



June 2022
Our 103rd Year
Volume 60, Issue 6

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Website:

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

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

The Voice Coil

Prez Sez

We recently had the opportunity to work with some students from the Youngstown school system. We were contacted a couple of months ago by Kevin Jones a teacher at Chaney Middle School who, by the way, is a non-active ham. He asked us if we could put on a mini field day.



After many meetings we came up with the idea of 4 stations. A HF station, a digital station, a Morse practice station and an antenna station. We were working with 6th, 7th and 8th grade students who all had a great time learning about ham radio.

The HF gods were not with us that day but Mark Haverstock and students did talk to Andy Brincko. Dave Brett had all the kids fascinated with how antennas worked. It was interesting to watch their minds work as they solved problems Dave presented them. Ed Newsome had the kids intrigued with the digital station. I hear they talked to a ham overseas.

Frank Sole had set up 2 practice stations for the kids and they were hammering out Morse code. I overheard one teacher say he had never seen the kids more interested in something. After pointing, the kids, he said they would be interested in doing something more.

Field day is coming up and we need your help. I just found out we may have lost our Morris station so I need your help and if someone can step up and help that would be great. We also need operators we have stations that we can set up for you we just need warm bodies that can operate.

-Scott

April Meeting Location:

GOP Headquarters, Adamas Plaza
8381 Market St, Boardman, OH 44512
June 9, 2022, 7 PM

Meeting also available on Zoom--check your email for link.

2021 Officers

President: Scott Wilton, KE4UHC

Vice President: Mike McCleery,
K8PRR

Secretary: Doug Sage, KB8TPG

Treasurer: Dean DeMain, W8YSU

Trustees:

Andy Brinco, WA8ZLK (1)

Mark Haverstock, K8MSH (1)

John DeGutis, N8LVA (2)

Joe Vasco, N8SEJ (2)

Newsletter Editor: Mark
Haverstock, K8MSH (1)

Awards Manager: Dave Fairbanks,
N8NB, 330.501.5031, 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 Dean,
W8YSU@arrl.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.

June Program

The June meeting is our Field Day preview. Find out about our planned setup and get answers regarding events, operating schedule, and how you can participate.

Have a Tech license? Field Day is a perfect opportunity to get some air time while working with members who have General or Extra class licenses. Learn about HF antennas, station configurations and how to put together an emergency station.



License Refresher:
E5C01 (A) E5C02 (C) G9D01 (A) G9D02 (D)

Current Activities

June 9: Monthly meeting 7pm. GOP HQ and Zoom.

June 25-26: Field Day, Metro Park Farm, Canfield (across from Fairgrounds).

July 7: VE Testing, 7 pm. Details to follow.

Comments, Questions?

Email: mvara.W8QLY@gmail.com Snail-mail: MVARA, P.O. Box 14141, Poland, OH 44514

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

Hamfests *All are subject to change. Stay current by checking the sponsoring club's web page.*

07/09/2022 - Intercity Amateur Radio Club - Mansfield - Location: Richland County Fairgrounds - 750 North Home Road - Mansfield, OH 44901 - Website: <https://iarc.club/> - Public Contact: Danny Bailey , W8DLB - 70 Euclid Street Shiloh, OH 44878 - Phone: 419-541-8557 - Email: W8dlb113@gmail.com

09/25/2022 - The 47th Annual Cleveland Hamfest And Computer Show - Hamfest Association of Cleveland - Location: Cuyahoga County Fairgrounds - 164 Eastland Road - Berea, OH 44017 - Website: <http://www.hac.org> - Public Contact: Glenn Williams, AF8C - 4134 Stoney Ridge Rd. Avon, OH 44011 - Phone: 440-934-5566 - Email: af8c@ARRL.net

Swap and Shop

Selling for an estate. Please contact Scott Wilton at 727-501-5195 for any more information. All equipment is well taken care of and looks brand new.

- IG-102 RF Signal Generator has test leads and powers up on plug in. Comes with assembly manual \$45
- Sencore MU 150 tube tester has manual and instruction manual powers up \$400
- Heathkit Vacuum tube tester IM-18 has manual has leads and powers up. \$50
- Allied Knight 50 watt transmitter T-50 has manual has extra frequency modules \$85
- Hammarlund HQ-One Seventy A has manual. Extra tubes. Powers up \$125
- The technical materials corp. Communications receiver Model GPR-90 has manual and extra tubes - \$275
- Astron power supply VS 35M \$100
- Hallicrafters Transceiver Model HT-37 Powers up. \$250
- Yaesu FT950 No box no mic. Has manual \$725
- Heathkit digital frequency counter Model IM-2410 Frequency range 10Hz – 50MHz and 20MHz – 225MHz \$50
- Hallicrafters T.O.Keyer Model HA-1 \$50
- Heathkit Linear amplifier Model SB-200 Powers up
- MFJ Versa Tuner V 3kw Series Roller Inductor Model MFJ-989C Has manual \$200
- MFJ HF/VHF SWR analyzer Model MFJ 259B has manual \$150

>Continued Page 8



It's probably been a while 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

E5C01

Which of the following represents capacitive reactance in rectangular notation?

- A. $-jX$
- B. $+jX$
- C. Delta
- D. Omega

E5C02

How are impedances described in polar coordinates?

- A. By X and R values
- B. By real and imaginary parts
- C. By phase angle and magnitude
- D. By Y and G values

General Pool

G9D01

Which of the following antenna types will be most effective as a Near Vertical Incidence Skywave (NVIS) antenna for short-skip communications on 40 meters during the day?

- A. A horizontal dipole placed between $1/10$ and $1/4$ wavelength above the ground
- B. A vertical antenna placed between $1/4$ and $1/2$ wavelength above the ground
- C. A left-hand circularly polarized antenna
- D. A right-hand circularly polarized antenna

G9D02

What is the feed-point impedance of an end-fed half-wave antenna?

- A. Very low
- B. Approximately 50 ohms
- C. Approximately 300 ohms
- D. Very high

Answers pg. 2

What if it Fails?

Our May ARES activity was the construction of J-Pole antennas. The session went well and 10 new 2M fold up J-poles left the building. All were happy with the build and commented we need to do more of these.

We will not do a June ARES activity and hope all our members will be participating in Field Day, June 25, 2022. Listening to the local nets, each of the local clubs have Field Day locations and all interested are invited to stop in and check out Field Day 2022.



Be sure to check out the rules for 2022 as there have been some changes and ARRL says these updates will be permanent after the temporary rule changes during covid. As a sample, ARRL says the club aggregate scoring change initiated in 2020 as a temporary measure will become part of the permanent rules. In the aggregate scoring plan, the scores of individual stations are combined under the score of a single club.

For July we are making up for lost time with a hard core deployment exercise. We have firmed up some of the details and can confirm we have been in touch with some of the local agencies involved in Disaster Operations and will be using their locations during the exercise. You can be sure there will be lots of opportunity for portable operations throughout the county. We expect there will also be HF and Digital use. Keep your ears open.

Our August plans are to hold training on alternative power sources and we expect a lot of show and tell. Lithium batteries have become all the rage and we know many of our volunteers are set up to operate from them. Of course we have one member that says don't overlook the F-150 resource!

Membership in MC ARES is free and all amateur radio operators are welcome to join. If you are interested in public service and emergency communications and would like to join, please visit our web site at www.mahoning-ares.org and fill out and return an application form.

Committed to our Community
When All Else Fails



By [K5PO](#), on the scene

STRATFORD, MI – Yesterday started like most days on the Stratford Mountain 147.225 ham radio repeater, with whining about the XYL's quilting problem, discussions on the recent cold spell, and the unintentionally keyed mic capturing the sounds of Mark Mills belching in pleasure at the completion of his breakfast. None of those participating in the morning drive-time chat thought much about it or had any idea of the magnitude of what would follow.



Jim Brantski is usually the first to start. As soon as Brantski gets enough coffee in his blood he'll bring up some unappealing part of the current state of political affairs to complain about. "Ohhhh that Biden!" he quipped on this morning, with more than a little disdain in his tone. This is usually how it all starts.

"You're telling me!" replied Jonny Pickle. "Where did our country go? This sure wasn't what my granddad fought for in the World War II!"

The empty pseudo-political banter continued for a few minutes until the soft-spoken Robert Yurder made the statement, "I have an idea about this whole Middle East crisis."

"Well, let's hear it Rob," Brantski replied. He had a tone indicating he wasn't particularly interested in Yurder's opinion.

Yurder proceeded to lay out a set of fresh and innovative ideas that seemed to provide truly viable options for Israeli and Palestinian states to coexist peacefully and without undue concessions on either side. The repeater went silent.

Mills, satiated from a quality breakfast, finally replied "That is a lovely idea Rob, and I appreciate you sharing it with us." The tone was a stark contrast from his typical highly-charged tirades against most-everything. "You know, I have some ideas, too," said Mills. He then proceeded to lay out a brilliant 10-step plan to balance the U.S. budget without any spending cuts or new taxes.

Again the repeater fell silent in amazement and agreement to the well-thought-out, non-partisan, non-rhetoric-filled ideas being shared.

"Well, it's not like that Biden would ever do that!" cackled Brantski, doing well to dismiss all the productive conversations and ensuring they'd never occur again. Ever.

[hamhijinks.com](#)

DX Operating Information

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

June						
2022 Jun01	2022 Jun22	Rwanda	9X2AW	LoTW	DXW.Net 20220419	By DF2WO fm Kigali; 160-10m; CW SSB + digital; QSL via M0OXO OQRS
2022 Jun01	2022 Jul31	Gabon	TR8CR	F6AJA (B/d)	TDDX 20220405	By F8EN; 40 30 20m; CW
2022 Jun05	2022 Jun15	Cyprus SBA	ZC4RH <small>NEW</small>	LoTW	TDDX 20220530	By G3WXJ; also 5B4/G3WXJ; 40-10m; SSB CW + some FT8; 100w; Buddistick, end-fed wire; holiday style operation; QSL via G3WXJ (B/d)
2022 Jun14	2022 Jun19	Sao Tome & Principe	S9EFW	LoTW	DXW.Net 20220419	By K9EFW; 40 20 15 10m; SSB; QSL via K9EFW
2022 Jun18	2022 Jun26	Ogasawara	JD1BMH	JD1BMH Buro	DXW.Net 20211203	By JG7PSJ fm Chichijima I (IOTA AS-031); 40-10m; CW SSB RTTY; QSL OK via JG7PSJ direct
2022 Jun22	2022 Jun27	Jan Mayen	JX		DXW.Net 20211203	By LB5SH as JX/LB5SH; SSB FT8
2022 Jun24	2022 Jul02	Ogasawara	JD1AJD	LoTW	JA1ADT 20220508	By JA1ADT; 20-6m; CW FT8 FT4; focus on 6m for EU/NA
2022 Jun26	2022 Jul06	Market Reef	OJ0	LoTW	TDDX 20220516	By OH3JR as OJ0JR and OG2M as OH0MR; focus on 6m; FT8 CW SSB; looking for NA, SA, Asia; QSL OJ0MR via OG2M direct, OJ0JR via OH3JR
2022 Jun28	2022 Jul05	Liechtenstein	HB0	LoTW	OZ0J 20220410	By OZ0J as HB0/OZ0J; HF; SSB CW + digital (incl FT8); QSL via Clug Log OQRS, eQSL, OZ0J (B/d)
2022 Jun28	2022 Jul12	St Pierre & Miquelon	FP	LoTW	DXNews 20220421	By KV1J as FP/KV1J fm Miquelon I (IOTA NA-032); QSL via KV1J
2022 Jun30	2022 Jul08	Ogasawara	JD		TDDX 20220513	By JD1BQI and JR3DVL as JD1/JR3DVL fm QL17cb; 6m; 50323 FT8; 200w; yagi; looking for double-hop E-skip to NA and EU

Swap and Shop (Continued)

Rick Tenan Estate Items for sale. Contact Ken Starcher at 330-475-2630 if you would like to purchase any of the following items. Leave a message if not available. All proceeds go to Pam Tenan. Complete Drake "B-Line" station in museum quality condition:

R4B Receiver, T4XB Transmitter with custom cover,

MS-4 Speaker and Cabinet with custom cover

MN-2000 Tuner with custom cover

AC-4 Power Supply and connecting cables

Drake W4 wattmeter, Shure 444 Microphone

Items were serviced and brought up to top operating condition by Jeff Covelli.

\$1080 price for the complete set. Separate items are not for sale. Most manuals included

1. Yaesu FT-990 HF Transceiver in excellent condition. MD-1 mic and manual included. \$675
2. Kenwood TS-820 HF Transceiver in excellent condition with manual. VFO-820, SP-820 and MC-50 mic and connecting cables included. \$ 585
3. Heathkit SB-1400 HF transceiver and SBA-1400 speaker/ps in mint condition. \$200
4. Heathkit HX-30 6 meter transmitter and HA-20 Amplifier in average condition. Includes Comair LM-6N2C 6 and 2 meter manual tuner in fair condition. \$400.
5. Heathkit HO-10 Monitor Scope in good condition. \$ 45.
6. Astron RS-50M DC power supply in excellent condition. \$250.
7. Radio Shack 22-510 25 amp switching power supply. \$75.
8. Allied-RadioShackAX-190 HF ham band receiver in very good condition. \$100
9. Siltronics (SWAN) FS-301 SWR meter with 1000w and 20w scales in good condition. \$45
10. Radio Shack Pro-2044 Scanner. \$30
11. Royce 2-100 Field Strength & SWR meter. \$15
12. Midland 23-135B Field Strength meter. \$10
13. Lafayette Telsat SSB-75 SSB and AM transceiver. \$45
14. Radio Shack HTA20 2 meter mobile transmit amp. \$55.
15. DSI-5500 50hz-512mhz frequency counter. \$55
16. MFJ-945D Mobile tuner. \$80
17. MFJ-945E Mobile tuner. \$115
18. MFJ-949E Deluxe Versatuner II. \$115
19. Large backlit "On the Air" sign. \$25
20. RCI-5054 6m SSB transceiver. \$170

Antenna items below:

1. CSH-A4S Beam with optional A-744 driven element for 40 meters. It may need some adjustments. \$75.
2. Diamond X200 vertical for 2M and 70CM. \$100
3. Ham IV rotator and controller. \$450.

Swap and Shop (Continued)

Dave Fairbanks, 330-501-5031

1. Alpha Delta parallel dipole. Multi-band resonant, 1000w pep, 250 watt RTTY. 80,40,20,15 and 10 meters. 82 ft. total length. Antenna was assembled and used a short time and worked fine. Dxengineering part number ALF-DX-CC.

2. Geochron Digital Atlas 2 4k. 6 months old and works perfectly. It gives viewers a beautiful view of earth with the sunrise-sunset rendered in real time by its self-contained mini-computer that plugs into your monitor or TV. It displays night lights of cities, weather, travel routes, satellite tracking and much more. Dxe part number GEO-400-1000B.

Joe Fulton 330-792-3640, leave voice message.

Icom IC-718 w/ IC-UT106 DSP Board and MARS Mod
Excellent shape Icom HM-36 Hand Microphone Excellent
shape Icom SM-30 Desk Microphone Excellent shape Samlex
SEC-1235M 30 Amp Power Supply Fair to good shape
Digirig Mobile Excellent shape w/ cables to Icom for PTT and
CI-V Control you will need a USB C cable to computer for
Digital Modes Reprinted manual and schematic for Digirig
cables.

\$600 PayPal Goods & Services or cash only, local pick-up in
Austintown, OH. KE8QOY



Hamvention 2022 --- Xenia, OH





Improve Your Field Day Operating Skills - Doug K1DG - Contest University 2022

301 views • 5 days ago



Red Summit RF

Doug has been licensed since 1967. Over the years, he has managed to collect plaques for first-place scores in single-op, ...

New

<https://www.youtube.com/watch?v=PrHWqr3roN>



FT8 for Field Day, Joe DiVincetis, K08V

1.5K views • 2 years ago



Albemarle Amateur Radio Club AARC

Joe Devincentis, K8OV gives information about how to use the FT8 digital protocol on Field Day.

<https://www.youtube.com/watch?v=G0flbA8lK>

Want to Get a Tech License? Read About the Recent Changes by the FCC

First-Time Exam Applicants MUST Obtain FCC Registration Number BEFORE Taking Exam

As of May 20, 2021, all amateur examination applicants are required to provide an FCC Registration Number (FRN) to the Volunteer Examiners (VEs) BEFORE taking an amateur exam. This is necessary due to changes the FCC has made to its licensing system. Applicants will create an FCC username and account, respond to the verification email from FCC, and then register for the FRN. Register on the FCC's Commission Registration System (CORES): <https://apps.fcc.gov/core/>

Social Security Numbers are NO LONGER ACCEPTED at Exam Sessions

Amateur candidates who already have an FCC license, whether for amateur radio or in another service, already have an FRN and can use the same number - it is printed on your current license. All prospective new FCC licensees, however, will be required to obtain an FRN before the examination and provide that number to the volunteer examiners on the Form 605 license application. An FCC instructional video (<https://www.fcc.gov/rofrn>) provides step-by-step instructions on how to obtain an FRN through the FCC's CORES system. The FRN is required for all new applicants to take an amateur exam and is used afterward by the applicant to download the license document from the FCC Universal Licensing System (ULS) (<https://www.fcc.gov/wireless/universal-licensing-system>), upgrade the license, apply for a vanity call sign, and to submit administrative updates (such as address and email changes) and renewal applications.

Email Addresses REQUIRED

As of June 29, 2021 all applications will be required to contain an email address for FCC correspondence. Applicants will receive an email direct from the FCC with a link to the official electronic copy of their license whenever a license is issued or changed. ARRL VEC suggests that those without access to email to use the email address of a family member or friend. Licensees will be able to log in to the ULS using their FRN and password to download the latest version of their license at any time. The FCC no longer provides paper license documents.

New FCC \$35 Amateur Application Fee - Effective as of April 19, 2022

March 23, 2022 - The FCC released a Public Notice stating that the amateur radio application fees, including those associated with Form 605 application filings, would become effective on April 19, 2022. The Federal Communications Commission's authority to impose and collect fees is mandated by Congress.

April 4, 2022 - The Federal Communications Commission (FCC) staff has clarified in response to an ARRL request that the new \$35 application fee will not apply to most license modifications, including those to upgrade an amateur radio licensee's operator class and changes to club station trustees. The FCC staff explained that the new fees will apply only to applications for a new license, renewal, rule waiver, or a new vanity call sign. As previously announced, the new fees take effect on April 19, 2022.

"We are pleased that the FCC will not charge licensees the FCC application fee for license upgrade applications," said ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM. "While applicants for a new license will need to pay the \$35 FCC application fee, there will be no FCC charge for future upgrades and administrative updates, such as a change of mailing or email address."

Most current licensees, therefore, will not be charged the new FCC application fee until they renew their license or apply for a new vanity call sign."

New and upgrade applicants will pay the \$15 exam session fee to the ARRL VE team as usual and pay the \$35 application fee directly to the FCC by using the CORES FRN Registration system (CORES - Login). VEC and VE team licensing procedures will not change.

When the FCC receives the examination information from the VEC, it will email a link with payment instructions to each successful candidate. The candidate will have 10 calendar days, from the date of the application file number being issued, to pay. After the fee is paid, and the FCC has processed an application, examinees will receive a second email from the FCC with a link to their official license. The link will be good for 30 days.

Youth Licensing Grant Program

The ARRL Youth Licensing Grant Program, in effect since April 19, 2022, will cover the one-time \$35 application fee for new amateur radio license candidates younger than 18 years old for tests administered under the ARRL Volunteer Examiner Coordinator (VEC) program. "We are thrilled that we are able to provide this opportunity to our youth candidates," said ARRL VEC Manager Maria Somma, AB1FM.

The \$35 Federal Communications Commission (FCC) application fee will be reimbursed after the ARRL VEC receives the completed reimbursement form and after the new license has been issued. The reimbursement check will be mailed to the fee payer. Also, candidates younger than 18 years old would pay a reduced exam session fee of \$5 to the ARRL VEC team at the time of the exam. The \$5 fee is for all candidates under the age of 18, regardless of the exam level taken. Proof of under 18 status is required at the session.

The ARRL Board approved the Youth Licensing Grant Program at its July 2021 meeting in Hartford, Connecticut, expanding on the scope of the original motion proposed by ARRL Southeastern Division Director Mickey Baker, N4MB.

The Board believes the recruitment and training of young amateur radio operators is a necessary and proper mission of the ARRL and subsidization of the \$35 fee will reduce the number of new amateurs that would otherwise be lost from these groups. Initially the new program would serve up to 1,000 new license applicants under 18 years old. The program length is indefinite; it may be renewed or terminated by the Administration and Finance Committee or by the Board of Directors. Visit the ARRL website for the program instructions and reimbursement form at www.arrl.org/youth-licensing-grant-program.

ARRL VEC Application Fees webpage: <http://www.arrl.org/fcc-application-fee>

ARRL News Story: <http://www.arrl.org/news/new-amateur-radio-license-applications-fee-to-become-effective-april-19-2022>

FCC CORES Video Tutorials: <https://www.fcc.gov/licensing-databases/fcc-registration-system-cores/commission-registrationsystem-video-tutorials>

FCC Registration Help: <https://apps.fcc.gov/cores/publicHome.do?help=true>

THE LAST WORD

We believe that electricity exists, because the electric company keeps sending us bills for it, but we cannot figure out how it travels inside wires.

Dave Barry

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HTTPS://WWW.FACEBOOK.COM/MAHVALRADIO



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.

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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.

Swap and Shop Policies

Swap and Shop listings are open to all licensed Mahoning Valley Hams, based on space available—you don't need to be an MVARA member. Please submit your list to mvara.w8qly@gmail.com **AND** mvaravoiccoil@gmail.com for placement in both *Voice Coil* and website. MVARA assumes no responsibility for transactions made or inaccuracies in ads. You are responsible for checking your ad and notifying us of any corrections. Ads will run for two consecutive issues unless we are notified otherwise.

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