



## Fun at 2004 Southwestern Division Amateur Radio Convention



## Sept. 3, 2004 ISS Goes Cross-Band Repeat

There's a new cross-band F-M Repeater system in space and its home is on the International Space Station. This, as the ARISS program announces that the amateur radio equipment aboard the orbiting outpost is now on the air in repeater mode.

The downlink frequency remains 145.80 MHz. The new uplink frequency is 437.80 MHz and all frequencies are subject to Doppler shifting.

ARISS leaders say that they realize that many hams will miss the packet station that the cross-band F-M voice repeater replaces. But the groups leaders say that the cross-band repeater will allow further experimentation of the ISS amateur radio system.

For further information on working satellites and adjusting for Doppler shift, please review Emily Clark's (W0EEC) excellent presentation on AMSAT's website,

[http://www.amsat.org/amsat-new/information/faqs/Intro\\_sats.pdf](http://www.amsat.org/amsat-new/information/faqs/Intro_sats.pdf) (ARISS)

(ARNewsLine)

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## W7ASC ADAW Column

Well, the SW Convention is now history. The ARRL booth was manned by Ralph, KV0R. He managed to get at least one additional volunteer! Thanks Ralph! There were several great presentations at the convention, usually the ones you want to see were at the same time, but still managed. Rick KA0KZB, did a good talk on HF Digital modulation, the ARRL (W6ROD) explained their take on the Amateur license restructuring, talks on BPL, etc. Lots of interesting items at the vendor tables, especially Elecraft's kits, and the AOR digital audio module. As far as spending money, I got a shirt.

Ralph, our illustrious leader, is working on the list of available equipment. He is looking up minimum "bid" prices ... we will do an "e-Bay" type auction with CARL members sending in their bids for equipment that interests them, Some of the stuff available includes a Kenwood 520 (tube finals), Kenwood TS450, computers, monitors, boat anchors, etc. Look for an e-mail with details coming soon.

W7ASC has WAS! Well, almost. We have all 50 states but still need the "official" check to get the certificate.

Welcome back to all the "Snow Birds". September is the month that most of our winter volunteers come back to roost. The CARL board is evaluating the possibility of new shorter hours for the fall/winter at W7ASC: 9:00-12:00 and 12:00-3:00 weekdays; 10:00-1:00 and 1:00-4:00 weekends. So far on the survey for new hours we had 29 out of 62 total replies with 23 "yes" (79%) and 6 "no" or undecided (21%). For September we will be on the "normal" W7ASC shift hours of 9:00-1:00 and 1:00-5:00.

For all of you that took the summer off, we need you back! Let me know your availability for October and of course we need new volunteers, so spread the word at your Ham Club! Call Bob at 480-961-1109 and volunteer now! A Volunteer sign-up page is available at [www.w7asc.org](http://www.w7asc.org)

-73 de KG7QJ Bob B.

[kg7qj@cox.net](mailto:kg7qj@cox.net)

480-961-1109

## THE AMATEUR'S CODE

### CONSIDERATE

never knowingly operates in such a way as to lessen the pleasure of others.

### LOYAL

offers loyalty, encouragement, and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

### PROGRESSIVE

with knowledge abreast of science, a well-built and efficient station and operation above reproach.

### FRIENDLY

slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interest of others. These are the hallmarks of the amateur service.

### BALANCED

radio is an avocation, never interfering with duties owed to family, job, school or community.

### PATRIOTIC

station and skill always ready for service to country and community.

The original Amateur's Code was written by Paul M. Segal, W9EEA, in 1928.

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## INTERESTING ECHOLINK STATISTICS

Since it was introduced in May, 2002, more than 130,000 people have become registered users in 150 countries worldwide.

### US Validations by license class:

Tech: 33% Gen: 22.6% Adv: 11.4% Extra: 29.7%

### Validated Callsigns by Country Prefix:

US: 52.3%	UK: 6.6%	Canada: 6.6%
Germany: 5.5%	Brazil: 4.4%	France: 2.3%
Italy: 2.0%	Spain: 1.7%	Australia: 1.9%
Japan: 1/8%		

Approx. 32% of active users are licensed in a country where English is not the official language.

At any given moment, there are close to 2000 stations typically on-line at once.

## MEETING HOUSE

The Superstition Amateur Radio Club Meets at the Mesa Community College, at Southern and Dobson in Mesa.

Our meeting room is in the basement of the Clock Tower, center of Campus.

## CALENDAR OF EVENTS

### BOARD MEETING

PLACE: PETER PIPER PIZZA, AT THE CORNER OF  
GILBERT AND MAIN STREETS IN MESA  
TIME: 6:30 PM, SECOND TUESDAY OF THE MONTH  
DATE: 14 SEPTEMBER 2004

### GENERAL MEETING

PLACE: MESA COMMUNITY COLLEGE AT SOUTHERN AND  
DOBSON STREETS  
ROOM: PIMA – BASEMENT AT CLOCK TOWER  
TIME: 7 PM, THIRD TUESDAY OF THE MONTH  
DATE: 21 SEPTEMBER 2004

### VE TESTING

PLACE: MESA UTILITIES OFFICE, 640 NORTH MESA DR.  
TIME: 6:00 PM, THIRD MONDAY OF THE MONTH  
DATE: 20 SEPTEMBER 2004

## FUTURE MEETING LOCATIONS

OCTOBER: KIVA ROOM  
NOVEMBER: KIVA ROOM  
DECEMBER: LOCATION TO BE DETERMINED FOR  
CHRISTMAS SOCIAL

## 2004 OFFICERS

President: Ron McKee, KD7FGY  
Cell: 480-510-3025  
Email: kd7fgy@aol.com  
Vice Pres.: Bob Burleson, KG7QJ  
Secretary: Rodney Bevill, K7RLB  
Treasurer: Ron Hedtke, AC7MN  
Directors: Bob Burleson, KG7QJ  
Terry Cross, NK7T  
Jim Hoggard, K7MY  
Jonathan Simmonds, KD7VCF  
Cynthia Thompson, KD7QZO

## COMMITTEES

### Amateur Radio Council of Arizona

Delegate:  
Alternate: Myrna Cross, KN7M

### Membership Committee

Chmn: Ron Hedtke, AC7MN

### Web Site Management

Chmn: Larry Kuck, WB7CRK  
480-986-2298  
wb7crk@juno.com

### Technical Committee

Chmn Neil Leverance, K9ZSR  
480-981-8883  
k9zsr@arrl.net

### Communicator

Editor: Rod Bevill, K7RLB  
480-839-0057  
rodbevill@earthlink.net

### Net Control Station

Wednesdays: KG7FA, John  
147.12 MHz Repeater at 8:00 PM  
Thursdays: WB7CRK, Larry  
147.12 and 28.47 MHz at 7:30 PM  
Amateur Radio Newline both nights: Provided by  
the net host

## Classifieds

Alinco 2 meter DJ195, H.T., battery operated, FM Transceiver, 1.5 yr. Old, hardly used. Al KD7TOM 602-291-8500 (\$85.00)

This space available for advertising items for sell or items wanted to purchase. Also advertise your expertise or the need for help in solving problems. This is limited to Amateur Radio needs.

## NEEDED!

We need your article for the Newsletter. Write us about your most embarrassing situation relating to Ham Radio. Send photos as well.

## Who We Are

The Communicator is published monthly by the Superstition Amateur Radio Club, Inc. (SARC), and is e-mailed to all club members.

Please notify the editor if you do not receive your newsletter, have a change of address, or have found an error. Please direct all submissions to the editor.

The SARC generally permits reuse of any article in the Communicator as long as the newsletter and the article's author are credited. However, some articles may be copyrighted by the author. Please contact the editor.

**Club Repeater:** WB7TJD/R  
147.120 MHz(+), 162.2 Hz PL  
449.60 MHz(-), 100.0 PL  
**Club Web Site:** [www.wb7tjd.org](http://www.wb7tjd.org)

## HAM TRIVIA

In what year did QST magazine first appear

- A 1901
- B 1910
- C 1915
- D 1920

Who built the first "beam" antenna

- A Morse
- B Marconi
- C Maxwell
- D Hertz

Every mobile antenna should have at it's tip a corona ball or corona tip:

- A True
- B False

In the 1930's it was common to locate automobile radio antennas under the running boards and under the 'soft

top'

- A True
- B False

What substance or material was inserted into pneumatic tires in the early days of auto radio installations in order to reduce static?

- A B-B shot.
- B Specialized talcum powder.
- C Pulverized chicken feathers.
- D A special grind of sea salt

What simple machine was employed in the early 'crank-type' rural telephone sets to 'ring-up' friends for a chat

- A Small crank type turbine.
- B Miniature air compressor.
- C Simple magneto.
- D Squirrel cage blower.

## TRIVIA ANSWERS

The first issue of QST was published in 1915.

In 1916 the first directional (beam) station was built by Marconi.

The corona ball or tip assists in dissipating static charges which build up from friction with the air as the auto is driven on the road: Rubber covered radio antennas for autos used to be installed under the running boards or step-board for entering auto.

A special talcum powder placed in the tires of autos seemed to neutralize friction static resulting from the inner tube chafing the inner lining of the tire:

A simple magneto with an armature hand cranked and turning in a bank of horseshoe magnets generated the ringing power.