

## M2M News Beacon

Member to Member News Beacon



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## Prez's Preface

*"No winter lasts forever  
- no spring skips its  
turn."*

Hal Borland

Greetings,

I hope each of you are finding refuge in your home, washing your hands every five minutes, and not

succumbing to the temptation to visit with kids or grandkids. We will get through this nightmare and find new pleasures in the little things when we emerge.

In the meantime, stay connected through phone,

email, snail mail, Skype and certainly through radio communication.

Join our Club Meeting by way of a special MCARC Net on April 13<sup>th</sup>. See page 3 for more detail.

Stay Well and 73,  
Jane K8JGR

## Virtual SKYWARN Training Opportunity April 6th

**From:** 'Tracey Liston' via Medina County Amateur Radio Club / M2M Group

**Sent:** Monday, March 30, 2020 8:25 AM

**To:** Medina 2M Group

**Subject:** [m2m] Virtual SKYWARN training opportunity 6 April 1000 & 1400hrs

Good Morning NWS CLE Partners,

We want to share the word that NWS Cleveland will be offering a couple virtual online severe weather safety and Skywarn spotter training classes on Monday, April 6th at 10 am and 2 pm EDT through Facebook Live. These interactive virtual classes will be free and open to anyone who wants to learn about severe weather, weather safety, and storm spotting. These live video classes will be recorded and available to watch online on YouTube after the class is finished. If these virtual online classes are popular by demand, we will add more virtual classes as well as add other variety of classes later this Spring.

This is the link to watch the live video classes [www.facebook.com/NWSCleveland](http://www.facebook.com/NWSCleveland) on Monday, April 6th at 10 am and 2 pm EDT.

**\*\*\*Please note that these virtual classes are subject to change or be cancelled due to weather or staffing changes\*\*\***

We will also make the presentation slides available if requested. If you have any questions, please feel free to contact myself or Sarah.Jamison@noaa.gov.

Best Regards,

Mike Griffin, Lead Meteorologist, National Weather Service, Cleveland Hopkins International Airport

## MCARC March 9 Meeting Minutes

The Secretary's Minutes for March will be read at the next General Meeting which will be held on-air at 7:30 pm on April 13<sup>th</sup> during a special Medina County Amateur Radio Club 2-meter net. See page 6 for frequency and tone.



## qrznow.com – Posted March 29, 2020

The first **remote all-online Amateur Radio Technician license exam** was carried out in the United States on March 26, 2020

Marcel Stieber @AI6MS Tweeted: "Yesterday [March 26], our working group ran an "all-virtual" Amateur Radio technician license exam for the first time in history! Thanks to @W5YI for being supportive of this effort. Stay tuned, we hope to have a scalable solution available for broader use soon!"

Joseph Talbot sat the exam and his FCC Technician license callsign KJ7NNU was granted on March 27. His entry in the FCC database can be seen at <https://wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp?licKey=4267101>

Since 2010 there have been other exams sessions carried out remotely, but they have had an in-person proctor present at the exam session. This was the first remote online Technician exam session carried out with everybody online.

On March 15 Sam Hulick had tweeted Ajit Pai, Chairman of the USA's communications regulator FCC, asking, "Please open up amateur radio exams/licensing remotely. People should not be attending physical classes to be able to obtain a license."  
<https://twitter.com/SamHulick/status/1239259361932906497>

FCC Chairman Ajit Pai speedily tweeted his reply just 14 minutes later, "Thanks for the suggestion. Let me look into this—stay tuned"  
<https://twitter.com/AjitPaiFCC/status/1239262974939971585>

On March 24 Stirling Mann @N0SSC reported Remote Testing Working Group Underway  
<http://n0ssc.com/posts/1044-anchorage-vec-remote-testing-results-in-a-new-extra-remote-testing-working-group-underway>

ARRL reports on early remote exams:

<http://www.arrl.org/news/the-weather-outside-was-frightful-during-first-antarctic-ve-session>

<http://www.arrl.org/news/kalaupapa-hawaii-is-site-of-second-arrl-remote-ve-testing>

<http://www.arrl.org/news/arrl-vec-conducts-remote-exam-session-with-applicants-in-antarctica>

Source: <http://www.southgatearc.org/>

Credit Richard, KD7BBC, for developing the UI though Examtools

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## April 13 General Meeting

The Medina County Amateur Radio Club will *not* be holding *in-person* meetings until the threat of Coronavirus is under control.

However, Monday April 13<sup>th</sup> the Club will hold the *April meeting during a special 2-meter net* at 7:30 pm. See page 6 for frequency and tone.

## MCARC (M2M) Calendar

- April 6, 2020            Virtual Skywarn Training
- April 13, 2020        General Meeting 2-Meter Net

## Hamateur Antix



## ARRL Contests April

- April 19            Rookie Roundup – Phone  
[www.arrl.org/rookie-roundup](http://www.arrl.org/rookie-roundup)

## Ohio ARRL Hamfests

04/11/2020  
**CANCELLED - 66th Annual Cuyahoga Falls Amateur Radio Club Hamfest**  
**Location:** Cuyahoga Falls, OH  
**Sponsor:** Cuyahoga Falls Amateur Radio Club, Inc.  
**Website:** <http://www.cfarc.org/hamfest.php>

05/17/2020 - 05/19/2020  
**CANCELLED - Dayton Hamvention**  
**Location:** Xenia, OH  
**Type:** ARRL Convention  
**Sponsor:** Dayton Amateur Radio Association  
**Website:** <https://hamvention.org/>



## Mária Telkes – American Physical Chemist and Biophysicist

**Mária Telkes**, (1900-1995) Hungarian-born American physical chemist and biophysicist best known for her invention of the solar still and the first solar-powered heating system designed for residences. She also invented other devices capable of storing energy captured from sunlight.

Telkes, daughter of Aladar Telkes and Maria Laban de Telkes, was raised in Budapest. She studied physical chemistry at the University of Budapest, graduating with a B.A. in 1920 and a Ph.D. in 1924. She became an instructor at the institution in 1924 but decided to immigrate to the United States after visiting a relative, who served at the time as the Hungarian consul in Cleveland. In 1925 she accepted a position as a biophysicist for the Cleveland Clinic Foundation, where she worked with American surgeon George Washington Crile to create a photoelectric device that recorded brain waves.

Telkes became an American citizen in 1937. That same year she became a research engineer at Westinghouse Electric, where she developed instruments that converted heat into electrical energy; however, she made her first forays into solar energy research in 1939. That year, as part of the Solar Energy Conversion Project at the Massachusetts Institute of Technology (MIT), she worked on thermoelectric devices powered by sunlight. Telkes was assigned to the U.S. Office of

Scientific Research and Development during World War II, and it was there that she created one of her most important inventions: a solar still capable of vaporizing seawater and recondensing it into drinkable water. Although the system was carried aboard life rafts during the war, it was also scaled up to supplement the water demands of the Virgin Islands. She remained at MIT after the war, becoming an associate research professor in metallurgy in 1945.

Until the end of her career, Telkes continued to develop solar-energy applications and received several patents for her work. Together with American architect Eleanor Raymond, she designed and constructed the world's first modern residence heated with solar energy. The house was built in Dover, Massachusetts, in 1948. Boxlike solar collectors captured sunlight and warmed the air in a compartment between a double layer of glass and a black sheet of metal. Warmed air was then piped into the walls, where it transferred heat to Glauber's salts (crystallized

sodium sulfate) for storage and later use. She improved upon existing heat-exchanger technology to create solar stoves and solar heaters, receiving a \$45,000 grant from the Ford Foundation in 1953 to create a universal solar oven that could be adapted for use by people living at all latitudes. She also worked to develop materials capable of enduring the temperature extremes of space. In 1980 she assisted the U.S. Department of Energy in the development of the world's first solar-electric residence, which was built in Carlisle, Massachusetts.

*Encyclopedia Britannica: John P. Rafferty  
Updated Dec 8, 2019*



[commons.wikimedia.org](https://commons.wikimedia.org)

## Two Probability Pioneers Just Won the Math Version of the Nobel Prize

We liked their odds.

Two retired professors are sharing the mathematics version of the Nobel Prize for their lifelong contributions to the changing nature of math in the computing age. Both Hillel Furstenberg and Gregory Margulis spent decades applying ideas from probability theory to different kinds of discrete mathematics in order to shake loose new ways to solve seemingly intractable problems. The Abel Prize awarded since just 2003, honors career mathematical accomplishments with a prize of about \$700,000.

Wait—there’s not a Nobel Prize for mathematics? It’s true, and although you may have heard a lascivious story to explain why, no one really knows for sure. In that debunking, Snopes speculates that Alfred Nobel didn’t think mathematics could make the kind of practical breakthroughs he saw in other fields. (We love literature, but that’s not exactly an applied science either.) But what’s interesting about this year’s Abel Prize winners is how their work brought theoretical math into the world of applications.

Probability has long been the redheaded stepchild of mathematics fields, because “pure” mathematicians believe it’s descriptive and observational instead of abstract and objective. That’s not true—probability also isn’t *statistics*, though the two are often linked in the public imagination—but pure mathematicians often won’t listen until you offer ... proof. (That’s a math class joke.)

The *New York Times* spoke with mathematician François Labourie, who was on this year’s Abel Prize committee. “They were some of the first persons to show that probabilistic methods are central to mathematics,” Labourie explained. “Now it is totally obvious.”

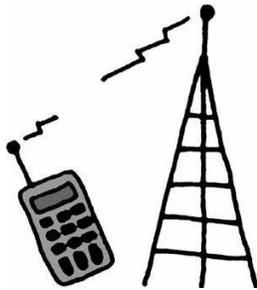
*Popular Mechanics* - By Caroline Delbert Mar 19, 2020



## MCARC (M2M) Repeaters

05/11/2018

*Remember to check in to the 2-Meter Net 147.030 on non-meeting, Monday evenings at 7:30pm.*



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
		Analog TX & RX Repeater	147.885	147.285	(110.9)	2 Meter
W8UQZ	Medina	Repeater TX & RX	223.260	224.860	-	1.25 Meter
W8EOC	Lafayette	Repeater TX & RX	449.925	444.925	131.8	70 CM

## MCARC (M2M) Monday Night 2-Meter Net Control

30-Mar-2020	K8NVR	06-Apr-2020	K8IIT
13-Apr-2020	<b>Meeting</b>	20-Apr-2020	
27-Apr-2020	K2KSU	04-May-2020	KE8APO

## ARRL Membership

Please consider paying your dues for ARRL membership through our club Treasurer, Gail KD8GGM. **M2M will retain \$15.00 for each NEW membership and \$2.00 for each renewal.**

Yearly dues are \$49.00 for regular membership, \$25.00 for youth under age 21 being oldest Ham in household, and \$10.00 for Additional Ham member in family. All but Additional Ham memberships will receive the monthly QST magazine. Dues can be paid by cash, **personal check made out to "Medina Two Meter Group"** or credit card.

**A copy of the ARRL Membership Application/Renewal form is appended to this newsletter). Please return it with payment to:** Gail Helwig KD8GGM, Treasurer, M2M Group, 12891 East River Road, Columbia Station, Ohio 44028. (Do not mail cash.)

**M2M GROUP, INC**

**We're on the Web!**

*See us at:*

**www.W8EOC.org**

**Also,**

**"Like Us" on  
Facebook**

**"Medina County  
Amateur Radio  
Club"**



## Who's Who

**President:**

Jane Reed K8JGR  
jane@K8JGR.radio

216-570-8500

**VP:** Diane Snider KD8SSX

**Treasurer:**

Gail Helwig KD8GGM

**Secretary:**

Ray Orobona K2RWO

**W8EOC Repeaters:**

Ken Koyan K8TV  
Ed Eyerdorn K8NVR

**State Certification:**

Don Duman W8DD

**Trustees:**

Doug McClure KD8SST

Dave Swancer KE8APO

Dave Oravec N8JNX

Amy Panchumarti K2KSU

Ed Eyerdorn K8NVR

**Sunshine:**

Diane Snider KD8SSX

**Newsletter:**

Jane Reed K8JGR

**Field Day:**

Fred Helwig K8FH

**Website:**

Jane Reed K8JGR

**Net Scheduling:**

Baji Panchumarti K8IIT

**Social Events:**

Gail Helwig KD8GGM

**Skywarn:**

Tracey Liston W8TWL

**MECARS/ARES:**

Jim Bodnar W8UQZ

**RACES:**

Dave Rickon NF80

**Program:**

Toby Kolman W8TO

## About Our Organization...

The Medina County Amateur Radio Club (M2M) is a nonprofit, ARRL Special Service registered, amateur radio organization based in Medina County, dedicated to communication, public service, education and fellowship.

Many of our members also are involved with Skywarn, ARES/MECARS, RACES, and assist with community events

such as bicycle and foot races.

We meet on the second Monday of each month at either the Medina County Senior Center (Sr) or the Medina County Career (JVS) Center. See Website or page three for more information.



MEDINA TWO METER GROUP (M2M) INC.  
DBA: MEDINA COUNTY AMATEUR RADIO CLUB  
1254 HADCOCK RD  
BRUNSWICK, OHIO 44212



TO:



**ARRL** The national association for  
**AMATEUR RADIO®**

# Membership Application

Application for use by ARRL Affiliated Clubs

## Contact Information

- I am a brand new member or my membership has been lapsed for 2 or more years. My club will keep \$15 of my dues.  
 I am renewing (includes lapsed members of less than 2 years). My club will keep \$2.00 of my dues.

Name \_\_\_\_\_ Call Sign \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Email \_\_\_\_\_ Phone \_\_\_\_\_

Date of Birth \_\_\_\_/\_\_\_\_/\_\_\_\_ Get an annual birthday coupon (US only)

My Family Member is Joining or Renewing: (\$10 per member)

Name \_\_\_\_\_ Call Sign \_\_\_\_\_

Name \_\_\_\_\_ Call Sign \_\_\_\_\_

## Your Annual Membership Dues – Circle Your Choice/s.

	1 Year	2 Years	3 Years	
US	\$49	\$95	\$140	Monthly QST via standard mail for US members
Youth	\$25			Must be 21 years old or younger AND the oldest licensed Radio Amateur in the household
Canada	\$62	\$120	\$177	Monthly QST via standard mail for Canadian members
International	\$76	\$147	\$217	Monthly QST via standard mail for International members
International/Canada – no print QST	\$49	\$95	\$140	Digital QST only
Family	\$10	\$20	\$30	Must reside with primary member and have corresponding membership dates; no extra copies of QST
Blind	\$10	\$20	\$30	No QST delivery; all other member benefits apply. Requires a one time signed and dated statement of Legal Blindness

Additional membership options available online at [www.arrl.org/join](http://www.arrl.org/join). US Memberships include \$21 per year for subscription to QST. Dues are subject to change without notice and are non-refundable. Only one free book and one monthly issue of QST per family. Memberships may not be combined with any other promotion or special offer.

- I do not want my name and address made available for non-ARRL related mailings.

## Payment Information

Please charge my ARRL dues less my club's commission. I have paid the commission directly to my club.

\$ \_\_\_\_\_ Total Charge to:  Visa  MasterCard  Amex  Discover  Check Enclosed

Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Card Holder's Signature \_\_\_\_\_

ARRL = 225 Main Street = Newington, CT 06111-1494 = USA  
Toll free (US) 1-888-277-5289 or 860-594-0200 = [www.arrl.org/join](http://www.arrl.org/join)