



**THE YAVAPAI SIGNAL**



**HERE WE GO AGAIN  
LITTLE LEOS DECLARE WAR**

The same industry that has already targeted two meters and 450 MHz for sharing now wants even more ham radio spectrum. The Little LEO satellite industry says that it wants access to 219 to 225 MHz in addition to the two other bands. The satellite people see billions in corporate profits that they can start using all the amateur frequencies from 144 to 450 MHz.

The Low Earth Orbiting satellite industry that is seeking access to amateur allocations at 146 and 430 MHz has now added 220 MHz to its wish list. The move announced in what the satellite industry calls its flexible allocation proposal. That proposal was delivered at the February 13th meeting of FCC Informal Working Group 2A. In it, the Little LEO industry specifically targets the ham bands from 146 to 148, 219 to 225 and 430 to 450 MHz for shared use.

The ARRL and AMSAT were among those objecting to the idea. A joint statement says that the latest proposal affecting amateur allocations in the 219 to 225 MHz segment came at the last possible moment and without any technical support whatsoever.

The League and AMSAT point out that the little LEO supporters have had more than a year to complete a technical study of the possibilities of sharing with the amateur service in the 144 to 148 MHz and 420 to 450 MHz bands. Both organizations conclude that the Little LEO people have not demonstrated compatibility for sharing these amateur bands.

Now to speak editorially. The ARRL is urging those who agree with its position, that's you and me, to comment to the FCC by March 4th. This is because FCC Informal Working Group 2A has been preparing proposals for the 1997 World Radiocommunication Conference which will be reviewed at a March 5 meeting of the FCC's WRC-97 Industry Advisory Committee. That committee is the one preparing draft proposals for consideration by the United States as it gets ready for the 1997 conference.

Anyone wishing to register support for the joint ARRL and AMSAT submission and to file in opposition to the Little LEO position should send a brief e-mail message to: [wrc97@fcc.gov](mailto:wrc97@fcc.gov)

The Subject line should say

Reference No. ISP-96-005 IWG-2A

All that's needed is a simple statement such as "I support the ARRL and AMSAT opposition to the flexible allocation proposal." The ARRL says that these will be included in the public record and will help to drive home the point that there is broad-based opposition to poorly conceived sharing proposals. LO 1W  
HI 3W

And with time running out, here's another way we have thought up to fight back. Its one you won't hear suggested by the ARRL, but it can work well if you know exactly what to say.

Why not enlist the direct of the American public? The quick and inexpensive way is by phoning into the thousands of radio talk shows around the nation and telling our side of the story. 2405818  
WOP  
\$17.00

Going on the talk show circuit should only be attempted if you are a truly articulate speaker and well versed in what the Little LEO industry is

I got \$14.93 (at 15.00)  
RCR fund  
88.00

Police 778 1444      Rosie 777 7777  
-1- DPS 445 1280  
Sheriff 771 3260  
Res. Vol. P.D. 772 9267

trying to do. Target talk programs at night that have high ratings and shows that often discuss technology issues. Have a brief plain English statement ready to read that explains why our needs must be protected. Avoid using ham radio jargon in it like QSO or QTH that the host and public won't understand.

Most talk shows have at least one day of open lines where the general public can voice its opinions and gripes. Its' the perfect opportunity for radio amateurs to call in and warn the general public about the Little LEO plot to grab frequencies that are now used by hams to help save lives. It's also where hams can urge the general public to write to the FCC opposing any sharing of amateur bands with the satellite community. And don't forget to give them the:

wrc97@fcc.gov e-mail address.

Also please note that what we all oppose are not proposals from the FCC. Nor are they ideas that are endorsed by any other branch of the government. Rather, these are Little LEO satellite industry proposals. The League's objective is to demonstrate to the government there is broad citizen opposition to the Little LEO industry proposals, in the hope that the government will not adopt them as a United States position. So, please be supportive of the FCC in any comments that you file or anything you say on the talk radio air.

Spread the word as quickly as you can.

The complete text of the ARRL and AMSAT opposition statement and other comments is posted on ARRL Web page at: [www.arrl.org](http://www.arrl.org)

under "Band Threat News." Read it if you plan to file extensive comments or to take the issue to the public via the talk show circuit.

(Via ARRL, AMSAT-NA, Spectrum, Airwaves, ANW, Newsline)



**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**



March 30-EASTER Sunday



April 14-ARRL VHF/UHF Spring Sprint-144 Mhz.  
April 22-ARRL VHF/UHF Spring Sprint-222 Mhz.  
April 30-ARRL VHF/UHF Spring Spring-432 Mhz  
See QST for information. Good contest for Novice/Tech's



April 22-23 Alaska QSO Party. See QST 3/97



April 26-Albuquerque ARC and the Amateur Radio Caravan Club will hold a Flea Market at St. Paul's United Methodist Church. For info, e-mail Art, [n5oqj@juno.com](mailto:n5oqj@juno.com)



April 29-31 CQWW WPX Contest.



**FEBRUARY MEETING.**

The February 20, 1997 meeting was called to order at 1903 hrs by President Bob Kane-K7KOL. Due to a time conflict, the evenings program was first. Donzel Worthington-WS0F was introduced. His presentation was an enlightening talk on propagation. Focused mainly on VHF and UHF from 50Mhz to 300 Ghz, with many possibilities available to allow DX on the bands with simple equipment. While most VHF/UHF DX is done on SSB, FM is also possible. Handouts showed different types of conditions that can cause signals to travel hundreds and thousands of miles. Different conditions throughout the year make long distance contacts possible. Grid squares, used for locating stations were discussed. Several tips were given such as using GOOD coax like 9913! We would like to thank Donzel for taking the time to visit our club and provide some information many of us may not have been aware of.

The refreshment break followed the program, and the 50/50 raffle netted Bob-K7KOL \$14.00 and Jim Blackmore-W6KCF a free pass to Castle Golf.

Several visitors to the meeting were introduced: Don-KA7FXJ, John-WB7DXT, and David-AB7JA.

Secretary Bob Rosevear-WB7RRQ read the minutes of the January meeting, and they were accepted as read. The treasurers report was read by Treasurer Judy Rosevear-KC7MTY.

New Business. Bob-K7KOL talked about the Chamber of Commerce signs, proposed at last months meeting. Due to the cost, it was voted to drop the matter. We are still checking with ADOT about highway signs for the club with the local repeater frequency.

SAREX. Lee Cunningham-KC7CBK introduced David Boone-AB7JA, who is a teacher at Mtn. View Elementary School in Prescott Valley, where the SAREX program will take place in April. David explained how he applied for this opportunity in 11/94. There will be 6 students selected to speak to the astronauts. The media has been invited to cover the event. Set up dates have been set and lots of help is needed for set-up, testing, and training. The club (YARC) has been asked to provide coax and rotor cable for the event. After the event, the cable will be sold and the club will recoup the cost. It was put to a vote and passed 17-4 to provide the material from the club treasury.

Membership. Hal Tritel-N6OVE showed some mock-ups of flyers we can have printed and distributed for the club. Fred Zimmermann-N7PJN noted that previous attempts at this had failed. The matter was put off, as John-Wilson-KM6BF stated he could provide a lot more information about amateur radio for the flyers.

Field Day. Jerry Sager-KG7ZF stated that Heritage Park is available, but the City requires a deposit. Terry Pemberton-KB7TRE offered the football field at GMMS to the club. It was unanimous to use the GMMS location.

New Business. It was proposed and accepted to give a 1-year membership in the YARC to newly licensed amateur Mike Jone-KC7UNJ, a student from GMMS. Lee-KC7CBK passed on information from Lynn Clark-KC7PJO about code classes to begin in Prescott Valley at the Casa Senior Center, with a request for help from anyone available.

David Passell-K6UWV volunteered to take care of refreshments for the meetings.

Bill Kafka-W2YAV will bring some test equipment to next months meeting for those wishing to have their deviation checked.

There being no further business, the meeting was adjourned at 2045.



**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.



**Your 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, and Frank Homeff WA6JBV



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

- They are:**
- 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-K6UWV
  - Programs & Entertainment: Bob Kane-K7KOL
  - Publicity: Judy Rosevear-KC7MTY
  - Training & Technology: Vern Gregory-AB7DY
  - Volunteer Examiner Testing: John-KM6BF and Dave-W9KRQ



**CLUB REPEATER.** The local 2-Meter repeater on 147.040+ (100.0 PL), is the official adopted repeater for the YARC. If you don't have PL, transmit on 147.040 after the repeater drops out. Many thanks to Bill Kafka-W2YAV for the upkeep and use of the repeater.

**CLOTHES NEEDED FOR CLINIC IN MEXICO**

Donations of usable children's clothing is needed for a clinic in Mexico. Dr. Bob Nichols-AB7KF has had this clinic for over 35 years to help disabled children in Northern Mexico. Currently, he is collecting used clothing for children of all ages to be taken to the clinic. Any donations from members would be greatly appreciated by the people in Mexico. Members can take items to the monthly YARC meeting & we will take them to Dr. Bob's ranch at Coyoye Springs. Thanks. Bob Rosevear-WB7RRQ.

# PRESIDENTS CORNER



## NEW FCC HAM PHONE

Also, the FCC has designated a new, toll-free number for Amateur Radio license inquiries. This includes inquiries about vanity and new call signs. The number is (888) 225-5322.

This number will actually connect you to the FCC National Call Center, handled by the FCC's Consumer Information Bureau. From there, you will be steered to the information that you need.

Again, that number is (888) 225-5322 and it is toll free.

(Via FCC release, ARRL)

## SCHOOLS SELECTED FOR SAREX CONTACTS

Sixteen schools, including institutions in the People's Republic of China and Okinawa, have picked for scheduled SAREX contacts during NASA's STS-83 space shuttle mission. The tentative launch date is March 27, 1997.

Three hams are scheduled to be aboard the shuttle *Columbia*. They are Mission Commander James Halsell-KC5RNI, Payload Commander Janice Voss-KC5BTK, and Donald Thomas-KC5FVF, Mission Specialist.

The STS-83 flight is scheduled to last 16 days and will carry a SAREX station that is configured for voice and packet. The mission's primary payload is a microgravity science laboratory.

*From WORLDRADIO, April-1997*

## HELP STILL NEEDED!

In a related matter, help is still needed for the SAREX station at Mountain View Elementary School in Prescott Valley. Set up and actual operation of the project will require a lot of help and expertise to ensure the success of this project. If you can help, if just for an hour or two, please contact David-AB7JA or Lee-KC7CBK as soon as possible, so they can get things scheduled.

Happy Easter to all, and see you next month!

**73, Bob-K7KOL**



From the FAQ (Frequently Asked



Questions) files



## IS THERE REALLY A RISK FROM EMF?

The ongoing saga about EMF exposure continues, and we are and/or will be affected by any legislation by the government. The following article may provide some interesting information. This prospective from an electric utility provider has similarities we can identify with:

### NO HEALTH RISK FROM EMF

There is "no conclusive and consistent evidence" that residential exposure to electric and magnetic fields constitutes a health risk, according to a recent National Research Council report.

"Taken altogether, the current body of evidence shows that exposure to (electric and magnetic) fields does not constitute a threat to human health." said Dr. Charles Stevens, Chairman of the National Research Council.

The Council reviewed approximately 500 studies covering 17 years of research on electric and magnetic fields. While the Council did find a weak statistical link between living close to power lines and childhood leukemia, it concluded that the leukemia was almost certainly caused by something else and called for further research for confirmation.

The majority of the studies focused on low-frequency fields, such as those surrounding power lines or emanating from computers and other household appliances. The report did not address the possible health risk from "occupational exposures" to power industry workers.

### WHAT ARE EMF's?

Power lines, electrical wiring, and appliances always produce electrical and magnetic fields. EMF's are invisible lines of force that surround any electrical device. Electrical and magnetic fields have different properties and possibly different ways of causing biological effects. Electric fields are produced by plugging in an appliance, but not turning it on. Magnetic fields are produced by using an appliance. Electric fields can be shielded or blocked and weakened by solid

objects such as walls, trees, or buildings; but this is not the cause for magnetic fields. The strengths of both fields weaken with increased distance from their source.

#### OTHER STUDIES

There have been numerous studies over the years with conflicting results. A recent new study from Finland stated that high-voltage power lines are unlikely to cause cancer. This nationwide study published in the British Medical Journal, compared cancer rates of 383,700 people living near power lines between 1970-1989 with those of the general population. The rates for those living within 500 yards of overhead power lines was 2% lower than the general Finnish population.

The American Medical Association says it sees no link between electro-magnetic fields from utility power lines and cancer. In a brief which was filed with the California Supreme Court, the AMA and the California Medical Association concluded that "...no scientific documented health risk has been associated with the usually occurring levels of electromagnetic fields."

At this time, there is no scientific consensus about the EMF issue—except a general agreement that better information is needed. A national EMF research effort is under way, and major study results are expected in the next few years.

#### END OF STORY? NOT YET.

The National Research Council's review was extensive, but it's scope only reviewed the observed effects of EMF. It did not provide a risk assessment. Because some questions remain, the National Rural Electric Cooperative Association (NRECA) supports continuing the research now in progress through the federal EMF Research and Public Information Dissemination (RAPID) Program.

"The National Research Council report offers a significant contribution to our knowledge about the effects of EMF," says NRECA Chief Executive Officer Glenn English.

"For everyone's sake, we also need to continue the work on the EMF RAPID program. We need to know if there is even the slightest possibility that EMF could affect public health. The modern miracle of electric utility service has transformed our nation and our individual lives. Let's make sure that is beneficial in every way," says English.

Reprinted with permission from the Mohave Electric Cooperative's Winter, 1997 CURRENTS newsletter.

## PAST PRESIDENTS FORUM.....

### SLOW GROWTH IN HAM RADIO

The combined number of United States General, Advanced and Extra class license holders is declining, but no-code continues to grow. This according to 1996 year end figures published in the January 1st W5YI Report.

The No-Code Technician continues to show the greatest increase in the number of people holding that class of license. There are now 6.7 percent more Technician and Technician Plus operators than there was a year ago. In fact, some 43 percent of all radio amateurs share these two classes of licenses. That's more than twice the number of only a decade ago.

And for the first time ever, the combined number of Extra, Advanced and General class operators declined in 1996. But that was offset by the growth in the numbers of No-Code techs making for slight one percent growth in the total number of hams coming into the service last year.

What does this all mean? W5YI says that there is a major shift in interests taking place in ham radio. Back in the 50's, 60's and 70's ham radio meant low band DXing, ragchewing and long range operations. That pool of High Frequency operators is now drying up says W5YI.

Others agree. They say that the traditional high frequency operator is being replaced by a massive influx of codefree licensees who have no inclination to ever upgrade. A new breed of radio amateur who seem very content to spend their entire ham radio careers on a single repeater, talking to the same people, day after day, in what was once experimental world above 50 MHz.

From NEWSLINE #1014 (Via W5YI, others)



73 to all, Matt-KJ7DX

**QUOTE FOR THE MONTH:** "The glow of one warm thought is to me worth more than money." Thomas Jefferson

# ARRL VEC



## VE TESTING.

The tentative schedule for 1997 testing will be (all Saturday's) May 10, August 9, and 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 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



**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

### NEW WATS NUMBER FOR HAM INFO FROM FCC

The FCC has designated a new, toll-free (WATS) number for Amateur Radio license inquiries--including inquiries about vanity and new call signs. The new number, 888-225-5322, will connect callers to the FCC National Call Center, handled by the FCC's Consumer Information Bureau.

Callers to the old consumer information number will get a message referring them to the new number.

### A CHANCE TO END ANTENNA RESTRICTIONS AND COVENANTS

Two residents of a housing development have filed a petition to the FCC charging that covenants on the property are in violation of FCC laws. The appeal filed on January 16th seeks a Declaratory Ruling that certain provisions of a homeowners association covenant are preempted by the Commission's over the air reception devices rule.

Jay Lubliner, KA3ZMW and Deborah Galvin are asking the Commission to determine whether Potomac Ridge Homeowners Association's prohibition of outdoor antenna installations is preempted by Section 1.4000 of the Commission's rules. The Petition alleges that the homeowners association restriction violates the Commission's rule prohibiting restrictions that impair installation, maintenance or use of over the air reception devices including satellite dishes and antennas.

As reported last year, the Telecommunications Act of 1996 allows those who cannot otherwise receive over the air television reception to have a TV antenna 12 feet in height or less regardless of any homeowner's deed restrictions and covenants. As Lubliner and Galvin are unable to see television without interference they feel that they had the right to a TV antenna. Thus, their petition to the FCC.

The FCC has assigned the Lubliner and Galvin request as FCC Public Notice DA 97-118.

(Via W3CQH)



### FROM CHINO BOB!

Influence is something you think you have until you try to use it.

You cannot keep trouble from coming, but needn't give it a chair to sit on.

The man who has no one but himself to blame will usually think of somebody.

A friend is one who knows your faults, yet loves you in spite of your virtues.

If at first you don't succeed, take heart, you're running about average.

Do you know why mountain climbers rope themselves together? To prevent the sensible ones from going home!

"Nolo Contendre" is a legal term meaning, "I didn't do it judge, and I'll never do it again."

73 to all. Bob-K7CJW



146.560 \*8

### AREA REPEATERS

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

- Mt. Union(-500khz) 52.560- 100.0pl Bypass  
(Now 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 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  
(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)



SAT WHAT? FROM THE "I CAN'T BELIEVE I HEARD IT ON AMD+EUR 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:

"Why can't I use the AM antenna on my car for 2 meters?"

"My wife says my radios interfere with her TV. I guess she'll have to move."

"A repeater owner is the first person cursed at when the repeater goes down!"

"What's the frequency of that courtesy tone?"

"What do those solar flares do, burn up the signals?"

"It's all a government conspiracy to take away our frequencies!"

"If I put a 440 antenna on my 220 radio, it should work twice as good!"

"Oh, he just has a big ego because he's the Control Operator of the repeater!"

"My license doesn't specify if I can operate mobile!"

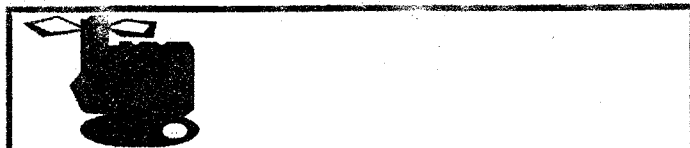
"I think I'd be more efficient if I used more power!"

"Do you get a refund if you don't pass your test?"

"I took my mobile out of the car and took it in the house and realized I don't own a 12v power supply!"



**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 147.040+ (100.0 PL) IF YOU DON'T HAVE  
PL, TRANSMIT ON 147.040 WHEN THE REPEATER  
DROPS OUT.

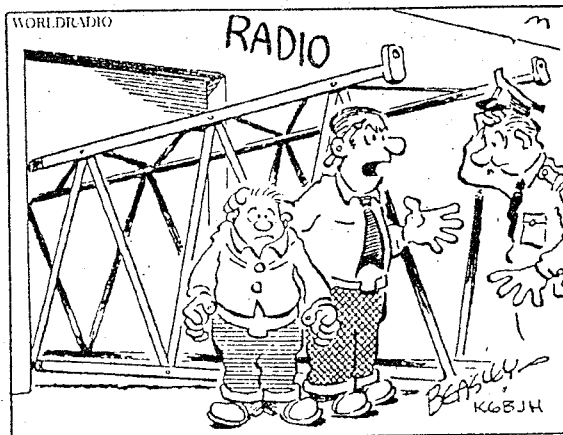
**MONTHLY MEETING** - 3rd THURSDAY  
@ GRANITE MTN MIDDLE SCHOOL 7:00PM  
NEXT MEETING THURS. APRIL 17, 1997 @7:00pm



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'm so busy, my own cup is  
empty!"

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

CARTOONS COURTESY OF  
WORLD RADIO™ MAGAZINE

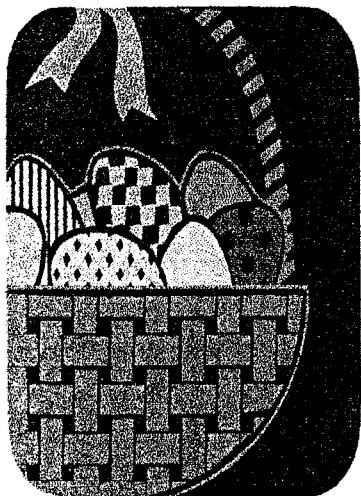


SHOPLIFTER--- CAUGHT HIM TRYING TO SNEAK  
OUT WITH A 125 FOOT SELF-SUPPORTING TOWER.



TRIED TO "BORROW" SOME GEAR FROM A MOBILE, BUT THE  
GUY CAUGHT ME--- SHEESH, WHAT A SORE HEAD!!

YAVAPAI AMATEUR RADIO CLUB  
PO BOX 11994  
PRESCOTT AZ 86301



HAPPY EASTER TO EVERYONE