March 2022
Vol V Issue 3

News Beacon

Medina County Amateur Radio Club

Prez's Preface

"May your neighbors respect you, trouble neglect you, the angels protect you, and Heaven accept you."

— Irish toast

The above quote makes a great St. Patrick's Day toast, but an even better prayer for the people of Ukraine. The horror of the ruthless Russian invasion on a democratic nation, sucker punches all of us in the gut. Please keep the people of Ukraine: mothers, brothers, children, and all in your hearts. And pray that the bloodshed will stop, for the sake of the entire world.
Peace,
Jane@K8JGR.radio

Caring Corner

Keith Michal W0AHA's wife Elva, is out of physical rehabilitation after breaking her arm and is getting better at home. We wish her a speedy and complete recovery.

Inside this issue

Hmmmmmmm…

Why couldn't your hear the electronic doorbell?

Because it was ah… low-ding.

Ukraine Maintains Ham Radio Silence in State of Emergency

Radio amateurs in Ukraine appear to be diligently maintaining radio silence as the state of emergency declared there just prior to the Russian military invasion remains in effect. A February 24 decree from President Volodymyr Zelensky included “a ban on the operation of amateur radio transmitters for personal and collective use.” The Ukraine Amateur Radio League (UARL/LRU) reported this past week that it has received many messages of encouragement from the worldwide amateur radio community.

“The LRU informed international amateur radio organizations about Russia’s military invasion of Ukraine,” said the message from UARL Vice President Anatoly Kirilenko, UT3UY. “To date, there have been many reports from radio amateurs around the world in support of Ukraine.”

The International Amateur Radio Union (IARU) has adopted a neutral stance. “IARU is an apolitical organization focused on promoting and defending amateur radio and the amateur radio services,” the IARU said. “The amateur radio service is about self-instruction in communications and friendship between people.” IARU Region 1 has said it continues to monitor the development and expects all radio amateurs “to follow their national laws and regulations.”

IARU Region 1 also re-posted part of an advisory from the Deutscher Amateur Radio Club (DARC) HF Committee on February 27. “Any radio amateur currently transmitting from Ukraine is risking his or her life. If you hear a Ukrainian station, do not broadcast its call sign, location, or frequency — whether on the band, in a cluster, or on social media. You may be putting lives at risk.” The DARC’s overarching advice: “In the current situation, the best we can do is listen.”

Ukraine’s assigned amateur radio call sign prefixes include EMA – EOZ and the more commonplace URA – UZZ. Some stations with Ukrainian call signs may still be active, because an exception to the amateur radio ban was made for stations in the Donbas region of eastern Ukraine (eastern Donetsk and Luhansk oblasts), which have special legal status owing to Russia’s occupation since 2014.

In a Facebook post, Poland’s IARU member-society PZK has offered available Winlink nodes in Poland for any licensed refugees. If you are a licensed amateur radio operator, you can send information by email to your relatives in Poland or Emergency Services via the Winlink system. Polish Winlink nodes are active on 160, 80, and 20 meters: SR5WLK, 3.5955 MHz USB; SR3WLK, 14.111 MHz USB, and SP3IEW, 1.865 MHz USB.

W9IMS, the Indianapolis Motor Speedway Amateur Radio Club — known for its special events commemorating major races at the Speedway — has posted a statement on its QRZ.com profile expressing its concern for well-known QSL maker Gennady V. Treus, UX5UO. The statement reads in part, “His last email to us said: ‘This moment we are safe, but we hear strong explosions near Kyiv. Do not know what will happen in nearest hours/days.’ We have not heard from him for days now. We are greatly concerned for Gennady and his family along with all the other citizens of Ukraine.” — Thanks to The Daily DX, PZK, and to Brian D. Smith, W9IND, for some information. *ARRL 03/03/2022*

February 14th On-Air General Meeting Minutes

The February 14th, 2022 Member Meeting was held on-air because of Coronavirus resurgence.

The net opened at 7:30pm with check-ins logging onto the 147.030MHz repeater. The net was controlled by Toby WT8O.

The following (14) paid members (*and guests*) were present (X - not) for the meeting:

Jane K8JGR	Doug KD8SST	John K8JEK	Bob K8MD
Dave KE8APO	Steve KE8BJD	Toby WT8O	Diane KD8SSX
Keith W0AHA	Amy K2KSU	Gordon AI8Y	Jim KD8FHY-X
ED K8NVR	Baji K8IIT	Julio KE8JIE	Steve W8HF –X

Quorum (9) was reached.

NCO, Toby, asked net participants for their first go-around comments.

Doug then transferred control over to President, Jane K8JGR to conduct the regular monthly meeting...

***The **meeting was called to order** at 8:00pm and opened with the Pledge of Allegiance.

Secretary's report: Motion to suspend the reading of December 13 minutes as published in the January newsletter by Dave KE8APO, seconded by Julio KE8JIE . There were no objections or corrections, so the minutes were approved as presented.

Treasurer's report (Nov/Dec): read by Jane
Motion to approve: Doug KD8SST, Second: Toby WT8O, Approved
(Note that this is a corrected report that was resubmitted.)

Treasurer report (January): read by Jane
Motion to approve: Diane KD8SSX, Second: John K8JEK, Approved

President's report: Jane asked if any member went to the recent Hamcation event in Florida. No member mentioned attending.

Tentatively we will have an in person meeting in March at the senior center. This will be discussed with the trustees in the next few weeks.

Repeaters: Ed (K8NVR) stated that everything is currently working. There was a squelch/noise problem associated with the Brunswick repeater that seems to have cleared up.

Spring Banquet: Will be held in March. Invitations are being sent out.

New business: : Doug KD8SST mentioned that there was an outstanding item that still needed approval due to a lack of a quorum at the previous trustee meeting. The item was the net participation awards. Jane stated that it will be again brought up for approval at the next trustee meeting when a quorum is available.

Motion to Adjourn: Made by Baji K8IIT and seconded by Amy K2KSU. The meeting was adjourned at 8:00pm.

***K8JGR transferred control back to NCO, Toby WT8O, who continued the net with a second round of comments, before returning the repeater back to normal operations.

Respectfully submitted by Dave KE8APO

Club Meetings

The Medina County Amateur Radio Club will be cautiously holding in-person meetings on the second Monday of each month while the threat of Coronavirus is under control.

In March the MCARC General Meeting will be held at the Senior Center at 7:30pm. Please arrive early since doors will be locked by 7:30pm.

Medina County Senior Center (Basement) aka: Medina County Office for Older Adults 246 Northland Drive Medina 44256.

Member Birthdays

David Rickon NF8O	03/04
Doug Daniels KE8BBI	03/13
Dave Hibbard NK0K	03/14
John E Edwards KD8ZZP	03/15
Kevin Reed	03/18
Lou Mesavage WA8DBP	03/19
Steve Fisher KB8SCI	03/21
Jim Reinhart WD8EKH	03/21
Kimberly Lintner KE8LUY	03/25
Steven Stein KE8BJD	03/26

MCARC Calendar

March	**7**	7:30pm Monday Night 2M Net
March	**14**	7:30pm IN-PERSON MEETING
March	**21**	7:30pm Monday Night 2M Net
March	**28**	7:30pm Monday Night 2M Net

ARRL Contests

March **5-6** International DX– Phone

Hamfests

03/12/2022 MOVARC Hamfest
Location: Bidwell, OH
Sponsor: Mid-Ohio Valley Amateur Radio Club
Email: docdiesel@hotmail.com

03/13/2022 Winter Hamfest
Location: Elyria, OH
Sponsor: Northern Ohio Amateur Radio Society
Email: winterhamfest@noars.net

03/20/2022 - CANCELED Toledo Mobile Radio Association Hamfest and Computer Fair
Location: Perrysburg, OH
Sponsor: Toledo Mobile Radio Association
Website: http://tmrahamradio.org

Winter Field Day Operation by: Fred K8FH

A couple of the guys and I participated in the Winter Field Day January 29 & 30. Dave, NF8O and Bob, KL8MD and myself set up three portable antennas at my place and operated from the shed on generator power. Bob ran the digital station, Dave the phone station and I the CW station. We made 818 contacts in the 24 hour contest period (we shut down for about 6 hours to sleep). It was a bit challenging setting up antennas in the 12" of snow but all went well and we had a good time.

Earlier in January I operated solo in the Ohio Ares VHF Simplex Contest. I operated portable from Mugrage Park on Windfall Rdoad from in the van and had a triband vertical for 6M, 2M, and 70CM that I tipped up on a 30' mast. The elevation at the park is about 1200'. I powered my IC-7000 and a small heater by a generator. I took first place in the portable division (I was the only portable who entered) ha ha. Had a lot of visitors from curious park goers.

Hamatuer Antix

February 18, 1925 *Punch* or the *London Charivari*

First Scotsman. "WUNNERFU', JOCK! JUST LISTEN TAE THE BAGPIPES. IT'S JUST LIKE A WEE BIT OF HEAVEN!"
Second ditto. "MON, IT'S NO THE BAGPIPES YE'RE HEARING—IT'S THE VALVES HOWLING."

MCARC will be holding Technical Sessions during most of our in-person General Meetings on the 2nd Monday of each month. But since we are in need of a Program Chair, there will be no Technical Session at the March meeting. PLEASE CONSIDER VOLUNTEERING FOR THIS POSITION. Our Club is only as terrific as YOU make it!

March 14th IN-PERSON Member Meeting

Join us at our March 14th General Meeting at the Medina County Senior Center, 7:30pm. It will be great to see everyone again. Doors are locked at 7:30pm so please come early. See page 4 for address.

Multimeter Symbols

Back in the early days of electricity, lab workers could measure electric current in a circuit using an ammeter (galvanometer) and voltage using a voltmeter. From there, they could calculate resistance.

In 1920, British postal engineer Donald Macadie invented the AVOmeter, which measured all three quantities (A = amps, V = volts, O = ohms). Soon after, electricians working in the field got their hands on somewhat portable versions of this invention.

Today's multimeters do the same jobs as the AVOmeter, but they're more sophisticated and can do multiple other tests as well. Depending on the model, a multimeter can tell you whether a diode or capacitor is working, distinguish between alternating and direct current and measure wire temperature. Functions are denoted by symbols arranged around a dial.

Homeowners doing DIY electrical work don't need the same functionality as electronics technicians, so multimeters sold in hardware stores are less complicated than those at electronics supply outlets. Even so, the symbols can be difficult to decipher. Here's a rundown of the electrical terms and symbols you'll find on a basic multimeter for home use and what they mean.

Voltage

Multimeters can measure direct current (DC) voltage and alternating current (AC) voltage, so they need to display more than one voltage symbol. On some older models, the designation for AC voltage is VAC. These days, it's more common for manufacturers to place a wavy line over the V to signify AC voltage.

To signify DC voltage, the convention is to place a dotted line with a solid line above it over the V.

To get voltage readings in millivolts (one-thousandth of a volt), set the dial to mV.

"V" with a wavy line over it = AC voltage.

"V" with one dotted and one solid over it = DC voltage.

"mV" with one wavy line or a pair of lines, one dotted and one solid, over it = AC or DC millivolts.

Current

Like voltage, current can be AC or DC. Because the unit for current is ampères, or amps, the symbol for it is A.

"A" with a wavy line over it = AC current.

"A" with two lines, one dotted and one solid, over it = DC current.

mA = Milliamps.

µA (µ is the Greek letter mu) = Microamps (millionths of an amp).

Resistance

A multimeter measures resistance by sending a small electric current through the circuit. The symbol for the unit of resistance, the ohm, is the Greek letter omega (Ω). Meters don't distinguish between AC and DC resistance, so there are no lines above this symbol.

On meters with range selection options, you can select the kilohm (1,000 ohms) scale and the mega ohm (one million ohms) scale, which are kΩ and MΩ, respectively.

Ω = Ohms.

kΩ = Kilohms.

MΩ = Mega ohms.

Continuity

Use a multimeter to test for a break in an electrical circuit. The meter measures resistance, and there are only two outcomes. Either the circuit is broken (open), in which case the meter reads infinite resistance (denoted on digital meter displays as OL for open line), or the circuit is intact (closed), in which case the meter reads 0 (or close to it).

Because there are only two possibilities, some meters beep when they detect continuity. This function is denoted on the dial settings by a series of left-facing brackets of increasing size, like a sideways version of the wireless reception symbol on a laptop.

Continued next Page...

Multimeter Symbols, cont'd

Diode and Capacitance Tests
Electronics technicians are more likely to use the diode and capacitance tests than electricians or homeowners. But if you have a meter with these functions, it helps to know what the symbols mean.
The diode test function looks like an arrow pointing toward the center of a plus sign. When this function is selected, the meter will tell you whether a diode (a common electronics component that changes AC current into DC current) is working or not.
The capacitance function resembles a right-facing bracket to the right of a vertical line. Both are crossed by a horizontal line. Capacitors are electronic devices that store charge, and the meter can measure the charge.
The temperature function measures the temperature of the circuit wires. It's denoted by a thermometer.

Jacks and Buttons
Two leads are supplied with every multimeter, one black and one red. Some meters have three jacks and some four. The jacks into which you plug the leads depend on what you're testing.
COM is the common jack, and it's the only black one. You always plug the black lead into this jack.
A is the jack where the red lead goes if you're measuring high current up to 10 amps.
mAVΩ is the jack for every other measurement, including sensitive current measurements, voltage, resistance and temperature, if the meter has only three jacks.
mAμA is the jack for sensitive current measurements (less than one amp) if the meter has four jacks.
VΩ is the jack for all other measurements except current.

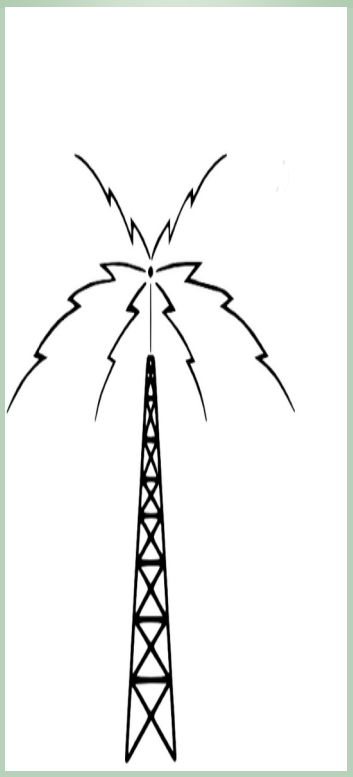
At the top of the meter display, above the dial, you usually find two buttons, one to the left and one to the right.
Shift. To save space, manufacturers may assign two functions to some dial positions. You access the function marked in yellow by pressing the shift button, which is usually also yellow and may or may not be marked.
Hold. Pressing this button freezes the current reading for later reference.

Manual vs. Auto Range
An older analog multimeter with a needle needs to have more than one range setting. If the meter had only a large range, it couldn't be used for sensitive measurements because the needle would hardly deflect. On the other hand, if the meter had only a small range, any measurement exceeding that range, no matter what it was, would deflect the needle to its maximum.

Digital multimeters with LED displays were introduced in the 1970s, and today most multimeters are digital. Some still have range settings that you select with a dial. But increasingly, the meter selects the range automatically.

Because these multimeters don't have range settings (which can occupy up to 18 dial positions), auto-range multimeters can have more functionality than those with manual range settings.

Note: Retain the owner's manual of your multimeter for reference. Keep the manual and the multimeter clean and dry in a quart- or gallon-size plastic zip-top freezer storage bag.
By: Chris Deziel, Originally Published: February 04, 2022, Family Handiman



MCARC Repeaters

				Repeater Directories		
Call	Location	Function	Repeater Input	Repeater Output	CTCSS (PL)	Band
W8EOC	Medina (Main Site)	Repeater TX & RX	147.630	147.030	141.3	2 Meter
W8EOC	Brunswick (North)	Receive only	147.630	From Main Site	131.8	2 Meter
W8EOC	Lafayette (South)	Receive only	147.630	From Main Site	88.5	2 Meter
W8HN	Medina	Digital C4FM TX & RX Repeater	147.885	147.285	(0)	2 Meter
W8HN	Medina	Analog TX & RX Repeater	147.885	147.285	(110.9)	2 Meter
W8EOC	Medina	Repeater TX & RX	223.260	224.860	-	1.25 Meter
W8EOC	Lafayette	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. **On-Air** meetings will be held on those dates when Covid chases us to the airwaves. You do not have to be a member of MCARC to participate.

MCARC Monday Night 2-Meter Net Control

28-Feb-2022	K8IIT	07-Mar-2022	
14-Mar-2022	*Meeting*	21-Mar-2022	K8NVR
28-Mar-2022	KD8SST	04-Apr-2022	

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

NCO openings can be found at:
https://b.link/MCARC-NCO-2022

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:
Jane Reed K8JGR
jane@K8JGR.radio
216-570-8500

VP: Gail Helwig KD8GGM

Treasurer:
Toby Kolman WT8O

Secretary:
Dave Swancer KE8APO

W8EOC Repeaters:
Ed Eyerdom K8NVR
Ken Koyan K8TV

Trustees:
Doug McClure KD8SST
Dave Oravec N8JNX
Ray Orobona K2RWO
Amy Panchumarti K2KSU
Ed Eyerdom K8NVR

Sunshine:
Diane Snider KD8SSX

Newsletter:
Jane Reed K8JGR

Field Day:
Fred Helwig K8FH

Membership:
Diane Snider KD8SSX

Websites:
Jane Reed K8JGR

Net Scheduling:
Baji Panchumarti K8IIT

Social Events:
Gail Helwig KD8GGM

Skywarn:
Tracey Liston W8TWL

ARES:
Bob Mueller K8MD

RACES:
Dave Rickon NF80

Program:
Open

MCARC on the World Wide Web

www.W8EOC.org

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

www.facebook.com/
MedinaCountyAmateur
RadioClub

Also,
Check out our **YouTube Channel** for **Medina County Amateur Radio Club** Technical Session Videos

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 community events such as bicycle and foot races.

We usually meet on the second Monday of each month at either the Medina County Senior Center (Sr) or the Medina County Career (JVS) Center.

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: