



News Beacon

Medina County Amateur Radio Club

Editor's Preface

“Summer afternoon—summer afternoon; to me those have always been the two most beautiful words in the English language.”

Henry James

The next two most beautiful words to many Hams are “Field Day!” MCARC will be operating out of Mill Stream Park in Valley City again this year on June 24 and 25th.

We need your participation! A sign-up sheet is found on page two, and Fred K8FH will be finalizing plans at our June 12th meeting. Our Field Day is a perfect, friendly Summer outing, that also provides a fun, yet serious side, in practicing communication preparedness.

A big, earnest, Happy Father’s Day shout-out to every Dad, and others who act as Dads, who influence children of all ages. A male perspective is critically important in our lives, as are a woman’s, since we all coexist in this world together. Children need to learn cooperation, empathy and respect from multiple viewpoints, and Dads are a huge part of the equation.

So, enjoy these warm, Summer afternoons—evenings too, with family, friends, and new acquaintances, either in-person or on-air.

73,

Jane@K8JGR.radio

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Hmmmmmm...

I should change my name to Billy.

...And when I log on the Club net, I can finally be a Billy-on-air.

ARRL Field Day, June 24-25, 2023



The Medina County Amateur Radio Club

ARRL Field Day 2023

Saturday, June 24 & Sunday June 25, 2023

2:00pm Saturday to Noon Sunday

Where... **Mill Stream Park**

Maple Street, Valley City, Ohio 44280

All Are Welcome!

Bring yourself, your family, fellow Hams, friends and neighbors to join/see field communication in action!

Contact: Fred, K8FH@ARRL.net or Ed K8NVR, eeyerdome@gmail.com

Field Day is Ham Radio's open house. Every June, more than 40,000 hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skill and service to our communities and our nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event.

Field Day has been an annual event since 1933, and remains the most popular event in Ham Radio. There are more than 700,000 Amateur Radio license holders of all ages and abilities who manipulate radio waves to communicate across the country, the world, and even across our solar system.

www.W8EOC.org

June 24th & 25th Field Day—SIGN UP SHEET

Our Field Day Chair, Fred K8FH, will need help setting up for the 2023 ARRL Field Day at Mill Stream Park, 1200 Maple St, Valley City, OH 44280 on Saturday, June 24th about 9:00am. Help will also be needed to close down and clean up around noon on Sunday, June 25th. Please notify Fred or Ed K8NVR if you plan on operating one of the stations, day or throughout the night.

Please email Fred, K8FH@ARRL.net or Ed K8NVR, eeyerdome@gmail.com to indicate whether you will be volunteering for:

- Set-up June 24th, 9am _____
- Operating Digital _____, approximate day/time _____
- Operating SSB _____, approximate day/time _____
- Operating CW _____, approximate day/time _____
- Clean up Sunday, June 25th, tentatively around 12-noon, but time-modified by weather and operator involvement _____

NAME _____ CALL SIGN _____ CONTACT _____

May In-Person General Meeting Minutes

The monthly General Meeting, was held May 8, 2023, in-person at the Medina County Career Center (JVS). The meeting was called to order by Vice President, Jane K8JGR and the Pledge of Allegiance was recited at 7:00 pm. The following sixteen (16) paid members attended, so quorum (9) was reached.



Fred K8FH	Gail KD8GGM	Tamara WA8KGV	Dave KE8APO	Rick KE8CSW
Diane KD8SSX	Bob K8MD	Toby WT8O	Steve KE8BJD	Ray K2RWO
Ken K8TV	Baji K8IIT	Jane K8JGR	James KD8FHY	Chuck K8KMA
John K8JEK				

Secretary's report: Motion to suspend reading of the minutes of the April meeting as published in the May Club newsletter made by Toby WT8O, Second by Diane KD8SSX. Approved with no corrections.

Treasurer's report for April was read by Treasurer, Toby WT8O. Motion to approve: Dave KE8APO, Second: John K8JEK. Approved.

Vice President's Report: *Long time member Dan Jenkins W8DEJ recently passed away. Details on memorial in May newsletter. *Another member Joe Rizzo (N8BOO) passed away last Monday. *NOARS club is hosting a POTA event at Findlay State Park on May 13th at 10 am. *Club patches are available for \$5 each. See Jane for these. *Baji brought an assortment of amplified speakers, free to members. *The Event Support Group is looking for more volunteers for the upcoming Cleveland Marathon.

Membership: Diane KD8SSX reported no change since last month (i.e. 61 current members)

Net Control: Baji K8IIT reported that the net schedule is covered through July.

ARES: There was a discussion regarding a memorandum of understanding with the EMA. Although expired, the Club has no issue with EMA/ARES using the Club repeater for events and emergencies. Ken K8TV commented that the tower and repeater at the JVS also has no official memorandum of understanding. Although we originally had 24 hour access, currently our access is more limited.

Hamvention: is May 19-21. Info is in the newsletter and the CARS website has bus info for May 20.

Field Day: Field Day is June 24-25 in Valley City. Volunteers and operators (particularly overnight operators) are needed. We will take a headcount at the June meeting.

Announcements & Comments: *Reminder that Ham Radio is exempt from the new Ohio distracted driving law. *We will be having all upcoming summer meetings at the JVS (Career Center) rather than the Senior Center this year. *For sale: The estate of John AC8E has available a 2M FT2200 radio NIB from 1993. Ed K8NVR tested it and it works, although internal audio is poor. Price is \$75. It will go to the Hamvention if not sold by then. See Ed if interested.

Motion to Adjourn: Made by Diane KD8SSX, Second by John K8JEK. Meeting adjourned at 7:25.

Technical Presentation: New FCC requirements for RF exposure testing.

Respectfully submitted by Dave KE8APO

Club Meetings

In the MCARC General Meetings will be held at the **Medina County Career Center (JVS) Room 246** at 7:00pm.

Should the rear entrance to the JVS ever be locked on MCARC meeting nights, you will have to enter through the front door and will have to provide personal computer input at the entrance kiosk in order to be allowed to enter.

Medina County Career Center, aka: JVS, is located at:
1101 W Liberty Street, Medina, 44256

Member Birthdays

James Johnston KD8FHY 06/07

Tracey Liston W8TWL 06/27

MCARC Calendar

- June 5** 7:30pm Monday Night 2M Net
- June 12** 7:00pm IN-PERSON MEETING at Career Center (see pg 6)
- June 19** 7:30pm Monday Night 2M Net
- June 24-25** ARRL Field Day
- June 26** 7:30pm Monday Night 2M Net

ARRL Ohio Hamfests

- 06/03/2023** FCARC Summer Hamfest
Location: Roth Family Woodlot Park
105 Hill Ave.
Wauseon, OH 43567
Sponsor: Fulton County Amateur Radio Club
Website: <https://k8bxq.org/hamfest>
Talk-In: 147.195+ 103.5PL

ARRL Contests

- June 3-4** International Digital Contest
- June 10-12** June VHF
- June 17** Kids Day
- June 24-25** Field Day

Saturday 8am Breakfast

Check with your friends to see if they will be joining you at the **Cracked Egg Restaurant** at 1475 Pearl Rd in Brunswick, opposite the Middle school, Saturdays at 8am.



Scientists Discovered a New Circuit Element: a 'Meminductor'

Even after 200 years, circuits are still blowing our minds.

Scientists have discovered a new component of circuitry.

For centuries, we thought circuits only had three basic parts: inductors, capacitors, and resistors. But over the last 20 years, scientists have discovered “memory” versions of capacitors and resistors—memcapacitors and memresistors.

Recently, a team of experts discovered yet another circuitry element—the meminductor. These “mem” versions can remember their properties even after powering down.

Circuits are borderline omnipresent. They're also nothing new. Electrical circuitry allows us to power everything from our cars, to our computers, to the lights in our homes. And the first simple circuit was created in 1800.

In the over 200 years since the first circuit was created, circuits didn't change much on a fundamental level. Each one was a combination of three elements: inductors (which store energy in a magnetic field), capacitors (which stores energy in an electric field), and resistors (which restrict the flow of electricity).

But in 2008, that changed pretty dramatically with the invention of the memristor, a resistor that can remember—hence the “mem” prefix—their assigned properties even after the circuit has been switched off and back on. The discovery of the memcapacitor followed 11 years later.

And recently, a team from Texas A&M has announced the discovery of another new circuit element—the meminductor. “Those two discoveries set the world a little bit on its head as far as electrical engineering,” H. Rusty Harris, one of the researchers that discovered this new component, said in a press release:

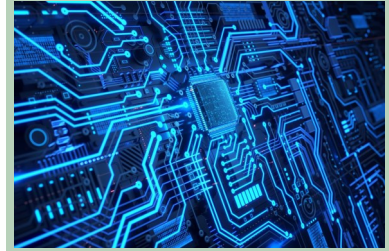
“All of the sudden, we thought we had three, but now we found these two others. And so that led us to think, ‘OK, there’s got to be more than, but how do we understand what they are? How do we map all of these things relative to each other?’ And it turns out, there is a relationship between each of the resistors and its family and each of the capacitors and its family.”

To find this sought-after element, the team set up a circuit comprised mainly of an electromagnet and two permanent magnets to take a look at the density and strength of a magnetic field flowing through an inductor. Using this technique, the researchers were able to uncover a particular “mem” signature inside the inductor which, according to a news release, led to the inductor’s “mem- state, or memory-like nature, by the same definition that the memristor and memcapacitor were realized.”

This discovery rounds out the expected series of the “mem” versions of standard circuit elements. But right now, the element isn't a pure meminductor in and of itself—it's a regular inductor that is expressing meminductor behavior.

In the future, the team hopes to improve upon their finding, and eventually produce a meminductor that functions more purely as a meminductor. According to their paper, they believe this could be done at extremely low temperatures. But for now, the team is happy with their results, and their process. "New discovery is very exciting," Harris said in a press release. "And the student-professor interaction on this project was beautiful."

Even in the 200-year-old world of circuitry, it appears we still have something to learn.



By Jackie Appel, *Popular Mechanics*: Apr 17, 2023



Thank you to Dave KE8APO for this month's cartoons

Hamatuer Antix



MCARC will be holding Technical Sessions during most of our in-person General Meetings on the 2nd Monday of each month.

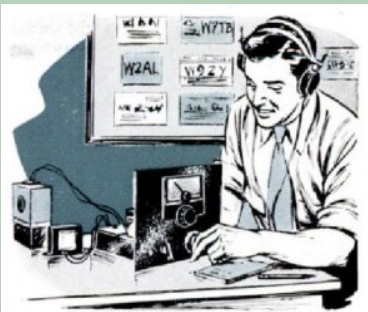
June 12th General Meeting

Meeting will start at 7pm

Come join us at our **In-Person General Meeting on June 12th**, held at the Medina County Career Center, Room 246, at 7:00pm.

The Medina County Career Center (JVS), is located at: 1101 W Liberty Street, Medina, Ohio 44256

President, **Ed K8NVR**, will present the Technical Session video presentation on *Receiver Operation: How Receivers Work*.



Dits and Dahs

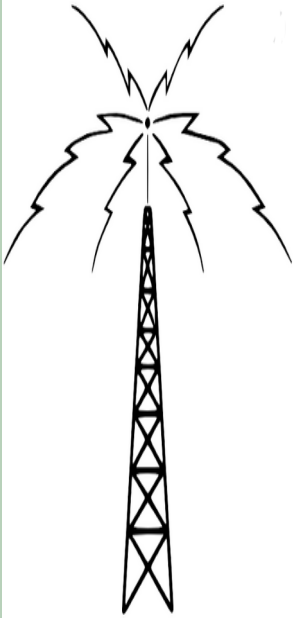
- **NOTE TIME CHANGE— General Meetings now start at 7pm**
Come join us at our **June 12th General Meeting** at the Medina County Career Center, Room 246, at 7:00pm.
- Our **2-Meter, Monday Night Nets** are still held at 7:30pm, except for the second Monday of each month when we hold our General Meeting. More info on the MCARC Net is found on page 8.
- **Amateur Radio Kids Day** is Saturday, June 19th. Our friends at Parma Radio Club (PRC) is hosting an event at the Stearns Homestead. For more information see <https://www.parmaradioclub.com/>
- Bob K8MD sent us a FCC Notice that shows **willfully interfering with radio communications can result in harsh penalties**. On May 30th, The FCC proposed, “...a penalty of \$24,000 against Philip J. Beaudet (Beaudet) for apparently willfully and repeatedly interfering with the radio communications of the Western Amateur Radio Friendship Association (WARFA) while it was attempting to hold a regularly scheduled net and for failing to provide station identification on amateur radio frequencies.” <https://docs.fcc.gov/public/attachments/DA-23-449A1.pdf>
- Our **club patches**, are available from Jane K8JGR, at meetings for \$5.00.
- The **2023 Dayton Hamvention** in May was as exciting as ever. With hundreds of vendors inside, and a mega-flea market outside, radio toys of every description were available. Add to that tens of thousands of smiling attendees and you have a cool experience! Start making plans for next year!



Photo's of Hamvention flea market Club hangout, provided by Fred K8FH



MCARC Repeaters



Call	Location	Function	Repeater Input	Repeater Out	CTCSS (PL)	Band
W8EOC	Medina (Main Site)	Repeater TX & RX	147.630	147.030	141.3 One Beep	2 Meter
W8EOC	Brunswick (North)	Receive only	147.630	From Main Site	131.8 Two Beeps	2 Meter
W8EOC	Lafayette (South)	Receive only	147.630	From Main Site	88.5 Three Beeps	2 Meter
W8EOC	Lafayette (South)	Split Site Repeater	51.160	51.660	N/A	6 Meter
	Brunswick Hills					
W8HN	Medina Main Site)	Digital C4FM TX & RX Repeater	147.885	147.285	(0)	2 Meter
		Analog TX & RX Repeater	147.885	147.285	(110.9)	2 Meter
W8EOC	Medina (Main Site)	Repeater TX & RX	223.260	224.860	-	1.25 Meter
W8EOC	Lafayette (South)	Repeater TX & RX	449.925	444.925	131.8	70 CM

TRAVELING? Check out <https://repeaterbook.com/> for a free, worldwide repeater reference. It supports GMRS as well.

2-Meter Net

Remember to join us on the 2-Meter Net on 147.030 Monday evenings at 7:30pm except for 2nd Monday of each month when we have our **In-person** meetings.

You do not have to be a member of MCARC to participate.

MCARC Monday Night 2-Meter Net Control

05-Jun-2023	K8NVR	12-Jun-2023	Meeting
19-Jun-2023	KD8SSX	26-Jun-2023	KE8UUF
03-Jul-2023	WT8O	10-Jul-2023	Meeting

Contact Baji K8IIT, ohiobaji@gmail.com, if you would like to serve as NCO.

NCO openings can be found at:

<https://b.link/2023-nco>

MCARC Membership

Please become a member or renew your **Medina County Amateur Radio Club** membership. Dues are our primary source of income and are used to pay for the administrative costs of liability insurance, website domain registration fees, web hosting for www.W8EOC.org., maintenance costs of repeater and towers along with passing on fun perks to you, our members. Our new/renewal Membership Form and information can be found on our website <http://w8eoc.org/membership>.

ARRL Membership

Consider paying your dues for **ARRL membership** through our club Membership Chair, Diane KD8SSX. MCARC will retain \$15.00 for each NEW membership and \$2.00 for each renewal. A copy of the ARRL Membership Application/Renewal form can be obtained from Diane. Email her at d.snider@frontier.com.

Please consider volunteering. We really would enjoy seeing fresh faces and hearing new ideas to keep the MCARC relevant and viable in 2022. Do you like designing or maintaining websites, organizing speakers for technical sessions, writing for the newsletter or teaching members new skills? Please let Jane K8JGR know. Thank you.

Who's Who

President:

Ed Eyerdom K8NVR
<https://hamsci.org/node/677>

VP: Jane Reed K8JGR
jane@K8JGR.radio

Treasurer:
Toby Kolman WT8O

Secretary:
Dave Swancer KE8APO

W8EOC Repeaters:
Ed Eyerdom K8NVR
Ken Koyan K8TV

Sunshine:
Diane Snider KD8SSX

Trustees:

Doug McClure KD8SST
Dave Oravec N8JNX
Ray Orobona K2RWO
Amy Panchumarti K2KSU
Steven Stein KE8BJD

Newsletter:
Jane Reed K8JGR

Field Day:
Fred Helwig K8FH

Membership:
Diane Snider KD8SSX

Program:
Open

Websites:

Jane Reed K8JGR
Jeff Crow KE8UUF

Net Scheduling:
Baji Panchumarti K8IIT

Social Events:
Gail Helwig KD8GGM

Skywarn:
Tracey Liston W8TWL

ARES:
Bob Mueller K8MD

RACES:
Dave Rickon NF8O



MCARC on the World Wide Web

www.W8EOC.org

Also,
"Like Us" on **Facebook**

**www.facebook.com/
MedinaCountyAmateur
RadioClub**

About Our Organization

The Medina Two Meter Group (M2M) Inc. DBA: the **Medina County Amateur Radio Club** is a nonprofit, ARRL Special Service registered, Amateur Radio organization based in Medina County, Ohio dedicated to communication, public service, education and fellowship.

Many of our members are also involved with Skywarn, ARES, RACES, and assist with emergency communication or community events such as bicycle and foot races.

We usually meet on the second Monday of each month at the Medina County Career (JVS) Center, upstairs Room 246.



Medina Two Meter Group (M2M) Inc.
DBA:
Medina County Amateur Radio Club

1254 Hadcock Road
Brunswick, Ohio 44212

Admin@W8EOC.org

PLEASE
PLACE
STAMP
HERE

TO: