



The CMRA SQUELCH TALE

AMATEUR RADIO SERVING THE PUBLIC

August - September 1995

An ARRL Special Service Club

WDØDVG Repeater 146.16/.76

CLUB STATION WORK PARTY

A work party was held at the Club Station after the Club Breakfast. In Attendance were WMØY, Esther Bowen, AAØUJ, KBØTCR, NØREF, NØYXS, WYØB, Andrew and Sarah Lawler.

Several different projects were attacked. The tower guy wires were re-tensioned, the rotor was realigned for proper orientation to agree with the rotor controller, and the driven element was removed from the Beam.

Both insulators on one side of the element were broken (one of which was almost non-existent). Also, one wire from the Balun fell off. The Club is in the process of acquiring manuals and parts to get the beam back into shape.

The antenna should really cook when the work is completed, so we should be able to put out a commanding signal from WDØDVG. This could be an interesting Contest Season!

73, es CUL ... de WYØB ...

SATURDAY BREAKFAST FUN

The Central Mo. Radio Association held it's monthly breakfast August 26th, at the Country Kitchen Restaurant on Providence Road, at 8:00 A.m. In attendance were WMØY, Esther Bowen, AAØUJ, K4CHS, WBØVML, NØREF, NØYXS, NØWYF, NØYSG, KBØTCR, NØLLZ, WYØB, and Andrew and Sarah Lawler. By all accounts it was a very enjoyable time.

Attendance was up from the first breakfast, held July 29th at 9:00 A.m. at the same location. The earlier time seems to work out better for all.

The next Club Breakfast will be held September 30th at 9:00. At this time, the location has not been determined. It will be announced on the CMRN the preceding Wednesday evening. or you can contact WYØB anytime the preceding week for more details. Plan now to attend and get in on the fun of some Great EYE BALL QSO'ing!

73, es CU There ...WYØB

P.S. If you have an idea for a good post breakfast activity, such as a foxhunt, roadtrip, construction project, etc., let me know !

Support C.M.R.A.!

Central Missouri Radio Association
P.O. Box 283, Columbia, MO. 65205

President..... Jim Lawler, WYØB
Vice-President..... Rob Emerson NØLLZ
Corresponding
Secretary..... Perry Ogletree, NØNMC
Recording
Secretary..... Bob Bosma, NØWYF
Treasurer..... John Brandt, KBØPHQ
Member-at-Large..... Jesse Bowen, WMØY

Regular Meeting the second Tuesday of each month.
The CMRA is a not-for-profit Missouri corporation. To receive the newsletter, or to submit articles, contact the editor, Perry Ogletree, NØNMC, 3609 Bray Ave., Columbia, MO. 65203-0877 [(314)445-2662]. Equipment ads by individuals will be accepted as space allows.

Club Meeting Notice

The next Club Meeting September 12, 1995 at 7:00 P.M. - NOTE: The meeting location MAY change from the Marsh Building. Signs will be posted at the previous site, if needed, and directions will be available on the 146.685 MHz. repeater.

Important items for discussion include updating and revision of the club constitution and bylaws. Text versions of the existing document and suggested changes will be posted on the COIN system and distributed via packet.

Please attend!

NOVICE / TECHNICIAN LICENSE CLASS

The Central Missouri Radio Association and the University of Missouri Amateur Radio Club are jointly sponsoring a Novice/Technician license review course that will be held over two Saturday afternoons.

A registration and information session is planned for Thursday, Sep. 21 at 7 P.M. in the Physics building on the MU campus (corner of College Ave. and Rollins.) The classes themselves will be on Sep. 30 and Oct. 7 from 2-5 P.M. in the same building.

The classes are free and open to all. The only course expense will be the license manual available at the registration session, by mail, or at local Radio Shack stores. The first class session will cover the material for the Novice exam, followed by Technician exam topics in the second class. These courses will present outlines of the topics covered in the written examinations and are appropriate for either an introduction for further self-study or as review prior to taking the exams.

For further information, contact Jesse Bowen, WMØY, at 882-1546 (daytime) or 474-7674 (evening).

-Jesse, WMØY

SOLAR CYCLE 23 WARMS UP!

QST de W1AW
Special Bulletin 46 ARLXØ46
From ARRL Headquarters
Newington CT August 23, 1995
To all radio amateurs

SB SPCL ARL ARLXØ46
ARLXØ46 Sunspot hints new cycle

Astronomers at the California Institute of Technology say they have identified the first new sunspot in the next sunspot cycle.

Scientists at Caltech's Big Bear Solar Observatory in Big Bear City, California, photographed the spot on August 12.

"This makes us happy," said Hal Zirin, professor of astrophysics at Caltech and director of the Big Bear facility. "The sun is a lot more interesting to study when things are going on."

SOLAR Continued...

Early in the 11-year sunspot cycle, sunspots appear rarely and at relatively high solar latitudes around 30 to 35 degrees, then increase in frequency and appear at lower latitudes until they reach sunspot maximum, Caltech said. After this peak in activity, the number of sunspots slowly declines, and they appear ever closer to the sun's equator until they reach a relatively quiet phase called sunspot minimum.

The sun has been in a quiet period through much of 1994 and this year, with a few spots showing up near the equator. The new sunspot found on August 12 appeared at a solar latitude of 21 degrees, and its magnetic polarity is opposite to that seen over the last decade, a key to identifying it as "the manifestation" of the start of a new cycle, Caltech said.

Scientists at Caltech said they expected an early beginning to Cycle 23, but not this early. "Sunspots in the new cycle should rapidly become more common and reach a high level of activity in 1998 or 1999," Caltech said.

NASA FREQUENCY LIST

2.622 MHz Booster Rocket Recovery
2.678 MHz Cape radio range
3.385 MHz NASA tracking
3.395 MHz NASA tracking
5.190 MHz NASA tracking (vessels)
5.518 MHz NASA tracking
5.810 MHz Booster Rocket Recovery
6.693 MHz NASA aircraft
6.708 MHz NASA aircraft
6.783 MHz NASA tracking
6.896 MHz NASA aircraft
6.983 MHz NASA tracking
7.461 MHz NASA airport
7.675 MHz NASA Kennedy ops
7.765 MHz NASA tracking
10.780 MHz USAF Cape radio (Primary)
11.205 MHz NASA Pacific operations
11.407 MHz NASA booster recovery
13.170 MHz NASA aircraft
14.456 MHz NASA tracking
20.186 MHz NASA tracking
20.191 MHz NASA tracking (Ascension Island)
20.197 MHz NASA operations (Ascension Island)
20.390 MHz NASA tracking

Constitution and Bylaw Revisions

The following is a brief list of suggested changes. Additions are shown with *Italic* type and deletions are shown with ~~Strikethru~~ type. The complete text will be available on COIN, packet, and at the meeting. Copies will be mailed if the request includes a S.A.S.E. business sized envelope.

Article III - Duties of Officers - Section 5
The Treasurer shall pay... ~~...or its officers the Executive Committee.~~ The Treasurer...

Article VI - Membership Assistance
~~This association may enact... any amateur station operation.~~ The association will...

Bylaws - 4. Dues
In accordance with... ~~...dues shall be one dollar per month.~~ \$15.00 annually individual or \$20.00 annually family. *New memberships will be prorated quarterly.*

Bylaws - 5. Executive Committee
The Executive... ~~...officers, the immediate past President and one member... membership. The last member will serve a term of two years.~~ The Executive... ~~...March meeting. No single official of the association... money than is budgeted, or otherwise approved by the membership.~~ All actions... ~~...next business meeting for action...~~

Bylaws - 8. Interference Committee
Remove

Bylaws - 9. Public Relations Committee
Remove

Another suggested change is to replace all use of he/him with the words they/them as appropriate.

New Repeater in Space

According to the Amateur Newslink report, the German Cosmonaut Thomas Reiter, DF4TR, will carry the first part of a UHF voice repeater to the MIR spacestation. As this is written, the crew change over has occurred. The Safex Two repeater will be assembled as the rest of the system is carried to MIR in future missions. The system will operate on downlinks of 437.925, 437.950, and 437.975 MHz. with an uplink in the lower 435 MHz. space subband. It is expected to require fairly high power and high gain "tracking" antennas to communicate successfully.

This sounds like an opportunity for the club to build a gateway station to allow access via the WD0DVG repeater and HTs!

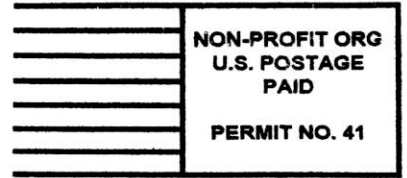
Until then, you can catch the MIR crew on the primary frequencies of 145.800, 145.550, or 145.200 MHz. The 145.550 MHz. frequency was their "old" packet and voice frequency.

Support the CMRA!

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**Central Missouri
Radio Association**
P.O. Box 283
Columbia, Missouri 65205-0283



**** Support C.M.R.A. ****
Jesse Bowen WMØY
1915 Blue Ridge Rd.
Columbia, MO 65202

For Sale

- Yaesu FT-470 dual band HT
- 2-12 volt Hi-capacity batts (new 4-95 with warranty)
- 3-7.2 volt long life batts (2 years old)
- 1 Yaesu rapid battery charger NC-29
- 1 RS speaker mic
- 1 Neoprene carry case for HT (The Pouch)
- 1 crossband repeat audio cable (homebrew)
- 1 PA-6 DC to DC battery eliminator
- 1 Wall charger

Unit is in fair cosmetic condition with normal wear and rub marks on case. Operating condition of rig is excellent. Reason for selling radio is that I just bought a new FT-51r HT.

\$350.00 for the package and for an extra \$15.00, I will throw in a dual band mag mount antenna.

If you have any questions please call (314) 449-3690 after 5pm central.

73 de DAN
NØFPE@NØLBA.#CEMO.MO.USA.NOAM

Amateur Radio License Review Class

The CMRA and University Radio Clubs are jointly holding an intensive review class to prepare interested people for their license exam. This review will be two sessions of three hours each. The class text will be available for ordering at the registration and information session. All club members are encouraged to offer their services as "Elmers" and to help supply equipment and time for a "show and tell" demo at the registration.

- Registration - September 21 at 7:00 P.M.
 - Session 1 - September 30 at 2:00 P.M.
 - Session 2 - October 7 at 2:00 P.M.
- Physics Building - College Ave. and Rollins

For more information:
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882-1546 (days)
474-7674 (evenings)

Spread the word!