



YAVAPAI SIGNAL



The Yavapai Amateur Radio Club • Prescott, Arizona • DM-34 • Volume 23 – No.11 • November 2008



The 21st Annual Prescott Rally - October 3-4, 2008



By Bob Thompson, KC8BOB

Again this year, the Prescott Rally was a “roaring” success. The rally was staged on Yavapai county mountain roads between Jerome, Perkinsville, Drake, and Chino Valley. Over 50 hams from Arizona and California volunteered to provide communications for the rally organizers. Some hams rode in sweep vehicles, others manned road blocks, others provided start and finish communications, and still others manned net control. The weather cooperated with enough wind on Friday to clear the dust quickly and rain showers that moved in Saturday afternoon put an end to dust altogether.



The rally participants first gathered at the Subaru dealer in Prescott Friday afternoon, and then departed for First View near Jerome. The first vehicle started about 6PM and headed for the first stage finish near the Perkinsville bridge. The remaining stages either started or finished near the bridge and were run in the dark.

The Saturday stages began before 9AM on the Perkinsville road just east of Chino Valley, heading first toward the Perkinsville bridge, and continuing up to First View. The fastest cars averaged better than 70 mph over the twenty-two miles hitting speeds above 110 mph.

Friday night, it was discovered that there was no radio operator for the Fast Sweep “0” Car. Starla, KE7DTS, volunteered to ride in the “0” Car and had the time of her life. When I asked her how fast she went, she said she never looked (or perhaps didn’t want to look?). She did relate to me that Keith Roper, the driver did say something like, “There! 102”. Starla did enjoy herself, and may even volunteer to ride along next year.

Thirty competitors showed up from the East Coast, West Coast, Arizona, and other states. At the awards celebration Saturday afternoon, there was unanimous agreement that the Prescott Rally is the best run rally with the best communications of any on the circuit. There were many accolades and kudos for the volunteers. ■



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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. Our deepest gratitude to Bill Kafka, W2YAV for allowing us to acquire the original club repeater.

Minutes of October 2, 2008 Board Meeting



The meeting was called to order at 1829 hrs by the President, KB7TRE. Also in attendance: WB9VGJ, KF6SPS, KE7DTR, KD7VBG, WB7RFY & K6VVR.

With the departure of W3IVQ, the Board appoints K6VVR, Pete Morrison to the vacant office of Vice-President for the term ending 2009, and he was briefed on initial duties.

Upcoming programs were reviewed; committee will begin work on 2009 schedule.

To date results of nominating committee were reviewed, the three current at large board members will all stand for re-election, and there are candidates for President & Treasurer. Committee will continue efforts and nominations will be sought from the floor at November election meeting.

Stickers are in and being distributed; new banner was in use at the County Fair booth.

Calendar was addressed as to Holiday on regular January meeting date. The YARC January 2009 meeting will be held on the second Thursday, January 8th.

Requests for acknowledgements via Certificates should be forwarded to WB9VGJ by November meeting.

Info is now confirmed for the after holiday party on Saturday January 17 at the St. Michaels. Contract requires 70 plates to avoid substantial room rental charge.

On motion of, and second, meeting was adjourned at 1850 hrs.

Respectfully Submitted;

YARC Secretary
WB7RFY

Minutes of October 2, 2008 General Meeting

Meeting was called to order at 1900 hrs by the President, KB7TRE. Following the Pledge of Allegiance introductions were made.

Attendance: 61 of whom 54 signed in.

Visitors: included Dana Evans, K7OBB; Jerry Roberts, KB7CN; and Don Hader.

New Officer: Pete Morrison, K6VVR, has been appointed to fulfill the term of Vice-President vacated by W3IVQ due to a move out of state.

New Members: On motions of WB6ODR and WB9VGJ, seconds by AB7NK and KE7NAP, through the course of the meeting: Craig Pullman, KE7DTU; Carol Hills, KA7LKW; Charles Laughlin; George Hargreaves, WL7BSW; Bob Nichols, KE7JEV; Ellen Nichols, KE7JEX; and Joyce Linnerud, KE7UUV; with no dissenting votes, were elected to the membership.

Meeting Minutes: of the 4 September, 2008 meeting were accepted as published.

Treasurers Report: Beginning balance of \$1850.85. ending balance of \$1515.48 and Repeater fund of \$133.92 was approved as read. Repeater fund donations were acknowledged and thanked.

Special Thanks were offered by students of the recent Technician Class to acknowledge knowledgeable coordinator and instructors: W7JLC, N7CW, KC7CBK, & N5RO.

COMMITTEE REPORTS

Ares/Races: WA6ZZJ reported on activities, and that the Rails to Trails event on Nov 15 had been cancelled by the YMCA. Skull Valley loop challenge went well. There will be 2 training exercises in October. The old 'MARC' has been updated and is near ready to deploy to Verde Valley. Saturday November 1st is the Quarterly ARES/RACES training meeting. WB9VGJ is coordinating Diabetes walk on October 18; sign up sheet available tonight or contact wb9vgj@arrl.net.

IRLP: W7JLC reports well used for fair demos; all is well.

Newsletter: AC6AA appreciates and encourages member submissions. Reminds all to please sign-in on meeting roster.

PIO: WB7RRQ reports working fine.

Patches: KD7VVBG reports both sizes available, \$3.00 ea.

Shirts: W6CCD has club shirts available, \$19.00. Has not been able to locate suitable long sleeve as requested.

Badges: WB6ODR reports available to special order; see him at break.

Repeater: WB6ODR reports minor tune-up in order when time allows. With the new repeater and controller settled in, may be time to start looking towards updating feed line and antenna.

VE Testing: AB7NK reminds all of the October testing session.

Classes: W7JLC had 20 students for recent one day Technician class; about half were ERAU students; may have had some from Fair activities.

Schools: No report from Bradshaw

Mountain, expect a showing at VE test. KB7TRE says 4 boys and 3 girls now active in Granite Mountain group and also expects some showing at VE session.

Elmer: KA7JAS has nothing to report.

Refreshments: K6UWV reviewed selection of treats and drinks to be enjoyed; thanks to N7PJM for coffee duties tonight.

Young Hams Net: KI6AHH says all is going good; hope to have more recruits.

Program Committee: KE7DTR reviewed upcoming programs and ideas.

OLD BUSINESS

After Holiday Party: WB7RRQ has just finalized dinner plans for the club Sat. January 17, 2009 at St. Michaels. Served dinner; advance reservations required. Forms will be e-mailed, available at meetings, and printed in our Yavapai Signal.

County Fair: KV8TD thanked all who manned booth and KA7JAS for providing equipment. Better booth location generated traffic; will need a co-chair in 2009.

NRA Birthday: WB9VGJ encourages all to plan ahead to attend Special Operation at Gunsite academy in Paulden, Monday, November 17, 8-4. Bring you own drinks and bag lunch; club will provide some foods too.

Nominating Committee: K6UWV & KB7TRE offers W7TQJ & AB7NK in nomination for office, and KF6SPS, KE7DTR, & N7LSA for at large Board members. Call for additional nominations at this time went unanswered. Nominating committee will continue its efforts, and nomina-

tions from the floor will be accepted at the election meeting November 06, 2009.

Need of Parliamentarian was raised at last meeting; WB6ODR will hold the book and act in the capacity as needed.

Prescott Road Rally: WB7RRQ reports all set; reminds all volunteers to be on-site on-time.

Meeting Date in January, 2009 will be Thursday the 8th due to New Years Holiday.

Prescott Hamfest date is set for Saturday, May 30, 2009. Appropriate requests and publication will be done.

Recognition Certificates will again be prepared by WB9VGJ. If you have someone you would like to nominate for club appreciation, please send name and reason to wb9vgj@arrl.net or wb7rfy@arrl.net.

Tonight's Program is WB7RRQ & N7LSA on mobile installations particular to Quads & ATV's.

50/50 Drawing: \$ 91.00 was won by Charles Laughlin, new member tonight and soon to test. He chose to donate the winnings to the Repeater Fund.

On motion of KE7DTR, second by WA7ZZJ and no dissenting votes, meeting was adjourned at 1936 hrs.

Respectfully Submitted;

Jeff Hanna, WB7RFY
YARC Secretary

Membership Count:



1st Thurs. in Sept.....145

Gain/Loss.....+5

1st Thurs. in Oct.....150

The Jerry Doss Memorial Skull Valley Loop Challenge

By Lee Cunningham, KC7CBK

The morning of September 21, 2008 started for me at 4:00 AM as I needed to be at the start/finish line by 6:00 AM. As I rolled down Iron Springs road, I live in Highland Pines, the sun was starting to light up the sky before it appeared above Minus Mountain. There were a few clouds over the mountain which reminded me of the English translation from Greek, “rosy fingered dawn”, as the undersides of the clouds turned pink as the sun rose.



Bob, K7CJW

The volunteers for the Loop Challenge bike ride were already hard at work setting up canopies, tables and chairs, checking the PA system and generally getting ready for the arrival of the first group of participants. These riders, starting at 7:00 o'clock, would ride seventy to ninety miles from the Court House in Prescott through Skull Valley, past Kirkland to Kirkland Junction, south through Peeples Valley (some would turn around there) and Yarnell, down Yarnell Hill and back up and return to the Court House via Wilhoit on SR-89, White Spar road.

As riders gathered, Lloyd, WA6ZZJ, arrived with the M.A.R.C. (Mobile Amateur Radio Communications) vehicle. We adjusted the level of the vehicle by rolling the front wheels on blocks. We've found that the vehicle will fall off the leveling jacks if the ground underneath isn't level. The Diamond X-50 antenna was placed on the mast and the mast extended to its full height. A radio check with the 147.260+ MHz repeater responding with a full quieting signal.

As our operators arrived, I briefed them on their assignment and handed them their t-shirts. This year our logo is on the t-shirt as a proud sponsor of this event. Other Loop Challenge volunteers were setting up the SAG (Support and Gear) stops where the riders can get

liquid refreshments, energy supplements and repairs to their bicycle. Several other volunteers would be shadowing the riders to assist them if needed. Bud, N7CW, arrived to help at the M.A.R.C.

“They're off” was the cry as the start signal was given. Approximately 50 riders took off following the lead vehicle through the streets of Prescott out to Iron Springs road. It seems the PPD had forgotten about the event or, like the YCSO, had decided that the event must be on another day. I was able to contact the PPD supervisor and the YCSO supervisor to get coverage through the city for the 8:00 o'clock riders and coverage on the road by the YCSO. Thank goodness for their coverage as you'll see later. At a little past 8:00 o'clock the cry of “they're off” came across the street as the 50 milers departed the starting line. Approximately 70 riders took off to meet the PPD in mid-block, ready to escort them to Iron Springs



Ken, WA6AQK

road.

See Loop Challenge, Page 5

Loop Challenge (Continued from Page 4)

My job would be to follow those riders and report the last rider's location and any problems that have occurred. I waited a few minutes before I left the M.A.R.C., taking a different direction through town, reaching the pack as they climbed toward the community of Iron Springs, which is just on the other side of the summit (6000+ feet).

From the summit on Iron Springs road it's mostly downhill to the Skull Valley SAG stop. I arrived at the SAG stop after 9:30 AM and I was met by Fred, N7PJN, and Richard, KE7DTR. The last two riders arrived as I was talking to Fred and Richard. So far the Loop Challenge was uneventful. I now needed to deliver t-shirts to Doug, N0DAJ, and Mike, KE7HMJ at Peeples Valley and Joyce, KE7UUV, and Warren at the bottom of Yarnell Hill.



I arrived at Peeples Valley about 10:30 AM after passing riders in both directions, to and from Peeples Valley. I could tell by the numbers that both 70 and 90 milers were heading toward Wilhoit and the last challenge, the climb from 4000+ feet to the summit at 6000+ feet on SR89.

I dropped off the t-shirts and started back to Skull Valley to catch up with the last riders. I passed the YCSO Deputy that was stationed at Kirkland as I was approaching Kirkland. I hadn't passed any riders so I turned around at Kirkland and headed back to Kirkland Junction. The Deputy confirmed that no riders had passed him for thirty minutes and I confirmed that with the volunteers stationed at the Junction. They were picking up to move to Wilhoit.

By this time, about 11:00-11:30 AM, Mobile one (Bob, WB7RRQ and Jim, KD7RMV) reported that all the riders had cleared Yarnell Hill. I stopped at Wilhoit to speak with Bob, K7CJW and Ken, WA6AQK. I left Wilhoit about 12:15 PM to follow a few of the stragglers. This last section of the ride from Wilhoit may be the toughest part of the ride because the elevation changes from about 4000 feet to 6000 feet in about 15 miles. The road is narrow with guardrails close along the road.

As I returned from a trip to the summit, about 12:45 PM, I came upon an accident involving one of the riders. I quickly turned around to protect the scene with the flashing lights of my vehicle. Others, who had arrived shortly after the accident, were comforting the rider, who was wailing in pain. At least two medically train personnel stopped to provide assistance. About this time, a YCSO Deputy arrived and provided protection for the scene while I went to the other side to slow traffic. The first arrivals on the scene had called 911. A CYFD engine arrived on the scene about 1:00 PM with the ambulance arriving about 1:15 PM with two DPS vehicles right behind. They all ended up parking in the roadway. Traffic was halted for a time while the rider/patient was loaded into the ambulance. As the ambulance made its way to Prescott, the emergency vehicles turned around to leave. Unbeknownst to me, the Wilhoit Volunteer Fire District responded from Wilhoit. So we had two fire engines, two DPS vehicles, two YCSO vehicles and one ambulance in the roadway this whole time.

The accident happened about 1/10 of a mile North of Mile Post 300 on State Route 89, White Spar road. At this point the road makes a downhill turn to the left. This is a narrow two lane road with no shoulders and guardrail all along the outside of the turn. I don't know all the facts but I believe the rider lost control of the bicycle in the gravel at the edge of the traveled portion of the road. The road is downhill and I believe the rider was going too fast for the conditions, hit the guardrail with the bicycle or fell onto the guardrail and landed on the other side of the guardrail. The rider had a bloody forehead and it was thought that it was the extent of the injuries. It was later found that the rider/patient was transport to a Phoenix hospital via air ambulance with broken ribs, a punctured lung, and a sprained ankle along with various bruises.

I followed the last rider into the finish line about 2:45 PM with no more events. This was only fifteen minutes past the deadline. We secured the M.A.R.C. Lowered the mast, removed the antenna, backed the vehicle off the leveling blocks and went home. ■



By Lloyd, WA6ZZJ

ARES/RACES.....

TRAINING MEETING.....

The final quarterly training meeting of 2008 will be held on Saturday, November 1, 2008. It is an exercise event and is also used for the annual Simulated Emergency Test (SET) for 2008.

The scenario portion of the exercise takes place in the Congress area with other areas of Yavapai County involved so more operators are able to participate. More information on the exercise will be included in December's Newsletter.

SPECIAL EVENT COMMUNICATIONS.....

SKULL VALLEY LOOP CHALLENGE.....

Sunday, September 21st turned out to be an excellent day for the Skull Valley Loop Challenge Event. Riders took part in three different ride distances. They were 90+ miles, 70+ miles and 50+ miles. The challenge was really in the 90+ category as they rode out Iron Springs Road through Skull Valley and Kirkland Junction then south to the bottom of "Yarnell Hill" where they turned around and rode back up the hill and then continued on Highway 89 into Prescott. The 70+ did the same route except they did their turnaround at Peoples Valley. The 50+ made their turn north at Kirkland Junction. Approximately 144 riders took part in all events. There was only one incident on the ride where a rider had an altercation with a guard rail and fire and ambulance had to be dispatched. The rider was taken to YRMC by ambulance where she was air evacuated to St. Joe hospital in Phoenix and was in ICU. She was in good spirits despite the fact that she had 5 broken ribs, 2 punctures in a lung, shoulder injury, and at least a bruised ankle. She was very disappointed that she did not complete the ride, but is already planning to ride next year.

The riders had positive feedback to the organizers on an excellent event. Once again the organizers thanked the amateur operators and said the event couldn't be done without our assistance.

Thirteen Amateur Radio operators took part in the event at five different locations and two mobile units. Those who took part were: KC7CBK (who did a good job organizing this event), N7CW, KE7DTR, N7PJM, KE7HMJ, N0DAJ, KE7UUV, W7WRU, K7CJW, WA6AQK, WB7RRQ, KD7RMV and WA6ZZJ.

GROOM CREEK CLASSIC 10K.....

Saturday, September 27th was the 4th Annual running of the Groom Creek Classic 10K. Once again it was a cool morning in the pines of Groom Creek. Some of the runners were anxious to get started so they could warm up. Nine amateurs were involved in the communications between the two operators at Net Control in the ARES/RACES MARC located at the Groom Creek fire Station and three outlying refreshment stations located at the Two Mile, 5K and 10K turnaround points. Two 'quad' operators patrolled the route to fill in gaps between the other stations.

Amateurs involved were: W6CCD, KE7HWP, AD7UR, WB9VGJ, KF6SPS, W7TQJ, KC6ZHG, KC7AGL and WA6ZZJ.

PRESCOTT ROAD RALLY.....

Friday and Saturday, October 3rd and 4th was the 21st annual running of the Prescott Road Rally. Amateur Radio Special Event Communications has played an important part in this event for many years. This year there were upwards of 50 +/- operators involved to make the event run safely and smoothly. This year, just to make things more interesting 'mother nature' threw a little rain into the mix on Saturday, but in true Rally and Amateur fashion the event and communications went right on through it all.

DIABETES WALK.....

Saturday, October 18th was another nice day for the annual Diabetes Walk. John, WB9VGJ, did a good job of putting this event together with 10 operators involved. Between 300 and 400 walkers participated in the event taking part in 3 different lengths of walking. There were .7, 1.3 and 4 mile routes. Four 'Water Stations', a 'Shadow' position and Net Control were used.

See ARES/RACES, Page 7

● **ARES/RACES** *(Continued from Page 6)*

Amateurs taking part were: WB9VGJ, KD7VBG, KF6SPS, W6CCD, KE7HWP, KC7CBK, WB7UZV, K7CJW, N7PJN and WA6ZZJ.

A big THANK YOU is extended to all who participated in the above events. It is dedicated members such as you who help the Yavapai Amateur Radio Club maintain its Special Service Club status. These events could not be accomplished without your participation. Special Event Communications is also an excellent way to get practice for emergency communications.

This pretty much winds down our Special Event Communications schedule for 2008. Keep your equipment in shape to be ready for the events coming up in 2009..... ■

Diabetes Walk Pictures at: <http://tinyurl.com/5pmzxf>
Courtesy of John Broughton, WB9VGJ



Fred, W7PJN, at Break Station 4 after the Fun Run and before the walk.



Fred's display at Break Station 4.

VE Tidbits



by Mary Vince – AB7NK

On behalf of the Prescott VE Team, I'd like to welcome the following VE's to our group. Judy Rosevear – KC7MTY, Walter Schumann – KF6SPS, Erika Schiltneck – KI7JZ and George Imburgia – AD7RL. We now have a pool of 24 to rotate from.

The October 11th test session was our largest ever. There were 27 applicants which resulted in 20 technicians, 3 generals and 1 extra. Those who attended the technician class, put on by Jack W7JLC and his assistants, all passed the technician exam.

A special testing will be held Saturday, November 1st at 9:00 a.m. at Embry Riddle to accommodate those who weren't able to test on the 11th. This testing is for all license classes. Anyone wishing to attend this testing, please contact me at ab7nk@arrl.net.

Congratulations to all the new hams as well as those who have upgraded. ■

YARC Officers for 2008

President	Vice President
Terry Pemberton, KB7TRE kb7tre@cableone.net	Pete Morrison, K6VVR pm_service@earthlink.net
Secretary	Treasurer
Jeff Hanna, WB7RFY jeff668@commspeed.net	Patti Halgunseth, KD7VBG kd7vbg@cableone.net

Board of Directors (includes Club Officers)

- John Broughton – WB9VGJ
- Tom Griswold -- N6LSA
- Richard Bozeat – KE7DTR
- Walter Schumann – KF6SPS

Newsletter Editor: Joe Oliver, AC6AA

Treasurer's Financial Reporting Sheet



Club / Group Name: YARC
Reporting Date: OCT '08

Patti Halgunsth, KD7VBG
Treasurer

Members Name	Dues Paid	Repeater Fund	Donations	Prize Money Paid Out	Net Cash In per Member
Craig Pullman/N=KE7DTU	\$18.00	\$2.00			\$20.00
Carol Hills/N=KA7LKW	\$18.00	\$2.00			\$20.00
Bob Nichols/N=KE7JEV	\$18.00	\$2.00			\$20.00
Ellen Nichols/N=KE7JEX	\$0.00				\$0.00
George Hargreaves/N=WL7BSW	\$18.00	\$2.00			\$20.00
George Laughlin/N=??????	\$18.00	\$113.00			\$131.00
Thomas Gregory/R=W2JKG	\$18.00	\$2.00			\$20.00
Erika Schiltneck/R=KI7JZ	\$18.00	\$2.00			\$20.00
William J. Taylor/R=KE7SBJ	\$18.00	\$2.00			\$20.00
Neil Vince/R=KA7JAS	\$18.00	\$2.00			\$20.00
Marty Goyette/R=KF6BTV	\$18.00	\$2.00			\$20.00
Tony Jackson/R=KI6AHH	\$0.00				\$0.00
Tomi Hammen/R=KJ5CE	\$18.00	\$7.00			\$25.00
Robert Smith/R=WB6ODR	\$18.00	\$2.00			\$20.00
Linda Smith/R=KE7EEO	\$0.00				\$0.00
Roy L. Jackson/ARRL	\$36.00				\$36.00
John Bednarik/T-Shirt/Repeater	\$19.00	\$41.00			\$60.00
Joyce Linnerud/T-Shirt	\$19.00				\$19.00
Carol Hills/T-Shirt	\$19.00				\$19.00
1 Patch	\$3.00				\$3.00
6 Stickers	\$6.00				\$6.00
50/50			\$182.00		\$182.00
George Laughlin/??????				\$91.00	(\$91.00)
Total:	\$318.00	\$181.00	\$182.00	\$91.00	\$590.00

Miscellaneous Club Expenses	Cash Out	Check Number
Jeff Hanna=ARRL/Roy Jackson	\$34.00	1041
David Passell=Refreshments	\$25.46	1042
Allegra=Newsletter	\$32.87	1043
Repeater Fund	\$181.00	Cash
Total:	\$273.33	

Club Funds Summary	Totals
Starting Balance	\$1,515.48
Net Expenses	\$273.33
Net Income	\$590.00
	\$1,832.15
Repeater Fund:	\$314.92
Cash Flow:	\$316.67

Incandescent Bulbs Going Bye Bye

By Stan Pozerski, KD1LE

Reprinted Courtesy of the NVARC "Signal"



The latest US energy bill signed in December has set the stage for the end of incandescent light bulbs as we know them. Retail sales of standard incandescent bulbs will stop the end of 2011. This is not the problem it would have been only a few years ago. Compact Fluorescent (CF) bulbs or Compact Fluorescent Lamps (CFL) have come a long way in the past few years. They come in many different wattages which roughly equal the incandescent wattages such 60, 75, 100 in light output.

While CF bulbs cost more than incandescent they typically last about six times longer. Besides the wattage choices they come in a variety of forms such as flood light styles and enclosed tube. In addition to the standard base there are candleabra and various special fixture bases available. They are also available in models running on DC as well as AC.

Most people think of CF as the little bulbs with the curly tube that are used for incandescent replacements. These lamps have the ballast built into the base. But they are also available in straight U shapes with one or multiple parallel tubes. These come either with the ballast or with the ballast as part of the light fixture as in conventional four foot fluorescent tubes.

Dimmable CF bulbs are being developed. Some are already available. There are two types. One type is supposed to operate with standard dimmers and the other requires its own special dimmer. While incandescent lamps can be dimmed from 0-100% the CF bulbs have a range of 20-80%.

The reason for the shift to CF bulbs is they use 20-25% of power of a traditional incandescent lamp for the same light output. Residential lighting accounts for 9% of US electric consumption. If all the lighting could be replaced with lamps using only 20-25% as much power would cut US power use by 7%.

There are companies developing other high efficiency lamps. Solid state LED lamps are being developed as are high efficiency incandescent bulbs. As I said in the beginning it is only the inefficient standard incandescent bulbs that are

See Incandescent Bulbs, Page 10

220 MHz Repeaters

Bob, WB6ODR recently pointed out the lack of activity on the 1.25 meter (220 MHz) band in our area. He suggested that the Area Repeater Chart on the back of the Newsletter include WA7JC's 224.080 MHz Repeater. The Chart has been modified to include this repeater.

The number of repeaters on the 1.25 meter band has grown over the years. A renewed interest was sparked in this band in the late 1980s and early 1990s due to the reallocation of the bottom 2 MHz to other services. Today, while not as widely available as 2 meter and 70 centimeter equipment, 1.25 meter equipment is much easier to obtain. One reason that there is not a lot of equipment for the band is that it is not a world wide amateur allocation and therefore does not provide the sales opportunities for manufacturers. However, the perception that there is hardly any commercial gear for the 220 band is incorrect -- new equipment is available, and some at very attractive prices.

Ted, N4TW compiled the following list. Some of these are new, while others may be found on eBay or swap meets.

<u>Manufacturer</u>	<u>Model No.</u>	<u>Bands</u>
<u>Mobile/Base Units:</u>		
ADI/Pryme	AR-247	222MHz 30w
Alinco	DR-235T	222MHz 25w
Kenwood	TM-331A	222MHz 25w
Kenwood	TM-621A	2m/220-225 25w **
Kenwood	TM-642AD	2m/220_ 50w/25w/_
Kenwood	TM-742AD/ UT220S	2m/220/440 50/23/35w
<u>Handie-Talkies:</u>		
ADI/Pryme	PR-222	222MHz 5w
Alinco	DJ-296T	222MHz 5w
Alinco	DJ-296T	222MHz 5w
Kenwood	TH-F6A	2m/222/440 5w
Yaesu	FT-33R	220MHz 5w

The newest units are the ADI PR-222, Alinco DJ-296T, and the Kenwood TH-F6A.

*** TM-621A can monitor both bands at once -neat.*

Why not try this band? Commercial interests would like access to 222-225 MHz. If we don't use it, we may lose it! ■

• Incandescent Bulbs

(Continued from Page 9)

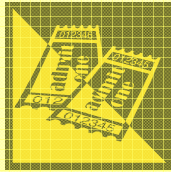
going away. If a high efficiency lamp can be developed they can be sold.

One of the concerns with CF lamps is the electrical noise they generate. Since CF lamps have been around I have tried quite a few and have not found them to create unreasonable electrical noise. One lamp I am currently using is audibly noisy. I know some other people whose experience was not a positive. We can hope that as these products evolve, the issues are addressed.

There are programs or regulations promoting CF lamps in the US (and many States), the European Union (as well as the individual countries), Canada, Australia and many others.

General Electric, Energy Star, and other Websites have extensive information on the lamps. ■ Stan, KD1LE

Upcoming Events



- **November 6, 2008** - Election of YARC Officers & Board Members
- **November 17, 2008** - NRA Special Event Station at Gunsite, AZ.
- **January 17, 2009** - After Holiday Party at St. Michael's Hotel.

Program Speaker



November: Bud Semon, N7CW will speak on "Contesting".

NRA Special Event Operation

YARC will be sponsoring a special event operation Monday, November 17th to celebrate the 137th 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 and YARC member. 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 4:00 p.m. All YARC members are welcome to participate. You will find Buz's radio shack to be interesting. Here are some pictures of the operation in 2007: <http://tinyurl.com/2c6t8c>

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#nov>

There is also information on the YARC website about the event: http://www.w7yrc.org/nra_birthday.htm

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. The club will also be supplying some food.

Buz's address is 3300 West Ravengard Road. Here are the directions to the operating location.

Take Rt. 89 north to Rolling Hills Rd. (at about the 335 1/4 mile mark). Turn left on Rolling Hills Rd. and then 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 through the Gunsite gate, stay on the road and bear left (actually, straight ahead) instead of turning right into the Gunsite Facility. 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 be opened. The barn is under the big tower at the top of the hill. Drive through the gate and straight up the hill to the barn.

Be aware that the speed limit on Rolling Hills Rd. is only 25 mph and it is reported the police keep an eye on speeders. 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. If the repeater is busy, you can call on 147.420 simplex.

I encourage any and all YARC members to participate in this event if possible. Please contact me if you have any questions. Last year's event was a lot of fun. Buz is a great host and there was a lot of socializing as well as operating.

73,
John, WB9VGJ
775-2259
wb9vgj@arrl.net

YARC POST HOLIDAY PARTY

January 17, 2009

Names: _____

Address: _____

City, State, Zip _____

Telephone: _____

Luncheon choice(s): _____

Check for \$ _____, made out to YARC, is enclosed.

The party is at the St. Michael's Hotel, located on the corner of Gurley and Montezuma Streets. We will be gathering between 12 and 1 p.m. The luncheon will be served at 1:00 p.m. We will have gifts afterward.

Please make one choice for each person on your reservation form. The cost is \$22.70 per person. This includes tax and gratuity.

The choices include rolls and butter, garden leaf salad, and beverage (coffee, hot tea, iced tea, water).

1. Roast Sirloin of Beef with Burgundy Mushroom Sauce, roasted potatoes, and fresh vegetables.
2. Stuffed Chicken Breast with Wild Rice and Mushrooms, topped with Madeira sauce, and fresh vegetables.
3. Potato Crunch Salmon (smothered in crunchy potatoes with citrus butter).

Send form with checks to: Robert & Judy Rosevear

4929 N Pebble Circle

Prescott Valley, AZ 86314

NO WALK-INS ARE PERMITTED AS THE DINNER COUNT MUST BE AT THE HOTEL BY JANUARY 10, 2009.

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				
224.080-	156.7	Mingus Mtn	WA7JC				
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
442.350+ MHz with a
PL Tone of 100.0 Hz

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

