

CQ Chatter

JULY 2019

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WOOD COUNTY AMATEUR RADIO CLUB

President	WB8NQW	Bob Willman
Vice President	KD8VWU	Doug Perez
Secretary	N1RB	Bob Boughton
Treasurer	KD8NJW	Jim Barnhouse

Minutes ***WCARC Meeting*** **June 10, 2019**

Bob-W8NQW, presiding

Present: John-N8MSU, Stan-K8LL, Hoot-WB8VUL, Eric-WD8LEI, Ruth-KC8EKT, Terry-KE8CVA, Bill-WD8JWJ, Jim-KD8NJW, Jim-KE8CUZ, Bob-WB8NQW, Bob-N1RB

Meeting called to order: at 19:34 with Pledge of Allegiance.

Minutes of April business meeting as published in May CQ Chatter were approved (CUZ/JWJ).

Treasurer's Report was submitted and approved (RB/CVA).

Announcements and Reports:

- Bob described the transmitter move from the Administration Bldg. to Offenhauer and showed slides of the final

configuration of the equipment in Offenhauer. The repeaters both appear to be operating normally at present.

Old Business:

- Bob reported that the HF and VHF/UHF antennas located on the roof of the Sheriff's complex are connected and need to be tested. This should be done by the time of the next business meeting in August.
- Bob reiterated the request for comments on the disposition of the Club's equipment inventory. After long discussion which diverted to talking about setting up the amateur station in the County EOC, it was agreed that the Club's 3 element Yagi should be contributed to the set up.
- Eric (LEI) reported that he had received no new information on the GOBA ride which will involve Wood County on two weekends: June 15-16

Net Check Ins

Jun 4

Traffic: 0

KD8VWU (NCS)
WD8ICP/P
KE8CVA
KE8CUZ
WB8NQW
KC8EKT
KG8FH
KD8NJW
W8PSK
N1RB
KD8ERC-Jack
WD8LEI (12)

Jun 11

Traffic: 0

KD8NJW (NCS)
KD8RNO
KC8EKT
KE8CVA
KG8FH
WD8LEI
WB8NQW
NM8W
N1RB
KE8CUZ
W8PSK (11)

BRAIN TEASERS

1. What type of antenna can be used to minimize the effects of spin modulation and Faraday rotation?
 - a.) a non-polarized antenna
 - b.) a circularly polarized antenna
 - c.) an isotropic antenna
 - d.) a log-periodic dipole array
2. If an amateur station causes interference to the reception of a domestic broadcast station with a receiver of good engineering design, on what frequencies may the operation of the amateur station be restricted?
 - a.) on the frequency used by the domestic broadcast station
 - b.) on all frequencies below 30 MHz
 - c.) on all frequencies above 30 MHz
 - d.) on the interfering amateur frequency or frequencies
3. How does the gain of a parabolic dish antenna change when the operating frequency is doubled?
 - a.) gain does not change
 - b.) gain is multiplied by 0.707
 - c.) gain increases by 6 dB
 - d.) gain increases by 3 dB

July Contests

The contest lineup for the month of July is given below. Please note that the WARC bands (60, 30, 17 and 12 m) are never open to contesting.

Jul 1	<i>0000 to 2359 Z</i>	160 m to 10 m
RAC Canada Day 'test		CW SSB
Jul 6	<i>0000 to 2359 Z</i>	160 m to 10 m
Venezuela Independence Day 'test		all modes
Jul 6-7	<i>1100 to 1059 Z</i>	80 m to 10 m
DL (Germany) DX RTTY 'test		RTTY
Jul 6-7	<i>1400 to 1400 Z</i>	160 m to 10 m
Marconi Memorial HF 'test		CW
Jul 20-21	<i>1800 to 0559 Z</i>	80 m to 10 m
North American QSO Party RTTY		RTTY
Jul 20-21	<i>1800 to 2100 Z</i>	6 m to 2 m
CQ WW VHF 'test		all modes
Jul 27-28	<i>1200 to 1200 Z</i>	80 m to 10 m
RSGB IOTA (Islands) 'test		CW SSB

July Hamfests

July 20 Northeastern Indiana ARC. Annual Hamfest. First Christian Church, Auburn, IN. web: <http://w9ou.org>

July 21 Van Wert ARC. Annual Hamfest. Van Wert County Fairgrounds, Van Wert, OH. web: <http://w8fy.org>

July 28 Portage ARC. Annual Hamfest. Maplewood Career Center, Ravenna, OH. web: <http://hamfair.com>

minutes— from p. 1

and June 22. He will distribute the info as soon as he receives it.

- Eric (LEI) also announced that there will be need for amateur participation in the annual MS Bike-to-the-Bay bicycle ride. This event will take place on June 22-23. It begins and ends at Owens Community College, but tracks north of Bowling Green, then through Pemberville as it makes its way to Port Clinton on the first day. The second day return to Owens is similar. Eric requested e-mail addresses of those who might want to participate.
- Bob asked for comments on the Hamvention. Everybody said it was very good this year, mainly because it remained dry. Also the variety and quality of the food earned an A plus.
- Next, Bob opened discussion on Field Day (June 22-23) planning. The same equipment/antenna setup will be used with generator power at the County Historical Museum. The potluck on Saturday will start around 5:30 pm and include burgers and dogs furnished by the Club. Bottled water will also be provided. All are asked to bring a side dish, salad or dessert. On Sunday morning, a breakfast of pancakes and bacon will be served bright and early.

New Business:

- Jeff (JTK) passed on a possible speaker for a Club meeting with the topic of the AREDN Mesh network. Bob asked

if people thought this is a good idea and got a positive consensus, so he will take steps to invite the speaker.

- On August 24th, the Ohio Section is sponsoring a new event: Ohio Courthouses on the air. The event lasts from 9 AM to 4 PM and involves setting up a station on or near the Courthouse grounds. The response was favorable so Bob will look into the details and report back.
- The next issue is, should the Club hold a foxhunt soon, and what kind should it be? Most members were favorable to having a mobile type (traditional) search using 2 meters. It was decided to hold the foxhunt immediately after the September 7th breakfast meeting.
- Bob reminded everybody that he wants to get an early start on forming a slate for the Officer election at the end of the year. Any and all volunteers can contact him at any time.
- Everyone was reminded that the Club is in need of a new venue for the January Kick-off Banquet, so they should be investigating likely restaurants; it would be especially good if they had buffet service and/or a separate meeting room for the event.

Adjournment: at 20:30 (CVA/VUL)

A short video presentation of a tour of WWV in Fort Collins, CO, was presented by WB8NQQ. ■

WCARC Weekly Net

Tuesdays at 2100 all year

147.18 MHz 67 Hz PL

Net Control Roster

<i>Jul</i>	<i>2</i>	<i>N1RB</i>
<i>Jul</i>	<i>9</i>	<i>KD8VWU</i>
<i>Jul</i>	<i>16</i>	<i>KD8NJW</i>
<i>Jul</i>	<i>23</i>	<i>K8OVO</i>
<i>Jul</i>	<i>30</i>	<i>WB8NQW</i>
<i>Aug</i>	<i>6</i>	<i>N1RB</i>

NEXT MEETING

Breakfast Meeting

Saturday

July 6

TIME: 9:00 AM

PLACE:

Frisch's Big Boy

N. Main St. &

E. Poe Rd.

Bowling Green, OH

10 meter Net

***informal group
meets***

Sunday

@ 20:30

on 28.335 MHz

Fusion Net

Thursday

@ 19:30

on 442.125 MHz

67 Hz PL on FM

discussion of all

things digital

Net Check Ins

Jun 18

Traffic: 0

K8OVO (NCS)
K8BBK
WD8LEI
KG8FH
KC8EKT
KD8RNO
N1RB
WB8NQW
W8PSK
KE8CVA/P (10)

Jun 25

Traffic: 0

WB8NQW (NCS)
K8BBK
KG8FH
KC8TRL-Bryan
KD8VWU
KE8CVA
KD8RNO
KD8NJW
N1RB
W8PSK
WD8LEI
KC8IJR-David
WD8JWJ
WB8ZHU (14)

Message from the President- WB8NQW

I joined the WCARC in late summer, 1971. Since then it has been my pleasure to serve in every office except treasurer several times. It is an honor to be chosen by one's peers to serve in a leadership capacity. Many club members, who are now SKs, helped me over the years to grow in this fascinating hobby we share. Hopefully I too have helped a few members over the years. Thank you all for your support.

This year we will choose a new slate of officers to serve our club in 2020. We have many members who are capable of serving in a leadership position. Holding an office is not a difficult task because all the members are willing to step up and help with whatever project we undertake. In my opinion for a small club we have accomplished some pretty amazing things. Supporting 3 repeaters and an APRS station is no small task and our technical committee is second to none.

My hope is that enough individuals step up voluntarily this year to run for each office so that we can have a real election with multiple choices for each office maybe with real ballots. Please consider signing up to run for office as early as possible so that a nominating committee does not need to twist arms. Thank you.

Explanation of the Sunspot Cycle?

from Solar Physics

A new study has suggested that the sun's 11-year solar cycle is determined by the alignment of planets. The tidal forces of Jupiter, Earth and Venus directly influence the solar magnetic field, thus causing solar maximum and solar minimum. Experts believe that the new research report will help to learn more about why the sun has a regular solar cycle.

continued---on p. 7

sunspots—from p. 6

The tidal force exerted by these planets causes changes in plasma on the surface of the sun. These forces will be higher when there is a maximum alignment of the three planets and it usually happens every 11.07 years.

It should be noted that the sun goes through an 11-year solar cycle regularly, and at this moment, we are in the solar minimum part of the cycle, where the solar activity will be the lowest.

However, during the solar maximum periods, coronal mass ejections will take place, and these solar storms could create havoc on the earth by malfunctioning technologies like the internet and GPS.

"There is an astonishingly high level of concordance. What we see is complete parallelism with the planets over the course of 90 cycles. Everything points to a clocked process," Frank Stefanie, a physicist of Helmholtz-Zentrum Dresden-Rossendorf in Germany, and the lead author of the study in a recent [statement](#).

Even though these forces exerted by planets are too weak to create drastic changes in the sun's interior, researchers believe that there could be an indirect mechanism that connects planetary alignment and the sun's solar cycle. As per the scientists, a physical effect that could change the behavior of plasma, known as Tayler instability could be responsible for solar cycles that happen at regular intervals.

"When we discovered the current-driven Tayler instability undergoing helicity oscillations in our computer simulations. I asked myself: What would happen if the

plasma was impacted on by a small, tidal-like perturbation? The result was phenomenal. The oscillation was really excited and became synchronized with the timing of the external perturbation," added Stefani.

Earlier, self-proclaimed seismic researcher Frank Hoogerbeets had claimed that [critical planetary alignments](#) are causing earthquakes on the earth. However, experts have dismissed Hoogerbeets' claims stating that no technology is capable of predicting earthquakes with precision. ■

Foxhunt Planned for September

The next foxhunt is planned to take place immediately after the September Breakfast meeting, on Sept. 7th, weather permitting. This hunt will be conducted in the traditional format on 2 meters, with mobile hounds attempting to locate the fox in his lair.

The initial call will take place on the 147.18 repeater, and the fox will issue instructions on what to do subsequently. This is a great way to test your direction finding skills—-stay tuned! ■



Views of the Repeater Move—May 24th

photos by: WB8NQW, W8PSK and KE8CVA



Bob-WB8NQW rewiring link between rcvrs and xmtrs. No more telephone lines!



John-N8MSU, Bob-WB8NQW, Phil-W8PSK



Terry-KE8CVA assisting in re-drilling some holes to accommodate the xmtrs



New xmtr rack with GE Master VHF and UHF units installed—power supply on bottom



Bob-N1RB and Jim-KD8NJW after the heavy lifting is done



VHF duplexers (cans). UHF duplexers are in the rcvr rack



Existing rcvr rack. VHF and UHF rcvrs on shelf above telephone; then CAT controller, UHF duplexers and fusion repeater.



Final assembly—rcvrs on left and xmtrs on right. Duplexers on left of rcvr rack used to combine VHF and UHF signals to feed dual band vertical antennas on the roof

**WOOD COUNTY ARC
P.O.BOX 534
BOWLING GREEN, OH
43402**

