Editors: K9NR K9OT Volume 85 Issue 4 April 2010 Photos: K9NR Contributors: K9NR, W9NDW

APRIL MEETING FEATURES WEATHER SPOTTING

The next KARS meeting will be Tuesday, April 6th, 7PM at the public meeting room at St. Mary's Hospital. Enter via the main south entrance.

With the return of spring comes the storm season. With the storm season comes spotter activation. The next KARS meeting program will include an overview of spotter operations by John K9BYT. Also featured will be a tour of the new EmComm toolbox used during the Chicago Marathon.



An SRO crowd at the March KARS meeting enjoyed an excellent video presentation on how antennas work.

KARS KOMM TRAILER WORK

Field Day is rapidly approaching and there is much work to be done on the new KARS EmComm Trailer. N9OE is spearheading the project and needs your help.

We'll be stripping out unneeded equipment, doing necessary repairs and adding operating positions and other appointments necessary to an emergency communications trailer.

There will be a little carpentry, power ates repeaters on: wiring, antenna wiring, computer wiring 146.34/.94 and just some plain old fetch and carry. 449.8/444.8

Call Bill and volunteer to help and be Also, co-sponsors: a proud part of KARS latest efforts in 145,130 service to the public.

HAPPY RIRTHDAY

April 4	KC9OQQ
April 5	K9CWF
April 11	WB9WEC
April 17	N9MBR
April 25	W9YNI
April 25	K9OZY
April 26	K9CS
April 28	N9NAH

If we miss your birthday or get it wrong, please let us know!

KARS KALENDAR

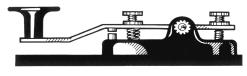
April 6	KARS General Meeting
April 18	ARRL Rookie Roundup
April 20	KARS Board Meeting
May 1	Indiana QSO Party
May 4	KARS General Meeting
May 14-16	Dayton Hamvention!!!
,	Dayton Hamvention!!!KARS Board Meeting

The Kankakee Area Radio Society oper-

107.2 PL Access 114.8 PL Access

107.2 PL Access Additionally, KARS sponsors:

144.39 2 Wide Area APRS digi-peaters 145.53 KARS DX Cluster



COMMUNICATIONS FOR MS **BIKE RIDE**

The DuPage County Amateur Radio Emergency Service (ARES) has agreed to help support the communications needs for the National Multiple Sclerosis Society's "Bike MS: Tour de Farms". Tour de Farms is a two-day fundraising bike ride through the cornfields of beautiful DeKalb, Illinois. It is one of the longest running nonprofit cycling events in Illinois with 2010 being the event's 28th year! Last year, over 1,900 participants and volunteers came out to Northern Illinois University and raised more than \$1.1 million for MS research and for services for persons living with MS.

This year's event will be held on June 12-13, 2010 and complete information on the event can be found at http:// bikeild.nationalmssociety.org/site/ <u>ageServe</u> pagename=BIKE ILD homepage.

Please note that this is not an "ARES Project," but rather an amateur radio proiect. The DuPage County Amateur Radio Emergency Service (ARES) is just providing the organizational structure to put this all together.

If you can commit to part or all of either day, or to both days, please contact me, Kent W9NDW, directly via email at emcomm@comcast.net now! We need approximately eighty (80) operator days, not including relief operators, unexpected emergencies and the like. So while you are at it, invite your fellow amateur radio friends to join you in volunteering.

NCS FOR APRIL

April 5	KC9FAV
April 12	N9LYE
April 19	K9FO
April 26	N9OE

The net meets every Monday at 2100 hours local time. All stations with or without traffic are invited to check in.

Have you started your Dayton plans?

KARS HOMEPAGE— WWW.W9AZ.COM —KARS HOMEPAGE

A 40 METER ROTATABLE MOXON ANTENNA

By Don K9NR

out the K9NR/K9QT 40 meter beam and the venerable KLM KT-34A. Since everything had to come down. I decided it was a a time consuming process. While smaller good time to also upgrade the aluminum than a full size 40M Yagi...this is a BIG urements in the polar plot below. farm.

The CC 204CD 40M Yagi was a good shortened, loaded antenna, it had shortcomings. Among these were narrow SWR PERFORMANCE to interact with a nearby 15M antenna.

design. Howard AK9F had built a 20M wire than the stock loaded Yaqi design. Moxon for our soiourn to southern Indiana a few years ago and it made a very good low 1.5:1. accounting of itself in the Indiana QSO Party. W6NL had an extensive write up of

The ice storms of 2008/2009 had taken the conversion process and I decided to "go for it."

Building and converting the antenna was than the stock antenna.

antenna for the money. However, being a about 95ft. At that height it will exhibit a have been sensitive to the Moxon's pattern desirable low angle of radiation.

In six subsequent contests including at tion. I was intrigued by W6NL's conversion of least two thousand contacts on 40 meters, the newer CC XM240 40M Yagi to a Moxon the antenna exhibited a vastly better F/B Moxon is large and it's supporting tower

The SWR from 7000 to 7300 kHz is be- task.

Bencher tri-bander mounted five feet above issue of QST. 73

Without the loading coils, the radiation efficiency should be substantially better

Ken W9YNI and I performed the measlarge rear lobe is likely due to our close It is mounted on a Rohn 45 tower at proximity. Ken's receive antenna would at approximately zero degrees elevation. The main lobe of the Moxon mounted at bandwidth, poor F/B ratio and a tendency Performance from the start was impressive. 95ft would be around 20-30 degrees eleva-

> Like any 40 meter gain antenna, the and rotor must be commensurate to the

For further on the Moxon antenna design There is no apparent interaction with the read W4RNL's article in the June 2000

