



July 2019
Our 100th Year
Volume 57, Issue 7

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Website:

<http://www.mvara.org/>

The Voice Coil
Award-Winning Newsletter of
the Mahoning Valley Amateur
Radio Association
Established 1919

The Voice Coil

Prez Sez



Field Day has come and gone. I would like to thank all the people that took time to help set up on Friday, Saturday and the tear down Sunday. Thanks to those who participated in FD operations: operators and loggers, greeters, cooks, loggers, and to the people that brought antennas, radios, and other related gear.

Most of the members that were there are same ones that show up at the monthly meetings, strange is it not.... This is an exercise to show how well we can react in an emergency and how we perform. This is not officially a contest, though points are given. We should use our scores for comparison to what we have done in the past—not to compare people or clubs.

Once again thank you for your time and effort

So for now 73,
Jim WB8UJS

Historic 2-Meter Transatlantic Contact Reported

D41CV on Cape Verde Islands and FG8OJ in Guadeloupe spanned the Atlantic Ocean on 2 meters for the first time on June 16, according to reports. The distance was 3,867 kilometers (2,397.5 miles). The historic contact was made on 144.174 MHz using FT8 mode.

“The mode of propagation was most likely marine ducting, with the signal traveling in a layer near the ocean surface,” said John Desmond, EI7GL.

Propagation prediction maps show a path right across the Atlantic and suggest that more contacts may be possible

Next Meeting:

July 11, 2019, 7 pm
GOP Headquarters
meeting room. 8381
Market St.,
Boardman, OH
(in Adamas Plaza)

Food and snacks
available at the
meeting.

June Swap Meet

2019 Officers

President: Jim Stiffler, WB8UJS

Vice President: Wes Boyd,
W8IZC

Secretary: Dave Salmen, WB8IBA

Treasurer: Nancy Brett, KD8QNY

Trustees: Dean DeMain, W8YSU

Gene A. Boccia, WQ8H

Jerry Goddard, KC8EFO

Mike McCleery, K8PRR

Newsletter Editor: Mark
Haverstock, K8MSH

Awards Manager: Dave Fairbanks,
N8NB, 330.759.6993, 4770 Logan
Ave. Youngstown, OH 44505

The Mahoning Valley Amateur
Radio Association, Inc, meets the
second Thursday of every month.
Location and time are subject to
change. Dues are \$20.00 per year,
\$10.00 each for additional family
member. Contact Nancy,
kd8qny@zoominternet.net for
membership details.

The club call is **W8QLY**;
equipment operated under this call
includes a two meter voice
repeater at 146.745 (-600, 110.9
PL). Club email:
mvara.w8qly@gmail.com

MONDAY NIGHT NET operates
every Monday at 9:00. PM on
146.745 MHz.

SKYWARN NET - First
Wednesday of the month at 8:30
PM on 146.745 MHz as weather
warrants.

ARES NET- First and third
Mondays of each month at 8:30
PM on 146.745 MHz; prior to the
Monday Night Net.

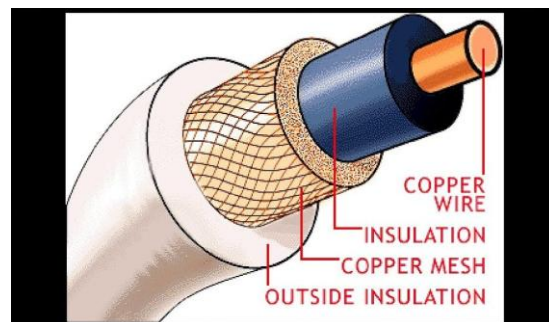
The swap meet was a casual event, allowing people to visit, look at old equipment, hope to sell something, and of course to buy a few things!



Uhhhh, 50Ω?

That's right! The nominal impedance of most of the coax we use is 50Ω. But what happens if you bend it too tightly? How about if you drive over it? Kink it?

That's what we are going to talk about at the July meeting of the MVARA. Jim, WB8UJS, and Mike, K8PRR were helping with the tear down at Field Day and the question came up, what is the best way to wrap up and store the coax so next year at Field Day it will still be in good shape? That prompted them to agree to do a presentation and demonstration for our meeting. Hope you can join us as we give Jim and Mike ~~enough rope to~~ enough coax to show us the way.



License refresher: E4D01 (A) E4D02 (A) G4E01 (C) G4E02 (D)

Current Activities

June 28 Hams needed. Poland Community Parade, 5:30, Poland Village Blvd. & S.R. 170. Contact Dean DeMain (W8YSU) 330-788-4271, W8YSU@ARRL.NET

July 3 VE testing session, Boardman Library, 6:30 pm.

July 11 July Club Meeting, 7pm, GOP Headquarters, Market St., Boardman.

July 13 Lake Milton Triathlon (ARES). Contact Dave, KD8NZF

Contact Us:

Email: mvara.W8QLY@gmail.com

Snail-mail: MVARA, P.O. Box 14141, Poland, OH 44514

Meeting ideas/ suggestions? Contact Dave, KD8NZF, KD8NZF@zoominternet.net

Hamfest Calendar



07/07/2019 20/9 Radio Club Hamfest, Computer, & Electronics Show - Location: Austintown Senior Center, 112 Westchester Drive, Austintown, OH **Website:** <http://20over9.org> **Sponsor:** 20/9 Radio Club, Inc. **Talk-In:** 147.315 **Public Contact:** Dotti ONeilMeleski , KC8SYF, PO Box 4006 Austintown, OH 44515 **Phone:** 330-651-8420 **Email:** hamfest@20over9.org

08/03/2019 - Columbus, Ohio Hamfest - Location: Aladdin Shrine Center - 1801 Gateway Circle - Grove City, OH 43123 - **Website:** <http://www.columbushamfest.com> - **Public Contact:** John Lehman, K8PJ - 7415 Hagerty Road Ashville, OH 43103 - Phone: 614-571-5179 - **Email:** k8pj.john@gmail.com

08/10/2019 DX Engineering Hamfest - Location: DX Engineering, 1200 Southeast Avenue, Tallmadge, OH 44278 **Website:** <https://www.dxengineering.com/DXEFest> **Sponsor:** DX Engineering **Type:** ARRL Hamfest **Talk-In:** 146.985 **Public Contact:** Teri Grizer , K8MNJ, 1200 Southeast Avenue Tallmadge, OH 44278 **Phone:** 330-630-7520 **Email:** tgrizer@dxengineering.com

09/08/2019 Butler County ARA Swapfest - Location: Unionville Fire Department. 102 Mahood Road Butler, PA 16001 **Website:** <http://w3udx.org> **Sponsor:** Butler County Amateur Radio Association **Talk-In:** 147.36 (PL 131.8) **Public Contact:** Joseph Sciulli , N3WH, 1020 Bonniebrook Road Butler, PA 16002, Phone: 412-337-1687 **Email:** n3whjoe@gmail.com

Know of any regional events that should be included in the Voice Coil? Send the information to: MVARAVoiceCoil@gmail.com

Learning About Batteries

By Dan Romanchik, KB6NU

I often say that getting an amateur radio license is as much getting a license to learn as it is getting a license to operate on the amateur radio bands. Lately, I've been learning about batteries, LiPo batteries to be exact.



It all started when I purchased a Morserino (<http://morserino.info/>). The Morserino is a Morse Code learning aid that has a number of unique features. For example, in addition to helping you learn the characters, it's also supposed to help you learn how to copy in your head. It also has a built-in touch keyer function, and a LoRa interface that lets you send and receive code from other Morserino units.

I'll be writing more about the Morserino in a future column, but let's get back to batteries. The kit did not come with a battery. Instead, it was suggested that one purchase a 600 mAh LiPo battery commonly used for powering drones. I found this battery on Amazon, and purchased a six pack of them, thinking that I'd find uses for the other five in some project or another.

Well, sooner than expected, I did find another application for one of the batteries. I'm building a little Arduino project for a client, and I reckon that this, or one with more capacity, will make a great power source for the project.

Now, I have two immediate challenges:

1. Figure out how to charge the battery.
2. Figure out how to connect it to the Arduino.

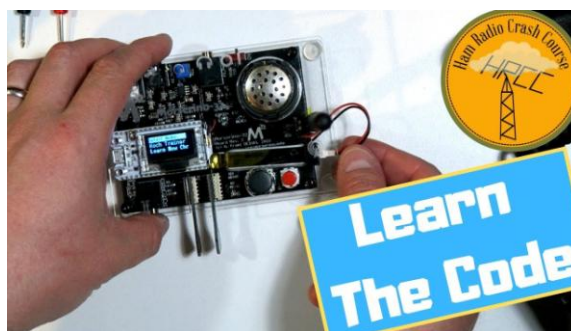
On the Morserino, the battery plugs directly into a connector on the bottom of the computer board (the white board with the LED display). I knew that connecting the 5V line from the USB connector directly to the battery was a no-no, but

I'd lent out the Morserino to a friend, and I didn't have the schematics for the board. So, how they managed to charge the battery from the USB port was a bit of a mystery.

I emailed Willi, OE1WKL, the designer of the Morserino, and he sent me a wealth of information. There actually is a battery-management IC, the TP4054, on the board:

He also gave me the part number for the battery's mating connector. He said, "The mating connector for the Molex connector on the battery is a Molex 51006. It is sometimes referred to by vendors as 51005 female, but 51005 is the connector on the battery." You can, of course, buy pre-made cable assemblies on Amazon (<https://www.amazon.com/gp/product/B07P54QTR8>).

You can also buy lithium battery charging modules (<https://www.amazon.com/gp/product/B01LZSC7I8>). These modules have a TP4056 on them, which is similar to the TP4054. It's amazing to me that you can purchase ten of these things for less than seven bucks.



So, that's where I'm at right now. Once I get the modules and cables, I'm going to hook it all up and get the Arduino system running from the battery. The next step will be to integrate a small solar panel and run the whole thing from solar power, hopefully.

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Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and one of the hosts of the No Nonsense Amateur Radio Podcast (NoNonsenseAmateurRadio.Com). He often wonders if he can learn things fast enough.

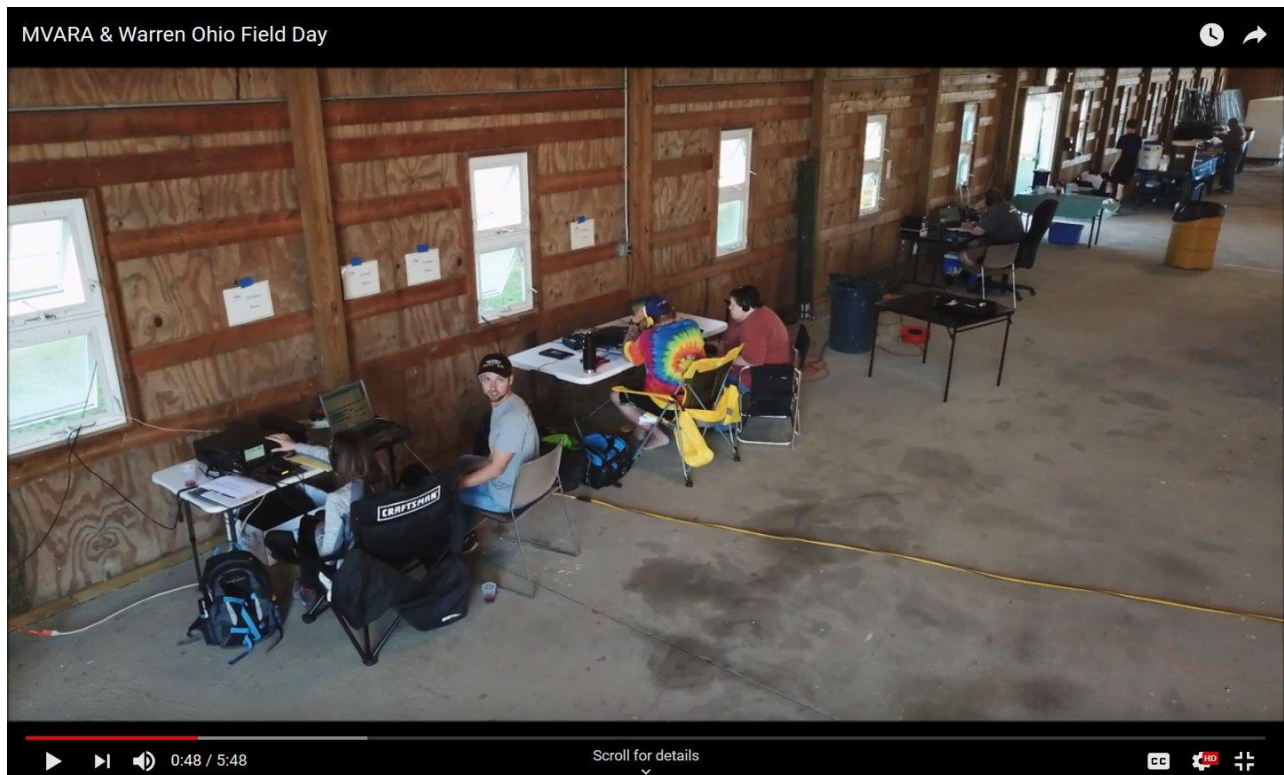
What's that buzzing sound?

Saturday afternoon the MVARA Field Day site was visited by a huge swarm of angry bees! Ok, it wasn't bees, it was a drone, but it still sounded like angry bees.

Ray Deramo, WD8DFW, visited on Friday to shoot video from his drone as the antennas were erected and again on Saturday as we were operating. Ray is very talented with the drone and making videos, has literally hours and hours of video on YouTube of points of interest in our area. Our Field Day has now entered his archive and you can view it here:

<https://www.youtube.com/watch?v=Yt6-RruwINk&authuser=0>

This is a direct link to our Field Day video, if you want to browse, do a search in YouTube for Ray Noneya, then click on videos tab. We will post this link to our Facebook page and website also.



MOMENTS IN MVARA HISTORY

FIELD DAY 2000



FIELD DAY

1. Field Day call used W8QLY 2. Club or group name Mahoning Valley ARA
 3. Field Day location Chapman farm New Springfield, Ohio

4. Check if set-up begun prior to 1800 UTC Saturday

5. Number of people participating in this operation:

> 50

6. Number of transmitters in simultaneous operation:

8

7. ARRL/RAC section 8-Ohio

8. Entry class (check only one)

- A. Club or non-club group portable
 B. Non-club portable 1 op 2 op
 List operators _____
 C. Mobile
 D. Home station (commercial power)
 E. Home station (emergency power)

9. Power Source

- Generator Battery
 Commercial mains Other

	CW		Digital		Phone	
	QSOs	Power Output	QSOs	Power Output	QSOs	Power Output
160	8	≤ 100			17	≤ 100
80					191	
40	142				210	
20					309	
15	57				146	
10	12				48	
6					22	
2					14	
Other						
Other						

219	CW QSOs	Digital QSOs	957	Phone QSOs
	Novice	Novice		Novice
	CW QSOs	Digital QSOs		Phone QSOs
219	Total CW QSOs	Total Digital QSOs	957	Total Phone QSOs

10. Call sign of Novice/Technician station
 (Class 2A and above)

12. Power Limit

13. Total CW QSOs 219 × 2 = 438
 Total Digital QSOs _____ × 2 = _____
 Total Phone QSOs 957 × 1 = 957
 Total QSO points 1395

- 5 W or Less (5)
 150 W or Less (2)
 over 150 W (1)

14. Total QSO points 1395 × Power Multiplier 2 = Claimed Score 2790

15. Bonus Points: Attach proof required for all bonus points claimed. All bonus points will be added at ARRL HQ.

- 100% Emergency power Message origination to SM Satellite
 Media publicity W1AW Field Day message Natural power
 Location in public place Messages relayed (no.)
 Information booth Non-traditional Demonstration

16. "I have observed all competition rules as well as all regulations for Amateur Radio in my country. My report is correct and true to the best of my knowledge. I agree to be bound by the decisions of the ARRL Awards Committee."

Date 7/1/00 Signature [Signature] Call W8JV
(signature/call of club president)

17. Full mailing address (please print)

Name Allen Johnson Call WD8KNJ
 Address 8793 South St
Warren, Ohio 44484
 E-mail address WD8KNJ@ARRL.NET

Please enclose log, photos, comments, ideas, etc. with your entry and mail promptly to: ARRL Field Day Entry, 225 Main Street, Newington, CT 06111.
 Internet: fieldday@arrl.org

Activity #15 Field Day

M24th and 25th were big days for the members of the MVRA. Field Day is looked upon as one of the most popular activities. Over 50 members participated, and we logged 957 contacts



Field Day 2019

Setup



Operations



MVARA Field Day 2019

By Frank Sole, WB8YHD



Mother Nature must have a Ham license because in a month of non-stop rain she gave us a beautiful weekend for Field Day. To say the weather was perfect is an understatement. There were blue skies, comfortable temperatures and low humidity, perfect weather for the MVARA's Field Day effort. MVARA members made full use of that weekend.

Our "antenna crew" came out Friday afternoon and put up all antennas for our 6A operation before sunset that evening, no small undertaking. Saturday dawned with a similar crew setting up our radios and all the parts and pieces needed for the 24 hour operating event that started at 2 pm in the "Big White Barn" at the Mill Creek Metro Parks Farm on route 46 in Canfield. Take a look at the drone video link on the MVARA Web Site and see for yourself. It was an impressive set up.

There were a few challenges with generators, GFIs and computer networks as the opening bell sounded but in true Field Day form MVARA members rose to those challenges and made many contacts and enjoyed each other's company. It was fun! The food was great for all of our meals. We even had a special cake commemorating our Centennial Celebration. Press coverage was excellent with radio and TV stories giving us plenty of publicity as evidenced by a steady stream of visitors from the public.

The weather was again perfect for tear down as our crew did another outstanding job of getting all the antennas down and materials sorted and transported off site well before early evening Sunday. Then Mother Nature continued the rains on Monday.

A big thank you to all MVARA members for their efforts and support of our Field Day 2019. Working together we continue to prove what a great group of amateur radio enthusiasts we have in our club.

There will be a 2019 Field Day debrief at Fernando's Wedgewood Pizza, Boardman, at 6:30 on Wednesday, June 26, to review the event and consider suggestions on how we can make the 2020 FD even better. Anyone who participated in FD is welcome to attend.

HAM HUMOR: FCC ESTABLISHES NATIONAL QRM FREQUENCY



By [WBØRUR](#), on the scene

WASHINGTON, District of Columbia – In an unprecedented move, the federal agency that oversees the country’s communications policies has established a national ham radio QRM (a.k.a. interference) frequency. The Federal Communications Commission has earmarked 14.313 MHz as the newly designated position on the 20 meter radio band.

“The Commission has taken a unique approach on this issue,” says FCC spokesman Matilda Blackburn. “There is already so much QRM on this frequency; it seems to be a logical decision.”

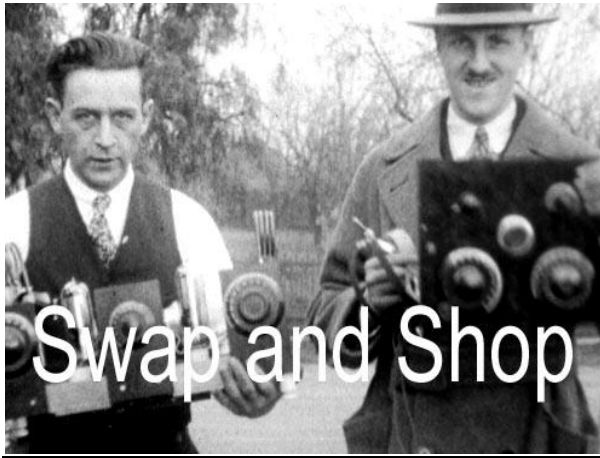
The Commission requests that hams desiring to create unnecessary QRM migrate to this frequency over the next few weeks. “We hope to have this frequency available to the general amateur radio community very soon.” says Blackburn.

But one ham radio operator, Johnson Thomasfeld of Springfield, Florida, is doubtful the idea will catch on. “I enjoy tuning up on top of on-going QSOs on 80, 40 and 15 meters, too. It’s an integral part of my enjoyment of the hobby. I’m sure my friends feel the same way. If you limit us to ONLY 14.313 MHz...well, that’s just not fair.”

Amateur radio operator Phillip Buccolo of Red Vine, California, objects for a different reason. “When I get on the air with one of my diatribes about the One-World government, I certainly don’t want to be QRM’d by someone else. Where’s my right to free speech!? IS THAT BEING TAKEN AWAY, TOO!?”

The Commission says profanity, grand-standing, self-aggrandizement, politics, religion, raspy and/or poor-quality signals will all be allowed – and in fact, encouraged – on 14.313 MHz. Blackburn adds that there no plans for official monitoring nor enforcement of the QRM standards; hams are expected to “self-police” the frequency.

www.hamhijinks.com



40-6m OCF

New version. This off-center fed antenna is convenient, small and easy to set up for portable use. 125w PEP power rated, 66' total length. Operates on 40, 20, 10, 6 meters *without* tuner. An antenna tuner is needed for 30, 17, 12 meters for best match. This is the same antenna used successfully at FD last year for 40m. 2 available @ \$36 each. Contact Mark, K8MSH, mh@zoominternet.net

Kenwood Transceiver

For Sale- Kenwood TS440s. Microphone, power cable, and Service Manual included. Works great. Just need to sell to finance other projects. \$350 to Club members or friends. 937-602-7356 jmmalarky@icloud.com

Swap and Shop information/policies are listed on the last page of the newsletter.





Station Loaner Program

If you're a new ham/newly upgraded and want to get on the HF bands, MVARA has a loaner program for club members. The club has two complete stations with radio, power supply, microphone, CW key, and antenna tuner. All you need to do is supply your own coax, antenna, and keep the equipment in good condition while you have it.

Loan period is up to 6 months. However, you will be responsible for returning the station temporarily for use during Field Day weekend in June.

With the new ARRL proposal, it looks like even Tech class amateurs may soon have more phone privileges on some of the HF bands. Contact MVARA at our email address: mvara.W8QLY@gmail.com

★ THE ORIGINAL 13 COLONIES SPECIAL EVENT GROUP PRESENTS THE 11TH ANNUAL ★
4th Of July Week - 13 Colonies Special Event
 JULY 1ST - JULY 7TH, 2019

K2A - NY		OLDE FORT TICONDEROGA, NY. • 1777 (Fully Rescored in 1909 With Original Period Cannon)		K2H - MA
K2B - VA				K2I - NJ
K2C - RI				K2J - NC
K2D - CT				K2K - NH
K2E - DE				K2L - SC
K2F - MD				K2M - PA
K2G - GA				K2ZUS
				★ Manager's Bonus Station

CONTACTS



BUILT BY THE FRENCH, OCCUPIED BY THE AMERICANS & CAPTURED BY THE BRITISH

THIS IS TO CERTIFY THAT ARS: **K2ZUS** HAS PARTICIPATED IN THIS 4TH OF JULY WEEK CELEBRATION HONORING THE ORIGINAL 13 COLONY STATES & THE INDEPENDENCE OF OUR NATION IN 1776



SAMPLE



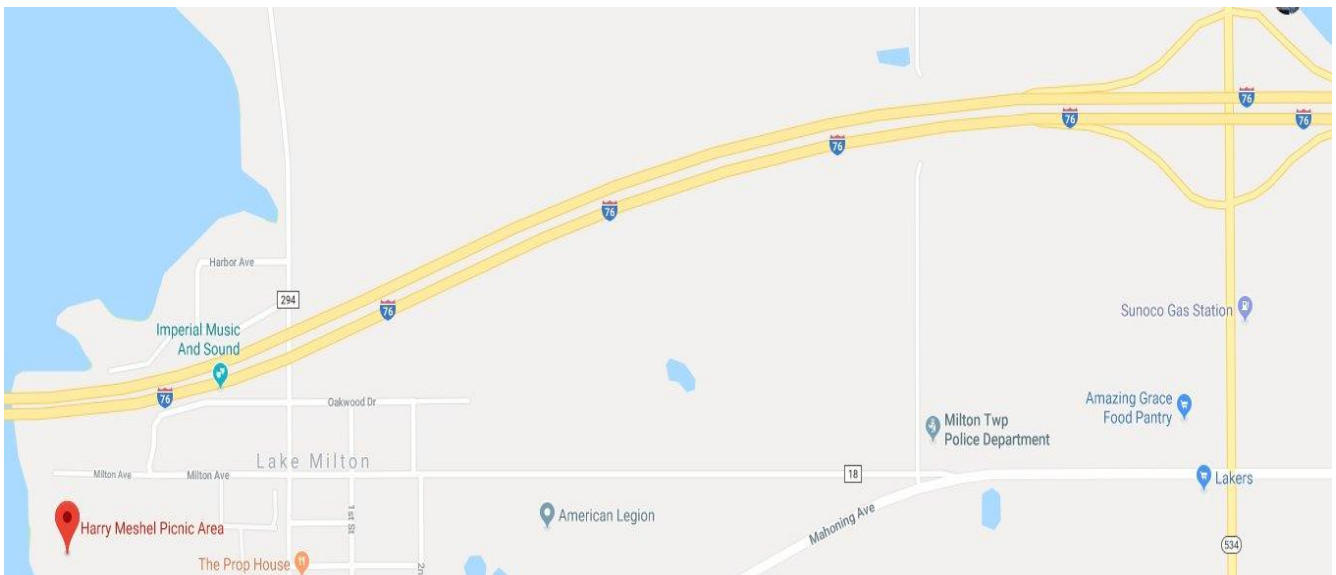
73'

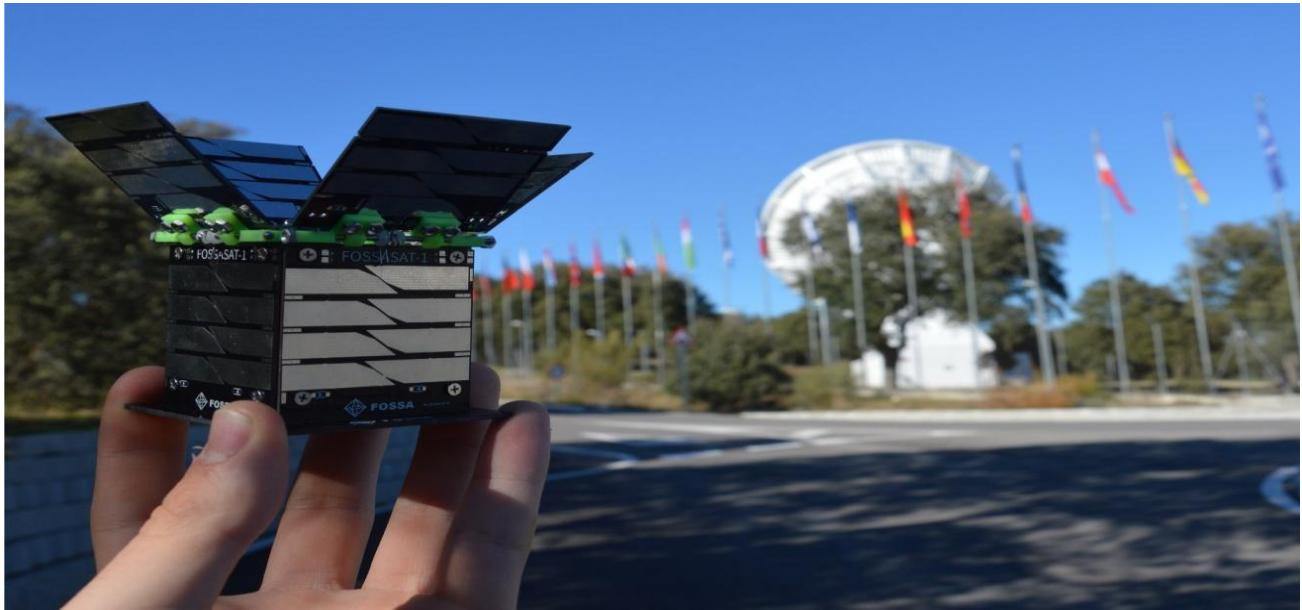
KEN VILLONE-K2ZUS MANAGER: *Ken Villone*

Mahoning Couty ARES

July 13, 2019 is the next Mahoning County ARES event. We will be providing communications for the Lake Milton Triathlon at Lake Milton State Park. Similar to the event at West Branch in June, this event will cover a large area surrounding the park and we will need many operators. Typical duties are to man a location along the route and report back the progress of participants. Additionally we are a resource if participants run into medical problems.

We expect this to also be a three to four hour event and will probably wrap up around noon. We will need operators on HT's and/or with mobile rigs. If you have an antenna you can erect on a pole by your vehicle it will help with some of the weak areas. We will use simplex during the event. Current plan is to meet at the Harry Meshel picnic area at 7 am. To reach the park from the Youngstown area, take I76W to the OH-534 exit and turn left on 534S. 534S to Mahoning Ave (Rt 18). Right on Mahoning Ave (W) to Milton Ave. Milton Ave to the park. You will pass the Fire Department and a stop sign on Milton Ave.





16-year-old ham radio satellite builder in the press

16-year-old radio amateur [Julián Fernández EA4HCD](#) was interviewed by the newspaper El Mundo Chronicle about his [FossaSat-1](#) PocketQube satellite.

A Google translation of an extract of the [article](#) says:

...at the age of seven someone told him about the International Space Station and, since then, he has not stopped fantasizing about the idea of a voyage safe from gravity. “Unlike the children of previous generations who dreamed of being astronauts without knowing very well how to get it, I have grown up with all the information at my fingertips,” he tells Crónica.”

Now Julián Fernández [EA4HCD], already as CEO of Fossa Systems, has just launched a crowdfunding campaign through GoFundMe with which he intends to finance his latest talent: a mini-satellite (the smallest in Spain and the third in the world) that will allow the Internet access throughout the world. “It is not designed to provide Wi-Fi hotspots,” jokes this student of 4th of ESO, “but to try to democratize access to telecommunications in the environment of the internet of things.” To meet its objective, and in order to reduce launch costs, the last two years have been devoted to miniaturizing the size of the satellite. “My prototype will take the internet to rural areas, many of them without coverage of any kind, so that monitoring data can be sent at no cost”.

Read the English version of the full article at <https://tinyurl.com/El-Mundo-FossaSat-1>

The Fossa team is made up of international members from all over the world working together thanks to the magic of the internet <https://fossa.systems/about-us/>

The IARU have coordinated a frequency of 436.700 MHz for the 100 mW downlink which is capable of 183 Hz Shift FSK RTTY 45 baud ITA2 and LoRa 125 kHz B/W 180 bps, details at http://www.amsatuk.me.uk/iaru/finished_detail.php?serialnum=652

Source: [AMSAT UK](#)

Amateur License Refresher Dave, KD8NZF



It's probably been awhile since you took your Amateur License exam. Here are a few sample questions from the current question pools just to keep those synapses firing.

Extra Pool

E4D01

What is meant by the blocking dynamic range of a receiver?

- A. The difference in dB between the noise floor and the level of an incoming signal which will cause 1 dB of gain compression
- B. The minimum difference in dB between the levels of two FM signals which will cause one signal to block the other
- C. The difference in dB between the noise floor and the third order intercept point
- D. The minimum difference in dB between two signals which produce third order intermodulation products greater than the noise floor

E4D02

Which of the following describes two problems caused by poor dynamic range in a communications receiver?

- A. Cross-modulation of the desired signal and desensitization from strong adjacent signals
- B. Oscillator instability requiring frequent retuning and loss of ability to recover the opposite sideband
- C. Cross-modulation of the desired signal and insufficient audio power to operate the speaker
- D. Oscillator instability and severe audio distortion of all but the strongest received signals

General Pool

G4E01

What is the purpose of a capacitance hat on a mobile antenna?

- A. To increase the power handling capacity of a whip antenna
- B. To allow automatic band changing
- C. To electrically lengthen a physically short antenna
- D. To allow remote tuning

G4E02

What is the purpose of a corona ball on a HF mobile antenna?

- A. To narrow the operating bandwidth of the antenna
- B. To increase the "Q" of the antenna
- C. To reduce the chance of damage if the antenna should strike an object
- D. To reduce high voltage discharge from the tip of the antenna

(Answers pg. 2)

Contest and Special Event Operating Information

Dave Fairbanks N8NB

Data below as well as more information courtesy of the following website:

<http://www.hornucopia.com/contestcal/index.html>.

July 2019

+ RAC Canada Day Contest	0000Z-2359Z, Jul 1
+ 10-10 Int. Spirit of 76 QSO Party	0001Z, Jul 1 to 2400Z, Jul 7
+ IQRP Quarterly Marathon	0800Z, Jul 1 to 2000Z, Jul 7
+ RSGB 80m Club Championship, CW	1900Z-2030Z, Jul 1
+ Fireflies QRP 72 Sprint	0000Z-0200Z, Jul 2
+ ARS Spartan Sprint	0100Z-0300Z, Jul 2
+ QRP Fox Hunt	0100Z-0230Z, Jul 2
+ Phone Fray	0230Z-0300Z, Jul 3
+ CWops Mini-CWT Test	1300Z-1400Z, Jul 3 and 1900Z-2000Z, Jul 3 and 0300Z-0400Z, Jul 4
+ NRAU 10m Activity Contest	1700Z-1800Z, Jul 4 (CW) and 1800Z-1900Z, Jul 4 (SSB) and 1900Z-2000Z, Jul 4 (FM) and 2000Z-2100Z, Jul 4 (Dig)
+ SKCC Sprint Europe	1900Z-2100Z, Jul 4
+ NCCC RTTY Sprint	0145Z-0215Z, Jul 5
+ NCCC Sprint	0230Z-0300Z, Jul 5
+ FISTS Summer Slow Speed Sprint	0000Z-0400Z, Jul 6
+ Venezuelan Ind. Day Contest	0000Z-2359Z, Jul 6
+ DL-DX RTTY Contest	1100Z, Jul 6 to 1059Z, Jul 7
+ Marconi Memorial HF Contest	1400Z, Jul 6 to 1400Z, Jul 7
+ Original QRP Contest	1500Z, Jul 6 to 1500Z, Jul 7
+ PODXS 070 Club 40m Firecracker Sprint	2000Z, Jul 6 to 2000Z, Jul 7
+ Phone Fray	0230Z-0300Z, Jul 10
+ CWops Mini-CWT Test	1300Z-1400Z, Jul 10 and 1900Z-2000Z, Jul 10 and 0300Z-0400Z, Jul 11
+ RSGB 80m Club Championship, SSB	1900Z-2030Z, Jul 10
+ QRP Fox Hunt	0100Z-0230Z, Jul 11
+ NCCC RTTY Sprint	0145Z-0215Z, Jul 12
+ NCCC Sprint	0230Z-0300Z, Jul 12
+ FISTS Summer Unlimited Sprint	0000Z-0400Z, Jul 13
+ IARU HF World Championship	1200Z, Jul 13 to 1200Z, Jul 14
+ SKCC Weekend Sprintathon	1200Z, Jul 13 to 2400Z, Jul 14
+ QRP ARCI Summer Homebrew Sprint	2000Z-2300Z, Jul 14
+ 4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Jul 15
+ Phone Fray	0230Z-0300Z, Jul 17
+ CWops Mini-CWT Test	1300Z-1400Z, Jul 17 and 1900Z-2000Z, Jul 17 and 0300Z-0400Z, Jul 18
+ QRP Fox Hunt	0100Z-0230Z, Jul 18
+ NCCC RTTY Sprint	0145Z-0215Z, Jul 19
+ NCCC Sprint	0230Z-0300Z, Jul 19
+ NAQCC CW Sprint	0030Z-0230Z, Jul 20
+ Russian Radio Team Championship	0700Z-1459Z, Jul 20

+ Trans-Tasman Low-Bands Challenge	0800Z-1400Z, Jul 20
+ Feld Hell Sprint	1200Z-1359Z, Jul 20
+ CQ Worldwide VHF Contest	1800Z, Jul 20 to 2100Z, Jul 21
+ North American QSO Party, RTTY	1800Z, Jul 20 to 0559Z, Jul 21
+ SA Sprint Contest	2100Z-2259Z, Jul 20
+ RSGB Low Power Contest	0900Z-1200Z and 1300Z-1600Z, Jul 21
+ CQC Great Colorado Gold Rush	2000Z-2159Z, Jul 21
+ Run for the Bacon QRP Contest	0100Z-0300Z, Jul 22
+ SKCC Sprint	0000Z-0200Z, Jul 24
+ Phone Fray	0230Z-0300Z, Jul 24
+ CWops Mini-CWT Test	1300Z-1400Z, Jul 24 and 1900Z-2000Z, Jul 24 and 0300Z-0400Z, Jul 25
+ QRP Fox Hunt	0100Z-0230Z, Jul 25
+ RSGB 80m Club Championship, Data	1900Z-2030Z, Jul 25
+ NCCC RTTY Sprint	0145Z-0215Z, Jul 26
+ NCCC Sprint	0230Z-0300Z, Jul 26
+ RSGB IOTA Contest	1200Z, Jul 27 to 1200Z, Jul 28
+ ARS Flight of the Bumblebees	1700Z-2100Z, Jul 28
+ QCX Challenge	1300Z-1400Z, Jul 29 and 1900Z-2000Z, Jul 29 and 0300Z-0400Z, Jul 30
+ Phone Fray	0230Z-0300Z, Jul 31
+ CWops Mini-CWT Test	1300Z-1400Z, Jul 31 and 1900Z-2000Z, Jul 31 and 0300Z-0400Z, Aug 1

DX Operating Information Dave Fairbanks N8NB

Credit for the below information and further information on these operations and others can be found at the following website: <http://www.ng3k.com>

July						
2019 Jul05	2019 Jul12	Malta	9H3IK	IK0PUL	TDDX 20190502	By IK0PUL; 30 20 17m; 100w; holiday style operation
2019 Jul05	2019 Jul20	Solomon Is	H44MS	DL2GAC	TDDX 20190417	By DL2GAC fm Malaita Island (IOTA OC-047); 80-10m, perhaps 6m; SSB; QSL OK via DARC Buro or direct; operation to continue until Sep 24 or 25
2019 Jul06	2019 Aug03	Palestine	E44WE	SP9FIH	DXW.Net 20190609	By SP9FIH; 80-6m; SSB FT8 RTTY
2019 Jul07	2019 Jul16	East Malaysia	9M6NA	LoTW	JE1JKL 20190601	By JE1JKL fm Labuan I (IOTA OC-133); QRV for IARU HF Championship; focus on 6m FT8 before and after the contest; QSL also OK via Club Log
2019 Jul20	2019 Aug11	St Kitts & Nevis	V47JA	LoTW	W5JON 20190228	By W5JON fm Calypso Bay, St Kitts; 160-6m, focus on 6m; SSB FT8; yagi on 6m, verticals, dipole; QSL also OK via W5JON direct
RSGB IOTA Contest (Jul 27-28, 2019) Check here for pericontest activity too.						
2019 Jul31	2019 Aug07	Maldives	8Q7SU	LoTW	TDDX 20190504	By JI3KDH fm Kuda Bandos I (IOTA AS-013); 20-10m; CW; 100w; dipole; QSL also OK via eQSL; logs will be uploaded to Club Log
2019 Jul31	2019 Aug07	St Paul I	CY9C	Club Log	WA4DAN 20190513	By WA4DAN N2IEN WW2DX AA4NC K5DHY W4DKS VA3QR; 160-6m; CW SSB FT8 + EME satellite; QSL also OK via WA4DAN

Mahoning Valley Amateur Radio Association



**Please join us for our
100th Anniversary Dinner celebration**

Saturday, October 5, 2019

**A La Cart Catering
429 Lisbon St.
Canfield, OH 44406**

\$22.00 per person

Meet & Greet	5:00 pm to 6:00 pm
Dinner	6:00 pm to 7:00 pm
Program	7:00 pm

RSVP: by July 31, 2019

**Please make checks payable to MVARA
Mail to P.O. Box 14141, Poland, Ohio 44514**

THE LAST WORD

"None of us, including me, ever do great things. But we can all do small things, with great love, and together we can do something wonderful." – Mother Teresa



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The ***VOICE COIL*** is the monthly publication of the Mahoning Valley Amateur Radio Association, Inc. (MVARA) and is intended to present news, issues and opinions of interest to MVARA members and the Amateur Radio Community. We encourage contributions of articles, letters to the editor, etc. and welcome newsletter exchanges with other clubs from around the country and around the world. Permission is granted to reprint material contained herein as long as proper credit is given to this newsletter and the author. Ideas for and contributions to the VOICE COIL should be submitted to:

MVARAVoiceCoil@gmail.com

Submissions must be received **no later than the 24th** of the month prior to the month of issue, unless otherwise specified. **Submissions should be in MS Word format or ASCII text—no PDF, please!** Material received after the deadline will be used in the next month's VOICE COIL if it is still current and /or newsworthy.

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