

PRESCOTT, ARIZONA

PRESCOTT
DM-34
ARIZONA



Vol. 7 - No. 9

SEPTEMBER-1997

THE YAVAPAI SIGNAL

Sent

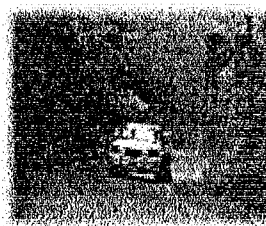
AMATEUR RADIO AWARENESS DAY IS SEPTEMBER 20

September 20 marks Amateur Radio's annual Awareness Day event, a special opportunity for you to raise public awareness about Amateur Radio in your community.

Typical Awareness Day activities have included demonstrations, talks to school groups and working with local news representatives to publicize the day on TV, radio or in a local newspaper. Have an idea that's a bit out of the ordinary? Give it a shot! Anything you can do to positively promote our hobby and our service is what Awareness Day is all about.

Contact ARRL's Media Relations Manager Jennifer Gagne, N1TDY, for your publicity kit today! Call 860-594-0328 or e-mail jgagne@arrl.org. Check out <http://www.arrl.org/pio/> for Awareness Day materials and other information that can help you promote Amateur Radio all year long. — Jennifer Gagne, N1TDY
(From The ARRL's ARRL Letter of 9/12/97)

Just another example of what the ARRL can do for the hobby. Maybe a little late for this year, but it's not too late to plan for next year. Things like this need to be planned long in advance. Maybe we need a long-term planning committee? Any Volunteers?



NO Rally
REAL CARS...
REAL ROADS...
REAL PARTS!

PRESCOTT FOREST ROAD RALLY

This year, the race will be held on Friday night October 4, and Saturday afternoon and evening October 5. On Friday night, the cars will leave the Prescottonian Motel area at 7 PM. for the start of Stage 1 which is scheduled to begin at 8:02 PM. This means we will need to be in place by 6 PM.

On Saturday, the cars will leave the Prescottonian area at 1 PM, starting Stage 5 at 2:17 PM. The help for stages 5 and 6 need to be in place by 12:15 PM. Stages 7 and 8 need to be in position by 1:30 PM. For Stage 9, the last stage, we will need to be in place by 5:00 PM.

Several of us have done testing along the various stage routes, and everything looks good for communications. If you have not signed up yet, or have not received your assignment yet, please contact me as soon as possible.

Suggestions on what to bring.

It will be dark (no moon!) during the night, so a good flashlight will necessary. Remember also to have fresh batteries and some extras!

Other helpful necessities:

- Your radios-5 watts or more! HT's may not be sufficient on some of the stages.
- Good Antenna
- Paper
- Pencil(s)

- Clipboard
- Food (You might get hungry)
- Water
- Sunscreen (For daytime stages)
- Hat
- Garbage Bag
- Folding Chair
- Jacket (It may cool down at night!)
- Instructions
- Bring a friend!

Thanks to all of you who have signed up for this event. It's a lot of fun, and remember, without us for communications-they can't race!

If you have any questions, please contact me.



Bob Tilman, K7CJW



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

- ✓ September 20 9th Annual ARRL Amateur Radio Awareness Day
- ✓ September 20-Special Event Station: Westside ARC. W6ARC 1900-2300 UTC. Founding of Santa Monica. 14.260 Mhz QSL to Westside ARC Box 11092 Marina del Rey CA 90295
- ✓ October 4-5 ARRL Simulated Emergency Test (SET) See August, 97 QST for details
- ✓ October 4-5 California QSO Party. See QST for info.
- ✓ October 12 Tucson ARRL Swapfest hosted by the Old Pueblo ARC at the DeAnza Drive-In, 22nd & Alvermon. T/1 146.820- For more info, call (520)296-4182



August Meeting. The meeting was called to order by Bob Kane-K7KOL, President, at 7:02PM. Visitors were Gene Keeck-KB7RYT, Jeff Kendrick, Larry Davis-N0HUM, Elnora Davis-KB6LSL, Glen Floerchinger-N7LYV, and Jim Riddle.

The minutes of the July meeting were read by Bob Rosevear-WB7RRQ, Secretary and were accepted as read. The treasurers report was given by Judy Rosevear-KC7MTY. The bank balance as of July 31 is \$173.22 and the refreshment funds has \$124.25.

A presentation of a plaque was given to Dale Leslie-N7XFD by Bob Kane for Dale's hard work in running the Wednesday night net.

OLD BUSINESS. Bill Kafka-W2YAV asked about the bank balance and why it was so low. The treasurer reported that the liability insurance was paid for the year and the wiring for the SAREX project was also paid. Extra costs per month results from postage and printing. Copy of the treasurers report will be printed up and passed out at the September meeting.

NEW BUSINESS. Discussion regarding tower installations in area took place. Glen Dechert-W6KNX will be attending the area meetings and will keep the club informed. The meeting adjourned at 7:23 for refreshments, monthly drawing, and guest speaker. The drawing of \$18.00 was won by Frank Horneff-WA6JBV, and the drawings for 2 more antennas were won by Ginger LeGendre-AB7SK and Bob Rosevear.

The guest speaker for the evening was Jeff Kendrick regarding the Road Rally in October, Bob Tilman-K7CJW helped Jeff in the presentation.

Respectfully submitted by Bob Rosevear, Secretary.



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. Send articles to km6bf@primenet.com



Club officers for 1997 are:

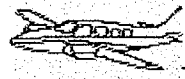
President - Bob Kane-K7KOL
 Vice President - Lloyd Halgunseth-WA6ZZJ
 Secretary - Bob Rosevear-WB7RRQ
 Treasurer - Judy Rosevear-KC7MTY
 Board Member-Past President - Matt Strandberg-KJ7DX
 Board Members - Bob Rosevear WB7RRQ, Terry Pemberton KB7TRE,
 Jerry Sager-KG7ZF and Frank Homeff WA6JBV



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: Lloyd Helgunseth-WA6ZZJ
 Greeter: Jerry Sager-KG7ZF
 Membership Services: Bob Rosevear-WB7RRQ and Terry Pemberton-KB7TRE
 Newsletter: John-KM6BF Editor & Publisher
 NET Control: Dale-N7XFD
 Refreshments: David Passel-K6UWV
 Programs & Entertainment: Bob Kane-K7KOL
 Publicity: Judy Rosevear-KC7MTY
 Training & Technology: Vern Gregory-N7VG
 Volunteer Examiner Testing: John-KM6BF and Dave-W9KRO

Embry Riddle ARC Gets Off the Ground!



The Embry-Riddle Amateur Radio Club is off and running. The first meeting was held at ERAU on Thursday, 9/18/97. After this meeting the regular dates will be the second Thursday of each month. So far we have 21 people signed up, 2 of which are KC4JTR and KC7UNK. Two others also have their licenses, and more want to get their license. The equipment we have has either been donated or borrowed. At this time we have a Yeasu FT-990 all mode HF rig, a Kenwood TM-732 2m/440 Dual Band, Kenwood TS-120S HF, MFJ tuner, Tri-band Yagi beam, and a Packet TNC. We should give Juan Seagal (KC4JTR) a pat on the back for getting the club going.

The club got off to a start when a space opened up in the communications lab on campus. The lab, and station, is located in the King Engineering Center. I will give updates in future articles. Everybody is welcome to our meetings and help with the training and demonstration of the equipment. The club will gratefully accept donations of equipment and money. We thank all of you out there that are supporting the club.

73, KC7UNK, Kris (bearsck@pr.erau.edu)



CLUB REPEATER. The local 2-Meter repeater on 146.880- (100.0 PL), is the official adopted repeater for the YARC. If you don't have PL, transmit on 146.880 simplex after the repeater drops out. Many thanks to Bill Kafka-W2YAV for the upkeep and use of the repeater.



PRESIDENTS CORNER

An old Chinese proverb says:

A peasant must stand a long time on a hillside with his mouth open before a road dick flies in.

At the August 6 VE session, I witnessed some friends catching their "roast duck" in the form of license up-grades because they didn't stand on a hillside; they worked hard for those up-grades. I'm happy for their achievement. Well done!

Neither is our club standing on a hillside. Our roast duck comes in the form of well done marathons and SAREX projects; well done ham classes at the blind center and the middle school, and well done representation in the ARES, RACES, NTS, VA nets. This club enjoys roast duck in many different recipes because we have people who don't stand around and wait for things to happen. They work hard to make things happen.

A recent letter from the TONTO Amateur Radio Association in Payson lamented the difficulty in attracting help to run the club and that their newsletter "TARA TALK" was in danger of being discontinued for lack of volunteer help. Reading a premature eulogy for a ham club not too far from us makes me appreciate even more all of the "can do" attitude and wealth of ideas that we generate.

This peasant finds our roast duck very succulent, indeed!

You think you may have heard some pretty silly things on amateur radio? Get a load of these jewels from the want ads:

- Illiterate? Write for help
- Dog For Sale. Eats anything and is fond of children.

- For Sale. Antique desk suitable for lady with thick legs and large drawers.
- Man wanted to work in dynamite factory, must be willing to travel.
- Tired of cleaning yourself? Let me do it!
- And now, the superstore-unequaled in size, unmatched in variety, unrivaled in inconvenience.

73, Bob-K7KOL



From the FAQ (Frequently Asked

Questions) files



FREQUENTLY ASKED QUESTIONS ABOUT SAREX

HOW DO I OBTAIN A SAREX QSL CARD?

QSL cards are similar to postcards. Hams exchange QSL cards to confirm their radio contacts with other stations.

Participating in the Shuttle Amateur Radio EXperiment can be an exhilarating experience. But, as many hams know, waiting for that coveted QSL card requires a lot of patience. Designing a card for the ultimate DX-pedition can be a lengthy process. Here's a behind-the-scenes glance at producing a SAREX QSL, and some tips to help you get your card.

After a SAREX mission, ARRL and the SAREX Working Group work with the crew members to select photos from that mission, and design and layout the QSL card. This may take a few months because of the busy schedule of the astronauts, among other things. Once the card is designed and printed, ARRL forwards the QSL cards to whichever Amateur Radio club is involved with the awesome task of managing the cards.

In the past, amateurs sent their contact and listener reports directly to the managing club. Now, all reports should be sent to ARRL.

In order for the managing process to run smoothly, please include the following information in your QSL or

report: shuttle flight number (STS-XX), date, time in UTC, frequency and mode (FM voice, packet, sstv or fstv). This documents the contact or listener report. In addition, you must also include a SASE using a large, business-sized envelope if you wish to receive a card. No cards are distributed without the proper postage affixed or sufficient IRCs included.

The following clubs have graciously volunteered their service for handling QSL cards for the following missions:

STS-74 Greater Norwalk Amateur Radio Club, Connecticut

STS-76 Nashoba Valley Amateur Radio Club, Massachusetts

STS-78 "The Net", Washington

STS-79 Bergen Amateur Radio Association, New Jersey

SAREX PATCHES. SAREX patches are available from AMSAT. These colorfully embroidered patches depict the cooperative effort between NASA, AMSAT and ARRL. They are available for a \$6 (US) donation, \$8 elsewhere. Donations garnered from this activity will go to support the SAREX activities provided by AMSAT. Mail your order to:

AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, MD 20910-4703
Phone (301) 589-6062
FAX (301) 608-3410
email martha@amsat.org

This information is provided by:
THE AMERICAN RADIO RELAY LEAGUE (ARRL)
Educational Activities Department (EAD)
225 Main Street Newington CT 06111-1494 USA
Telephone: (860) 594-0301 FAX: (860) 594-0259

PAST PRESIDENTS FORUM.....

You might live in the Silicon Valley Area if:

You make \$100,000 a year, yet still can't find a place to live.

Your commute time is 45 minutes and you live 8 miles away from work.

You've stopped asking how much things cost but, ask "How long will it take?"

Two-Thirds of the people you know are from Boston or New York, but you are living in PST.

You know vast differences between Thai, Vietnamese, Chinese, Japanese, Cantonese, and Korean food.

Your home computer contains mostly hardware/software that is not on the consumer market yet.

You go to "The City" on weekends but don't live there because you like your car.

Think that "I'm going to Fry's." is an acceptable excuse to leave the office for a while, and your boss does too.

You lost your alarm clock. You'll get to work when you get there.

You go to an industrial-heavy-metal bar and see two guys get into a fight over what flavor of UNIX is better.

You own more than 10 articles of clothing that have hardware/software companies printed on them. Bonus for embroidered stuff.

You know who Woz is.

You know who the "other" Steve Wozniak is.

You know 280 North runs West, and 680 North runs East.

Your preferred drink of choice at a social gathering is bottled water.

You believe that even though Microsoft employs quite a few programmers in the Bay Area, they only work on Powerpoint, and the company is still the embodiment of Satan.

You see a billboard that says "FGPA2ASIC" and aren't phased

When you need the updated Diamond Monster 3D drivers, you just walk across the street.

You have more bandwidth in your apartment or condo than most major universities.

You have to hire security to keep the panhandlers off your terrace.

None of the people you work with are bible thumpers.

You scan yard sales for back issues of "Dr. Dobbs."

Your favorite computer reseller speaks only Cantonese.

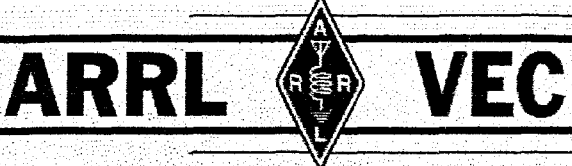
Your workplace vending machines dispense "100% natural twig-bars" right next to Jolt cola and Instant Espresso mix.

No one brings radios in to work - they just use RealAudio and listen to thedf.com, rebelradio.com, or other out of state stations on the company's T1 line.




73 to all, Matt-KJ7DX

QUOTE FOR THE MONTH: "One principal reason why men are so often useless is, that they divide and shift their attention among a multiplicity of objects and pursuits." Emmons



ARRL VEC



VE TESTING.

The last testing for 1997 will be (Saturday) November 8 at 10:00AM.

Special test sessions may be accommodated according to demands, as needed. The test fee for 1997 is \$6.25. 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

N7VG	Vern Gregory	AB7KE	Joan Tremper
AB7KF	Bob Nichols	AB7NK	Mary Miraldi
K7KOL	Bob Kane	KA7NGK	Don Broadston
KB7FRV	Leonard Beers	KC7AGL	Don Muller
AB7SK	Ginger LeGendre	KK7JH	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
W7HP	Jim Perrone	WF7J	Walt Loesche



ARES NET. The Prescott Area ARES NET is conducted every Wednesday night after the YARC NET on the 146.880- repeater. A PL tone of 100.0 Hz is needed. If you don't have PL, transmit on 146.880 simplex, after the repeater drops out. For further information about ARES, contact Lloyd, WAGZZJ



NEWS of INTEREST

by Pen Brown-KJ7KL and Jerry Brandt-KB7YVX

SURVEYS SHOW TECHNICIAN LICENSE MOST POPULAR

A survey of ARRL Volunteer Instructors shows that most teach between one and two classes a year and the vast majority of students obtain their Technician tickets. The survey revealed that classes average eight students. Graduates are 5% Novice, 88% Technician, 5% General, 1% Advanced, and 1% Extra.

Approximately 11% of the more than 2000 Volunteer Instructors responded to the survey. Of that group,

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90% reported they use Now You're Talking in their classes. The instructors said that 80% of their students join the ARRL.

In another survey, ARRL-Registered School Teachers reported that their students' favorite ham radio activities, by far, were HF DXing, taking part in licensing classes, radio club activities and VHF/UHF operating. The 108 teachers who returned their surveys (approximately 11% of the total) say they introduced nearly 8800 students to ham radio. The teachers said that about 60% of their licensing classes prepared youngsters for the Technician license and 40% for the Novice ticket. Most teachers said they use ARRL study materials.

Volunteer Instructors and ARRL-Registered School Teachers were polled last spring. The ARRL Educational Activities Department recently compiled the results of the two surveys. —Rosalie White, WA1STO

AZDEN LEAVING THE US HAM RADIO MARKET

A player in the US ham radio market since the 1970s, Azden is leaving the Amateur Radio business in this country as of August 31. A letter from Azden's Lew Reinberg, W2BIE, cited "the worldwide decline of the business" as the reason for the move. "We entered the US market through this office very late in the game and with older product," Reinberg's letter states. "The lack of growth of the end-user base made it impossible for us to spend the huge amount of capital necessary to design and tool up for a more advanced model."

Azden's pullout applies only to the US market. Azden Vice President Ken Bush said this week that Azden radios continue to be sold in Japan.

Among Azden's product lineup were similar FM mobile transceivers for several bands. The company also marketed some H-Ts and a headset. The company's remaining ham radio inventory has been sold to Amateur Electronic Supply (800-558-0411; <http://www.aesham.com>; e-mail help@aesham.com).

Reinberg said that while Azden will stop selling ham radio gear in the US, the company will continue to repair its radios at its Franklin Square, New York, headquarters "for the foreseeable future." Parts and manuals for Azden gear will continue to be available as well.

Sid Wolin, K2LJH, manager of Azden's Communications Division, reportedly plans to retire. Reinberg says he will remain at Azden's Franklin Square office to handle

customer questions and process service and repair orders.

For more information, call Azden at 516-328-7500; e-mail azdenus@aol.com; <http://www.azdencorp.com>.
(from the ARRL's ARRL Letter of 8/29/97)

MARCO - Second opinion on medical cw waivers

MARCO, the Medical Amateur Radio Council says that it can put an end to most abuses of the Morse code medical exemptions plaguing the United States ham radio licensing system. Ira Wexler, W3HEF, the president of MARCO is reported to have offered the groups assistance to help validate these medical exemptions by providing volunteer physicians to scrutinize these requests.

According to Wexler, at a recent MARCO meeting in San Francisco, there was considerable discussion of possible abuses of the medical exemption process. As a result, MARCO has offered to become a consultant to any VE team who would like to get a second opinion on a medical exemption request.

Wexler says that MARCO has the necessary volunteer physicians to investigate and evaluate all medical Morse exemption requests. It will be up to the FCC to decide if it wants such a service if or when MARCO files a formal rule making request.

(From NEWSLINE Via W5YI Report)

6-Meters or Not?

Still undecided about 6-meters? The N7NGM 52.560/52.060 6-meter repeater on Mt. Union is an open repeater and is linked to California via a link (only) site in Kingman to Barstow, Barstow to Mt. Frasier (near Gorman) and Contractors Point overlooking the San Fernando Valley. This is probably only one of a few linked systems exclusively using "in-band" linking. Mostly engineered by Dan O'Conner-N6BKL, it provides many of us with repeater operation on a band still considered by some to be almost foreign. Imagine using a local repeater here to talk to a mobile station driving up I-5 near Bakersfield! Now that 6-meter rigs are more affordable and available (Alinco has a great little 10w rig for around \$300.00), more are discovering it and enjoying a band that has a lot to offer. When the 6-meter band opens up, you can work simplex or repeaters around the country. The local repeater uses a 500 khz offset, and has a 100 hz squelch bypass for weak signals. Give it a try! We dare you!



AREA REPEATERS

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

- Mt. Union(-500khz) 52.560- 100.0pl Bypass
(Linked to California)
- 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 147.040+ 100.0pl
- Flagstaff 146.980- 100.0pl
- Mingus Mtn. 147.000+ 100.0pl
- Prescott 146.880- 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
(Linked to Kingman and California)

- Mingus Mtn.(NorthLink) 442.150+ 100.0pl
- Towers Mtn. 448.575-
- Towers Mtn.(NorthLink) 449.175- 100.0pl

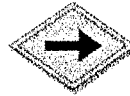
With a higher power base station and a good antenna, many of you may also be able to access these other repeaters, out of the area:

- 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. Eldon(Flagstaff) 448.475- 100.0pl
- Mt. Eldon(Flagstaff) 448.875- 100.0pl
(Northlink)

Please advise of any additions, deletions, or corrections. We would like to keep this current!



SAT 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. In some cases, the names have been changed to protect the inept.

"I had my radio off, but I was only listening!"

"I put my antenna in the attic so I wouldn't get hit by lightning."

"Packet is just really fast CW!"

"I can't hear you very good. Must be the voltage."

"All I have is an HT. I guess I should get a better job!"

"I didn't hear anybody all day. Then I discovered my antenna had been stolen!"

"Without that squelch control everybody would be real noisy."

"I'm running an omni-directional beam!"

"What's the front-to-back of that vertical?"

"I'd use simplex but I can't figure out how to turn off the shift."


"You get into that repeater better because you're using a different power configuration." (Huh?)

"Those old tube radios had better harmonics!"

"I use packet so everybody can't eavesdrop on my QSO's"




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



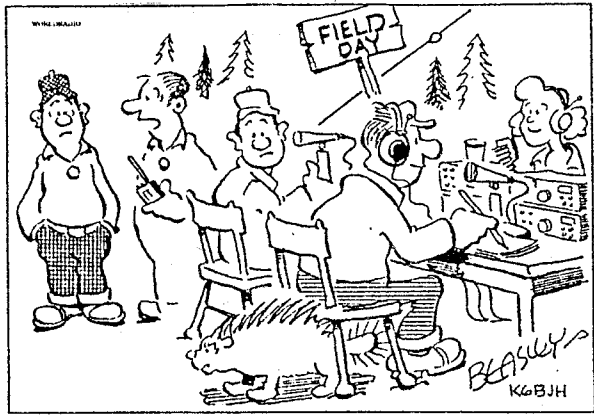
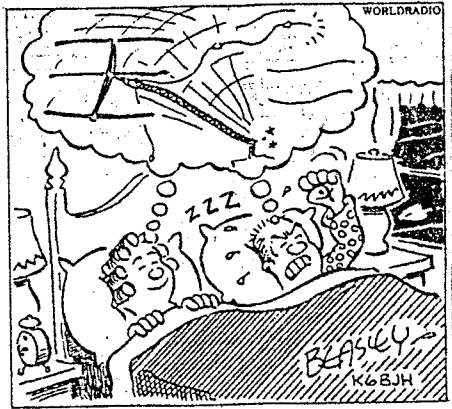
DON'T FORGET! WEEKLY NET - WEDNESDAY NIGHTS
 @ 7:00 PM 146.880- (100.0 PL) IF YOU DON'T HAVE
 PL. TRANSMIT ON 146.880 SIMPLEX WHEN THE
 REPEATER DROPS OUT.

MONTHLY MEETING - 3rd THURSDAY
 @ GRANITE MTN MIDDLE SCHOOL 7:00PM
 NEXT MEETING THURS. OCTOBER 16 @ 7:00pm



Wednesday Morning Breakfast-Iron
 Horse Cafe in Chino Valley. 7:00am. Informal-All are
 invited. Come and see Lloyd-N7OZQ pour coffee for
 everyone. Lloyd says, "I do pour coffee, but I don't do
 windows!"

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



JUST HANG IN THERE --- IF HE BACKS UP, YOU'LL GET
 A SHOT AT AN OPERATING POSITION

CARTOONS COURTESY OF
 WORLD RADIO™ MAGAZINE

YAVAPAI AMATEUR RADIO CLUB
 PO BOX 11994 (H + 3 weeks)
 PRESCOTT AZ 86301 18:40

DUES ARE DUE

(M2SAC - CUP of News (letter
 AFTER 2 MOS. PASS)

9/18/97 - 30 DONUTS, COOKIES, 24RB 12 ASST. \$20.25 coffee

45 IN ATTENDANCE
 Need more foam cups

1910 description of road race course 1930.

New Business

Towers & references postponed to Oct 1.

Now emergency

Simulated test of ARIES & RACES

KCTUNIA - ERAU RC - Sep 2

T-SHIRTS with LOGO \$7.75

POLY SHORT-SLEEVE WITH COLLAR \$15.00

New PDU - Those who can't make reports
 say "RELAY"

Motion to sell the COAX - John will handle

2015 Video on EL NINO (WEATHER CHANNEL) 2040

IF EL NINO HITS PRODUCE XMAS - MAKE BELIEVE YOUR GOING COMPING 4-50AYS

2040 HIDDEN DANGERS OF LOW-WATER CROSSINGS.

WATER WEIGHS
 62-4 LB/CU FT 500#/FT