

PRESCOTT, ARIZONA

Oct

The activity season is finally coming to an end. We all had a lot to do this summer with hamfests, walk-a-thons, the Road Rally, and of course vacations. From the activity standpoint, all is not lost. Soon

we'll all be glad to sit back at home and enjoy our hobby through the winter. For many, it will be an excellent time to learn some new aspect of Amateur Radio. Some will be getting into Packet for the first time, while others will be studying hard for that license upgrade. The HF bands should be good and that elusive DX may be there for you. Whatever your choice is, don't stand still-take advantage of the time. You might also want to do some "winterizing" by checking your antennas and feedlines and sealing any connections. Don't forget that "drip-loop" on the coax before it comes into your shack, so the rain doesn't follow it inside and get the floor wet!



### PRESCOTT ROAD RALLY

from Bob Tilman-K7CJW

It's all over now. All who said they could help were out there. Only 3 called to say they couldn't make it, and they called ahead of time. Only a couple had trouble finding their location, but I'll have to blame my self for not giving the best of instructions on how to get there.

The Race people had nothing but praise for our handling of the communications. One false start really scared the pants off an opening sweep car driver. After about a minute, they got it squared away-he had just pulled into place and had not taken off.

The winner was car #22, a Volvo. There were no roll-overs this year. One car went off into a wash on Stage 7. No one was hurt, but they had to stay there until the race was over. Several busted tires and one lost his alternator and finished Stage 8 with a flashlight.

PRESCOTT  
DM-34  
ARIZONA



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All of the Rally workers give you a "Big Thank You!" for all your help, and I say thank you for a fine job. If you have any comments - good or bad - pass them along, maybe we can do a better job next year.

NOW FOR THE PARTY! The Rally people are having an open house to show their appreciation to all the workers, and there's a lot of you. It's this Saturday the 19th, from 6:00 to 9:00 PM at the Central Arizona Auto Tech, behind Big A Auto Parts on Iron Springs Rd. So come on down and enjoy yourself. They will have refreshments and munchies. 73, and thanks to all who helped. Bob-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

- ✓ Oct 26 (00:00)-Oct 27 (24:00) CQ Worldwide SSB Contest. Info in various publications.
- ✓ November 8-10 AMSAT Annual Meeting & Space Symposium will be held at the Holiday Inn-City Center in Tucson, AZ. Info-Heather Johnson, N7DZU (520)749-5106
- ✓ November 9 ARRL-VE Testing Prescott-10:00AM at the Blind Center, 440 N. Washington.
- ✓ December 7 Superstition ARC ARRL Hamfest-Mesa Community College, Dobson & Southern. Info-Rick Checketts, KA0KZB (602)898-9158
- ✓ December 7 ARRL 160-Meter Contest. See QST.

# Sent SEPTEMBER Meeting.

The meeting was called to order at 7:09PM by President Matt Strandberg-KJ7DX. The minutes of the August meeting were read by Club Secretary Bob Rosevear-WB7RRQ and accepted as presented. Club Treasurer Judy Rosevear-KC7MTY reported that the club has \$800.98 and the refreshment fund has \$79.90. A few visitors to the club included Jack-KC6TRX, Hal-W5IZT, and Dick Jones. It was also good to see Vince-WB7UWW and Don Muller-KC7AGL present.

Bob Kane-K7KOL finalized plans for the field trip to the NWS station and Lowell Observatory and corrected directions to the NWS building. It was voted that the club would pat the \$60.00 fee for the group tour of the Observatory. Since the attendance at the meeting only indicated 7 would be going, it was suggested that some of the students from the Blind Center be invited to go as guests of the club.

Terry Pemberton-KB7TRE announced that he needs 2 more orders for club jackets for the minimum order of 6.

Jerry Sager-KG7ZF, in the place of Bob Tilman-K7CJW, took sign-ups for communications for the Road Rally.

Don Muller-KC7AGL inquired about the jamming problem on the Mingus Mnt. 147.220 repeater, which seems to have gone away.

Lloyd Halgunseth-WA6ZZJ discussed the ARES program and the weekly NET (which immediately follows the Wednesday night YARC NET on the 147.040+ repeater) which now has 17 check-ins.

Bill Kafka-W2YAV mentioned the persistent "kerchunking" of the local repeaters without ID'ing.

Bob Rosevear expressed thanks to Pen Brown-KJ7KL and Jerry-KB7YVX for their help with the students at the school, Dale, Lyle, and Bob for their help at the VA, and to John-KM6BF for the newsletter. Terry-KB7TRE also expressed his thanks to all of the "Elmers" who have helped with the students.

After the refreshment break, the 50/50 raffle was won by Matt-KJ7DX for a whopping \$19.00. (Hey he bought 5 tickets!)

The original program was canceled at the last minute, so DaveRutledge-W9KRQ showed a video about Independence and Seeing Eye Dogs.

We would also like to thank Terry, KB7TRE for providing the meeting place for the club at the Granite Mountain Middle School.



## 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: Bob Kane-K7KOL
- Greeter: Jerry Sager-KG7ZF
- Membership Services: Bob Rosevear-WB7RRQ and Terry Pemberton-KB7TRE
- Newsletter: John-KM6BF Editor & Publisher
- NET Control: Dale-N7XFD
- Alternate NET Control: Pen-KJ7KL
- 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



## PRESIDENTS CORNER

by Matt Strandberg-KJ7DX

### 160 METER SEASON IS UPON US! HERE IS AN ARTICLE THAT MIGHT MOTIVATE YOU!

By RON JOHNSON/WE7H

With fall here, 160 meters (1.8-2.0 Mhz) has become quiet and usable again. 160 Meters (also known as the "top band" and sorry YL and XYL, "the gentleman's band"), offers exciting, unpredictable and frustrating operation characteristics. Sounds a bit like 20 meters doesn't it! One can radiate a weak signal by feeding an 80 meter dipole with a tuner, but considering the high ground losses, one is fortunate to achieve reliable 400-600 mile communications. For illustration, considering wavelength, an 160 meter antenna 35 feet high is equivalent to mounting your 10 meter beam at two feet! For more reliable, distant communication, here are three simple antennas successfully used on this low frequency band: an inverted "L", "T", or helically wound shortened vertical. Achieving a lower angle of radiation without such extreme ground losses, these antennas should offer far better, consistent signals. If one has room, an inverted vee, which has a vertical radiation component, will also offer good results.

An inverted "L" is a wire antenna shaped like an upside-down L. The total length of the antenna is approximately 125 feet and one should run the vertical portion as high as possible. The remaining horizontal portion has little radiating effect but acts much like a capacity hat. The "L" should be fed with a series L/C circuit at the base, and should be worked against a ground/radial system. Simple ground rods will not achieve the results you are seeking. Run as many radials as possible and connect them to your sprinkler system, metal fences, water pipes, and also run them along your foundation or lay them on the ground because they will be covered by snow anyway! (Just roll them up in the spring).

The "T" antenna is by far the simplest antenna to utilize if you have an existing 75 meter dipole or inverted vee.

This antenna must be matched with a tuner, and the coax braid and center conductor must be shorted at your tuner. The resultant antenna is a vertical with a horizontal top hat consisting of your normal dipole section. Don't forget the ground radial system!

The helically wound shortened vertical is constructed by winding a half-wave length (260 feet) of 14 ga. insulated wire, evenly spaced on a 15-30 foot long insulator such as pvc pipe, wooden hand railing or whatever one can imagine. The top of the antenna must have a pie tin or pizza pan attached for added capacitance because of the extremely high voltages present. (Unless you want to simulate a tesla coil and impress your neighbors with a torch on your roof top!) Once again, don't forget a counterpoise system if roof mounted, or ground radial system if ground mounted.

With any luck, these antennas should turn-out to be resonant antennas, however, the antenna impedance must be matched to the transmitter and coaxial feedline. Refer to the "ARRL Handbook" or the "ARRL Antenna Manual" for simple matching networks for all of these antennas.

I was able to achieve 160 meter WAS (worked all States) in two seasons using 100 watts output with an inverted "L" supported by my walnut tree. So why not try one of these antennas and experience the fun of a new band with propagation conditions completely different than any hf band you have ever operated. Remember these few simple facts:

Best results will be achieved with a vertical radiating component.

Keep your antenna as far away from televisions as possible.

Turn off fluorescent lights. (It took me a whole season to discover that my S7 noise level was caused by my overhead fluorescent light!)

Get on the air, talk to others and discover what equipment and antennas the "big guns" are using. You will find courteous hams willing to talk, advise, discuss, chat and give more than a "59 Albania" report. I think you will be surprised to find out that the big signals are a result of the antennas and the radial systems used; not the type of transmitter being used or the power output. Could anything be more fun? See you on 160 Meters!

73, Ron Johnson, WE7H.

P.S. The 160 meter contest season begins in December and this offers considerable activity on both CW and SSB. (LOOK FOR ANNOUNCEMENT OF CONTESTS IN THE MAJOR AMATEUR MAGAZINES!!)

73, Matt-KJ7DX



From the FAQ (Frequently Asked



Questions) files

The "Considerate Operator's Frequency Guide"

- 1.800-1.830 --- CW, data and other narrowband modes
- 1.810 --- QRP CW calling frequency
- 1.830-1.840 --- CW, data and other narrowband modes, intercontinental QSO's only
- 1.840-1.850 --- CW; SSB, SSTV and other wideband modes, intercontinental QSO's only
- 1.850-2.000 --- CW; phone, SSTV and other wideband modes
- 1.910 --- QRP SSB calling frequency
- 3.560 --- QRP CW calling frequency
- 3.590 --- RTTY DX
- 3.580-3.620 --- Data
- 3.620-3.635 --- Automatically controlled data stations
- 3.710 --- QRP Novice/Tech CW calling frequency
- 3.790-3.800 --- DX window
- 3.845 --- SSTV
- 3.885 --- AM calling frequency
- 3.985 --- QRP SSB calling frequency
- 7.040 --- RTTY DX QRP CW calling freq.
- 7.080-7.100 --- Data
- 7.100-7.105 --- Automatically controlled data stns
- 7.110 --- QRP Novice/Tech CW calling frequency
- 7.171 --- SSTV
- 7.285 --- QRP SSB calling frequency
- 7.290 --- AM calling frequency
- 10.106 --- QRP CW calling frequency
- 10.130-10.140 --- Data
- 10.140-10.150 --- Automatically controlled data stations
- 14.060 --- QRP CW calling frequency
- 14.070-14.095 --- Data
- 14.095-14.0995 --- Automatically controlled data stations
- 14.100 --- NCDXF/IARU beacons
- 14.1005-14.112 --- Automatically controlled data stations
- 14.230 --- SSTV
- 14.285 --- QRP SSB calling frequency
- 14.286 --- AM calling frequency
- 18.100-18.105 --- Data
- 18.105-18.110 --- Automatically controlled data stations
- 21.060 --- QRP CW calling frequency
- 21.070-21.100 --- Data
- 21.090-21.100 --- Automatically controlled data stations
- 21.340 --- SSTV

- 21.385 --- QRP SSB calling frequency
- 24.920-24.925 --- Data
- 24.925-24.930 --- Automatically controlled data stations
- 28.060 --- QRP CW calling frequency
- 28.070-28.120 --- Data
- 28.120-28.189 --- Automatically controlled data stations
- 28.190-28.225 --- Beacons
- 28.385 --- QRP SSB calling frequency
- 28.680 --- SSTV
- 29.000-29.200 --- AM
- 29.300-29.510 --- Satellite downlinks
- 29.520-29.580 --- Repeater inputs
- 29.600 --- FM simplex
- 29.620-29.680 --- Repeater outputs

73 -Herb- W0AFY @ NOKFQ.#SWMO.MO.USA.NA w0afy@juno.com

**PAST PRESIDENTS FORUM.....**



**- HOW TO REPAIR ELECTRONIC EQUIPMENT -**

When attempting any repair, the following should be taken lightly:

- 1 Approach the ailing instrument in a confident manner. This will give the instrument the mistaken idea that you know something. It will also impress anyone who happens to be looking, and if the instrument should suddenly start working you will be credited with its repair. Should this fail, proceed to step 2.
- 2 Wave the service manual at the instrument. This will make the instrument assume that you are at least familiar with the source of knowledge. Should this fail, proceed to step 3.
- 3 In a forceful manner, recite Ohm's Law to the instrument. (Caution: BEFORE TAKING THIS STEP, REFER TO A HANDBOOK TO BE SURE OF YOUR KNOWLEDGE OF OHM'S LAW.) This will prove to the instrument that you do know something. This is a drastic step and should only be taken if the first two steps fail. If this step fails, proceed to step 4.
- 4 Jar the instrument slightly. This may take anything from a three to six foot drop, preferably on a concrete floor. However, you must be careful with this step because, while jarring in the approved method of repair, you must not mar the floor. Again, this is a very drastic step. If it should fail, proceed to step 5.
- 5 Brandish a large screwdriver in a menacing manner. This will frighten the instrument and demonstrates the

deadly "SHORT CIRCUIT" technique. If this step fails, proceed to step 6.


6 Add a tube...even if the instrument is solid state. This will prove to the instrument that you are familiar with the design of the instrument. Also, this will increase your advantage and confuse the instrument. If this step fails, proceed to the most drastic and dangerous step of all, step 7. It is very seldom used and is the last resort if all else fails.

7 Think...!? Is the most dangerous step of all! It is very seldom used and is the last resort if all else fails.




73 TO ALL

Charlie Brown



**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.

# ARRL VEC



**VE TESTING.**

The last scheduled testing date for 1996 is November 9. 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**

|                      |                        |
|----------------------|------------------------|
| AA7OV Al Barber      | AA7MH "Shep" Shepard   |
| AB7DY Vern Gregory   | AB7KE Joan Tremper     |
| AB7KF Bob Nichols    | AB7KN Mary Miraldi     |
| 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      |
| N7GTK Chet Hjelm     | W2YAV Bill Kafka       |
| W6HDP Bill Jackson   | W9KRQ Dave Rutledge    |
| WA6QQO Jim Perrone   | WF7J Walt Loesche      |



**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.

**Quote for the month: "People who cannot find time for recreation are obliged sooner or later to find time for illness." John Wanamaker**



## AREA REPEATERS

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

|                        |                     |
|------------------------|---------------------|
| Mt. Union(-500khz)     | 52.560-             |
| 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     |
| Prescott               | 147.040+ 100.0pl    |
| Flagstaff              | 146.980- 100.0pl    |
| Mingus Mtn.            | 147.000+ 100.0pl    |
| Mt. Francis(Prescott)  | 146.880- 100.0pl    |
| Mt. Eldon-Flagstaff    | 147.140+ 162.2pl    |
| 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-            |

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                 |



**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 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:**

"You're not getting into the repeater very good, check your offset!"

"The Front-to-Back ratio of that antenna is relative."

"I want a Packet radio that I can talk on!"

"Let's go to Packet where we can have a private conversation."

"If you calculate the length of a resonant antenna and then have to trim it, you're only fooling the transmitter!"

"How come you don't hear DX on the repeaters?"

"Can I convert my cordless phone so I can use it as an autopatch?"

"Why should I use simplex, the repeater sounds better!"

"Do those foreign broadcast stations on 40 meters hear us?"

"If I go to Canada, do I have to speak Canadian on the repeaters?"

Heard on the ZIA-Connection's White Tanks repeater:  
"Man, this repeater must be powerful to reach clear into Texas!"

"How do they get enough crystals into these new little radios to cover the whole band?"

"My neighbor complained that I was interfering with his TV, so I shot out his lights."

"We didn't want everybody to hear our conversation so we tried a different PL tone. It didn't work!"

"Is this repeater open 24 hours?"



**NEWS of INTEREST**

by Pen Brown-KJ7KL and Jerry Brandt-KB7YVX

**WHITE HOUSE AND ARRL GET CB'er FINED \$6000 FOR HARASSING AZ HAMS** FROM NEWSLINE

The Arizona Repeater Association, the ARRL's Amateur Auxiliary and the First Lady have teamed up to bring the wrath of the FCC down on a CB operator. A CBer who the FCC says spent the last four years harassing legitimate ham radio operators in Phoenix, Arizona.

Timothy H. Hoffman has been issued the Notice of Apparent Liability to Monetary Forfeiture in the amount of \$6000. This, after being charged with transmitting on the amateur bands without a valid license, willfully and maliciously interfering with the radio communications of licensed radio amateurs and failure to allow a station inspection by FCC personnel. The action against Hoffman comes after members of the Arizona Repeater Association working hand in hand with the ARRL's Amateur Auxiliary went the political route. According to Lance Halle, KC7FVX of the Arizona Repeater Association, for about four years Phoenix repeaters have been plagued with what he termed as vile, malicious interference. The alleged culprit would mimic legal hams, use their call signs and cause all sorts of vulgar interference. Especially with nets and phone patches. Halle says that the CBer had several followers and that they would selectively wage war on one ham after another. This included death threats and phone harassment to blind ham perpetrated via area autopatches. Halle tells Newsline that almost two years ago Arizona Repeater Association's Local Interference Committee located the individual, and turned him in to the FCC. At that time there was still a manned monitoring facility nearby in Douglas, Arizona. The agents running the facility had been following this interference for several years and were delighted with the information supplied by the ham radio group. They were quick to pay him a visit one evening while he was singing vulgar lyrics over a Swap Net and issue a Notice of Violation. That stopped him for a couple of months, but soon he was back on the air. He taunted local hams telling everyone that even the FCC couldn't stop him. KC7FVX says that the Interference Committee and its staff of Official Observers continued to DF, record, and document his activities. Since he was unlicensed they forwarded this info to both ARRL and FCC. After about a year of no action, with the approval of the ARRL they began a letter writing campaign to congress and the President of the United States. Enter the White House and the first lady. A few weeks ago Halle says that received a letter from the Chief of the FCC's Compliance and Information Bureau. It stated - and we quote - "First lady Hillary Clinton requested I answer your inquiry."

The FCC official went on to indicate she was aware of the case, but since it was under investigation, she could not divulge any information. Shortly thereafter Halle received responses from three congressmen who had also heard from the FCC. The big surprise came when the \$6000 Notice of Apparent Liability was issued to Hoffman.

Halle says that it seems the system does work, but needs a little help now and again from congress. He says that a lot has been learned from this experience, both locally and by ARRL. That the ARRL's volunteer Official Observer program and Local Interference Committees are

effective in combating this type of problem although sometimes you do have to go the political route. Halle adds that none of this would have been possible without the hard work of the ARRL's Amateur Auxiliary to the FCC. Hoffman was given the usual thirty days to respond to the Notice of Apparent Liability. At air time it is unknown if he plans to file an appeal.

**FCC FINE AGAINST COFFIELD REAFFIRMED**

The FCC is holding then line on a fine that it issued against a Californian for operating without a license. The FCC has denied an application for review of a \$2,000 fine against Danny Lee Coffield of Lakewood, California. This, for unlicensed operation in spectrum adjacent to the 11 meter Class D Citizens Band.

The FCC Compliance and Information Bureau had leveled the fine last year and affirmed it earlier this year. Coffield was cited for operating an unlicensed transmitter on 27.7744 MHZ back in 1993. Since that time, he obtained an Amateur Radio license.

The FCC says that it had warned Coffield of the potential penalties for unlicensed operation prior to citing him on September 29, 1993. The FCC has not indicated whether Coffield's ham license, issued in 1995, would be in jeopardy. The Commission acted on the review application on September 19th.

**THRUWAY HAM ACKNOWLEDGMENT**

The New York State Thruway Authority will help to promote ham radio. The agency has announced plans to place ARRL Amateur Radio recruitment brochures at rest stops along the toll highway.



**160-METERS**

The list continues to grow as the noise level drops and we all get back on the 160-meter band. Regular check-in's already include:

- |              |              |
|--------------|--------------|
| Pen-KJ7KL    | Jerry-KG7ZF  |
| Frank-WA6JBV | Tony-WB6PCU  |
| Billy-KC7KRM | Jim-WA6QOQ   |
| Howard-W7ILW | John-KM6BF   |
| Bob-K7KOL    | Lloyd-WA6ZZJ |
| David-KG7OL  | Bill-KM6BS   |

Feel free to join us nightly on 1900khz @ 1900hrs, local time.



**LOOKING FOR PARTS?**

Radio Shack want's \$3 for their catalog...?

Fine. I'll do my shopping elsewhere as anyone who would actually \*pay money\* for printed advertising should have their respective head examined.

Finally, here are some Electronics outfits who will send you a FREE catalog just for the asking! (...and virtually

all of them have equipment, components and other electronics goodies for \*substantially less cost\* than R.S.) Have fun!

- Hosfelt Electronics: 1-800-524-5414 (a HUGE catalog! Like a hamfest in print!)
- Grove Electronics: 1-800-438-8155 (The BEST prices on scanners & SW radios)
- MCM Electronics: 1-800-543-4330 (excellent source for test equipment)
- Mouser Electronics: 1-800-346-6873 (parts galore.)
- DigiKey Electronics: 1-800-344-4539 ( " " " )
- M.P. Jones Electronics: 1-407-848-8236 ( " " " )
- Allied Electronics: 1-800-433-5700 (almost every electronic component known..)

Again, the above folks provide \*FREE\* catalogs (unlike R.S.) and are a have been a pleasure to do business with. (don't forget also...when you buy via mail order, you do NOT pay sales tax! Betcha forgit that one...!)

73, es George wa2rcb @ ke3cz



**A PLAY ON WORDS?**

We've all used and heard old phrases and sayings as part of our normal vocabulary. These phrases and sayings are really old!

- Something's rotten in Denmark
- All the world's a stage
- Parting is such sweet sorrow
- The Primrose path
- "house-hold words"
- Laughing stock
- Eating me out of house and home
- Dead as a doornail
- Bag and Baggage
- First, let's kill all the lawyers
- Intò thin air
- Good riddance
- Knock-knock - - Who's there? and finally
- Good night, ladies!

All of these sayings were either first used or repeated by William Shakespeare in one of his plays or sonnets. The old "Knock-Knock" joke is from his play "MacBeth" written in 1600. The most famous and oft-quoted phrase in the English language, "to be, or not to be" is from the same play.

**73 Bob-K7KOL**

OCTOBER - 1996



DONT FORGET!

WEEKLY NET - WEDNESDAY NIGHTS

@ 7:00 PM 147.040+ (No PL) If you don't have PL, join the NET on 147.040 simplex.

MONTHLY MEETING - 3rd THURSDAY

@ GRANITE MTN MIDDLE SCHOOL 7:00PM  
NEXT MEETING THURS. NOVEMBER 21, 1996 @7:00pm



Wednesday Morning Breakfast-Iron Horse Cafe in Chino Valley. 7:00am. Informal-All are invited. Come and see Lloyd-N7QZQ pour coffee for everyone. Lloyd says, "I love keeping everyone's cup full!"

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

CARTOONS COURTESY OF  
WORLD RADIO™ MAGAZINE



WHAT DO YOU MEAN "WHAT IS IT?" IT'S A GROUND ROD, YOU IDIOT!-- YOU SET ME UP A BRANCH OFFICE RIGHT UNDER SOME HAM!



I'M TAKING A TRIP DOWN UNDER, SO I THOUGHT I'D BETTER START GETTING USED TO THEIR POLARITY!