

WATTS HAPPENIN'

Newsletter Of The Wayne Amateur Radio Club



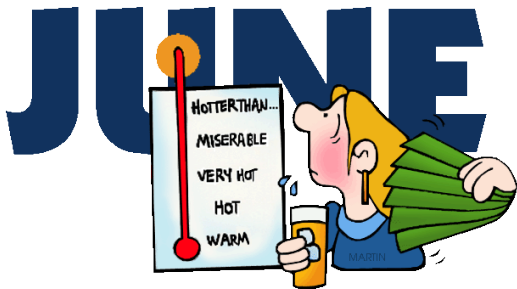
Monthly Meeting • Third Thursday
Wayne Co Communication Center • Corner of Burbank & Oldman Rds • Wooster, Ohio

W8WOO Repeaters
147.21 Mhz (PL 88.5) • 443.175 Mhz (No PL)



SERVING WAYNE COUNTY OHIO SINCE 1972

JUNE MEETING



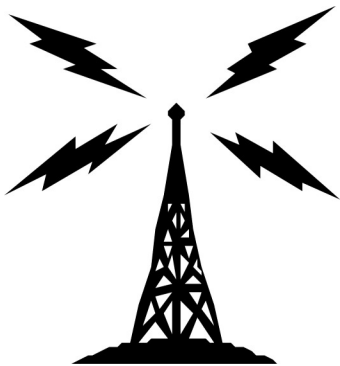
The Wayne Amateur Radio Club meets monthly on the third Thursday. For June, that would be the 20th. We meet at the communication center on the corner of Oldman & Burbank roads in Wooster. Look for the 200' tower next to the building. Meetings start at 7:30 pm.

In addition to our regular reports, we will be discussing the logistics and preparations needed for our ARRL Field Day participation.

Also, we will present and discuss an alternative plan for the use of our repeaters.

We will be monitoring 147.21 (PL 88.5). See you there.

• DX GROUP •



The group meets on the fourth Tuesday of each month. Our next meeting will be June 25, 2019, at the home of Scotty Meyer (KG9Z) at 7:30 pm EDT.

If you like to talk radio, work DX, or just need a night out this is your place. Among other things, we will be discussing recent contesting activity, upcoming contests, recent DX contacts and activities. In other words, "good ol' Ham Radio".

The WARC DX Group also promotes and participates in a weekly DX Net every Thursday beginning when you hear someone talking. The net will be on 147.345 (PL 110.9). Listen in, participate and work some DX. You'll find everyone very friendly and helpful.

Getting loaded (antenna-wise, anyway)

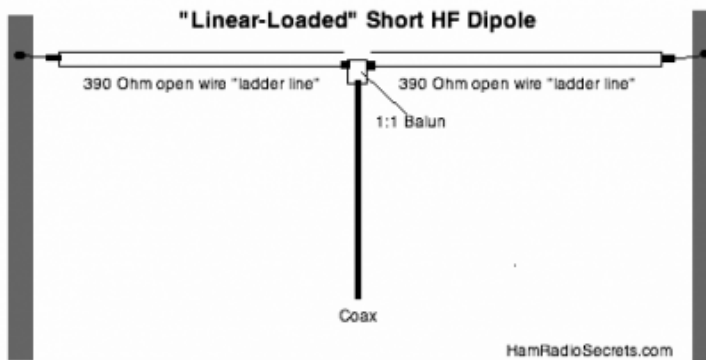
By Dan Romanchik, KB6NU

A couple of years ago, I homebrewed a "Cobra" antenna (<https://www.kb6nu.com/yet-another-new-antenna-the-cobra/>). It's a doublet antenna, meaning that it consists of two elements connected to a center insulator, where it connects to a feedline. The unique thing about the Cobra antenna is that each element consists of three parallel conductors connected in series. My antenna uses a lightweight, three-conductor rotor cable that used to be available from Radio Shack. The feedline is 450 Ω ladder line that connects to an antenna tuner to give me multi-band operation.

Connecting the conductors in this way is supposed to provide "linear loading." Somehow, running the conductors in parallel is supposed to increase the antenna's effective length. My antenna is only 73-ft. long, but it easily tunes up on 80m.

The *ARRL Antenna Book* has a short section on linear loading. It says that linear loading is a "little understood" alternative to inductive loading that can be applied to almost any type of antenna. Furthermore, "...it introduces very little loss, does not degrade directivity patterns, and has low enough Q to allow reasonably good bandwidths."

As I mentioned, I've been using this antenna with good results for a little more than two years now. When I first put it up, someone mentioned the concept of linear loading to me, but not being an antenna guru, I didn't give it much thought. About a week ago, though, I ran across a link to the page Short Ham Antennas for HF (<https://www.hamradiosecrets.com/short-ham-antennas.html>). That got me thinking about the topic again.



This page describes a way to build a linearly-loaded dipole antenna with a feedpoint impedance of approximately 35 Ω . This allows you to feed it with coax instead of the ladder line that I use. The author uses 390 Ω ladder line for the elements. He says it's commonly available, but I don't think I've ever seen 390 Ω ladder line. You could probably use 450 Ω ladder line by adjusting the element lengths a little.

At that point, I started Googling. The next linear-loaded antenna design that I ran across is a design from M0PZT (<http://www.m0pzt.com/40m-linear-loaded-dipole/>). He built his elements from some sturdy wire and homebrewed spacers made from PVC pipe. He's used this design for the 40m elements of a fan dipole covering the 40m, 20m, 15m, and 12m bands. Only the 40m elements are linear-loaded.

I also found a design for a linear loaded vertical antenna for 40m and 80m (<https://www.qsl.net/pa3hbb/ll.htm>). This antenna is only 7.736m, or 25.4 ft. tall. Of course, it requires a good radial system to work well, but it will work a lot better for DX than a low doublet or dipole.

Finally, there's an eHam discussion on linear loading (<https://www.eham.net/ehamforum/smf/index.php?topic=84418.0>). Unlike a lot of eHam discussions, this one is quite civil. It's worth reading if you're interested in the topic.

So, if you're thinking of getting loaded, errrrr, I mean loading your antennas, here's a method for you to consider. It works!

Wayne Amateur Radio Club

Minutes of May 23, 2019 Meeting

Vice-President Garry Foster (W8GMF) opened the meeting at 00:25Z hours with 16 members and guests present.

Secretary's Report • Russ McQuate • K8RMC

The April 2019 minutes were published in the monthly newsletter with copies available at this meeting. A motion to accept the minutes was made, 2nd and passed.

Treasurer's Report • Russ McQuate • K8RMC

A report detailing the current finances of the WARC was presented and discussed. A motion to accept this report was made, 2nd and passed.

Trustee's Report • Garry Foster • W8GMF

Garry reported no "hiccups" in repeater operation. Mention was made of SARA club members willing to help with a digital conversion of our equipment.

Emergency Coordinator •

Currently, the club has no appointed EC representative and therefore, no report.

Skywarn – Stan Kinney • N8RNK

No activity for the period. Stan discussed the "Backbone" operation and details. We also discussed the success of EMA's Skywarn Training session.

Steering Committee • Duane • WD8BVV

No report

DX Group • Russ McQuate • K8RMC

- The April meeting was at Dave Balint's shack (N8IW) on the 23rd. The May meeting will be at John Bastin's shack (K8AJS) on the 29th.

Hamfest and Computer Shows

Follow links in newsletter or go to W8WOO website.

Old Business

ARRL Field Day • We are planning to operate as a 1F station with one HF and one VHF transceiver. We will be using the Comm Center facilities. We discussed our various obligations in setting up the station.

Mohican 100 Mile Run • Stan Kinney (N8RNK) reported that hams will be used for general communications and that runner tracking will be independent. He will find out whether we will be keeping track of DNF's.

New Business

Doug Hunter (KE8JNH) applied for and was accepted as a new club member.

A motion to appoint Garry Foster (W8GMF) as Repeater Trustee was made, 2nd, and passed.

A request for ham radio operators was made for the "Heart & Soul" race to be held in Wooster, August 3, 2019. Tom Zilko will contact the organizers and get us the details.

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ADJOURN

Next meeting • June 20, 2019.

Motion to adjourn was made, 2nd and passed.

Submitted by Russ McQuate • K8RMC • WARC Secretary

MOHICAN 100

All went well at this year's event. Our normal activity of tracking runners was handled by Vertical Runner of Wooster and seemed to work well and efficiently. Interested people were able to log on to the web and look up runners and observe results.

Hams provided all communication activities that could not be handled by Mohican staff or on-site medical people. A big "Thanks" goes out to the participating hams:

Mike Brugger N8CEY	Russ McQuate K8RMC	Duane Hart WD8BVV
Mark Welty N8MFS	Jeff Hardman KC8HI	Dave Rose N8GZ
Michelle Rose KE8KPZ	Garry Foster W8GMF	Baji Panchumanarti K8IIT
Amy Panchumanarti K2KSU	Tom Cloyes Ki8IZ	Margaret McGuire KX4ED
Dave Ricon NF8O		

Many of the above hams worked most of the night and into the next morning. And we don't want to forget Stan Kinney N8RNK for his preparation work.

ARRL FIELD DAY



ARRL Field Day will be Saturday, June 22, 2019. and Sunday, June 23, 2019. Operating starts at 1800 UTC (2:00 pm EDT) on Saturday and runs 24 hours. 160, 80, 40, 20, 15, and 10 meter bands and all bands 50 Mhz and above may be used. All modes are permitted.

WARC will be operating as a category 1F station meaning that we are operating in an EMA facility and using one HF station and one VHF station.

We will be operating from the Wayne County Communications Center at the corner of Oldman and Burbank roads. Set up will start at 9:00 am EDT on Saturday morning.

Come and have fun. Operate, see friends and have a bite to eat.

HOPE TO SEE YOU ALL THERE!

2019 CLUB DUES ARE DUE

Dues for the 2019 year are currently due and payable.
A single membership is \$17 and additional family members \$1 each.
Please pay the Treasurer directly or mail to :

WARC
P.O.Box 881
Wooster, OH 44691

WEEKLY CLUB NET

Every Wednesday evening at 9:00 PM local time (0100Z), the Wayne Amateur Radio Club sponsors a net on 2 meters and 70 cm using both of the club W8WOO repeaters. The frequencies are 147.21 Mhz and 443.175 Mhz (no PL). For both net and emergency purposes, the repeaters are crosslinked. Tom Zilko (N8JBG) handles the check-ins and net activity. It is a general information net and everyone is welcome to participate. Give it a try.

MONDAY LUNCHEON

Every Monday at 11:30 am, area amateurs meet at the north end Wendy's (by Lowe's and Walmart) for lunch. All amateurs and friends are welcome.

ANYTHING TO ADD?

If you have any announcements that you want to put in a newsletter or you feel inclined to write an article, let me know. You can email me at K8RMC@arrl.net and I'll do my best to get it in writing.