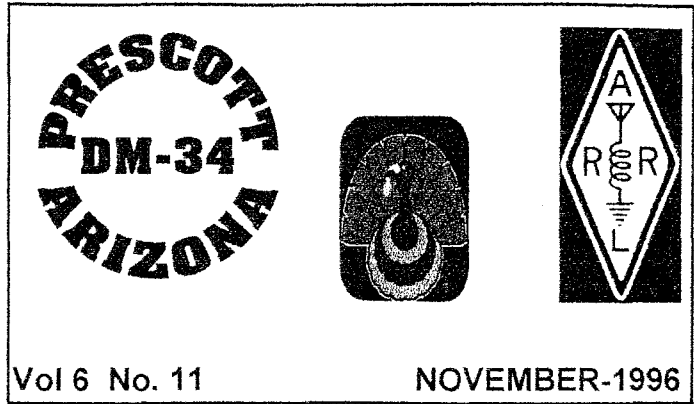


11/21/96 1900-
WAV 12.50



NOV

It's simply amazing what statistics can provide. Another check of the Amateur Radio database for the Prescott, Prescott Valley, Chino Valley, Dewey, and Mayer

and surrounding areas indicates that there are now nearly around 500 amateurs living here. Taking into consideration that some may be silent keys whose licenses are still active, and others may just not be active, it still leaves quite a number. With the club having an active membership of around 75, where are all these other hams? Perhaps we should have a membership drive? How about a member referral where the referring member gets something for signing up a new member? Food for thought!

Another item that has been tossed around is the weekly YARC NET on Wednesday nights. With more members checking in, it has been suggested that we change the format to a directed net, where initially stations are called for check-ins, then comments can be made on the 2nd round. There is sometimes a lot of chaos when 3,4, or 5 stations are all trying to check in at the same time. A list can be used to call stations, which could be derived from the previous weeks check-ins. Any comments on this matter would be welcome and appreciated.

Bob Tilman-K7CJW sent the following note:

The National Weather Service has put a NOAA radio on Mingus Mountain. It's working on a frequency of 162.525 Mhz, and is operated out of the Flagstaff weather office in Bellemont. They would like reports on how you hear the transmitter and where you live. These reports are to be used to make up an area of coverage for the transmitter. Send your report to:

National Weather Service
PO Box 16057
Bellemont AZ 86015

Put it in your scanner and listen to it a few times!

73, Bob

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FROM THE MAILBAG

The following letter was received and is worth printing:

"Though I didn't see him there, I urge our secretary to get off a note to the Rally people for the fine food and festivities at their open house held Saturday, October 19th, at the Central Arizona Auto Tech. It was a generous display and by no means a small effort. I for one appreciate their acknowledgment or our participation in the Rally. And that's more than I can say for the coverage by our local newspaper.

Frank Horneff, WA6JBV"

Thanks, Frank. I'm sure this will be taken care of! Ed.



UPCOMING EVENTS. Many Club

members participate in local events providing communications for local events. It's an excellent opportunity for members to get out and test your portable operating capability and have some fun at the same time. As these events near, announcements will be made on the Wednesday night NET and in the newsletter.

OTHER UPCOMING EVENTS OF INTEREST

- November 23-24 ARRL EME Contest
- December 7 Superstition ARC ARRL Hamfest-Mesa Community College, Dobson & Southern. Info-Rick Checketts, KA0KZB (602)898-9158
- December 6-8 ARRL 160-Meter Contest. See QST.
- December 14-15 ARRL 10-Meter Contest. Work anyone-anywhere! More info see QST
- February 10, 1997 ARRL VE Testing. Center for the Blind. 10:00 AM. All license classes to be given



OCTOBER Meeting. The October 17, 1996 meeting was called to order at 7:02pm by President Matt Strandberg-KJ7DX.

Several visitors were introduced: Bill-N1MUZ, Dave-K6UWV, Hugh-WA3ELA, and Sandy-W0KKC.

Bill Jackson-W6HDP announced that the joint QCWA/SOWP meeting-dinner will be held in Phoenix on 12/7/96, and that you don't have to be a member to attend. Everyone is welcome.

The minutes of the September meeting were read by Bob Rosevear-WB7RRQ, and Club Treasurer Judy Rosevear-KC7MTY reported that the club has \$727.01 and the refreshment fund has \$60.00.

Under Old Business, Terry Pemberton-KB7TRE announced that he is still open for orders for club jackets, for \$29.02 or \$35.50, depending on the style.

??? announced that the new NOAA Weather radio station is up and running on Mingus Mtn. on 162.450 Mhz. (Note: It has changed to 162.525 now)

Under new business, President Strandberg announced the formation of a nominating committee for the upcoming election of club officers for 1997. Since there were few takers, it was determined that the committee would consist of the present officers, along with Terry-KB7TRE and Dave-K6UWV.

Bruce Jaeger-KC7NVN requested help with the 39th Annual JOTA-Jamboree On The Air-which is a cooperative effort with the Boy Scouts and Amateur Radio. They will be on Spruce Mtn. and requested someone to assist with operation of the radios.

After the refreshment break, there were 2 names drawn with Bill-N1MUZ winning the 50/50 raffle for \$15.00 and Bob (???) winning a \$10.00 gift certificate for Castle Golf.

The evenings program was given by Jim Lyall from ERAU(Embry Riddle Aeronautical University). Jim is an associate professor of Engineering and Electronics and graduated from Kansas University. He previously worked for King Radio for 10 years, specializing in avionics design. He spoke about the many programs that are given at ERAU, and the relationship they have with most of the focus on avionics, design, DME, etc. There are nearly 1400 students at ERAU's Prescott campus and another 4000 in Florida. ERAU also operates 40 aircraft from the Prescott Airport. We thank

Jim for his time and if anyone would like to contact him, send e-mail to LYALL@PR.ERAU.EDU

There being no further business, the meeting was closed at 8:30pm.

We would like to thank Terry, KB7TRE for providing the meeting place for the club at the Granite Mountain Middle School. Speaking of Terry, the Prescott Courier recently ran a good story of his 26 years of teaching technology in the Prescott USD and his 21 years at Granite Mountain Middle School. Way to go Terry!



MEETING PROGRAMS.

HELP! If you would like to make a presentation to the club, please contact Bob Kane-K7KOL the program chairman.



THE NEWSLETTER.

If any of you have anything within the scope of the hobby or closely related subjects worth sharing, let us know. The deadline is the Friday before the monthly meeting. Submission by FAX/MODEM is possible and very easy! Updated club membership rosters will be included periodically.



Club officers for 1996 are:

- President - Matt Strandberg KJ7DX
- Vice President - Dave Luteyn N6WSZ
- Secretary - Bob Rosevear-WB7RRQ
- Treasurer - Judy Rosevear KC7MTY
- Board Member-Past President - Jerry Sager KG7ZF
- Board Members - Bob Rosevear WB7RRQ, Terry Pemberton KB7TRE, and Frank Horneff WA6JBV



Several club members also function in capacities that serve to benefit the club, the membership and the community.

They are as follows:

- Emergency Services Coordinator: Matt-KJ7DX
- Greeter: Jerry Sager-KG7ZF
- Membership Services: Bob Rosevear-WB7RRQ and Terry Pemberton-KB7TRE
- Newsletter: John Wilson-KM6BF Editor & Publisher
- NET Control: Dale Leslie-N7XFD
- Refreshments: Matt Strandberg-KJ7DX
- Programs & Entertainment: Bob Kane-K7KOL
- Publicity: Judy Rosevear-KC7MTY
- Training & Technology: Vern Gregory-AB7DY
- Volunteer Examiner Testing: John-KM6BF and Dave-W9KRQ

KB7NF RECOVERING Keith Broyles-KB7NF, a Prescott resident, local long time ham, good friend, and regular to the Wednesday morning breakfast in Chino Valley is recovering after suffering a stroke Earlier this month. We wish Keith a speedy recovery. Get well wishes can be sent to Keith through Jerry Sager-KG7ZF.



PRESIDENTS CORNER

by Matt Strandberg-KJ7DX

From the local KB7FRV Packet BBS, the following posting was extracted and kind of interesting.

HIRED HACKER

And finally, what do you do when you lock yourself out of your computer and can't remember your password? Hire a computer hacker of coarse. That's what a California school district did a few weeks ago, and repercussion are being heard statewide.

It seems that students at Palisades Park High School needed transcripts to send off with college applications, but they were all in the school computer and nobody who knew the password could be reached. The school principal was away on vacation and could not be reached. Another employee had suffered a stroke and everyone else was either on vacation or away working at other jobs.

So the school superintendent apparently gave the green light to hire a hacker. But not just any hacker. The person hired was a sixteen year old who was able to break the secret code and get the needed transcripts out. And he did not work for free. After he completed his mission he billed the school system \$875 based on a fee of \$25 an hour.

Right now school officials are still trying to justify the expense to the school board. That could go on for some time. But it should make us all ask the question of who says that there is no entrepreneurial spirit left in today's youth?

73, Matt-KJ7DX



From the FAQ (Frequently Asked Questions) files



When should I use a repeater -or- when should I use simplex?

This question today seems to have eluded many amateur operators. Listening to area repeaters would give one the impression that many operators don't even know what simplex is, let alone when or how to use it.

Simplex was in use long before repeaters were invented. Repeaters greatly extend to usable range of radio signals. As a rule of thumb, if you can hear the other party on the repeater input, you should be able to talk on simplex without tying up the repeater.

The National Simplex Frequencies were intended as a monitoring frequency to make contacts. Once a contact was made, the parties switched to another simplex frequency. Today, however, you will hear many conversations on the National Simplex Frequencies, tying them up for hours. Another problem is Cross-Banding. With today's technology, many dual and tri band radios have that capability. However, some operators have chosen to use National Simplex Frequencies on 2m or 440, tying them up for hours re-transmitting the signal of a repeater.

According to bandplans, designated simplex frequencies are for point-to-point contacts, and a few have additional designations. They may vary from state to state by coordinators, but by band for FM generally are as follows:

50.030	51.500-51.600	52.510
52.525**	52.540	
146.400	146.420	146.440
146.460*	146.480	146.500
146.520**	146.540	146.560
146.580	147.400	147.420
147.440	147.460	147.480
147.500	147.520	147.540
147.560	147.580	
223.400	223.420	223.440
223.460*	223.480	223.500**
223.520 - 223.640#		

441.000 441.025 441.500
 446.000** 446.025 446.000*
 446.500

Packet Option
 *Remote Bases
 **National Simplex Frequency

Next time your friend calls you on the repeater, switch to the repeater input (reverse). If you can hear him or her, you should be able to have just as good a conversation on simplex.

PAST PRESIDENTS FORUM....

THE DX, ER

HE TUNED UP HIS STATION
 TO WORK SOME DX
 AND WAS READY, AS READY COULD BE.

WITH KNOWING FINGERS
 SO NIMBLE AND QUICK
 A MASTER WHEN USING HIS KEY.

WHEN DEEP IN THE NIGHT
 AND ALL OTHERS SLEEPING
 A FADING SIGNAL CAME THROUGH.

SO HE PLAYED WITH HIS FILTERS.
 AND TURNED UP THE JUICE
 GOD KNOWS HE KNEW WHAT TO DO.

PLEASE HERE ME OM
 YOU'RE MY VERY LAST CHANCE.
 SHE'S GOING DOWN IN A BLOW.

I'VE LOST MY MATE
 OFF THE COAST OF NEW ENGLAND.
 HOW LONG I HOLD-HER, I JUST DON'T KNOW.

THROUGH QSB AND QRN
 HE COPIED LIKE ONLY HE CAN.

KNOWING EVERY LETTER
 AND EVERY LAST DIT
 WERE NEEDED TO SAVE THIS MAN.

DIT DA DIT, DIT DA DIT
 HE MADE THE KEY SING
 I'VE GOT IT! DON'T GIVE UP THE GHOST.

I'LL GET ON THE LAND LINE
 AND CALL UP THE COAST GUARD
 AND SOON YOU'LL BE SAFE AND WE'LL TOAST.


SHE'S WALLOWING BADLY
 AND STARTING TO FLOUNDER
 I FEAR IT MIGHT BE TOO LATE.

TELL MY WIFE THAT I LOVE HER
 ALL MY LOVE TO THE CHILDREN
 SHE'S SINKING FAST, I CAN'T WAIT.


AND TNX YOU MY FRIEND
 FOR TRYING YOUR BEST
 SEEMS I'M DESTINED TO BE LOST AT SEA.

THE SIGNAL WAS CRACKING
 AS HE GAVE HIS CALL SIGN
 LAST HEARD WAS 73.

73 TO ALL Charlie Brown



ARRL VEC



VE TESTING.

The last test session for 1996 was held on Saturday, November 9, and there were 31 elements administered to 16 candidates with a 74% passing rate which netted 4 new No-Code Tech's, 2 Tech+, 2 General and 2 Advanced upgrades.

The tentative schedule for 1997 testing will be (all Saturday's) February 8, May 10, August 9, and November 8. Special test sessions may be accommodated according to demands, as needed. The test fees for 1996 are \$6.05. Further information can be obtained by contacting John Wilson-KM6BF at 636-1228 or Dave Rutledge-W9KRQ at 772-8539.

YOUR LOCAL PRESCOTT AREA VE's

AB7DY Vern Gregory	AB7KE Joan Tremper
AB7KF Bob Nichols	AB7KN Mary Miraldi
K7KOL Bob Kane	KA7NGK Don Broadston
KB7FRV Leonard Beers	KC7AGL Don Muller
KC7HAV Ginger LeGendre	KC7KRM Billy Peters
KG7OL David Miller	KI7EB Bill Thrift
KI7MA John Dawson	KJ7KL Pen Brown
KM6BF John Wilson	W2YAV Bill Kafka
W6HDP Bill Jackson	W9KRQ Dave Rutledge
WA6QQO Jim Perrone	WF7J Walt Loesche



PACKET RACKET.

Leonard Beers (KB7FRV) has a unique telephone access system for packet serving the local area. If you are interested in gaining access to his system, give Leonard a call at 445-1841.

"I FOUND THIS ARTICLE ON THE INTERNET. I THOUGHT YOU MIGHT USE IT IN YOUR CLUB NEWS LETTER. BE SURE TO GIVE CREDIT TO THE AUTHOR." 73, DE LEONARD-KB7FRV

Gentlemen,

I read your comment about grounding of computers. I agree partially that there often is noise or trash on the (continued on page 5).....

third wire ground, but simply adding a separate earth ground rod or other source of low impedance ground can cause other problems.

First of all, it is contrary to the National Electric Code, and for good reason. Suppose the impedance of your home's electrical system ground is 25 ohms (not an unreasonable resistance in many homes) and you add a separate ground attached to your computer chassis that is, say, 5 ohms. Since the computer chassis is attached to both grounds, one through the power cord's third wire and the other through the chassis, the computer then becomes the source of ground (least resistance) for the whole house and any disturbance from any appliance in the house gets induced into the computer ground and hence into the power wiring by proximity of adjacent conductors. Inadequate or different impedance grounds also causes glitches in remote devices such as printers or remote terminals that are hooked only to the line ground. This can often happen when new construction adds new wiring and better (sometimes worse) grounds than in the older part of the building where the remote terminal or printer is situated. If you have a remote terminal on a network that is attached by copper and not fiber optic cable and are experiencing hangs or glitches on power flickers, I would look closely at grounds of different impedance causing induced voltages into data lines. It only takes a very few volts to send garbage down the line.

The reason the separate chassis ground is not allowed by the NEC is that in case of a short to ground anywhere in the house, the chassis becomes "hot" with respect to the third wire if you were to momentarily loosen the ground and have it in your hand. At best, even if you don't loosen the wire, the little #16 AWG ground wire can be called on to handle many hundreds of amps surge current in the case of a nearby lightning strike, so the additional ground can actually CAUSE severe problems instead of solving them.

The solution if you have a noisy or poor ground is fairly simple in the home environment (sometimes). Drive a good low impedance ground rod ten feet or more or attach to a good copper water pipe ground if you are sure that your water supply line to the house is metal and not plastic. Attach a heavy #10 AWG or bigger copper wire to the computer and then run another #10 or larger wire back to the circuit breaker entrance panel and add the additional ground wire to the existing ground bus. **MAKE SURE YOU SWITCH THE MAIN BREAKER OFF BEFORE YOU START MESSING WITH GROUND BONDS !** If you are not comfortable with this,


or you are in an office environment, contact a licensed electrician to do this.

When you do this you have made the whole house ground system better. Many times the noisy ground problem can be fixed with just a good low impedance ground to the entrance panel without the need for the additional ground on the computer chassis, but the main caution is make sure everything is at the same ground potential!


Good computing! M.P. "Pat" Haynes-K4BEH



SATELLITE
COMMUNICATIONS NO REPORT THIS MONTH



ATTENTION ARRL MEMBERS. The YARC is an ARRL affiliated club. If you are a YARC member and your ARRL dues are coming up, you can submit your renewal through the club and we get to keep a couple of bucks. Send your ARRL renewals to the club treasurer with your check made payable to the Yavapai Amateur Radio Club.



CLUB REPEATER. The local 2-Meter repeater on 147.040(+) 100.0 PL, is the official adopted repeater for the YARC. Many thanks to Bill Kafka-W2YAV for the upkeep and use of the repeater.



FROM CHINO BOB

Women's faults are many; Men have but two
Everything they say and everything they do.

Patience is the ability to idle your motor when you feel like stripping the gears.

Don't tell me that worry doesn't do any good. I know better. The things I worry about don't happen!

73 to all - Bob, K7CJW

Quote for the month: "Activity back of a very small idea will produce more than inactivity and the planning of genius." James A. Worsham



AREA REPEATERS

Several area repeaters are accessible from the Tri-City area:

Mt. Union(-500khz)	52.560- 100.0pl Bypass
Wildflower Mtn	145.350-
Towers Mtn	145.370-
Squaw Pk. (Camp Verde)	145.470- 94.8pl
	(linked to Phoenix)
Bill Williams Mtn	146.780- 91.5pl
Mt. Francis(Prescott)	146.880- 100.0pl
Flagstaff	146.980- 100.0pl
Mingus Mtn.	147.000+ 100.0pl
Prescott	147.040+ 100.0pl
Mt. Eldon-Flagstaff	147.140+ 162.2pl
	(Linked to 147.360+ Mt. Ord)
Mingus Mtn.	147.220+
Mt. Francis(Prescott)	223.960- 127.3pl
Mingus Mtn.(NorthLink)	442.150+ 100.0pl
Towers Mtn.	448.575-
Towers Mtn.(NorthLink)	449.175- 100.0pl

With a higher power base station and a good antenna, many of you may also be able to access these other repeaters, out of the area:

Phoenix	53.010- 136.5pl
Greens Pk.(-1 Mhz)	53.410- 100.0pl
Mt. Ord	146.660-
Smith Pk(ARA)	146.680- 162.2pl
White Tanks(ZIA)	146.700- 162.2pl
Kingman	146.760- 131.8pl
Mt. Ord(ARA)	146.920- 162.2pl
	(linked to 147.240+ Phoenix)
White Tanks(ARA)	146.940- 162.2pl
Grand Canyon	147.320+
Mt. Ord	147.360+ 162.2pl
	(linked to 147.140+ Flagstaff)
Kingman(CONDOR)	224.880- 156.7pl
	(linked to many sites in Calif.)
White Tanks(ARA)	441.725+ 162.2pl
Mt. Ord (ARA)	444.500+
Mt. Eldon(Flagstaff)	448.475- 100.0pl
Mt. Eldon(Flagstaff)	448.875- 100.0pl
	(Northlink)



SAY WHAT?

FROM THE "I CAN'T BELIEVE I HEARD IT ON AMATEUR RADIO" files:

(If you have any more, send 'em in and we'll print 'em!)

Every once in a while, we hear something so precious, we have to share it with others:

"The power was out here at my house. How was the repeater still working?"

"I left my HT in the charger for 3 days, but the battery still only lasted for about 4 hours!"

"Why don't the police have 2-meters in their cars so we can talk to them?"

"My wife want's one of those 'Cellulite Phones' in the car."

"My radio really gets hot when I use it. I guess I need a bigger power supply!"

"Somebody said my signal was really noisy. I don't hear anything on this end."

"My neighborhood has antenna restrictions, so I told them it was a lightning rod."

"Can I convert my garage door opener to operate on 2-meters?"

"Why aren't there repeaters on 40 or 75 meters?"

"My HT doesn't work very well from inside this truck. I guess the repeater needs more power."

"How come Radio Shack doesn't give ham tests?"

"Those guys must have been on simplex, I didn't hear that repeater sound!"

"I'm going to switch to Simplex U.S.A."

Bob: "You're signal isn't very good."

Jim: "I guess I need to adjust my SWR!"



ARES NET. The Prescott Area ARES NET is conducted every Wednesday night after the YARC NET on the 147.040+ repeater. A PL tone of 100.0 Hz is needed. If you don't have PL, transmit on 147.040 simplex, after the repeater drops out. For further information about ARES, contact Lloyd, WA6ZZJ.



NEWS of INTEREST

by Pen Brown-KJ7KL and Jerry Brandt-KB7YVX

20 THOUGHTS TO GET YOU THROUGH THE DAY!

1. Indecision is the key to flexibility.
2. There is absolutely no substitute for a genuine lack of preparation.
3. Nostalgia isn't what it used to be.
4. Happiness is merely the remission of pain.
5. You can't tell which way the train went by looking at the track.
6. Sometimes too much to drink is not enough.
7. The facts, although interesting, are irrelevant.
8. The careful application of terror is also a form of communication.

Someone who thinks logically is a nice contrast to the real world.

10. Things are more like they are today that they ever were before.
11. Anything worth fighting for is worth fighting dirty for.
12. Everything should be made as simple as possible, but no simpler.
13. Friends may come and go, but enemies accumulate.
14. I have seen the truth, and it makes no sense.
15. All things being equal, fat people use more soap.
16. Never mud wrestle with a pig. You both get dirty, and the pig likes it.
17. In a world of insane people, only the sane person appears insane.
18. One seventh of you life is spent on Mondays.
19. You can't have a rational argument with an irrational person.

20. The more you run over a dead cat, the flatter it gets.

(AUTHOR UNKNOWN)



A Hillbilly Repeater

Anxious to see our relatives in Western North Carolina again, we timed our visit to coincide with the Western Carolina ARS Hamfest scheduled for the last Saturday in July near Waynesville, N.C.

As we drove through the mountains surrounding Asheville, N.C., we were treated to an unforgettable country chuckle while listening to one of the Asheville Repeaters.

An obviously young voice of a visiting Ham keyed up the Repeater and posed the question: "Say, what does T.G.I.F. mean, anyway?" Without hesitation, the response came from a seasoned, local country gentleman, who informed the young man:

"...Well, around here, it means Toes-Go-In-First. The local Hams who use this Repeater have taken on the responsibility of teaching our country folks how to put their shoes on properly. After all, this is a Hillbilly Repeater..."

NEW ARRL AUDIO-VISUAL LIBRARY PLAN

The ARRL's Educational Activities Department is changing the way its audio-visual system works. Instead of borrowing tapes from league headquarters, affiliated clubs can now order videotapes to keep for just \$12 each. Each of the eight available videos contains 2 to 4 programs, or about two hours of programming per tape. The League says that this will permit clubs to build a video library that can be used whenever a club wants, and doing so at very little cost. In fact, the League says that the \$12 fee is its cost for duplicating, shipping, and handling.

For complete information about what is on the tapes and how to order them, send a self-addressed stamped envelope, with the notation "New AV System," to:

ARRL-Educational Activities Department
225 Main Street
Newington, Connecticut 06111



DON'T FORGET!

WEEKLY NET - WEDNESDAY NIGHTS

@ 7:00 PM 147.040+ (100.0 PL) IF YOU DON'T HAVE PL, TRANSMIT ON 147.040 SIMPLEX AFTER THE REPEATER DROPS OUT.

MONTHLY MEETING - 3rd THURSDAY

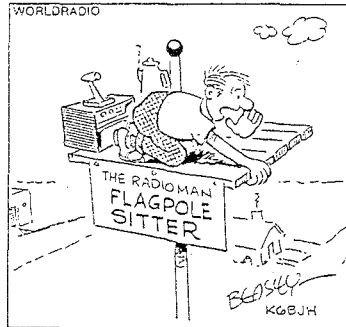
@ GRANITE MTN MIDDLE SCHOOL 7:00PM
NEXT MEETING THURS DECEMBER 19, 1996, 7:00pm



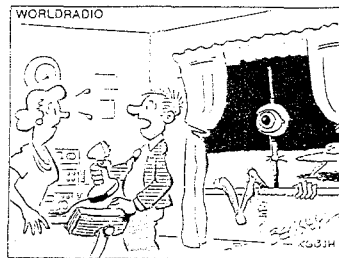
Wednesday Morning Breakfast-Iron Horse Cafe in Chino Valley. 7:00am. Informal-All are invited. Come and see Lloyd-N7QZQ's professional approach to pouring coffee for everyone. Lloyd says, "I love the attention!"

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

CARTOONS COURTESY OF
WORLD RADIO™ MAGAZINE



HEY MYRTLE, WILL YOU RUN HOME AND GET MY ANTENNA HANDBOOK--- I WANT TO SEE WHAT HAPPENS WHEN I LOAD A FLAGPOLE FROM THE TOPSIDE



SOME GUY JUST CALLED AND SAID, HE'D LIKE TO HAVE AN EYEBALL OSO WITH ME?

YAVAPAI AMATEUR RADIO CLUB
PO BOX 11994
PRESCOTT AZ 86301



EVERYONE HAVE A HAPPY THANKSGIVING!