CQ Chatter

Volume B5•Issue #5 **Wood County Amateur Radio Club** **NOVEMBER 2002**
P. O. Box 534,Bowling Green, OH 43402 **http://wcarc.bgsu.edu**

President	**WB8NQW**	**Bob Willman**
Vice President	**K8NEA/KB8QEW**	**Duane Ashbaucher/Shawn Hudson**
Secretary	**AA8XS**	**John Lagger**
Treasurer	**N1RB**	**Bob Boughton**

WCARC October Meeting 10/14/02

Meeting held at the QTH of President Bob, WB8NQW. Meeting Called to Order at 19:33 hours.

No corrections to the September meeting minutes were noted.

Treasurer's Report was not given, as the Treasurer was not present.

Technical - WD8ICP reported that the noise problem that had been plaguing the repeater is now gone thanks to our recently acquired and tuned cavity. We are now requiring a 203.5 Hz PL to access the 2m repeater because the 77.0 Hz we had been using was used by a distant repeater in Indiana (not Angola). When the band was up, stations using this repeater were bringing up ours. Our 2m repeater is now putting out 40W.

Old Business - None to report

New Business -
Hamarama - We need to set the date for next year's Hamarama. We need to contact the Fair Board to determine availability of the Junior Fair Building, or if a suitable alternative is available in case the Junior Fair Building is not available in early July. We also need tickets and flyers printed out. What is needed soonest are letters to vendors. KB8QEW offered to go through the vendor list and begin this process.

Kick-Off - After discussing several options, Maggie's restaurant emerged as the favored venue for next year's Kickoff/January meeting. Maggie's has a meeting room, and the food is reputed to be good quality. However, this would require selecting a night other than Monday since Maggie's is not open then. N8QMV offered to check into the availability of their meeting room as well as their special menus (which change daily).

AA8XS motioned to adjourn, and KC8IFW seconded.

The meeting was adjourned at 1950. A demonstration of blacksmithing followed the meeting.

WCARC Weekly Net:
Tuesdays at 2130
147.18 & 444.475 MHz

Next Meeting
Monday, Nov. 11th
Location: Fairgrounds
Social Hour: 7:00 pm
Meeting: 7:30 pm

What is a radio wave?-part 2

Up to now, we have examined two seemingly different dynamic effects, a changing magnetic field produces an electric field, and a changing electric field produces a magnetic field.

Suppose we can make a set up where the current oscillates back and forth along a straight line so that if we take a snapshot picture of the current pattern it describes half a loop of a full sine wave at that particular oscillation frequency. The magnetic force field surrounding this wire will vary with the same frequency and with the same spatial pattern as the current. So, for starters, we have an oscillating current that produces an oscillating magnetic field in the region surrounding the wire. We can now apply the fact that a changing magnetic field produces a changing

November Contests

The full contest line-up for the month of November includes the following:

Nov 2-4	*2100 to 0300 Z*	all HF
ARRL Sweepstakes		**CW**
Nov 3-4	*1200 to 1200 Z*	160 to 10 m
Ukrainian DX 'test		**all modes**
Nov 8-10	*2300 to 2300 Z*	80 to 10 m
Japan International DX 'test		**SB**
Nov 9-10	*1200 to 1200 Z*	160 to 10 m
OK/OM (Czech/Slovakia) DX 'test		**CW**
Nov 10-11	*0000 to 0100 Z*	80 to 10 m
Arkansas QSO Party		**all modes**
Nov 16-17	*1200 to 1200 Z*	80 to 10 m
LZ (Bulgaria) DX 'test		**CW**
Nov 16-18	*2100 to 0300 Z*	all HF
ARRL Sweepstakes		**SB**
Nov 23-24	*0000 to 2359 Z*	160 to 10 m
CQ WWDX 'test		**CW**
Dec 6	*2200 to 1600 Z*	160 m
ARRL 160 m 'test		**CW**

November Hamfests

Nov 16-17 Allen County ARTS 9am to 4 pm
Fort Wayne Hamfest and Computer Expo and Indiana State ARRL Convention. War Memorial Coliseum Exposition Center, 4000 Parnell Ave., Ft. Wayne, IN. Contact Brad, KB9VZL, (317) 326-1659, kb9vzl@msn.com

Dec 1 L'Anse Creuse ARC 8 am to 2 pm
L'Anse Creuse High School, Reimold Rd., Harrison Twp., MI. Contact Gregg, KC8PXJ, (586) 463-0729, kc8pxj@arrl.net

electric field at right angles to it. Next, using Maxwell's idea, we can see that the changing electric field in turn produces a changing magnetic field at right angles to it. But then we have a changing magnetic field, and the whole pattern repeats itself. In this way, an electromagnetic wave is generated that involves the continuous exchange of electric and magnetic energy in space. Maxwell was able to show that these waves should travel at 300 million meters per second (186,000 mi/s). As with all waves, the wave speed is equal to the product of the oscillation frequency and the repetition distance in space (the wavelength). The length of the wire needed to efficiently launch these waves turns out to be one-half of a wavelength. We can easily calculate this length if we know the frequency of the oscillating waves.

Wavelength = 300,000,000/Frequency

WCARC Net Control Roster

Net meets every Tuesday at 2130

Nov 5	WD8ICP
Nov 12	N1RB
Nov 19	N8QMV
Nov 26	AA8XS
Dec 3	KB8QEW
Dec 10	WD8ICP
Dec 17	N1RB

Brain Teasers

1. The WAS award is given for:
(a) working all sixes in California
(b) working all states
(c) working any sideband station
(d) working all of the south

2. The DXCC award is given for:
(a) receiving a DX QSL card
(b) working all DX country clubs
(c) working 100 DX stations
(d) working 100 DX countries

3. WAZ is an award given for:
(a) working all world zones
(b) working all of Zambia
(c) working all New Zealand
(d) working all Zulus

Answers to last month's Brain Teasers:
1 (b), 2 (d), 3(c)

Activities at the October Meeting-- WB8NQW presiding

WB8ZHU & WD8ICP admiring the big machine

The blacksmith works on the final product

How can we use this to power a model plane?

photos courtesy of KB8QEW

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