

# THE YAVAPAI AMATEUR RADIO CLUB

## PRESCOTT, ARIZONA

### VOL 8 - No. 12

# DM-34

# DECEMBER 1998

The Yavapai signal



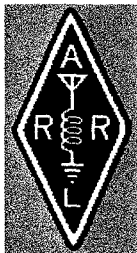
**HAPPY HOLIDAYS TO ALL!**

The Officers and members of the Yavapai Amateur Radio Club wish all a happy and prosperous holiday season. May the bands be open and your stockings be filled with lots of ham goodies this year!



### WELCOME TO THE YAVAPAI AMATEUR RADIO CLUB

The Yavapai Amateur Radio Club is an ARRL affiliated club. The club participates in many activities in the tri-city area including providing communications for local events, emergency communications, volunteer exams, and promotion of the hobby throughout the community. Membership in the YARC is open to any interested amateur or non-amateur alike. The YARC meets at 7:00 PM local time on the 3rd Thursday of every month at the Granite Mountain Middle School, 1800 Williamson Valley Rd. in Prescott. It is about 1/2 miles north of Iron Springs Rd 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 PM local time on the 146.880- repeater. All amateurs are invited to participate. The Yavapai County ARES/RACES NET is held on Monday nights at approximately 6:45PM local time on the 147.220+ repeater on Mingus Mtn.



**ELECTION RESULTS!** The nominating committee, made up of Bob Kane-K7KOL, Terry Pemberton-KB7TRE, Dale Leslie-N7XFD and John Wilson-KM6BF selected the a slate of candidates for officers for 1999. Since there were so few (again) the candidates are unopposed and were elected to the positions by acclamation of the membership present at the November meeting. We would like to thank Bob Kane-K7KOL and Lloyd Halgunseth-WA6ZZJ for their outstanding leadership and service to the club for the last 2 years. The gavel will be passed at the December meeting to the new leadership of the club.

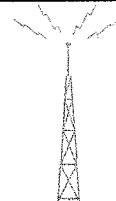
#### YARC OFFICERS for 1999

Lee Cunningham, KC7CBK	President*
Hal Tritel, N6OVE	VicePresident*
Kris Bearscove-KC7UNK	Secretary*
Tony Masvidal, W7PCU	(a)Secretary*
Fred Schefflette-KC7TIN	Treasurer*

#### YARC BOARD OF DIRECTORS

\*Includes Club Officers

Bob Kane, K7KOL	Frank Horneff WA6JBV
Dale Leslie, N7XFD	Frank Bennett, N7VOJ
(a) Tony Masvidal will share the secretary's duties with Kris until he graduates and leaves sometime in July.	



#### Club Repeater

The local 146.880- MHz repeater is the official adopted repeater for the YARC. It is located on the hill above Willow Creek Rd and requires a PL of 100.0 Hz. There is a second 2 meter repeater on Mt. Francis on 147.040+ MHz and also requires a PL of 100.0 Hz. Also on Mt. Francis is the 447.650 repeater (-5 MHz and 107.2 PL) Coverage of the 3 repeaters varies, but both cover the local area quite well. Many thanks to Bill Kafka, W2YAV for the upkeep and use of the repeaters.



**UPCOMING EVENTS OF INTEREST**



December 25 - Merry Christmas

January 21, 1999 YARC Meeting

February 13, 1999 VE Testing

*More detailed information on Contests and Special Events can be found in most amateur publications such as QST, Worldradio, and others.*



**NOVEMBER MEETING**

The meeting of November 19 was called to order at 7:00PM by Vice President Lloyd Halgunseth-WA6ZZJ. Lloyd stated that Bob Kane-K7KOL was running late. A visitor was introduced, Bob Smith-WB6ODR who is new to the area. The minutes of the October meeting were presented by Kris Bearscove-KC7UNK and were accepted as read. Treasurer Fred Schefflette-KC7TIN gave the treasurers report, which shows the club has \$469.98 and the refreshment fund at \$34.56.

**OLD BUSINESS.** Frank Bennett-N7VOJ updated members on the club's web page. A link to Y2K information was removed due to it taking users to a less than desirable website. Lee Cunningham-KC7CBK volunteered to help Frank with the "Club History" part of the web page. Terry Pemberton-KB7TRE covered the Special Event Station which will be held on Friday, November 20 at the Granite Mountain Middle School. Several club members have volunteered to help out, although the station will primarily be run by students. All are invited to stop by and visit during the event from 9A-3P. Candidates for club positions for 1999 were narrowed down to 1 for each position, so the slate was elected by acclamation by the members in attendance.


**NEW BUSINESS.** Lee-KC7CBK brought some material and information on grounding, which was part of a presentation given recently at the Verde Valley ARC meeting. Bill Jackson-W6HDP announced that there is still time to buy tickets to the SOWP/QCWA luncheon to be held December 5 in Cave Creek. Fred Zimmermann-N7PJN noted that the upcoming Hamfest

at Mesa Community College on December 5 was missing from the newsletter. Kris-KC7UNK reminded all members to sign the sign-in sheet before they leave. A short discussion with several questions and comments about Y2K followed, with no apparent conclusion. John Wilson-KM6BF reported on the VE testing session that was held November 14. There were a couple of new hams and past president Matt Strandberg-KJ7DX passed his 20 WPM code and is now an Extra Class. David Blyth, a student at GMMS who passed his Novice got his call sign today, KD7DGR.

There being no further business, the meeting was adjourned for the refreshment break. Following the break, the 50/50 raffle was won by Jim Blackmore-W6KCF who pocketed \$10.50.

The program for the evening was a well edited video of ESPN 2's coverage of the Prescott Forest Road Rally. There were some great shots of the area from both the ground and helicopter. Thanks to Bill-W6HDP for the video.

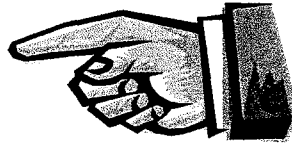
1705 ✓



**WE GET LETTERS!**

Occasionally we receive correspondence worthy of reprinting for our members benefit.

**SORRY-THE MAILBAG WAS EMPTY AGAIN THIS MONTH!**



**WE WANT YOU!**

Membership in the Yavapai Amateur Radio Club is only \$12.00 for 1 year. Newsletters will be mailed only to those members not attending a meeting and current on dues. Those in arrears 3 months will be dropped from the membership list. Dues can be mailed to the club PO Box or given to the treasurer at any meeting.

TREASURER  
512.98

ret 34.56  
- 22.47 NOV  
18.09  
+ 10.50 RAFFLE  
28.59

- 18.47 DEC



## THE NEWSLETTER

If you have anything to share, please feel free to submit it for inclusion in the newsletter. We welcome your suggestions, comments, stories, personal experiences, or other items related to the hobby. Send e-mail to:

**km6bf@primenet.com**

Occasionally we will have articles from other clubs newsletters.



The Random Wire (Newsletter of the Baylor ARC) Summer 1998

QST Baylor Amateur Radio Club Associates,

We have had our first meeting of the Fall semester and it was very obvious that membership needs to be increased. After the meeting, a trip to the mailbox proved worthwhile. Inside were 2 ARRL first place certificates for Multi op NTX. One for CW during November sweepstakes and the other for January VHF Sweepstakes. A list of our past achievements are listed under contest results on the BARC web site.

During talks about the new parking garage behind the shack, we were informed that eventually the parking garage would be expanded to include the space that we currently occupy. This will not be happening soon as arrangements for the adjacent post office and lodge meeting hall have not been finalized. The result is that we will be forced to lose our current location in a few years and no options for relocation have been given. Considering how long we had to wait to get the present site, we will have to start lobbying for a new site now to avoid being put out on the sidewalk and returning to operations field day style. If you have any comments, suggestions or letters of support, please send them to Ham\_Radio@baylor.edu or to our PO Box.

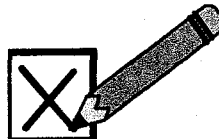
Our operations during Field Day may not win any awards but we did have the highest participation level ever. Not everyone grabbed a mike or logged a contact but we counted 17 members, advisors, alumni and volunteers at this years 105 degree fry fest. We had a mini contest between the OM's and the YL's but due to some logging confusion we can't officially declare a winner but it appears that the YL's managed a few more contacts than the OM's. Must have been that YL magic working for them. Score results and photos are at [http://www.baylor.edu/~BARC/CONTESTS/field\\_day/1998/FD98.html](http://www.baylor.edu/~BARC/CONTESTS/field_day/1998/FD98.html).

School club roundup results were posted in the recent QST but due to some problem with our submitted scores having to be resent, it appears that we got lost in the shuffle. We wouldn't have taken first but it would have been nice to be listed under the college section.

We will be having another Adopt-a-Highway session once the weather cools off a bit. November sweepstakes will have us on the air but our current CW champ may not be available so don't expect a top 10 finish in that area unless one of you 30 wpm alumni want to come down for a weekend. Phone operators will be standing by for the second half of the sweepstakes.

Hope to hear you on the airwaves,  
Kenneth G. Ransom (N5VHO)

# ARRL VEC



## Volunteer Examiner Testing

As 1998 comes to a close, I would like to thank you and your team for your support of the ARRL VEC testing program. This year has been a year in which many changes to the amateur service have been proposed. As you receive this, the comment period for the proposal to restructure the amateur service is coming to a close. We now enter a 45 day period in which the public can "comment on the comments." The FCC has posted comments it has received on their website. So far over 1400 comments have been posted to this site. If you have full access to the Internet, you be able to view the comments of others at the following URL:

<https://gulfloss.fcc.gov/cgi-bin/ws.exe/prod/ecfs/comsrch.hts>

The Adobe Acrobat reader will be needed to view the documents. It can be downloaded from a link at the FCC site.  
<http://www.fcc.gov/e-file/ecfs.html>

The venerable FCC Form 610 will be a part of Amateur Radio history within the next several months. The implementation of the Universal Licensing System (ULS) will be accompanied by a new form, the FCC Form 605. Look for this form to make its appearance sometime in 1999. The FCC indicates that there will be a 6 month transition period in which either form, the 605 or the 610, will be acceptable. As further functional details of the Universal Licensing System become known, we will make them available. Probably one of the more beneficial changes to the licensing system will be for the general public to make changes (modifications, such as name change and address change) on-line. This should reduce the amount of paperwork necessary when someone moves to a new address, changes their name by reason of marriage, or requests a different sequentially issued call sign.

In closing, from all of us at the Volunteer Examiner Office, we wish for you, your family and your VE Team, a Very Happy Holiday Season.

Very 73,

Wayne K, Irwin, W1KI Assistant to the ARRL VEC Manager

The tentative testing dates for 1999 are February 13, May 8, August 14 and November 13, all Saturdays at 10:00AM at the Blind Center, 440 N. Washington St., Prescott. All those attending for tests must have **ORIGINAL** license and a copy, Original CSCE's and 1 photo ID. VE's remember to bring and wear your VE badge. Special test sessions may be accommodated according to demands, as needed. The test fee for 1999 will be \$ 6.45. Further information can be obtained by contacting John Wilson-KM6BF at 636-1228 or Dave Rutledge-W9KRQ at 541-1225.

### YOUR LOCAL PRESCOTT AREA VE's

AB7KE	Joan Tremper	AB7KF	Bob Nichols
AB7NK	Mary Miraldi	AB7VH	Ruth Enabnt
K7KOL	Bob Kane	KA7NGK	Don Broadstom
KB7FRV	Leonard Beers	KC7AGL	Don Muller
AB7SK	Ginger LeGendre	KK7JH	Billy Peters
KG7OL	David Miller	KI7EB	Bill Thrift
KI7MA	John Dawson	KJ7DX	Matt Strandberg
KJ7KL	Pen Brown	KM6BF	John Wilson
W7VG	Vern Gregory	W2YAV	Bill Kafka
W7DC	Bob Harkey	W6HDP	Bill Jackson
W9KRQ	Dave Rutledge	W7HP	Jim Perrone
	WF7J	Walt Loesche	



## Packet, It's Alive

By Lee Cunningham-KC7CBK

I've talked about the radio and the transmission line, now let's talk about the antenna. If you've perused the latest

"HAM" equipment catalogs, you'll see a plethora of antennas. Ground planes. Yagis. "Boomers". Mobile. (Top loaded, base loaded ) Log-periodic. Dipole. Of course the first thing is to select an antenna in the frequency range you want to work, 2 meters or 70 centimeters. Almost all of the activity in Arizona is on 2 meters. Next select a vertically polarized antenna. (All of the nodes and BBS's in the area are using ground plane omni-directional antenna similar to a Diamond F22A.)

A half-wave dipole will produce a gain about 2.1 dBi (dBi = decibels over isotropic [ isotropic meaning the ideal antenna] ). A decibel is a common unit to measure loudness. In the case of an antenna, it measures relative power. Because the decibel is based on logarithms, the power factor is not linear. ( 3dBi = 1.99pf, 4dBi = 2.51pf, 5dBi = 3.16pf, 6dBi =3.97pf)

An omni-directional ground plane antenna can produce a gain of 3 to 7 dBi. If you live in Prescott or Prescott Valley, you might select this kind of antenna as the Mount Elden node is to the north and the Union node is to the south. If you live on higher ground or on the west side of Prescott, you could select a yagi that will produce 10 dBi gain. The yagi is a directional antenna. It's small and can be attached under a ground plane antenna. If you need more gain, select a "boomer" ( a 13-17 element beam). If you already have an HF beam, you can install the boomer above it.

The location of the antenna is just as important as the type of antenna you select. The antenna should be located above and as far away as possible from the electrical distribution wires. Check with your local governmental agency as to the zoning ordinances before you erect any mast or tower. Do not use fence posts or utility poles as guy wire/rope anchors. Remember your neighbors. Check with them before you consider attaching anything to the joint fence. Check around your area for other "HAMS". See what that have done. Know the location of the nodes and BBS's you want to connect to. Consider if there are any buildings or mountains in the path that could cause reflections.

Next month I'll write about selecting a computer for packet.

If you have any questions or comments about packet, please call me at (520)771-2055 or e-mail at leeco1@juno.com or via packet, KC7CBK



## From the FAQ (Frequently Asked



## Questions) files

### What's the best battery for my HT?

#### MORE THAN YOU WANTED TO KNOW ABOUT HT BATTERIES From the Middle Peninsula ARC-Glorcester Point, Virginia Joe Gowdey, KA0JG (formerly KF4IPL)

Part 1 of 2

As I was monitoring the local repeater the other day, I heard a couple of guys discussing their problems with the Nickel-Cadmium (NiCad) batteries for their HTs. Seems the batteries had short life, developed memory, etc. - the same problems we all have experienced with NiCads in our calculators, electric screwdrivers, HTs and the like. Since I was at one time a member of a national committee that funded research into battery systems for aerospace use, I thought this would be a good forum to share some of the findings and guidelines that came from that research, with regard to NiCad and NiMH batteries.

NASA expects the life of a NiCad cell to be about 10 to 14 thousand partial cycles (usually about 1200 full cycles). It may come as a shock to you, but their cells are built from the same plate materials, fabricated on the same production lines, as the batteries you buy at WalMart. In fact, for some small satellites put up by DoD, the battery preparation consisted of buying a case of C-cells from the same distributor that supplies WalMart, selecting the best 50% of them, and putting them in orbit! (In the larger sizes, for really expensive satellites like the Hubbell Space Telescope, a little more attention is given. The average cost for a 30 amp-hour battery [the smallest of the NASA series of "standard" spacecraft batteries] is about \$5000/cell, even though the plates come off a commercial production line.

A lot of very critical selection, testing, hand work and inspection goes into those batteries.) Ignoring the selection process, the difference between the life NASA gets and the life you get from what is substantially the same NiCad battery is determined largely by two things: temperature, and charge/discharge control. NASA tries to maintain NiCads at between 0 and 10 degrees C during their working life, which is impractical for us. However, a little attention to charge/discharge control can add many cycles to your battery life.

(continued on page 5)

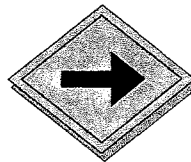
Before I get to that, though, a few words about the "memory effect" are in order. The short answer to questions about NiCad memory (the effect that, if continually discharged to the same level, the battery "remembers" that level and won't discharge below it) is that it is a myth. At the cell level, there is no such effect. When several cells are connected in series to make a battery, though, a different situation occurs. A characteristic of NiCads is a great amount of small-scale variability from cell to cell in such things as cell voltage, self-discharge rate, and charge efficiency. What happens when a battery (defined as a collection of cells) is treated as a unit is that the individual cells drift to their own level. The most efficient cells maintain their charge better (have a lower self-discharge rate), and recharge more quickly (have a better charge efficiency), than the least efficient cells. After a number of charge/discharge cycles, the best cells are hitting full charge well before the poorest cells. When they do, they raise the pack voltage high enough that charging effectively stops. When discharging, then, the poorly charged low cells run out of gas first, dropping the pack voltage and making it appear that pack has lost its ability to take a charge (and for all practical purposes, it has!) Another characteristic of NiCads is that they will last through 8 to 10 times as many charge/discharge cycles if they are only discharged to half capacity, rather than being taken all the way flat. Even though they undergo many more cycles that way, they still last 4 to 5 times as long in terms of total ampere hours in and out. (This is true of almost all rechargeable battery systems, the exceptions possibly being the nickel-iron and the nickel-hydrogen couples). Like almost all battery systems, high current "quick charging" substantially shortens their life, though not as badly as running them flat under high load. Another characteristic that is (I think) peculiar to NiCads is that they are endothermic during charge, until about 85% of full charge. This means that they actually cool for most of the charge cycle, only becoming warm when they have almost hit full charge. They also prefer (unlike the common lead-acid car battery) to be stored (long term) fully discharged. Now that you have more information than you probably wanted about NiCads, how can you use it to extend the life of those you have? For starters, you can make it a policy to keep tabs on the probable state of charge of your battery, and take it out of service for recharge well before it goes flat. When recharging, keep tabs on the temperature of the battery. By the time you can feel it getting warm (it was cold up to 85%, remember), it is probably close enough to full charge that you won't tell the difference when you put it in use. Some batteries are specially designed for constant trickle-charging (as are some chargers), but most aren't. My electric screwdriver charger/holder perks away for months at a time without complaint from the batteries, but my HT battery (which will fully charge in less than 12 hours) will be damaged by charging for much more than that. Quit using the battery as soon as there is any sign it is at low charge. The output voltage of a NiCad is very flat from about 90% charge down to

about 5%, so if the pack voltage drops enough for you to notice it, it is probable that at least one cell is at zero charge.

Continued use, particularly at high load, amounts to reverse charging that cell, which will irreparably damage it unless there is special protection built into it, rarely found in commercial battery packs.

73, Joe Gowdey (KA0JG)

(Reprinted with permission from the Middle Peninsula ARC-Glorcester Point, Virginia) **Part 2 will conclude next month**



SAY WHAT? FROM THE "I can't believe I heard it on amateur radio" files:

Ham #1 "Did you catch that special on PBS about Frank Lloyd Wright?"

Ham #2 "No, I don't know much about the Wright brothers."

"I use my radio in the simple mode for packet."

"I like working through a repeater. It makes me feel powerful!"

"I always shop at xxx ham store. Their prices may be higher, but they pay the shipping."

"I designed this antenna to be very stable!"

"A lot of thought went into designing this radio. Now, if they would only put some effort into instructions on how to operate it!"

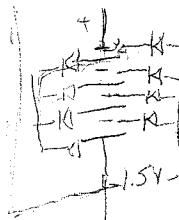
"I wanted to get my license before they start charging for them."

"Well, your signal is weak and your audio is distorted, but otherwise you're 5 and 9!"

"Why does a club focused on packet have a repeater?"

"6-meter openings are so rare, why do people bother buying a radio for that band?"

"I got a good deal on my new radio but the credit card payments are killing me!"





**STRICTLY EDITORIAL**

As we approach the end of the century the talk about Y2K intensifies. Many a QSO I hear is talking about it and how it may affect us and our daily lives. Many are predicting total system failures that provide us with necessities of life such as electricity, banking, gas stations, grocery stores, and the list goes on. Some of this is borne out of curiosity of the subject, some out of ignorance, and some out of pure paranoia. Whatever your concern may be with Y2K, it is quite the talk of the airwaves. If some of the predictions do occur, it will cause problems and create a whole new way of life for some. Imagine living without electricity or natural gas. We may very well have to cook by fire and light our homes with kerosene lamps. Money? We may not have it for a while. Imagine having to revert to the barter system for food and other supplies or having to go out and hunt for your dinner and stockpile firewood for cooking and heating. Water? No electricity to pump it would mean that we would all have to go somewhere and fetch it. Get those buckets out! Those who have solar power will be the lucky ones-hey, what's on TV tonight? Whoops, no TV stations on the air! Your cars may run but where will you get gas for them? Generators? Whoops, still can't find gas anywhere. Can't pay your bills? Well, then I doubt if your creditors would be able send you a bill either. Can't get to work? Whoops, no phone system to make that call! It's all a big question that nobody can answer. It will, however, be interesting to see if all the pseudo-pundits and all their predictions materialize. If they do, it may take a while to adjust, and there will be inconveniences, but like Amateur Radio, we will not just go away. Whatever the outcome, we will survive! Watch!

John Wilson, KM6BF-Editor



**OTHER NEWS OF INTEREST**

From Pen Brown, KJ7KL - Senior Communications Correspondent and News Analyst

**FCC SETS ASIDE FOUR EXTRA CLASS GRANTS**

The FCC has notified four individuals that it is setting aside their recent Extra Class license grants and privileges while it investigates alleged irregularities in the volunteer examination process. Letters from the FCC went out November 10 to Elmer J. Smith, N3UNR, of Effort, PA; Philip DiGenova, N3UNS, of Bartonsville, PA; Wayne S. Bowden, AA3RT, of Millsboro, Delaware; and Kenneth L. Sharp, AA3RU, of Boyertown, PA, that the Commission was setting aside their Extra Class grants. All four individuals were requested to return their Extra Class license documents and Certificates of Successful Completion of Examination (CSCes) to the FCC's Gettysburg office.

"This letter is not a finding that you have engaged in misconduct," the letter said, adding that if the FCC's investigation concludes that it should grant the Extra Class license applications, it will reinstate the grants.

An FCC official said the investigation was looking into testing irregularities including allegations that examinees might have been

coached or given test answers. "They are bumped back for now while we investigate, since we had enough evidence at the outset to do that," he said.

For the time being at least, Smith and DiGenova have been bumped back to Technician class licensees, while Sharp will revert to Advanced class and his former N3TPN call sign. All three took their examinations October 6 at a W5YI-VEC session in Warminster, PA. Bowden apparently never held a ham ticket prior to taking the examination elements for Extra Class at Spring City, PA, on October 4 during a W5YI-VEC testing session. The call sign AA3RT no longer appears in the FCC database. The records of the other three amateurs involved were modified November 10. (From the ARRL's ARRL Letter of 11/20/98)

**FBI Arrests Georgia Ham for Interfering with Aircraft Communication**

ATLANTA, Nov 20, 1998--The FCC, the FAA, and the FBI have announced the arrest of a Georgia ham for allegedly interfering with radio communication between aircraft and air traffic controllers in Northern Georgia. An FBI statement issued this week said that Kevin M. Kelly, N2BYE, an Advanced class licensee, was arrested without incident November 6 at his Cumming, Georgia, home by FBI agents accompanied by FAA and FCC agents. The arrest followed a search of Kelly's residence.

Kelly was charged in a criminal complaint with four counts of breaking federal law prohibiting knowingly interfering with the operation of a "true light" or signal used at an air navigation facility. The FBI said its case stemmed from FAA reports of "sporadic and momentary radio frequency interference" between aircraft and air traffic controller communications. The FBI said an extensive investigation showed the RF interference to be coming from the Hyde Park Subdivision in Cumming where Kelly lived.

The FBI described Kelly, 46, as "a highly experienced electronics engineer" who was said to have been "extremely upset" about air traffic noise above his home. Kelly was scheduled to appear November 9 before a US magistrate in Atlanta.

The FBI attributed the success of its investigation to technical expertise from the FAA and the FCC. (From the ARRL's ARRL Letter)

**CW in the cinema:**

Several ham-moviegoers have alerted ARRL HQ that the movie "Enemy of the State" contains a snatch of CW. In scenes depicting a spy satellite, the sound track includes a little Morse code: The satellite calls CQ! "As though pictures were sent from satellites by Morse, said Tom Bradbury, NU4G, who saw the movie in November with his daughter, Elizabeth, KE4IWN. "I broke out laughing, no doubt to the puzzlement of those around me," he said. "Somewhere in moviedom is a chuckling ham, I guess." Steve Kaufman, VE2SKA/KB2SPH, says that characters in the movie also use what appears to be a Yaesu HF transceiver to break into police frequencies. "The frequency shown is in the 40-meter band," he says, "but they do speak to the police dispatcher." The movie stars Will Smith and Gene Hackman.--thanks to Daniel Coates, N9XJF, Steve Kaufman, VE2SKA/KB2SPH, and Tom Bradbury,



**AREA REPEATERS**

52.560- 53.040-	100.0 Hz C/S	Mt. Union (-500KHz) Airport (-1 MHz)
145.350- 145.370- 146.780- 146.880- 146.980- 147.000+ 147.040+ 147.140+ 147.220+	C/S C/S 91.5 100.0 100.0 100.0/162.2 100.0 162.2 C/S	Wildflower Mtn. Towers Mtn. Bill Williams Mtn. Prescott Flagstaff(Mt. Eldon) Mingus Mtn. Mt. Francis Flagstaff(Mt. Eldon) Mingus Mtn.
223.960-	127.3	Mt. Francis
442.150+ 442.350+ 447.650- 449.175	100.0 100.0 107.2 C/S	Mingus Mtn. Glassford Hill Mt. Francis Towers Mtn.

ADDITIONS, DELETIONS AND CORRECTIONS APPRECIATED



**Statewide Flood Exercise**

On November 18th a statewide emergency exercise was held using a flood scenario. Yavapai County, being one of the areas affected, activated their County Emergency Operating Center (EOC) at the Commerce street location along with the Prescott EOC at City Hall.

Yavapai County ARES/RACES was called upon to man both locations. The Prescott EOC was manned by Mary, AB7NK, on packet and Walt, WF7J, maintained contact with the State EOC on 75 and 40 meters. The County EOC was set up using portable equipment due to the permanent installation of antennas not being completed. Lee, KC7CBK, set up a portable packet link to the State EOC and a VHF/UHF station was maintained by Kris, KC7UNK, while the Emergency Communications Van was activated by Lloyd, WA6ZZJ,

to establish 40 meter contact with the State. Contact to the Verde Valley was made with N7EBT, Frank, as the Verde river was the area flooding.

Messages were passed to the State on packet and to and from the Verde Valley on VHF.

A big thank you to all of the amateurs who participated..

**The Yavapai County ARES/RACES net is held every Monday night at 6:45PM on the Mingus Mtn. 147.220+ repeater.**

Lloyd Halgunseth WA6ZZJ  
Yavapai County DEC/Radio Officer  
(520) 717-2706  
wa6zzj@northlink.com



**Words of wisdom-From Chino Bob**

The trouble with doing nothing is...you can't stop to rest.

Federal aid is simply a system of taking money from the people and making it look like a gift when it is given back.

From Will Rogers:

"There are only a few original jokes, most of them are in Congress"

"Congress met. I was afraid they would"

"The good old days with most of us was when we didn't earn enough to pay an income tax"

"Our senate always opens with a prayer, followed by an investigation"

"You can't make a dollar without taking it from somebody"

Happy Holidays to all! Bob, K7CJW



**GOT ANYTHING FOR SALE? CLUB MEMBERS CAN LIST THEIR EQUIPMENT HERE FREE.**



**WEEKLY NET -**

WEDNESDAY NIGHTS @ 7:00 PM 146.880- (100.0 PL)  
IF YOU DON'T HAVE PL, TRANSMIT ON 146.880  
SIMPLEX WHEN THE REPEATER DROPS OUT.

**MONTHLY MEETING - 3rd THURSDAY**

@ GRANITE MTN MIDDLE SCHOOL 7:00PM  
NEXT MEETING THURS. JANUARY 21 @ 7:00pm



Wednesday Morning Breakfast-Iron Horse  
Cafe in Chino Valley. 7:00am. Informal-All are invited.

Thursday Morning Breakfast-Micheal's Restaurant in the  
Safeway Shopping Center, Prescott Valley. 8:00am. All  
are invited.

**SOME CARTOONS COURTESY OF  
WORLD RADIO™ MAGAZINE**

(A GREAT PUBLICATION-CHECK IT OUT!)

**YAVAPAI AMATEUR RADIO CLUB**

PO BOX 11994

PRESCOTT, AZ 86304

**WISHING ALL A HAPPY HOLIDAY SEASON!**



12/17/98 1900 PAID MY DUES  
\$12.00

BROWNIES, WHITE CAKE(2),  
COOKIES, DONUT HOLES. ROOT  
BEER, DR. PEPPER. \$18.47

HISTORY: "SHACK"  
PICTURE of the site. BRIEF  
BIOGRAPHY, LICENSE COLL CHANCES, CRABE,  
ETC.

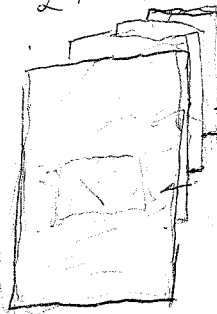
FEB 214 SAT 25V  
13, WORKPARTY AT SHARLOT HALL  
10-2 or 8 -  
AZ BIRTHDAY - STATION for HLOS

1955

911 AM HOW IT WORKS

- SERIOUS MEDICAL PROB
- FIRES
- CRIME IN PROGRESS
- ACCIDENT

2 people on duty 24 H/Day



60 files

each with an address

FRONT

FRONT

1 file Pg 1

1 file REST of Pg 2 BACKSIDE