

M2M News Beacon



Prez's Preface



There is no glory in star or blossom till looked upon by a loving eye; There is no fragrance in April breezes till breathed with joy as they wander by.

William Cullen Bryant

Springtime brings a fresh start. What a wonderful fresh start to the hobby as we offered 12 new Technician licensees a 2019 membership in M2M.

Better yet, all who sat for the VE Tech exam on March 21st passed!!

What a testament to the Tech Class Instructors: Dave KE8APO, Diane KD8SSX,

Baji K8IIT and Doug KD8SST... nine of the test-takers had just completed our M2M Licensing Classes!

And how proud we are of "student" John Hasenstab, who not only passed the Tech Exam, but the General and Extra Exams at the same sitting! An incredible feat! Hearty congratulations to him.

So, we invited all Newbies and members to an **April 8th, Pre-Meeting at the Senior Center at 6:30pm.** A panel will cover "Now I am a Ham – Now What Do I

Do?" Topics include HT purchase and use, EchoLink and other entry-level topics.

Continuing at **7:30pm** the **General Meeting** will offer a time to meet the new Hams and to continue the Technical Session covering a hands-on demo of Digital modes.

Please plan on attending to introduce yourselves and offer Elmering services. The future of our hobby lies in fresh recruits.

Happy Spring!

73,
Jane@K8JGR.radio
216-570-8500

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Cuyahoga Amateur Radio Society (CARS) Hamvention Bus Tickets Available

CARS is again sponsoring a Bus trip to Hamvention May 18, 2019!

Please contact Toby WT8O, 440-525-6109 or email wt8o@att.net to reserve your seat.

The Bus trip will cost \$50.00 dollars per person and will not stop for breakfast on the way down. But, there may be a fast food stop on the way home. You are responsible for both your food and Hamvention tickets. The Bus is wheel-chair accessible.

Stop 1: The 56 passenger bus will leave promptly at 5:00 am from the Kmart parking lot at the intersection of Engle and Bagley Roads, in Middleburg Heights. Stop 2: The bus will also pickup riders at I-71 & Rt 303 at the SE corner of the Kmart parking lot and will depart for Xenia at approximately 5:30 am. When ordering tickets please tell us which stop you will be at, plus we need your email info, name, call and phone number. Bus tickets must be purchased and paid for in advance.



M2M March 11 Meeting Minutes

The Secretary's Minutes for March will be passed around for review at the April General Meeting.

World Amateur Radio Day

Every April 18, radio amateurs worldwide take to the airwaves in celebration of World Amateur Radio Day. It was on this day in 1925 that the **International Amateur Radio Union** was formed in Paris.

Amateur Radio experimenters were the first to discover that the short wave spectrum — far from being a wasteland — could support worldwide propagation. In the rush to use these shorter wavelengths, Amateur Radio was "in grave danger of being pushed aside," the IARU's history has noted. Amateur Radio pioneers met in Paris in 1925 and created the IARU to support Amateur Radio worldwide.

Just two years later, at the International Radiotelegraph Conference, Amateur Radio gained the allocations still recognized today — 160, 80, 40, 20, and 10 meters. Since its founding, the IARU has worked tirelessly to defend and expand the frequency allocations for Amateur Radio. Thanks to the support of enlightened administrations in every part of the globe, radio amateurs are now able to experiment and communicate in frequency bands strategically located throughout the radio spectrum. From the 25 countries that formed the IARU in 1925, the IARU has grown to include 160 member-societies in three regions. IARU Region 1 includes Europe, Africa, the Middle East, and Northern Asia. Region 2 covers the Americas, and Region 3 is comprised of Australia, New Zealand, the Pacific island nations, and most of Asia. The International Telecommunication Union (ITU) has recognized the IARU as representing the interests of Amateur Radio.

Today, Amateur Radio is more popular than ever, with more than 3,000,000 licensed operators!

World Amateur Radio Day is the day when IARU Member-Societies can show our capabilities to the public and enjoy global friendship with other Amateurs worldwide.

We have provided a poster for World Amateur Radio Day. Any club may download it and use it to promote WARD in their area. The poster comes in two sizes: 61cm x 91cm and a small (A4) flyer.

Groups should promote their WARD activity on social media by using the hash tag #WorldAmateurRadioDay on Twitter and Facebook. IARU will list all WARD activities on this page. To have your WARD activity listed, send an email to IARU Secretary David Sumner, K1ZZ.

April 18 is the day for all of Amateur Radio to celebrate and tell the world about the science we can help teach, the community service we can provide and the fun we have.

We hope you will join in the fun and education that is World Amateur Radio Day!

Activation Information:

Malaysia: On 18 April 2019 9M4CMN (9w2pck@marts.org.my) will be on the air from Segamat, Southern Malaysia and 9M4CKK (9m2cio@marts.org.my) will be active from Tumpat, East Coast of Malaysia from 0230hrs to 1530hrs UTC.

Worldwide: The World Radio Network and the World Friendship Net will be participating in World Amateur Radio Day 2019.

For the second time in a row, the special event call sign W2W has been secured for this event. As well there will be a commemorative special event "WORLD AMATEUR RADIO DAY 2019" QSL Card. We will have a 12 hour net with 10 different net controllers from all over the world.

Please join us as we celebrate amateur radio all around the world on 18 April at 16:00 UTC via ECHOLINK on the "World" Conference server (IRLP 9251) and for the first time on Allstar Node #47620 - World Conference Hub.

Links can be found on: <http://www.iaru.org/world-amateur-radio-day.html>

April 8, 2019 General Meeting with Pre-Meeting

M2M's April 8th General Meeting will be held at the **Medina County Senior Center (Office for Older Adults)**.

Now I am a Ham – What Do I Do?

A **pre-meeting session** for new Techs and all who are interested **starts at 6:30pm** covering HTs and EchoLink.

After our brief, **7:30pm business meeting**, the technical session will continue, covering topics such as Digital Modes and Q&A. Members will have the chance to introduce themselves and Elmers can offer their assistance.



M2M Calendar

April 8, 2019	General Meeting	JVS Note change of venue
May 13, 2019	General Meeting	
June 10, 2019	General Meeting	

General Meeting Venues:

JVS = Medina County Career Center
Room 246
1101 West Liberty Street
Medina 44256

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

Meetings start at 7:30pm

Ohio ARRL Hamfests

04/13/2019 65th Annual Cuyahoga Falls Amateur Radio Club Hamfest

Location: Emidio & Son's Party Center
48 East Bath Road
Cuyahoga Falls, OH 44221

Talk-In: 147.270 (PL 110.9)

Public Contact: Pat Morrow N8OQP

Phone: 234-206-0270

Email: retired_guru@neo.rr.com

Website: <http://cfarc.org>

04/20/2019 Portsmouth Radio Club Hamfest

Location: Owens Community College, 30335 Oregon Road
Perrysburg, OH 43551

Website:

<https://www.facebook.com/w4pox/03/17/2019> Hamfest and Computer Fair

Sponsor: Toledo Mobile Radio Assoc

www.tmrahamradio.org

ARRL Contests

April 2019

Apr 14 Rookie Roundup - SSB

04/28/2019 Athens Hamfest

Location: Athens Community Center, 701 East State St., Athens, OH 45701

Sponsor: Athens County Amateur Radio Association

Website: <http://www.ac-ara.org/>

Public Contact: William McFadden WD8RIF **Phone:** 740-593-7176



Member of the Month – Baji Panchumarti K8IIT

Name, Call Sign, and Tech/General/Extra?

Baji Panchumarti, K8IIT, Extra Class. I received my undergraduate degree from the Indian Institute of Technology, better known as IIT in the tech universe. That is why I picked the vanity call sign K8IIT.

How long have you been a Ham?

About two & a half years. I got my Technician license in July of 2016.

How long have you been a member of M2M?

Since May 9th 2016.

My wife Amy & I listened to the first M2M weekly net on Monday May 2nd. We attended the in-person monthly meeting the following Monday and we became members that same day.

Family Members who are Hams?

My wife, Amy K2KSU.

What/Who got you interested in Amateur Radio?

When I was twelve, my parents bought me an electronics education kit as a reward for getting the second rank in my 7th grade class. One of the circuits you could build with that kit was a short range AM transmitter, whose signal could be received up to five feet on a regular AM radio. It gave me great joy to speak into a microphone and hear my voice on the radio.

Thirty five years later, before going on a vacation, I bought a pair of Baofengs on an impulse, to use as walkie talkies on the beach. After we got back from the vacation, I did a Google search and discovered that they could also be used on amateur frequencies.

It just so happened that day was Monday, May 2nd, 2016, and the M2M Group had a NET that evening that I was able to tune into. Now you know the rest of the story!

What modes of operation do you like best?

I really enjoy voice QSOs on repeaters, simplex & HF. In digital I find FL-Digi & FT8 quite fascinating to use, I wish I had more time to dig deeper into those two technologies.

Awards, activities, nets:

I'm currently one state shy of getting my Worked-All-States Award. I participate in several nets on and off, including M2M voice & digital nets, Ohio ARES net, NOARS net, SARA net, CFARC net, and Century Club HF nets.

Current Projects:

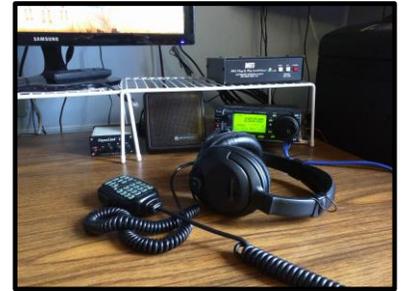
Figuring out the best "invisible" antennas that Amateurs can install and use on their property that won't upset their HOA or neighbors.

Favorite Rig:

iCom IC-706 MK II G. I is the only RIG I've spent any significant time with.

What would you like to learn more about?

I'd like to explore Software Defined Radios (SDR) and operate on them.



What line of work were/are you in?

My education is in Electrical Engineering and Computer Science, and as a small business entrepreneur, I wear as many hats as needed.

Other Hobbies?

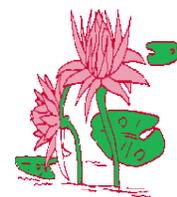
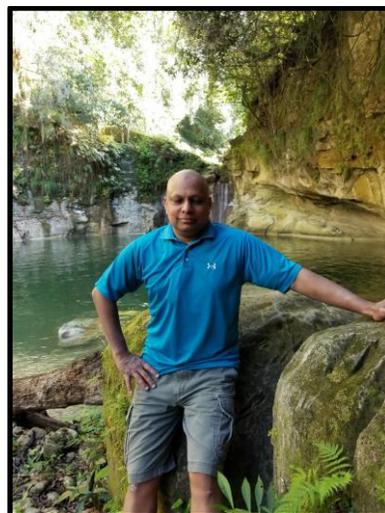
Karate, camping, seeing new places & understanding other cultures.

What would you like to see in M2M?

New initiatives to bring younger people and more women into the hobby. Many of the women I know or have spoken to, are afraid of the hobby out of fear of embarrassing themselves. We need to address this problem.

Please add any other information that expresses your enjoyment with ham radio....

I love the social gatherings and morning breakfasts that I've been enjoying since I joined the M2M Group.



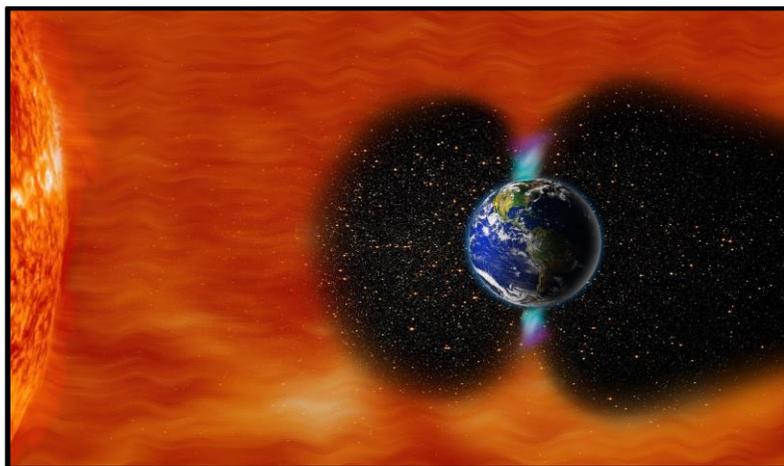
Ice Samples Reveal a Massive Sun Storm Hit Earth in Ancient Times...And It Could Happen Again

A gigantic solar storm hit Earth about 2,600 years ago, one about 10 times stronger than any solar storm recorded in the modern day, a new study finds.

These findings suggest that such explosions recur regularly in Earth's history, and could wreak havoc if they were to hit now, given how dependent the world has become on electricity.

The sun can bombard Earth with explosions of highly energetic particles known as solar proton events. These "proton storms" can endanger people and electronics both in space and in the air.

In addition, when a proton storm hits Earth's magnetosphere — the shell of electrically charged particles — it is trapped by Earth's magnetic field. When the solar storm causes a disturbance in our planet's magnetosphere, it's called a



Credit: Shutterstock

geomagnetic storm which can wreak devastation on power grids across the planet. For example, in 1989, a solar outburst blacked out the entire Canadian province of Quebec within seconds, damaging transformers as far away as New Jersey, and nearly shutting down U.S. power grids from the mid-Atlantic through the Pacific Northwest.

Scientists have analyzed proton storms for less than a century. As such, they may not have good estimates of how often extreme solar eruptions happen or how powerful they can actually get.

"Today, we have a lot of infrastructure that could be badly damaged, and we travel in air and space where we are much more exposed to high-energy radiation," senior study author Raimund Muscheler an environmental physicist at Lund University in Sweden, told Live Science.

The so-called Carrington Event of 1859 may have released about 10 times more energy than the one behind the Quebec blackout in 1989, making it the most powerful known geomagnetic storm, according to a 2013 study from Lloyd's of London. Worse yet, the world has become far more dependent on electricity since the Carrington Event, and if a similarly powerful geomagnetic storm were to hit now, power outages might last weeks, months or even years as utilities struggle to replace key parts of power grids, the 2013 study found.

Now, researchers have found radioactive atoms trapped within ice in Greenland that suggest an enormous proton storm struck Earth in about 660 B.C., one that might dwarf the Carrington Event.

Previous research found that extreme proton storms can generate radioactive atoms of beryllium-10, chlorine-36 and carbon-14 in the atmosphere. Evidence of such events is detectable in tree rings and ice cores, potentially giving scientists a way to investigate ancient solar activity.

Cont'd Next page...

Massive Sun Storm *Continued*

The scientists examined ice from two core samples taken from Greenland. They noted a spike of radioactive beryllium-10 and chlorine-36 about 2,610 years ago. This matches prior work examining tree rings that suggested a spike of carbon-14 about the same time. [Photos: Craters Hidden Beneath the Greenland Ice Sheet]

Previous research detected two other ancient proton storms in a similar manner — one happened about A.D. 993-994, and the other about A.D. 774-775. The latter is the largest solar eruption known to date.

Regarding number of high-energy protons, the 660 B.C. and the A.D. 774-775 events are about 10 times larger than the strongest proton storm seen in the modern day, which occurred in 1956, Muscheler said. The A.D. 993-994 event was smaller than the other two ancient storms by about a factor of two to three, he added.

It remains unclear how these ancient proton storms compared with the Carrington Event, since estimates of the number of protons from the Carrington Event are very uncertain, Muscheler said. However, if these ancient solar outbursts "were connected with a geomagnetic storm, I would assume that they would exceed the worst-case scenarios that are often based on Carrington-type events," he noted.

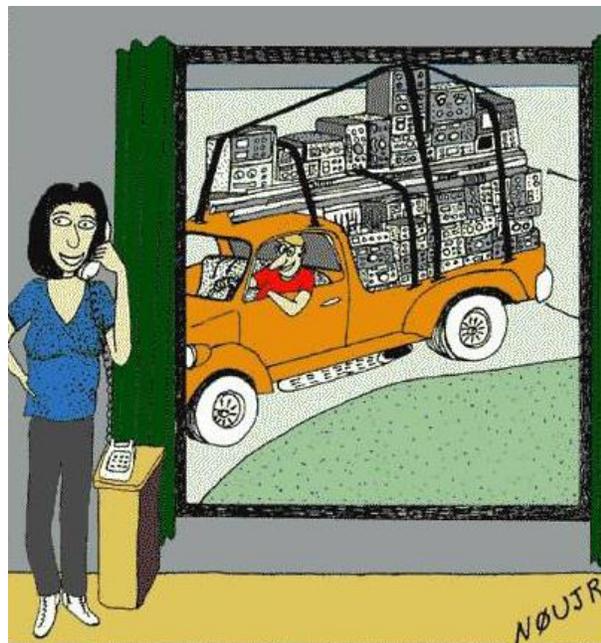
Although more research is needed to see how much damage such eruptions might inflict, this work suggests "these enormous events are a recurring feature of the sun — we now have three big events during the past 3,000 years," Muscheler said. "There might be more that we have not yet discovered."

"We need to search systematically for these events in the environmental archives to get a good idea about the statistics — that is, the risks — for such events and also smaller events," Muscheler added. "The challenge will be to find the smaller ones that probably still exceed anything we measured in recent decades."

The scientists detailed their findings online today (March 11) in the journal *Proceedings of the National Academy of Sciences*.

Live Science: March 11, 2019, Charles Q Choi

Hamateur Antix



"No Greg went to the ham auction this afternoon, to get rid of a couple old radios that were cluttering up the place...Oh I think I hear him pulling in now!"

M2M Repeater Summary

05/11/2018

Call	Location	Function	Repeater Input	Repeater Directories		Band
				Repeater Output	CTCSS (PL)	
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
W8EOC	Lafayette	Split Site Repeater	51.160		107.2	6 Meter
	Litchfield			51.660		
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

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

M2M Monday Night 2-Meter Net Control

1-Apr-2019	K2KSU	8-Apr-2019	Meeting
15-Apr-2019	KD8SST	22-Apr-2019	K8IIT
29-Apr-2019	K8NVR	6-May-2019	K8TV



M2M GROUP, INC

We're on the Web!

See us at:

www.W8EOC.org

Also,

"Like Us" on
Facebook



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:

Ed Eyerdorn K8NVR

Ken Koyan K8TV

Trustees:

Doug McClure KD8SST

Dave Swancer KE8APO

Ken Koyan K8TV

Don Duman W8DD

Ed Eyerdorn K8NVR

Sunshine:

Diane Snider KD8SSX

Newsletter:

Jane Reed K8JGR

Field Day:

Fred Helwig K8FH

Facebook Page:

James Johnston KD8FHY

Website:

Jane Reed K8JGR

Net Scheduling:

Baji Panchumarti K8IIT

Social Events:

Gail Helwig

Skywarn:

Tracey Liston W8TWL

MECARS/ARES:

Jim Bodnar W8UQZ

RACES:

Dave Rickon NF80

About Our Organization...

The Medina Two Meter (M2M) Group, Inc. is a nonprofit, ARRL Special Service registered, amateur radio organization based in Medina County, dedicated to 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 INC.

1254 HADCOCK RD
BRUNSWICK, OHIO 44212



TO: