

AMATEUR RADIO SERVING THE PUBLIC

CMRA Newsletter

P.O. Box 283 Columbia, MO 65205

August 1989

President George Hessenbruch III, NØIMS
Vice-President Doug Turner, NØIKD
Corresponding Secretary Jesse Bowen, WMØY
Treasurer Earl Felten, KAØIBS
Recording Secretary Dale Huffington, AEØS
Board Member-at-Large Charlie Turner, WAØR

WDØDVG
Repeater
146.16/.76
Antenna atop
Paquin Towers
at 1023 ft. ASL

Meeting Minutes

The July meeting, presided over by NØIMS, was attended by 32 members and guests. A special guest was Bill McGranahan, KØORB, the new ARRL Missouri Section Manager. Bill presented an engraved plaque to Ben Smith, KØPCK, outgoing SM. Ben was congratulated on his efforts and accomplishments during six and a half years as head of the Missouri ARRL organization.

Repeater repairs Mac, K4CHS, reported that a beefed-up spike and surge protection system is being designed for the WDØDVG repeater. The repaired controller will not be reinstalled until it is in place. Also due in soon is a new board for controlling the squelch tail.

Hamfest plans KØPCK has negotiated with Midway Expo Center for the same space we used this year, including the outside flea market area. The club voted a \$100 deposit to confirm our reservation. Also, the date published last month for Columbia Hamfest '90 was in error. The correct date of next year's hamfest is **Saturday, May 12, 1990.**

Membership Welcome to new members Mike Baker, Scott Herin (KBØEJY), Jim Lawler (NØKVO-congratulations on the new call), and Bob Pringle (WØDYZ), all elected at the July meeting. An application for membership was received from Martha Imbler, NØKHD, of Moberly, and will be voted on at the August meeting.

Financial business NØIMS asked for and received approval to pay the annual premium for insurance coverage of the club's equipment. Requested that an assistant treasurer be elected to collect and disburse funds when the treasurer is

out of town. Jess Lyons, NØFPI, was elected to this position.

Equipment donation Doug, NØIKD, reported that Gene Imbler, NØKGX, donated a Silver Eagle D104 desk microphone to the club station. George accepted the gift for the club and thanked Gene.

Public service Ann, WBØTEG, reported on the activities of club members who provided communications for the Saddle Soars Cross Country Horse Trials on Sunday, July 9. Ann coordinated communications from the starting point and other club members were stationed at jumps and other strategic vantage points around the course. There were several incidents that required attention, including some minor injuries and a "lost" horse that was reluctant to come out of the woods. Fifty-one horses in two divisions were entered in the event, requiring effective communications to maintain proper spacing around the course for safety. Others participating were Bill (KBØATZ), John (NDØN), Frank (KAØNBM), Charlie (WAØR), and Jesse (WMØY).

Missouri QSO Party

The Northwest St. Louis ARC is sponsoring the 1989 Missouri QSO party, open to all amateurs. The event starts at 2100 UTC Aug. 19 and ends 0000 UTC Aug. 21, with no time limits on operating and no power restrictions. The same station may be worked on more than one band and on phone and CW for additional points. Mobiles may be worked from more than one county. The exchange is: QSO number, RS(T), and QTH. Missouri stations send county; other stations send state, province, or country. Scoring for Missouri stations: 1 point per fixed or portable QSO, 2 points per mobile QSO. Multiply QSO points by the number of

states, provinces, and countries. Scoring for other stations: 2 points per Missouri QSO and 3 points per Missouri mobile QSO. Multiply by Missouri counties worked. Awards will be presented. Suggested frequencies:

CW-3540,7040,14040,21040,28040
Phone-3940,7240,14280,21340,28480

Mail logs by Sep. 30, 1989 to Rich Zysk, KØGSV, 3457A Humphrey St., St. Louis, MO 63118. Send an SASE for a copy of the results.

August Hamfests

W. Illinois ARC Swapfest 89 in Quincy, IL, on Sunday, Aug. 20, 8 am to 3 pm. Talk-in on 146.34/.94. For advance tickets and flea market space, contact WIARC, P.O. Box 3132, Quincy, IL, 62301

St. Charles Hamfest 89 at Blanche Park in St. Charles, MO on Sun., Aug. 27. Talk-in on 146.07/.67, 223.30/4.90, and 449.65/4.65. For information, contact Mike Nolan, KAØUXQ, 16 Gateswood Dr., St. Peters, MO 63376.

VEC Exams

The CMRA will sponsor ARRL/VEC exams for all written and code elements following the club meeting at the Boone Electric Coop. Bring your original current license and a copy, photo ID, and the \$4.75 test fee. For more information, contact John, NDØN, at 657-2391.

The CMRA Newsletter is published monthly by the Central Missouri Radio Association. To be included on the mailing list or to submit informational, editorial, or technical articles, contact Jesse Bowen, WMØY. Equipment ads by individuals can be included on a space-available basis.

Public Service Opportunities

Help has been requested for the MS 150 Bike Ride to be held Sat. & Sun., Sep. 9&10. The bike route will be between St. Louis and Columbia. For further information, contact NØIMS.

NUØT has passed on a request for communications assistance with an airshow to be held at the Jefferson City Airport on Aug. 26&27, starting at 9 am. Contact NØSS in Jefferson City for details.

CMEN Report

For the month of July, CMEN had four sessions, QNI 67, QTC 1. The Central Missouri Emergency Net meets for practice each Wed. at 9 pm on 146.16/.76. Net manager is Ben, KØPCK.

Antenna Wind Loading

Perhaps you have wondered about the wind loading factor, quoted in square feet, that is listed for large antennas and towers and how it is actually put to use. A PBS special on the Wright brothers and the calculations used in developing their airplane piqued my curiosity. The Wright brothers developed a formula for wind pressure which is still used today. I consulted an aeronautical engineer friend who verified that the formula could be applied to antennas and towers.

The formula is: $P = 0.00255 \times V^2$, where P is wind pressure in lbs/sq.ft. and V is wind velocity in mph. So, for example, if you have a 100 mph wind speed, the wind pressure is $0.00255 \times (100 \times 100) = 25.5$ lbs/sq.ft. If the antenna has

10 sq.ft. of wind loading, the total force on the antenna due to wind is 25.5 lbs/sq.ft. X 10 sq.ft. = 255 lbs.

Remember that the actual wind loading of an installation includes not only the antenna and tower, but also other fixtures such as the rotor, mast, coax, rotor cable, and brackets. The contribution of these additions must be estimated to arrive at the total wind load experienced by the installation.

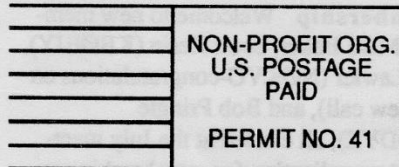
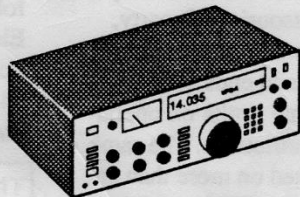
-NUØT

August Club Meeting

The August club meeting will be held at 7:00 pm on Aug. 8 in the Community Meeting Room at the Boone Electric Coop, 1413 Range Line. All are invited.

Central Missouri Radio Association

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