

SQUELCH TALE

Central Missouri Radio Association KØSI 146.76(-) PL 127.3 January, 2006

Web Site: <http://www.qsl.net/cmra>

The Central Missouri Radio Association is a not-for-profit Mo. Association. Check out our web site: <http://www.qsl.net/cmra> . If you have ideas for Web content, see Jim, WY0B. To submit articles for this newsletter, contact N0AXZ, Bill at the next club meeting, or at N0AXZ@arrl.net . If you have any changes in your mailing address or E-mail, send it to N0AXZ at: N0AXZ@arrl.net .

Calendar for January

Our regularly scheduled monthly meeting will be held at **Boone Electric** on January 10 at 7:00 p.m.

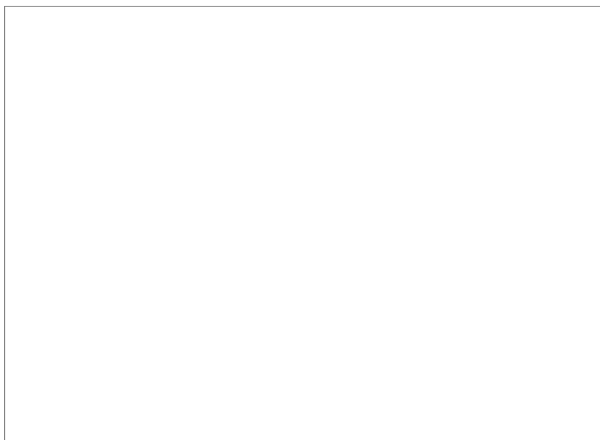
Each Monday evening (except the Monday preceeding the meeting or holiday) join with the members at the Club Station on Wroley Street in the Red Cross building basement.

Each Wednesday is Club Net at 9:00 p.m. If you're interested or willing to volunteer for Net Control or if you have any questions, contact WM0H, Dewey.

If 2006 appears on your address label your dues have been paid for this year.

To **renew** your membership for 2006, see the treasurer, N0EG, at the meeting, or mail a check for \$20.00, (\$25.00 per family) to: CMRA, P.O. Box 283, Columbia, Mo., 65205.

ANNOUNCEMENTS



10-Jan Meeting Program:

Mike Harris, KC0PAH will present the program on **CASA**, the space mission simulation that is

produced each year at Hickman High School. Three students may become licensed hams to help carry out their mission there. The club will assist with their plans including a possible Space Station QSO. Come here about this exciting activity and the space age in Columbia, MO.

Hamfests coming up:

14 Jan 2006

Winterfest
145.49 Repeater Group
Willard, MO

21 Jan 2006

Missouri Valley & Ray-Clay

St. Joseph, MO

28 Jan 2006

Winterfest 2006
St. Louis & Suburban Radio Club

Collinsville, IL

4 Feb 2006

Mine Creek ARC
LaCygne, KS 66040

For more info see: www.arrl.org/hamfests.html

December Minutes

The December meeting was Christmas dinner with great food, and friends at the Golden Corral ☺ Bob Jett stood, said a few words of thanks and greetings, and that was the meeting. Then we all continued with our wonderful meal. There were approximately 33 in attendance.

New Business: Next month will be the election of officers. Be sure to attend because you never know, you just might be one of the new officers ☺

The Christmas dinner was wonderful, and I'm glad that everyone was able to attend. We'll see everybody at the next meeting!

Until then 73's,

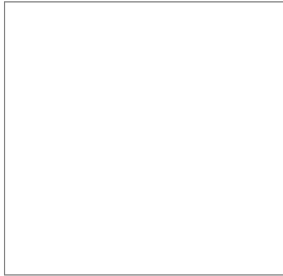
Nathan KCØLCS

--end minutes--

The following article was extracted from the complete news article at

<http://www.rac.ca/ariss/oindex.htm>

This article may prepare you for the program upcoming at the next club meeting. It was not written for the Ham community specifically, so take the reference to ham radio as a miracle for what it may mean in this context. (but then maybe we also believe in the miracle of RF transmission from a wire in our attic, too?)



"This is SUITSAT-1, Amateur Radio Station RS0RS!!"

These words will echo from space in the near future, inspiring students, exciting ham radio operators and touching the world. If all goes as planned, a unique Extra-Vehicular Activity (EVA)—or Spacewalk will be conducted on the International Space Station (ISS) in early February 2006.

During this spacewalk, the ISS crew will push a Russian spacesuit overboard---with no humans in it, of course! But this Spacesuit holds the hopes, dreams and creativity of students around the world. And for a week or two, this Suit-robotsatellite will take on a life of its own---parroting students voices from around the world, voicing down suit health telemetry and sending a special commemorative picture to all who want to receive it.

Suitsat-1 (also called Radioskaf or Radio Sputnik in Russian) mission activities will be conducted on the amateur radio (ham radio) frequencies, a bit above the FM broadcast band. The voice signals can be picked up with ham radio receivers and FM VHF (Very High Frequency) scanners—like police-band scanners.

Students, scouts, teachers, ham radio operators, and the general public are encouraged to track the space suit, hear the conversations from space, copy the suit telemetry and capture the picture. A special certificate will be distributed to those who receive the voice signals and those who capture the picture. We also will have a special award for those students who receive the "special words" that are embedded in the messages from our SuitSat student "crew members." These special words are in different languages---English, French, German, Spanish, Russian, and Japanese. So you are encouraged to record the SuitSat downlink audio and get help from fellow students who know these languages.

The Suit and On-Board Equipment

Through the miracle of ham radio, the ingenuity of the international space agencies, the help of students and schools, and the tireless work of a few volunteer "rocket scientists" Suitsat-1 was born. SuitSat is sponsored by ARISS (Amateur Radio on the International Space Station), an international working group consisting of volunteers from national amateur radio societies (the American Radio Relay League in the U.S.) and the internationally-based Radio Amateur Satellite Corporation (AMSAT).

All transmissions will be on 145.990 MHz FM. This is in the VHF (2 meter) portion of the amateur radio band. It can easily be picked up with a simple VHF hand-talkie ham radio, although ground-based antennas with higher gain are preferred to hear SuitSat for the entire 10 minute pass. SuitSat audio can also be received using a police band scanner. An external antenna is highly encouraged. SuitSat will be transmitting 0.5 watts into the same type of antenna currently used on the ISS ham radio station.

Additional Downlink Frequency and Information for Ham Radio Operators

Since SuitSat will be operating on the ISS world wide packet uplink frequency of 145.99 MHz, it is requested that all packet operations on that frequency be suspended for the duration of the SuitSat transmissions. Keeping transmissions off the downlink frequency will help to avoid local interference to the 1/2 watt downlink signal from SuitSat.

The ISS crossband repeater is under consideration for being temporarily reconfigured to listen for the SuitSat transmissions and then retransmit them on 437.80 MHz. It is hoped that persons with minimal equipment might have a better chance of hearing the SuitSat retransmissions from the crossband repeater since ISS has a power output of 10 watts.

Please help us to avoid interference problems by not using the crossband repeater while SuitSat is active because anything else the repeater hears on 145.99 MHz will interfere with the SuitSat retransmissions.

The following VHF frequencies are used for some ARISS contacts. These frequencies were chosen after much deliberation, to minimize problems between ARISS and other 2-meter users. If you have comments, please direct them to AMSAT via Frank Bauer, KA3HDO, email ka3hdo@amsat.org. We appreciate the cooperation of all amateurs making ARISS successful.

Frequencies used for ARISS

Voice Downlink: 145.80 (Worldwide)

Voice Uplink: 144.49 (Regions 2&3) 145.20 (Region 1)

Packet Uplink: 145.99 (Worldwide)

Most ARISS operations are split-frequency (each school uses separate receive and transmit frequencies). Please do not transmit on the shuttle's downlink frequency. The downlink is your receiving frequency. The uplink is your transmitting frequency. Earth stations should listen to the downlink frequency and transmit on the uplink frequency only when the ISS or spacecraft is in range and crewmembers are on the air.