of a 'dirty bomb' at the intersection of the 101 and 202 Freeways in the Tempe area. The part played by Yavapai County on Wednesday was dealing with the influx of thousands of evacuees (possibly around 40,000) from the Phoenix area. 17 messages were sent between the Yavapai County EOC (YEOC) and the SEOC. Our portion of the exercise was terminated at approximately 15:00 when telephone service was restored to our area. The messages for the most part were sent on the Arizona Department of Emergency Management 800 MHz radio system installed at the EOC's, but we also had all other modes in place should the 800 MHz system have failed. WinLink was also tested and all messages were sent by that system as well for backup and to test the operation of WinLink for connection between the county and state and it worked very well.

Overall, it was a good exercise and one that is well within the realm of possibility. Thanks you to all who actively participated and to those standing by if needed.

ARES/RACES DECALS.....

I still have the new decals for those ARES/RACES members who have not yet picked theirs up. I will have them at the November meeting. The cost is \$1.65 per decal. It is recommended that they be placed in the lower left corner of your vehicles windshield so as to be visible when coming upon a check point or road block to identify you as an ARES/RACES member. Always remember to have your County Emergency Management issued ID with you also.

PUBLIC SERVICE.....

The next upcoming public service event on Saturday, November 17th will be the 2nd Annual Prescott YMCA Rails to Trails 11 mile run, 10K Run/Walk, 5K Judged Race Walk and 2 mile Fun Run/Walk. The race course will be much the same as last year. More information can be found at the following website: <http://www.prescottymca.org/> Click on Rails to Trails Race. More operators are still needed. A sign up sheet will be at the November YARC meeting. This is another fun event to work.

With the many new members that we now have in our club it would be nice to see several new people taking part in these events.

PRESCOTT ROAD RALLY....

This year the Prescott Road Rally took place on Friday and Saturday, October 5th and 6th. There were 40+ Amateur Radio operators involved in this two day communications event. This is the largest and most complex of the events that we work each year with the Whiskey Row Marathon coming in second. The Rally organizers will be the first ones to tell you that they couldn't run the rally without our communications support. Thanks to all of the operators from both YARC and the VVARA that took part to make it a success.

AMERICA'S WALK FOR DIABETES.....

Saturday morning, October 20th, found eight amateurs providing communications for the Prescott area America's Walk for Diabetes taking place on the Yavapai Indian Reservation. The weather started off a little on the chilly side, but warmed up to a good temperature for walking by the time the main event took place. Tactical traffic was handled between four water stations and net control to facilitate the completion of the walk. This is a good event to work. The Diabetes folk take good care of us by serving food and drink before and during the walk. Amateurs taking part were: WB9VGJ, KC7CBK, WB7RFY, W6CCD, KI7JZ, KF6SPS, K7CJW and WA6ZZJ.

Lloyd WA6ZZJ

NEED A HAND?



If you need assistance, we want to help you. If you are just starting out in ham radio, or simply have run across something that you could use a hand with... technical assistance or answers to questions about the Yavapai Amateur Radio Club, are available from knowledgeable club members.

Don't Hesitate to Ask for Help!!

Call **Neil Vince**, KA7JAS at:

(928) 775-2158 or

ka7jas@arrl.net

VE Tidbits



by **Mary Vince – AB7NK**

99% of the applicants testing on Oct 13th who had taken the 1 day course put on by Jack W7JLC, Dick KE7DTX & John WB9VGJ are now waiting for their call signs in the FCC database. Results were: 14 technicians, 1 general & 1 extra. One applicant walked in with no license & walked out as a general. A very exciting day for everyone.

Thanks to Jack W7JLC for arranging the rooms for us. It was a terrific setup having 2 rooms. Those testing had a quiet room & afterwards everyone had a place to compare notes & tell stories. (mostly tall tales)

The next test sessions will be held at Embry Riddle University, Bldg 72, Rm 132 on:

Nov 10th 9:00 **sharp**

Dec 15th 9:00 **sharp**

If you plan on attending, an email would be appreciated.

Thanks to the club for sponsoring our test sessions & a BIG thanks to the those who donated a few hours to make 16 applicants extremely happy.

Mary – AB7NK

For more information contact Mary, AB7NK
ab7nk@arrl.net

Upcoming Events of Interest

- ➡ **November 1, 2007 - YARC Election of Vice-President, Secretary, and 3 Board Members.**
- ➡ **November 3, 2007 - ARES/Training Meeting**
- ➡ **November 17, 2007 - Prescott YMCA Rails to Trails Run/Walk**
- ➡ **November 17, 2007 - NRA Special Event at Gunsite.**



The 20th Annual Prescott Road Rally, October 5 & 6, 2007



By Bob Thompson, KC8BOB

A total of twenty competitors entered this year's Prescott Road Rally and conditions for the event were perfect. Early Friday afternoon, the first of more than two hundred volunteers began setting up at their stations. Approximately one fourth of the volunteers were amateur radio operators representing both the YARC and VVARA, as well as some from out of the area from as far as San Jose, California. The rally this year, was run over U.S. Forest Service roads in an area bounded roughly by Jerome, Drake, and Chino Valley. According to Michael Taylor, the organizer of the event, on some stretches of the roads, some competitors were able to top 120 mph!! Not bad for dirt roads. Net control was established at Depot 89 in Paulden with the ARES/Races communications vehicle and contact was made with the stage radio captains using the VVARA repeater on 147.22 MHz. Each stage had its own simplex frequency for local stage traffic. A backup, emergency only frequency was maintained throughout using the ARES/RACES repeater on 145.290 MHz, but fortunately was not needed.

On Friday, the rally vehicles gathered at Lamb Subaru for inspections, a drivers' meeting, and a short demonstration run in a dirt area out back of the dealership. I'm quite sure the neighbors knew something special was happening. As vehicles finished their stage at Lamb, they all headed for Jerome and on to First View, a few miles north. A total of four more stages were run into the darkness Friday night with only one mishap. One rally vehicle slid off the road after finishing, and down an embankment. The car was retrieved, and continued in the competition.

Saturday was another beautiful, but windy, day. Volunteers took up their positions about noon, and the first stage began east of Chino Valley on the Perkinsville Road a short time later. A total of six stages were run with the last vehicles finishing after 6 PM. My son, Jim was visiting for the weekend, and got to ride all six stages in the lead sweep vehicle. He had a great time. I drove my old Montero, Monty with my two daughters, Alyssa, KE7DTT and Kristi, KE7DVA, and roamed about the Perkinsville road and the start/finishes near Perkinsville. It was nice to have everything under control so that I didn't have anything to do.

My XYL, Starla, KE7DTS, and son Jim represented the ham volunteers at the awards breakfast on Sunday morning while I was on my way to Colorado for a work assignment. The hams were praised for their efforts and the excellent radio coordination throughout the rally, and received many thanks from the participants and organizers. I would

like to personally thank all the hams who gave of their time and effort and especially the stage radio captains who contacted all those assigned to their stages to disseminate maps and information and ensure everyone was in position during the rally. Largely through their efforts, we were able to cover all radio positions and many additional road blocks not previously supported by hams. A special thanks goes to Bob, WB7RRQ, for getting me started and for his excellent records from previous rallies. ■



Bob and Kristi Thompson, KC8BOB and KE7DVA



Net Control Operators: WB9VGJ, KC7CBK, WA6ZZJ

This Month's Featured Ham

By Pat Oliver, K7DUC



Rich Strick, W7RCS

Rich got his first license in March 1970. At that time, he enjoyed repairing old cars. He would be out in a detached garage working on one of the cars and his XYL, Carole would need to communicate with him. They got a couple of walkie talkie CB radios to be able to talk to each other more easily. Rich would listen to other folks communicating on the radio, and the urge to become a ham was born.

He next got his license and enjoyed communicating with other hams on 6 meters.

He currently enjoys working 6 meters, 17 meters, and on occasion, working 75 meters. He communicates regularly with a couple of local hams on 440 FM simplex, as well as a local group on 6 meters..

His most memorable contact was probably his first, as it was for many of us. This was on 6 meter AM, as Rich does not work CW.

He has hundreds of QSL cards -- some from recent DXpeditions.

Rich doesn't currently participate in any contests, but used to on 6 meters.

He has built all kinds of Heathkit equipment and other kits. His first radio was built from Knight kits. His present equipment includes an FT-2000D, Tokyo HL-1.5KFX amplifier, an IC-706 MKIIG, and an SG-239.

Rich was born and raised in Chicago. He and Carole have had four daughters, one currently living in Prescott Valley.

His career path included enlisting in the Naval Reserve as a submariner, while still in high school. After high school and some missed meetings, Rich was drafted and served 2 years in the Army. He then went to work for Illinois Bell Telephone for 3 years, working in construction, cable splicing, framing, and switching. The company sent him to electronics school. After that, he got a job in Quality Control at ITT Kellogg.

He then went to work for Xerox for 10 years and then other like companies. He ended up working for AM International as a National Service Manager.

He and Carole have been permanently in Prescott for 2 years. They snowbirded for 2 years before that.

Rich and his wife currently work by investing in real estate. They buy apartment buildings. Rich does the mechanical work and Carole does the paper and computer work.

His only other radio-related activity is with YARC. He is a very valuable member of our club with great potential. ■

Program Speaker for November

November's Program will be on the: "**Military Affiliate Radio System (MARS)**", and will be presented by Jack Crabtree, W7JLC.



For Sale

**Cushcraft 13B2
Antenna**

13 Element 2 Meter Beam

\$125.00

Contact Rich, W7RCS (928) 771-1614

NRA Special Event Operation

By John Broughton, WB9VGJ

YARC will be sponsoring a special event November 17th to celebrate the 136th birthday of the National Rifle Association. We will be operating from Gunsite Academy using one of the radio shacks of Buz Mills, K7GST, Gunsite's owner. We will be using the call sign K7NRA. Mike Campbell of Clarkdale is generously letting us use his call sign as he has done in the past. The operating hours will be from 8:00 a.m. to 5:00 p.m. All YARC members are welcome to participate. While some of you will be helping to provide communications for the 'Rails to Trails' race, I hope you will be able to stop up for some operating and socializing afterwards. You will find Buz's radio shack to be interesting: <http://tinyurl.com/2gnhmu>.

The listing for the special event will be in the Nov. issue of QST and is on the ARRL's Web site at <http://www.arrl.org/contests/spev.html>.

If you would like to come and participate, please bring a folding chair and whatever snack, lunch and drinks (non-alcoholic) that you would like. There is a refrigerator available in the shack and a bathroom. Here are the directions to the operating location. Buz's address is 3300 West Ravengard Road.

Take Rt. 89 north to Rolling Hills Rd. (at about the 335 1/4 mile mark). Turn left on Rolling Hills Rd. Turn right at the top of the rise (you'll see a small Gunsite sign with the raven on it) and follow the road to Gunsite. After entering under the Gunsite gate, stay on the road to the left (go past the Gunsite Facility) through the gate that will be opened. Stay on this road to 3300 (well marked). Turn right at the 3300 marker following the lane to the gate. Press the call button at this gate and it will open. The barn is under the big tower on the left. Just follow the drive and bear left up to the barn.

Be aware that the speed limit on Rolling Hills Rd. is only 25 mph. It is too easy to drive faster than that, as it is a rural paved road.

If you need to contact us for directions on your way in, we'll be on the VVARA repeater, as we'll be making contacts for the special event there. If the repeater is busy, you can call on 147.42 simplex.

I encourage any and all YARC members to participate in this event if possible. Please contact me if you have any questions.

73, John, WB9VGJ

775-2259 wb9vgj@arrl.net

Signs To Make You Smile

- Sign reads: "Toilet out of order. Please use floor below."
- "Automatic washing machines: Please remove all your clothes when the light goes out"
- "After tea break, staff should empty the teapot and stand upside down on the draining board"
- "We exchange anything - why not bring your wife along and get a wonderful bargain"
- Notice in health food shop: "Closed due to illness"
- "The farmer allows walkers to cross the field for free, but the bull charges"
- "We can repair anything (please knock hard on the door as the bell doesn't work)"
- "For anyone who has children and doesn't know it, there is a day care on the 1st floor"

More Humor

Submitted by Bob, K7CJW



This transcript is of an ACTUAL radio conversation of a U.S. Naval ship with Canadian authorities off the coast of Newfoundland in October 1995. Radio conversation released by the Chief of Naval Operations, October 10, 1995.

Americans: Please divert your course 15 degrees to the north to avoid a collision.

Canadians: Recommend you divert YOUR course 15 degrees to the south to avoid a collision.

Americans: This is the Captain of a U.S. Navy ship. I say again, divert your course.

Canadians: NO. I say again, you divert your course.

Americans: This is the aircraft carrier U.S.S. Missouri. We are a large warship of the U.S. Navy. Divert your course -- NOW!

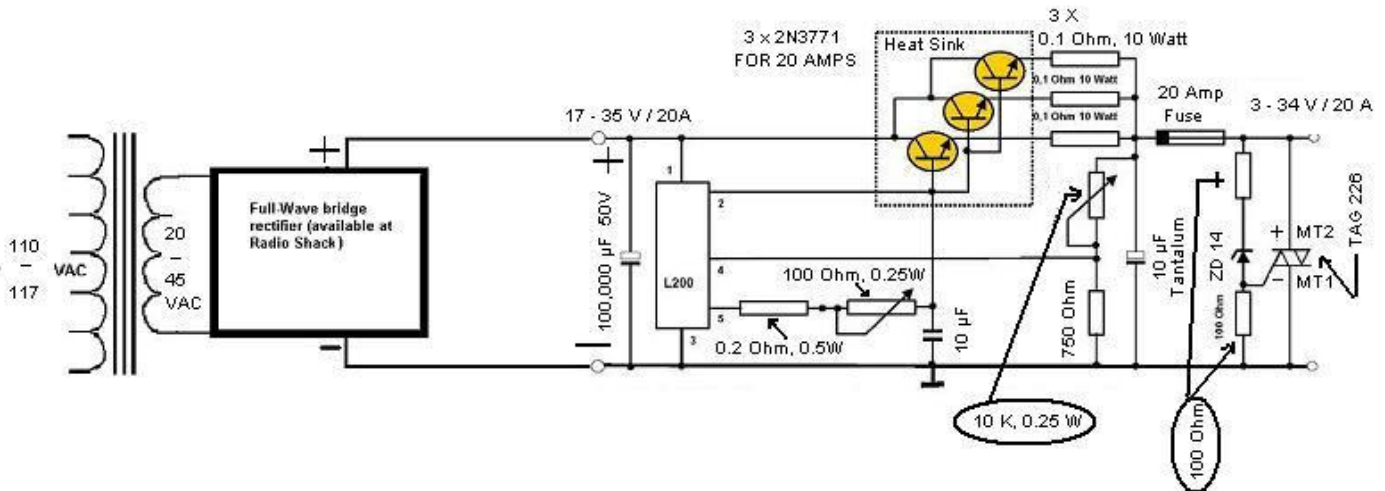
Canadians: This is a lighthouse. Your Call.

13.8 Volt 20 Amp. D.C. Power Supply

By Jim Clark, N5RO

After picking up a 100 Watt rig at a hamfest, or getting a good deal off the Internet, do you find that you might have to pay more for a power supply than you paid for the transceiver? And you don't want to run the radio off a 12-volt battery inside your house.

Why not build your own power supply? Many good circuits are available in the Radio Amateur's Handbook but that costs close to 60 bucks for the hardcover edition and almost \$45 for the softcover one. Other circuits are available on the Internet. Here's a circuit that's a bit unique in that you can adjust the voltage to fit the application. This version is shown with a 14V crowbar circuit to prevent overvoltage damage.



Pin 3 of the L-200 should be connected as close as possible to the (minus) terminal!!! This power supply is designed for the use with 100 Watt transceivers. A small fan (Muffin, Datech, Radio Shack) should be added to cool the 2N3771's. Provide at least 2500uF output capacitance in parallel per Amp you wish to pull out of it. You can get more current out of the circuit by adding more final transistors to it. Except for the emitter resistors all of the other ones are half-Watt types. The L200 is able to regulate the voltage as well as the current. The TAG 226 thyristor and the zener diode are included to protect the attached equipment against overvoltage. The power-supply is adjusted to run at 13.8V and the zener-diode is a 14V type, so as soon as the voltage reaches 14V the thyristor will be switched and produces a short, blowing the 20A fuse. However you might wish to set the voltage and lock the controls in place with a drop of Goop or Shoe-Goo (both same stuff – removable later with needlenose pliers). Hardwiring this one in a “hobby box” case might be preferable to a circuit board – mount the heat sink on the rear of the case and potentiometers on the front. [Copy & Paste the schematic to your graphics program (such as the Windows Picture and Fax Viewer) and enlarge it to see the detail better.] “Smoke Test” with only a VOM attached – attach the radio only after ensuring that it works and make sure your ammeter can handle up to 50 amps in case things go awry. No guarantees as I've not yet built this, though I plan to. ■

Remember Our Veterans
On November 11th



Weekly Breakfasts



Tues. Morning Breakfast –

7:00 a.m. at

Back Burner Cafe

8400 E. Long Mesa Drive

& N. Robert Road

Informal – all are invited.

Wed. Morning Breakfasts:

7:00 a.m. at

Iron Horse Restaurant

(Hwy 89 in Chino Valley)

(N 34°43'56.5" W112°27'15.4")*

informal – all are invited

8:00 a.m.

Masonic Lodge

(1280 Willow Creek Road,

2nd Floor; above Bank of America)

informal – all are invited

* Location data (per WGS84) provided

by Fred Zimmermann, N7PJN

Area Repeaters

Frequency	PL	Location	Owner/Club	Auto-Patch	Rem. BaseOr Linked	Vo IP	Notes:
52.560-	100.0	Mt. Union	N7NGM			Echo	-500KHz Offset
53.040-	None	Prescott Airport	WB7BYV				-1MHz Offset
145.290-	127.3	Mingus Mtn.	ARES/RACES				
146.780-	91.5	Williams Mtn.	BWARC			IRLP	
146.880-	100.0	Prescott	YARC				
146.980-	162.2	Flagstaff	CARC				
147.000+	162.2	Mingus Mtn	MMRG				
147.040+	100.0	Prescott Heights	W2YAV				
147.140+	162.2	Flagstaff/-Mt. Elden	ARA		Linked to Mt. Ord 147.360-		
147.220+	162.2	Mingus Mtn	VVARA				
147.260+	103.5	Mt. Union	ARES/RACES				
442.150+	100.0	Mingus Mtn	W1OQ/Northlink				
442.350+	100.0	Glassford Hill	N7KPU			IRLP	
445.300-	100.0	Prescott	WINSYSTEM		Node 3727	IRLP	
448.475-	100.0	Flagstaff-Elden	ARA	Yes			
448.500-	100.0	Prescott	K6JSI				
448.875-	100.0	Flagstaff-Elden	Northlink		Linked		
449.175-	100.0	Towers Mountain	Northlink		Linked		
449.675-	88.50	Prescott Airport	WB7BYV		Linked to P Mtn. 927.3875		
927.3875-	151.4	Prescott	WB7BYV	Yes	Yes	Echo	Be Nice

Y.A.R.C. IRLP NODE

Node Number 3182

147.56 MHz Simplex -
No PL Tone

For more Repeater Information & Listings refer to:

- www.w7ara.org/Web/
- www.azrepeaters.net
- www.azfreqcoord.org/listings.htm

YAVAPAI AMATEUR RADIO CLUB

P.O. BOX 11994

PRESCOTT, AZ 86304

Visit us on the web at <http://www.w7yrc.org>

Many thanks to Bob Smith, WB6ODR, our Webmaster

