

# a bill has been ensure the ar

### AMATEUR RADIO SPECTRUM PROTECTION BILL INTRODUCED

At the request of the ARRL, a bill has been introduced in Congress to ensure the availability of spectrum to Amateur Radio operators. The bill, HR 3572, the Amateur Radio Spectrum Protection Act of 1998, would protect existing Amateur Radio spectrum against reallocations to or sharing with other services unless the FCC provides "equivalent replacement spectrum" elsewhere. The bill was introduced March 27 by Rep Michael Bilirakis of Florida, a Republican, with the cosponsorship of Rep Ron Klink of Pennsylvania, a Democrat.

If approved, the measure would amend Section 303 of the Communications Act of 1934 to preclude reallocation of any primary Amateur Radio allocations or diminution of any secondary allocations, and would block any additional allocations within such bands that would substantially reduce their utility to Amateur Radio, unless the Commission at the same time provides "equivalent replacement spectrum" to the Amateur Service.

The bill points out that a basic purpose of Amateur Radio is to provide "voluntary, noncommercial radio service, particularly emergency communications," and that Amateur Radio has "consistently and reliably" provided emergency communication during and after disasters. The measure notes that the FCC has "taken actions which have resulted in the loss of at least 107 MHz of spectrum to radio amateurs."

HR 3572 has been referred to the House







Vol. 8 - No. 4

**APRIL-1998** 

Commerce Committee. An effort is under way to enlist additional cosponsors for the measure. Amateurs are encouraged to contact their Representatives and urge them to support the bill or to sign on as cosponsors. The full text of the bill is available at

http://thomas.loc.gov/cgi-bin/query/z?c105:H.R.3572: (From the ARRL's ARRL Letter of 4/03/98)

### **EMERGENCY COMMUNICATIONS COMPETITION**

The commercial satellite industry may soon be competing with Amateur Radio to provide free communications carriage for humanitarian efforts.

The March issue of Satellite Communications Magazine reports that Mobile Communications Holdings Incorporated plans to offer free time on the Ellipso network for disaster relief efforts worldwide. According to Ellipso's Joseph Tedino, the company's objective is to offer relief organizations a way to foster good works and alleviate burdens. He says that the company plans to have at least a portion of the Ellipso services to be available by the year 2000.

For years, providing free emergency service communications has traditionally fallen to radio amateurs. This, as commercial service vendors have been hesitant to dip into corporate profits except in times of major disasters. Now that's changing, but probably not anywhere near as far as the satellite industry might think. This is because Ellipso's decision to furnish free satellite air time is just that. Its free air time to transmit information but it does not include the trained communications personnel needed to get the messages delivered and the responses back.

And that's where trained, volunteer ham radio operators really shine. It's also why they will always be needed. As most emergency service communications directors know, the radio and air time is only half the communications equation. (Via Newsline #1075)

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.



The meeting was called to order by Bob Kane, President, at 1901 with 32 present.

We had 2 visitors reported. Jim Riddle (KD7AOI) and W6ODG, Aubrie Stewart, from Kachina Radio. Aubrie gave a fantastic presentation on Kachina's latest and greatest PC controlled HF radio. There was a question and answer period and free mouse pads and literature was given out.

Minutes of the February meeting were read and approved.

The Treasurers report was given by Treasurer, Fred Shefflette, KC7TIN. The bank balance was \$752.50. The refreshment fund had \$53.64.

**Old Business** 

No old business was discussed.

**New Business** 

A motion was brought to the table to hold the July meeting one week later than normal to accommodate a visit by Cliff Hauser, KD6XH, and Rick Balm. It was voted on and passed. The July meeting will be held on the 23rd of the month, instead of the 16th.

The refreshment raffle was \$9.

Terry Pemberton, KB7TRE, requested QSL cards for the GMMS ARC from members of YARC. For any member who has already given GMMS ARC their QSL card, please disregard.

Tony Masvidal, W7PCU, read an article form World Radio about two navy ships on a collision course. It took a Signalman on the one of the vessels about 20 min. before he deciphered the Mores code sent from the

other vessel via a signal light. By the time he was finished figuring it out, the two ships collided, causing more than \$10 million worth of damage.

Submitted by Kris Bearscove-KC7UNK, club secretary.



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

April 18 - AARC 6th Annual Ham-Fest. Devry S Parking Lot, 2149 W. Dunlap, Phoenix 0600-1400. T/I 147.280+ . Admission \$1.00. Info call (602)274-2612

April 21- 222Mhz Spring Sprint

April 25 - Mountain Bike Ride, Pioneer Park

April 29 - 432Mhz Spring Sprint

May 2 - ARRL HAMFEST-Sierra Vista. Sponsored by Cochise ARA, SEARS, and others. Exhibits, VE

testing, etc. 6AM to 5PM. Info-(520)378-3018

May 2 - Whiskey Row Marathon



May 9 - VE Testing, Blind Center, Prescott

May 16 - 50Mhz Spring Sprint



July 24-26 ARCA-Ft. Tuthill Hamfest, Flagstaff





### **MEETING PROGRAMS.**

HELP!

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



THE NEWSLETTER. With the vast resources available to us, I thought it would be interesting to include articles from other club newsletters. One search engine on the WWW had 400+ club web sites listed and many of them put their newsletter on-line. Some good, some so-so, some not-so-good! However, I will attempt to put at least one article from another club in our newsletter each month. 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.

e-mail your articles to: km6bf@primenet.com



### From the NZART Web Page

Presidents column - December 1997

Recruitment into amateur radio is an issue that we must all keep in our focus.

There are a number of similar organisations and hobbies around us, who may have members that could be interested in our activities.

One good way to encourage interest in our hobby is to invite others to work, socialise, lobby or carry out other pastimes together with us.

Amateur radio is often called upon to provide community service, through our Branches and AREC sections, providing communications for sporting or community activities. At times these requests come "thick and fast" and stress the capabilities of the local Amateur Radio groups. If we are in that situation, maybe we should we call upon others, like the Citizens Band hobbyists, to boost our numbers. It is obvious that those not trained or experienced in AREC procedures cannot be relied upon to provide the high quality services we are proud of, however they could be involved in some way, and gain that experience. Through contact like this we will all gain a better understanding of what the others are inspired by, and a great recruiting opportunity will be available.

There are other radio hobbyists around, for example the NZ Radio DX League. These keen radio listeners may well be interested in an invitation to a Branch meeting, to hear or maybe present an address on radio operation or technical issues.

We have shared interest in the raising of aerials with other radio hobbies, so should keep in touch when local councils are being lobbied.

How about local computer clubs? Have they begun to tire of browsing the web, and may be keen on seeing what you can do through a radio, where some more personal effort is often required?

We should keep our eyes open looking around the local community for other organisations and groups that may be really keen to hear from the Amateur Radio Club in our community.

73 to all, Alan ZL1AMW

alan.wallace@xtra.co.nz



### Club officers for 1998 are:

President - Bob Kane-K7KOL

Vice President - Lloyd Halgunseth-WA6ZZJ

Secretary - Kris Bearscove-KC7UNK Treasurer - Fred Shefflette-KC7TIN

Board Members - Bob Rosevear WB7RRQ, Terry Pemberton KB7TRE, Pen Brown-KJ7KL, Tony Masvidal-W7PCU 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: Lloyd Halgunseth-WA6ZZJ

Greeter: Jerry Sager-KG7ZF

Membership Services: Bob Rosevear-WB7RRQ and Terry Pemberton-KB7TRE

KB/ IKE

Newsletter: John-KM6BF Editor & Publisher

NET Control: Dale-N7XFD

Refreshments: David Passell-K6UWV
Programs & Entertainment: Bob Kane-K7KOL

Publicity: Tony Masvidal-W7PCU

Training & Technology: Vern Gregory-N7VG

Volunteer Examiner Testing: John-KM6BF and Dave-W9KRQ



## PRESIDENTS CORNER

### **VA ANTENNA VICTORY: MAYBE**

Virginia may soon have the most Amateur Radio friendly antenna laws in the nation. This, after that states legislature passes SB-480 and sends it on to the Governor for his signature.

SB-480 gives Virginia hams what amounts to an inalienable right to erect an antenna system. This, because the measure directs that all areas of the state be covered under PRB-1 like preemption language that directs all communities to make reasonable accommodation for ham radio towers and antennas.

But it does not stop there. Areas of Virginia with population densities greater than 120 persons per square mile based on the 1990 Census cannot regulate antenna structures to less than 75 feet. Areas under 120 persons per square mile cannot regulate antenna structures to less than 200 feet. And no area can regulate the number of support structures meaning that hams can put up as many antennas as they want.

As to restrictions? There is only one that is of any consequence. It says that reasonable and customary

engineering standards for antenna erection must be followed in all locations. But that in itself is also a positive step because it makes sound engineering a state mandate and takes away the benefit of localities having final say on engineering and structure erection.

In getting the measure passed, Virginia hams defeated two of the most highly influential anti-antenna and pro local government lobbies in the state. (From NEWSLINE #1075 Via WB5/TT, others)

**73, Bob-K7KOL** 



From the FAQ (Frequently Asked



Questions) files

### **HOW DO I SEND AND RECEIVE**

**RADIOGRAMS?** Continued from last month. This is the final installment about handling traffic and radiograms.

### **COUNTING RADIOGRAMS**

All amateurs who handle traffic are invited to report their total message count monthly to their Section Manager.

For counting purposes, traffic is divided into a few categories, as follows:

Originated: Any radiogram originated by someone other than yourself, filed with your station for initial transmission on the air.

Received: Every radiogram received by Amateur Radio at your station. This includes all messages received, whether received for relay or received for delivery.

Sent: Any message transmitted from your station by radio to another station, whether such a message was initially transmitted from your station or was received from another station.

Delivered: Any message delivered by you to the addressee, provided that the message was received at your station by radio and that the addressee is someone other than yourself. This delivery must be an off-the-air function (by telephone, mail in-person, etc.)

The traffic total is the sum of originated received, sent and delivered points. Note that in some cases the same message can be counted twice; for example, the same message received by radio and then relayed to another station by radio is counted both in the "received" and "sent" categories, while a message received by radio and then delivered is counted both in "received" and "delivered" categories.

When transmitting or receiving messages in book form, count one point for every three messages in the book. plus another point for any over a multiple of three. That is, a book of three messages would count as a single message, but a book of four, five or six would count as two, and a book of seven would count as three, etc. "Booking" of messages is a time-saving device for those who want to use it in the interest of efficiency. It is similarly perfectly proper procedure to separate booked messages into single messages if desired; that is, the transmitting station decides in what form they shall be sent, as long as it is proper. Each message, regardless of its content, deserves to receive separate treatment. Messages handled using unauthorized "short cuts" cannot properly be included in your traffic count. 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...**

# ARRL'S "LEARN ABOUT AMATEUR RADIO" PAGE UPDATED

The ARRL Educational Activities Department has unveiled a newly updated "Learn About Amateur Radio" page on the ARRL Web at:

http://www.arrl.org/hamradio.html.
In addition to several color photos, the overhauled site has added sound, and encourages visitors to learn more about the hobby. Right now, the page--still a bit of a work in progress--includes the sounds of a SAREX contact between space shuttle astronauts and schoolchildren on Earth, a CW transmission, and hams talking on an FM repeater. Other sounds are in the works and will be added in the near future, according to Educational Activities Coordinator Glenn Swanson, KB1GW. In addition to a sound card in your PC, you'll need RealPlayer 5.0, downloadable free of charge from RealAudio, http://www.real.com/.

Swanson suggests that clubs, school groups, or individuals demonstrating Amateur Radio might want to use this new page as a starting point for their presentations.



73 to all, Matt-KJ7DX





The tentative testing schedule for remainder of 1998 will be (all Saturday's) May 9, August 8, and November 14 at 10:00AM.

Special test sessions may be accommodated according to demands, as needed. The test fee for 1998 will be \$6.35. Further information can be obtained by contacting John Wilson-KM6BF at 636-1228 or Dave Rutledge-W9KRQ at 541-1225.

All those attending for tests must have **ORIGINAL** license <u>and</u> a copy and/or Original CSCE's and 1 photo ID.

### YOUR LOCAL PRESCOTT AREA VE'S

AB7KE	Joan Tremper	AB7KF	Bob Nichols
AB7NK	Mary Miraldi	K7KOL	Bob Kane
<b>KA7NGK</b>	Don Broadston	<b>KB7FRV</b>	Leonard Beers
KC7AGL	Don Muller	AB7SK	Ginger LeGendre
KK7JH	Billy Peters	KG7OL	David Miller
KI7EB	Bill Thrift	KI7MA	John Dawson
KJ7DX	Matt Strandberg	KJ7KL	Pen Brown
KM6BF	John Wilson	N7VG	Vern Gregory
W2YAV	Bill Kafka	W6HDP	Bill Jackson
W9KRQ	Dave Rutledge	W7HP	Jim Perrone
	WF7J Walt Loesche		



THE AMATEUR RADIO EMERGENCY SERVICE (ARES)

ARES is part of ARRL's nation-wide field organization, covering all 50 states and has organized units in most states right down to the county and city level.

In 1913 no federal agency regulated radio, and TV didn't yet exist. Now the Federal Communications Commission (FCC) regulates all kinds of electromagnetic radiation.

Overall, the Amateur Radio emergency Service was organized to implement Part 97.1 of the FCC regulations:

S 97.1 Basis and purpose.

The rules and regulations in this Part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:

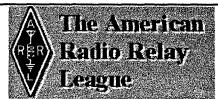
(a) Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communications service, PARTICULARLY WITH RESPECT TO PROVIDING EMERGENCY COMMUNICATIONS.... (emphasis supplied)

In most cases Amateur Radio's emergency functions simply supplement conventional communications, such as the telephone system, broadcast radio and TV, and dedicated wire and radio services operated by law enforcement agencies and public disaster response organizations.

But Amateur Radio is used surprisingly often because telephone lines and agency radio systems become damaged or seriously overloaded surprisingly often. But making the best use of amateur Radio requires a strong and flexible organization.

Courtesy of "Rich's Ham Page".

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, WA6ZZJ



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 Yayapai Amateur Radio Club





### AREA REPEATERS

Many repeaters are accessible from the Tri-City area:

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

(Linked to California)

Wildflower Mtn 145.350-Towers Mtn 145.370-

Squaw Pk (Camp Verde)145.470

Squaw Pk.(Camp Verde)145.470- 94.8pl

(linked to Phoenix)

 Bill Williams Mtn
 146.780- 91.5pl

 Prescott
 146.880- 100.0pl

 Flagstaff
 146.980- 100.0pl

 Mingus Mtn.
 147.000+ 100.0pl

 Mt. Francis
 147.040+ 100.0pl

Mt. Eldon-Flagstaff 147.140+ 162.2pl

(Linked to 147.360+ Mt. Ord)

Mingus Mtn. 147,220+

THE LEAD TO THE LAND THE LAND

Mt. Francis(Prescott) 223.960- 127.3pl (Linked to Kingman and California)

Mingus Mtn.(NorthLink) 442.150+ 100.0pl Prescott 447.650- 107.2pl

Towers Mtn. 448.575-

Towers Mtn.(NorthLink) 449.175- 100.0pl Bill Williams Mtn 449.750- 119.0pl

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- 110.9pl Strawberry(Gila Co ARES) 145.170- 162.2pl

Mt. Ord 146.660-

Smith Pk(ARA) 146.680- 162.2pl

White Tanks(ZIA) 146.700- 162.2pl

continued on page 6.....

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 Las Vegas and 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





### **NEWS of INTEREST**

by Pen Brown-KJ7KL

### **IOWA MOBILE OPERATIONS LAW INTRODUCED**

First it was Wisconsin and now its Iowa. Gerald Johnson, K0CQ, reports via the VHF Reflector that on February 23rd a bill was introduced in the Iowa house to ban the use of cell phones or any mobile radio connected to the phone system. This, after the first minute of operation while driving.

The proposal requires each mobile phone user to disconnect or pull over to continue the call. It doesn't prohibit dialing while driving, just continued talking.

K0CQ says that the bill has been sent to the judiciary committee for review. As its worded, it probably could be applied to amateur and commercial phone patches as well as cellular or PCS systems.

The bill does not prohibit continued emergency communications such as calls to 911 or limit normal emergency communications. According to Johnson, rumor has it that the congressman who introduced the bill was hit by a driver using a cell phone. Iowa hams are reportedly keeping a close eye on this pending legislation. (From NEWSLINE #1073(Via VHF Reflector, KOCQ, Newsline)

### THE \$500 HF RADIO

Last week we told you about the under \$600 high frequency transceiver. Now comes word that another company may soon an under \$500 radio available to the ham radio community. That company is ADI-Premiere.

Take a look at amateur radio HF rigs today and you'll see mostly high-end contest models. Prices in the thousands with dozens of features and front panels full of knobs and switches. Premier Communications, maker of ADI radios, believes that's enough to keep some hams off the low bands. So, Premier is thinking about going simple by offering an easy-to-use HF rig at or below \$500.

"We're basically targeting it toward the codeless licensees that have come in during the last decade. We are approaching 10 years now of the code-less license. Of course the number of upgrades are very low, so we are targeting those guys. Trying to give those guys a real obtainable thing from them to go after that upgrade."

Ken Collier, KO6UX

Ken Collier, KO6UX, is Premier's assistant sales manager. He says the company is getting a lot of response from its request for comments from hams about what features they want in a low cost HF rig.

"Basically what we're looking for is what we can cut out of a radio without severely impacting those, the sales of the radio." Collier

Of course, low cost means the radio would lack certain features like advanced signal processing. But Collier says the new model would include general coverage receive capability. The company knows the price would have to be right.

"We'd like to keep the cost under \$500 retail. And that is actual selling price. That's not the suggested retail price. Suggested retail is going to be somewhat higher than that. Whether or not we can actually do that remains to be seen, but the engineering staff would be pretty optimistic." Collier

Collier says Premier may decide later this year on whether to bring the cost and complexity of HF communications down to perhaps the lowest ever.

Vhile ADI may wind up being the first to break the \$500 barrier, another company has already come close. As reported last week, the Bellevue, Washington based SGC Corporation has announced that it has developed a new twenty watt out high frequency transceiver that carries a manufacturers suggested retail price of only \$595. (Via Newsline #1075)

# GOVERNMENT WARNS HOSPITAL OF DTV INTERFERENCE

Better late than never, the government warned hospitals and nursing homes that the imminent arrival of digital TV could disrupt important medical monitoring equipment. The warning, which the Food and Drug Administration is mailing to health care facilities comes after a Dallas TV station's digital broadcasting test stopped dozens of wireless heart monitors at two large hospitals late last month. According to government officials, this is actually the second warning for hospitals. The Federal Communications Commission issued an alert last year that the debut of digital broadcasting could cause interference with wireless cardiac, respiratory and other monitors.

As previously reported on Newsline, the problem occurs because hospitals run those devices on TV broadcast hannels that until now have been unused. The FCC classifies hospitals as "secondary users" of the

frequencies meaning that once broadcasters move in, the hospitals have to find alternative airwaves. (From NEWSLINE #1077 Via published reports)



SAT WHAT? FROM THE "I CON'T BELIEVE I HEARD IT ON AMATEUR RADIO" files:

"This radio would be great with VOX, but I have to keep pushing that darn button!"

"I hear a loud hum on your signal. Must be your power deviation."

"Every time you unkey, the squelch resets on the repeater."

"CALL-WAITING: Waiting for your new call sign!"

"I'm waiting for your deviation to stabilize."

"I tested that new antenna in 'free-space'."
(Wow, NASA would probably want to talk to you!)

"What difference does it make if you're vertical or horizontal. Your signal still gets there!"

"When I put that new antenna up I'm really going to break that repeater!"

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



### **WE WANT YOU!**

YARC Membership. Dues for membership in the Yavapai Amateur Radio Club are \$12.00 per calendar year from January 1 or \$6.00 for the remainder of the year after July 1. Dues may be paid at any club meeting or mailed to the club address. Newsletters will be mailed ONLY to those members who do not attend a meeting and who are current. Contact any club officer for further information.

FOR SALE-HEATH SB-200 AMPLIFIER-MINT CONDITION. NEW 572-B's. Contact Bill Jackson-W7HDP (520)772-9641

### THE YAVAPAI SIGNAL - APRIL 1998



\_ 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. MAY 21 @ 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, "And Famous Amos thought he was good?"

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

CARTOONS COURTESY OF WORLDRADIOTM MAGAZINE (A great publication-check it out!)

HILLS & COOD 2B BRCA

WORLDRADIO

NEW GUY MOVED IN NEXT DOOR IS A BAKER --AND HE'S GOT A TV SET WITH A WIDE OPEN FRONT END!!

BROUGHT IN ROFFEShments \$1.20
-2002 DOLVES 60 COOLIES
All BY 36 COOLIES FORE 1930

Moeo or HANS IN SPACE

YAVAPAI AMATEUR RADIO CLUB PO BOX 11994 PRESCOTT AZ 86304

Shittle Anoteur Rom Expannents

