

December 2022

2022 Edition 11



Mount Vernon Amateur Radio Club

Inside this issue

Club Meeting	2
MVARC Membership Form	3
President's View	4
Notices	5
Meeting Minutes	6
Repeater Updates	8
Radio Activity.....	12
ARES.....	14
Proposed New Logo	15
MVARC Calendar.....	16
Miscellaneous Rambling.....	17
Final Takeaway	18
Sample Test Questions	19
Misc. Amateur Info	20
FCC & License Updates	21
MVARC Officers	22
Sample Test Question Answers..	23
Editors Notes	23

MVARC Repeaters

K8EEN VHF Repeater
146.790 MHz
- 600KHz / PL = 71.9 Hz

K8EEN-R Echolink Node:
809800

K8EEN UHF Repeater
444.600 MHz
+5 MHz / PL = 71.9 Hz





Club Meeting

The regular MVARC meeting is the 2nd Monday of each month at 7:00 pm. Attend to complete the puzzle!

The next club meeting is December 12, 2022.

Meeting Location:

Academy Building
790 Fairgrounds Road

Visit our Webpage:

<https://MVARC.net>

MVARC Membership

It is time to renew your MVARC membership.

MVARC Membership Form

Club dues run from January 1 to December 31 and are collected the last quarter of the year. You can mail your dues to the address shown below, bring them to a meeting, or give them to any club officer. Visit our web page at www.mvarc.net for further club information.

Regular membership dues are \$20.00. Dues are \$15.00 for those over 65 years of age, additional members in the same family, or who do not hold an active FCC amateur radio license.

Mount Vernon Amateur Radio Club
812 Coshocton Avenue
PMB #145
Mount Vernon, Ohio 43050

Name: _____ Call Sign: _____

Street or PO Box: _____

City: _____ State: _____ Zip: _____

Phone: _____ License Class: _____

Email Address: _____

ARRL Member (Y/N): _____ Donation (Optional) _____

Suggestions for possible meeting programs:

President's View

Frank Counts
KC8EVS



It's the end of the year and I can stand upright, walk, and play radio, what more could one ask? Well it is the season, Christmas that is. I wish everyone a "Merry Christmas" and as the saying goes "a Happy New Year!" Thanksgiving and Christmas this year have a new and special meaning for me this year. Without God and my family (wife Mary Ann in particular) June 16th could have been the end. I am forever grateful to them.

Now, looking forward to next year.

Somewhere in this newsletter should be the new officers for next year (well old new officers) be sure to thank them for stepping up. Oh, but wait, you would like to help some, how you say? Well, I can help there. Below is a list of events for next year (our usual ones, if you want to start a new one let me know).

Event	Date	Contact
Winter Field Day	1/28/2023	
Knox County Parks		Frank, KC8EVS
NVIS	4/22/2023	
Black Fork Gravel Grinder	5/6/2023	Steve, N8LRW
Field Day	6/25/2023	
Ohio State Parks On The Air	9/09/2023	Terry, KI8N
MVARC Christmas Party		Steve, N8LRW

There are some blank dates I will fill in as they become available. Here is where you can help. We need people to become the contact to keep us up to date and coordinate planning for the event, someone to call on at the meeting. This does not mean that person is responsible for everything but the person to coordinate and update us at our meetings. Those contact persons will need help and if you are shy, introverted and really like to just help behind the scenes type person. Just slip them a note that you want to help, and they will gladly give you a task or tasks to do.

NOTICES

MVARC Christmas Dinner

The MVARC Christmas Dinner is Sunday December 4 at Bob Evans in Mount Vernon.

Please arrive starting at 6:00 pm to be seated and we will be ordering from the full menu starting at 6:30 pm.

MVARC has a new a new mailing address

Mount Vernon Amateur Radio Club
812 Coshocton Avenue
PMB #145
Mount Vernon, OH 43050

NOTE: When sending mail to this address the PMB and # must be used.
Our mail will now be delivered to PakMail instead of the US Post Office.

Club Membership

It is time to renew your MVARC yearly dues. Regular club dues are \$20.00, over 65 is \$15.00 and also \$15.00 for second family members or those do not hold an active FCC license. The renewal form is on page 3 of this newsletter.

2023 Upcoming Events

The following are possible 2023 club participation events.

- ARES Readiness Site Check for the Repeaters and Red Cross shelter locations.
- ARES tabletop disaster simulation
- FLDIGI exercises and message sending
- Annual ARES SET
- Ohio State Parks On The Air at Mohican State Park
- Black Fork Gravel Grinder 2023 - May 6th, 2023
- 24-hour foot race at Mohican State Park.
- Skywarn™ Training by the National Weather Service
- Field Day
- Various ham radio contests from club station.
- Christmas Party 2023

Do you have any events/activities YOUR club could participate in?

Meeting Minutes

Scott Yonally

N8SY



Those present:

Frank Counts, KC8EVS
Steve Harvey, N8RLW
Don Bunner, KB8QPO
Ralph Bower, KC8REB
Emery Bennet, W8TW
Wayne Bower, WB8WB

Tom Evans, KD8HSA

Barry Butz, N8PPF

Larry Howell, AC8YE

Jim Bostic, KD8IZT

Michael Jacobs, KE8HGE

Don Russell, W8PEN

Scott Yonally, N8SY

Roger Gorrell, KE8ICI

The meeting was called to order by Frank, KC8EVS and he asked if there were any additions or corrections to the October Meeting Minutes as published in the newsletter. Hearing none, the meeting minutes were approved as sent. In the absence of the Treasurer, Frank gave the Treasurer's report. There were no objections or changes and will stand as read.

Committee Reports

ARES

Nothing new to report

ARRL

Scott, N8SY gave a short overview of what the EC-FSC has been working on with the restructuring of Field Services and NTS within the ARRL. He also reported that the club had scored very well in Field Day. MVARC scored

25th in the nation, 5th in the Great Lakes Division and 3rd in Ohio. A good job by everyone in the club for the great showing. Some discussion followed.

Repeaters

Steve, N8RLW reported on the work that is on-going with the rebuild of the 146.79 repeater and associated equipment at the repeater site. He also gave a short overview of the new System Fusion repeater and the progress being made to get it on the air soon.

Michael, KE8HGE reported on progress to the repeater access at the hospital. They are working on the logistics of access over the weekends. He also reported that one of the 2 people that the hospital had lined up to become a ham has now left the hospital. The remaining person will need to be tested soon.

MESH Network

Don, W8PEN gave a short overview of the MESH system. He stated that we are in need of more stations to hook to the network. Some discussion followed on the possible connection at the repeater site.

Club Station Lease

Frank, KC8EVS reported that he has attempted several times to contact Brian Ball concerning the city lease and its acceptance. He stated that Brian had told him earlier that it had gone to the lawyers, and it would be several months before we should hear anything back. He also stated that we are to continue on until we hear back.

“We need people to become the contact to keep us up to date and coordinate planning for the event...” Frank, KC8EVS

MEETING MINUTES

New P.O. Box

It was announced that we now have a new P.O. Box for all of our correspondence. The address is listed in the newsletter as well as on the website. Switching from the Post Office to where we are now is saving us money.

Technician License Class

It was announced that the Technician License Class would be held at Whitakers Market near Belleville starting on Thursday, November 17th at 6pm. Michael, KE8HGE will be teaching the class and there are around 9 to 10 folks set to start the class. They will skip November 24th as that is Thanksgiving and continue every Thursday afterward until the end. Testing will be done at the end.

Health & Welfare

It was announced that Tony, KC8UR needs help getting an antenna installed for him to be able to operate on HF bands. The need is to have someone go out and assess the area and talk with the home to find out what they will allow and how much room there is available for an antenna. It was reported that we are not allowed to attach anything to the building, but a vertical in the yard would be allowed. The maintenance crew at the home will help with the installation. Roger, KE8ICI volunteered to go out. Don, W8PEN also volunteered.

Old Business

Frank, KC8EVS requested that the Directors get together to review the Constitution and By-Laws. It's been a while and should be done on a regular basis. He also announced that there is a desk that needs to be assembled in

the radio room. He stated that there has been a lot of work done back there and if you haven't seen it, now is a great time to go back and look.

Steve, N8RLW announce that we will be having a Christmas Party on Sunday, December 4th at Bob Evans on Coshocton Road. We will be gathering at 6pm and ordering from the menu at 6:30pm. He stated that seating in the big room was limited to around 30, but if more people came, they would have to be seated outside of the big room in the restaurant. It was also decided not to try to hold a business meeting there and just have it at the Academy at the regular date and time. Some discussion followed.

Don, W8PEN reported on the new station and antenna installation and stated that he would be operating the November Sweepstakes from the new club station and asked everyone interested to sign-up to help operate. Some discussion followed with a few volunteering to help operate.

New Business

Steve, N8RLW read the list of nominations that he had received. They are as follows:

President – Frank Counts, KC8EVS
Vice President – Barry Butz, N8PPF
Secretary – Scott Yonally, N8SY
Treasurer – Terry Windsor, KI8N
Director (elected for 2 years) – Bill Stroud, KD8WHQ

As that there are no opposed positions and no other nominations were received, the Secretary will be directed to cast a unanimous ballot for the candidates as listed.

The raffle was held for a Baofeng UV-3 VHF/UHF hand-held radio. Don, W8PEN won the radio.

A motion to adjourn the meeting was made at 7:41 pm EST with no dissenting votes cast.

MVARC Repeater Updates

Steven Harvey

N8RLW



146.790 PL 71.9

444.600 PL 71.9 with Wires-X

Current Status of the MVARC Repeaters

As of this month's newsletter both machines are on the air and performing well without any issues. The 444.600 reliably keeps working away and sees some traffic via Wires-X. This Yaesu DR-1x repeater has been a stable machine that stays on the air

without needing the repairman to come to the site.

There have only been a few times we have had to visit the site to fix an issue with 444.600 MHz repeater. The last one had to do with the network cable being unplugged to the PC but that has been fixed so whoever was the network person at the site can clearly see to leave it plugged in. I would like to say thank you to Michael, KE8HGE for being my eyes and hands in the evening when I was on a call for work to fix the problem and for taking care of it so late in the evening.

The 146.790 MHz repeater is running without any issues and has been running well now for the last few months after changing out from the Yaesu DR-1x back to the Maggiore Repeater. We are currently still on the Maggiore repeater along with the CAT-1000 controller. We are running on the back up as Roger and I work on getting the Yaesu DR-1x with the new Arcom Controller working with the Yaesu repeater.

Before I go on with the update on the new system and the upgrades, we have been putting into place in the 146.790 I want to say a big thank you to Don Russell, W8PEN for the many years and hours he has put into the repeater being the technician for the club. When things work well you get to stay at home, enjoy playing with your radios and making contacts on HF. It's those days the repeater has fits, users complaining, noise issues or doesn't want to stay on the air that it becomes a job that many folks take for granted when the repeater is working well, and it is up to someone to bear the burden to fix the issues. I just want to say thank you to Don for the hours he has put into keeping the MVARC repeaters on the air over the years. As Roger, KE8ICI and I, Steven, N8RLW, take over the task of keeping the system running I wanted give Don a big round of applause for a job well done. Now on with the latest updates for the 146.790 machine.

146.790 Repeater and Project Next Generation MVARC Repeater

Over the last few months Roger and I, have been working hard on the planning, testing and gathering of items to upgrade the 146.790 repeater. It's been many years since a refresh of hardware and many of the items are no longer manufactured.

The first step in this process was taking all the equipment out of the cabinet at the site to do some cleaning, rewiring, and adding a new base platform to the cabinet to level it out. This allowed us to get the cabinet higher and have a closed in platform for the duplexers to sit on to keep moisture and unwanted guests from coming into the cabinet. The accompanying photos show the before and after removing all devices and doing some shop-vac clean up and racking all equipment back in.

Phase one of the project kicked off on November 10, 2022, at 5:30pm at the repeater site. Frank, KC8EVS, Steven, N8RLW, Terry, KI8N, and Roger, KE8ICI were all in attendance to help with the task. After un-racking all items and laying them out on the table at the site we were able to start the process of removing the old wood skids to install a new pressure treated platform. The job itself took about three hours to complete and were able to clean up the following inside cabinet.

- Changed out power supplies from the old Astron RS-70 desktop to a new Astron RM-60M.
- Moved the rack rails forward in the cabinet so that any new items now be racked in the cabinet without the need of a shelf to hold them in place.
- Installed a new shelf system so the current Mirage Amplifier has a place to sit and have a repeater parts shelf to have any needed parts onsite.
- Cleaned up all old wiring and charging system for battery backup. This will allow us to use pass-through feeds from the inside of the cabinet to the battery bank for phase 2 installation. Also set up for the use of a new commercial grade power distribution panel and battery backup.
- Clean up and relocated AC wiring inside the cabinet so we have better access to the plugs, and installation of new rack mount AC PDU (Power Distribution Unit).
- Rack everything in and what a difference the clean up made as there is now more room inside the cabinet.

There are still some more items to go, and we are waiting for them to arrive. A few little bumps in the road with the new controller are being worked out along with interfacing the Yaesu repeater. I had the controller and repeater on the air at my home for a while as I worked on the levels and programming issues. I do expect that by the January newsletter you'll hear the new controller on the air, and we'll have to go over the new features not only in the newsletter, but in person for a training session at a club meeting. With all the good things it takes time to do it right and with any new devices there is always a learning curve.

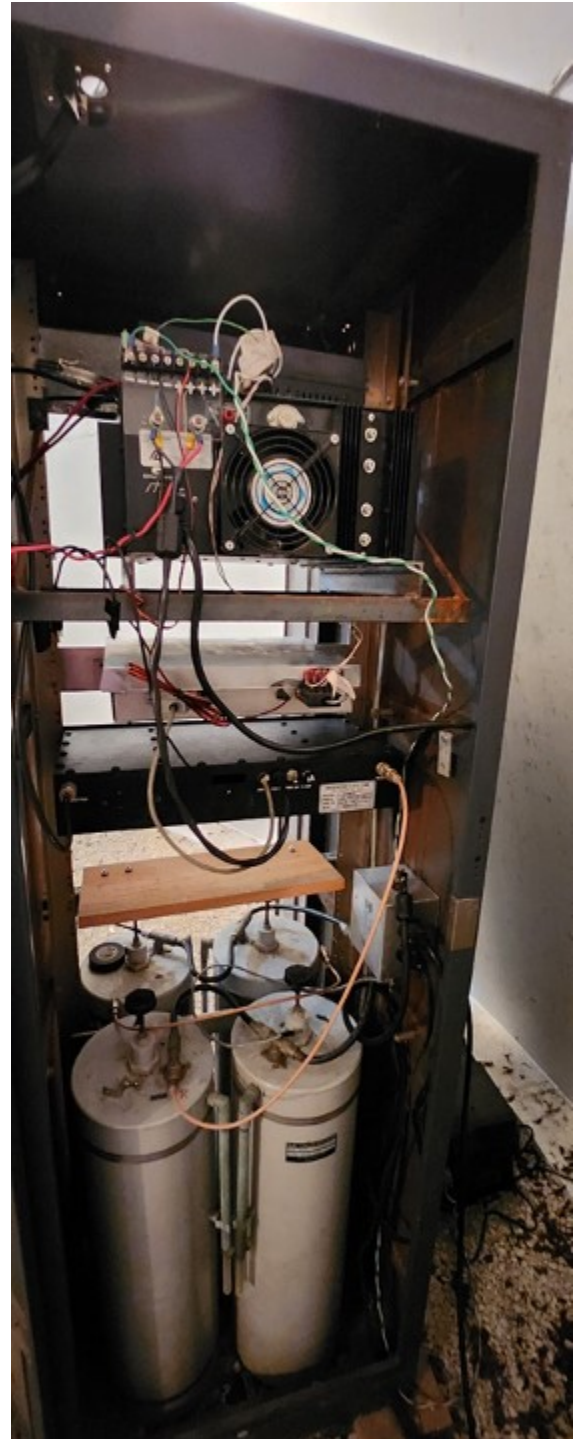
Phase 1 is now complete and once Phase 2 is done we'll have a very nice repeater system that will last for many years to come and supply us with many bells and whistles that are currently supported by the current manufacturers and give us flexibility to add on without having to re-wire the whole system.

73 from your MVARC repeater techs.

Steven, N8RLW

Roger, KE8ICI

146.790 MHz Repeater Enclosure BEFORE Clean Up



146.790 MHz Repeater Enclosure AFTER Clean Up



Radio Activity

Don Russell

W8PEN



Late October and early November 2022 has been fun.

The group finally finished the painting of our club room, installed an HF antenna and a dual band VHF/UHF antenna, put

one of the tables donated by Steve Harvey, N8RLW together, and put the HF station together on said table. Things look pretty darn good.

While the antenna is up in the attic rather than outside, this gives us two advantages with little downside.

One: Since the building is tall, the antenna is up in the air. We calculate at least 40 feet and may be higher.

Two: The antenna is out of the weather and perhaps less susceptible to outside influences like lightning strikes.

Perhaps a disadvantage would be the antenna possibly could pick up interference from all the electrical wiring and lights in the building, but that does not appear to be the case. The bands are a lot quieter at the new building than they were at the Red Cross Training Center.

We have a very capable HF station consisting of an Icom IC-7300 and the Off Center Fed antenna in the attic. I hope to add the clubs Kenwood TS-570 soon. Even though we only have one antenna, we can always have a second station ready to go. Some like Icom, others like Kenwood. Two stations would be just a coax change away from being operational.

We still have the Cushcraft R-5 Vertical that I would like to set up. It is a vertical for 20 – 10

meters and could easily be put on the flat roof just out the club room window. A non-penetrating mast could be used to support the antenna for a “no holes” installation. Non penetrating masts run \$100 - \$150 on Amazon. They are simple though and anyone that can weld can probably build one for under \$50.

Our First Contest

One of the advantages of having a club station is that members can get together for a few on the air activities. I am mostly talking about contests. There is more to contesting than Field Day.

The weekend of November 19th a group of us did just that. Barry N8PPF, Roger KE8ICI, Steve N8RLW, and I (Don W8PEN) participated in the ARRL November Sweepstakes SSB from the club station.

Operating this event gave us more of an indication of how well the antenna in the attic works. I would say it passed with flying colors.

The group made 227 contacts in 72 ARRL sections. We worked Hawaii, Virgin Islands, and all states except Alaska. Where was Alaska? A scoring summary is in this article.

Not that everything went well. What we thought was computer equipment problems and just computers too old to do the task well, ended up being RF getting into the computer equipment. Until we figured this out, the group was plagued with erratic mouse, keyboard operations, and rig interface controls.

Once we removed the USB keyboard and mouse and just went with the older computer plus a larger monitor, things worked better, and we did not have any issues the rest of the contest. The problem was how long it took us to figure it out.



This is typical of an off center fed dipole, and we will need to fix these issues before we do another contest from the club station. Proper grounding will help. Some ferrite beads will help too. I also have a coax choke from an old antenna project that may be useful.

Anyway, here is a summary that was submitted to the ARRL after the contest:

Call Sign: K8EEN

Operator(s): W8PEN N8PPF N8RLW KE8ICI

Category: Multi-operator, Single Transmitter, Low Power

Band: ALL

Station Grid: EN80SJ

Club: Radiohio

Raw Score: 32,688

The next contest that we can do would be the ARRL 10 Meter Contest Dec 10 - 11, 2022.

Sometimes this contest is very good, sometimes not. I think this year, with the Sunspot Cycle where it is, the contest should be very good.

One nice thing about this contest is that the band is usually open during the day and dead at night. Operators will get plenty of sleep.

Any club members wishing to participate in this contest, please let me know. I will let op-

erators sign up for their preferred operating time much like we did for the November Sweepstakes. That worked nicely.

Repeaters and Mesh

On the 2-meter repeater front, Roger KE8ICI and Steve N8RLW have been doing a lot of work prepping the Yaesu DR-1X and the new controller for their debut. Due to a supply issue with the tone board needed for CTCSS, things have been a slower than we were expecting. Hopefully they will have it running by the end of the month.

The 70cm repeater is working without any issues. I think Steve has a new duplexer he would like to install. Doing so might help on the receive side. I think there is a lot of loss in the duplexer setup currently being used.

Next step hopefully would be for the club to buy a 70cm receive preamp. The Yaesu DR-1X's have notably poor sensitivity on receive. A receive preamp could go a long way in improving coverage of the 70 cm repeater.

On the Local Mesh side, I have reinstalled the phone PBX system and it is working well. I still need to add the Mesh Phones that are already connected to the mesh. Hope to get that done soon.

Also, there is a constant barrage on firmware updates to the mesh equipment and I am seriously behind. Partly because one of the firmware upgrades didn't seem to work as well as the version before it. It's been a few upgrades since, so hopefully the current upgrade fixed any bugs from the past upgrades.

See Ya

That's it for this month. Hope to see everyone at the November meeting. 73.

ARES

Terry Windsor

KI8N



No active ARES events this month.

This would be a great time for all club members interested in ARES to review the [Ohio Section ARES](#) web pages and complete or update any NIMS ICS training courses.

The hope is everyone is interested in at least becoming Level 1 trained. This is the entry level and requires the following ICS courses:

IS-100

IS-200

IS-700

IS-800

Prior to starting any ICS course you must have a FEMA Student ID. To obtain your ID start here; <https://training.fema.gov/student/sssp.aspx>

You can check your Ohio Section ARES training by going to this [link](#).

Scroll down to Knox county (Page 20) and see what the records indicate you have completed.

If your name is not there please complete the on-line [ARES Membership Application](#).

If you have completed any ICS courses and they do not show within the Status Report please send copies of your completion certificates using the form on the Ohio Section ARES [File Upload Center](#).

Last thing is to read and familiarize yourself with the [ICS-213](#) form as it would be used if

there was ever an actual emergency call up and during exercises.

Lastly thanks everyone for your support and patience. I hope to schedule more activities in 2023. Stay Safe !



Proposed New Logo

At the December meeting be prepared to discuss updating the MVARC logo. The proposed updated logo is shown below

FYI—The blue background will be removed. It is there to show the lettering for the updated logo.



December 2022



	Tue	Wed	Thu	Fri	Sat	
<p>1</p> <p>10:00 am Breakfast - McDonalds, Newark Rd.</p>					3	
<p>4</p> <p>9:00 pm ARES Sunday Night Net —Don Russell</p>	5	<p>6</p> <p>OHDEN Net 7:45 pm</p>	<p>7</p> <p>4:45 pm Dinner - Southside Diner Pearl Harbor Day</p>	<p>8</p>	<p>9</p> <p>10:00 am Breakfast - McDonalds, Newark Rd.</p>	10
<p>11</p> <p>9:00 pm ARES Sunday Night Net—G. M. Jacobs (KE8HGE)</p>	<p>12</p> <p>7 pm MVARC Monthly Meeting</p>	<p>13</p> <p>OHDEN Net 7:45 pm</p>	<p>14</p> <p>4:45 pm Dinner - Southside Diner</p>	15	<p>16</p> <p>10:00 am Breakfast - McDonalds, Newark Rd.</p>	17
<p>18</p> <p>9:00 pm ARES Sunday Night Net— Rog- er Gorrell (KE8ICI)</p>	19	<p>20</p> <p>OHDEN Net 7:45 pm</p>	<p>21</p> <p>4:45 pm Dinner - Southside Diner Winter Begins</p>	22	<p>23</p> <p>10:00 am Breakfast - McDonalds, Newark Rd.</p>	24
<p>25</p> <p>MERRY CHRISTMAS</p> <p>9:00 pm ARES Sunday Night Net—Terry Windsor (K18N)</p>	26	<p>27</p> <p>OHDEN Net 7:45 pm</p>	<p>28</p> <p>4:45 pm Dinner - Southside Diner</p>	29	<p>30</p> <p>10:00 am Breakfast - McDonalds, Newark Rd</p>	31

Miscellaneous Rambling

Terry Windsor

K18N



Not a lot of events at my QTH. Been sick with the flu for the last 10 days so haven't spent much time on the radio.

I did get out at the beginning of the month and activated three parks, all of which I had been to previously. Had a total of 187 contacts in about four hours operating time. Had planned on doing more activations but not sure where the time went and with it getting cooler I lost my ambition.

This year I assisted two families with cleaning up their father's ham radio equipment and realized how much stuff people accumulate. Then it is left to family members and friends to sort, give away, sale, or toss. This is really an eye opening activity. So based on what I have seen I have started going through all of my files, boxes, and building storage areas and started getting rid of stuff (another word for hoarded junk).

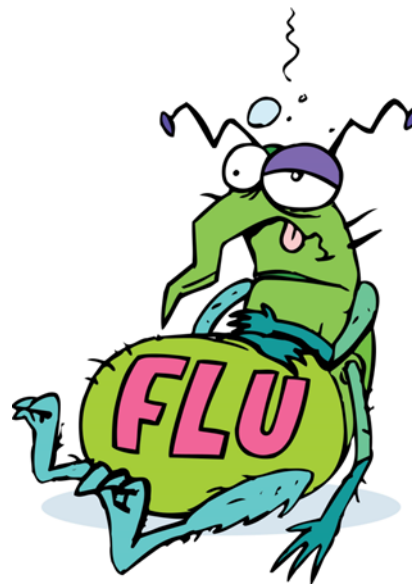
Determined that it is not my family's responsibility to clean up my mess especially since this is not a task most family members know what to do with "stuff". Thought I would be further along in the process but this flu has really sucked the life/ambition out of me.

This was so much easier when I used to move every five years for my career. If you are changing cities then it is easy to discard unneeded stuff.

One really surprising area is how much paper, old receipts, paid bills, auto insurance and financial statements have piled up. I kept a file cabinet stuffed with these things and realized they are just not necessary. Bought a new paper shredder and have been having a shredding party in the basement. Have cleaned out a couple of file drawers but have more to do when the after effects of the flu decide to depart.

Still didn't fix my 160 meter OCF dipole. Perhaps one weekend this month the ambition and weather will cooperate.

Until next month, "Ham It Up!"



**"Field Day—MVARC scored 25th in the nation, 5th in the Great Lakes Division and 3rd in Ohio."
Scott, N8SY**

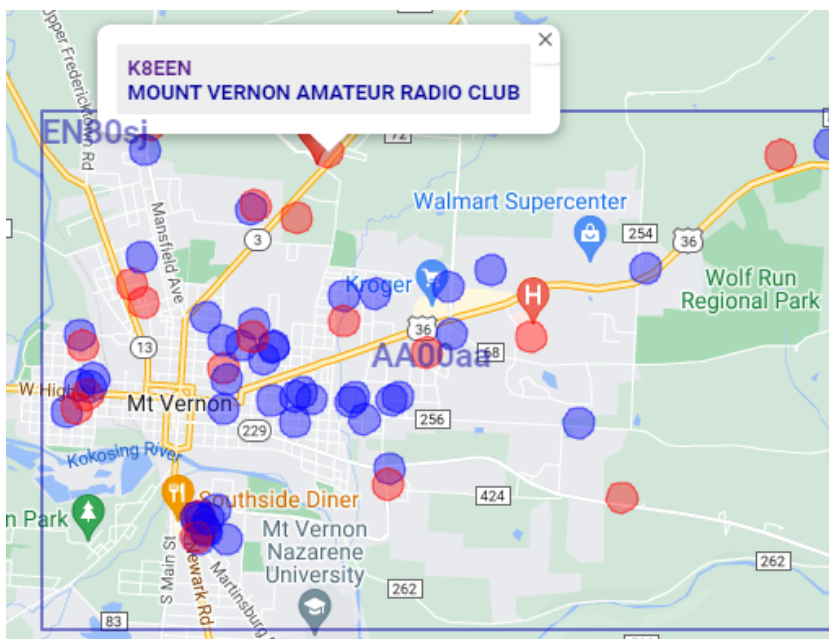
Final Takeaway

Grid Mapper

What is a “Grid Square”? Essentially grid squares are a shorthand means of describing your general location anywhere on the Earth in a manner that is easy to communicate over the air. Why do amateur radio operators use grid squares? Because it is easier to locate on a grid locator than trying to find a small town within a state using a map that might not have that fine of detail.

Take for example, if I told you I was in a conservation area close to New Franklin, MO would you have a clue as to where I was within MO? Probably not, but if I stated I was in grid square EM38 that would be something we would recognize and be able to find on a grid locator. Then to narrow the location down even more I could state I am at EM38qx and using a grid locator narrow that down to a real close location (a few miles).

Using the [Grid Mapper](#) on QRZ.com we locate the club station at EN80sj. Another feature of the QRZ grip mapper is it shows Latitude and Longitude. This mapper also shows where other people with amateur licenses live within this grid square.



A reason for knowing your grid square is when operating portable, at a park, or from a rare location. Why is this? Some hams hunt grid squares and are on the look out for rarely activated locations. Even more evident when using FT8 so people know where to look for your signal. If I leave my grid square as my home location (EN80ql) and I am physically operating qrp in southern TN (EM65hg) then people with directional antennas will have a better idea where to

aim to get the best signal.

Another reason to know your grid square is when making satellite contacts via one of the FM satellites. The exchange is typically your call sign and grid square.

Grid locators/squares are well described in the ARRL Operating Manual.

General Exam Sample Test Questions:

G4C01 Which of the following might be useful in reducing RF interference to audio frequency devices?

- A. Forward-biased diode
- B. Bypass capacitor
- C. Reversed-bias diode
- D. Bypass inductor

G4C02 Which of the following could be a cause of interference covering a wide range of frequencies?

- A. Not using a balun or line isolator to feed balanced antennas
- B. Using a balun to feed an unbalanced antenna
- C. Arcing at a poor electrical connection
- D. Lack of rectification of the transmitter's signal in power conductors

Extra Class Exam Sample Test Questions:

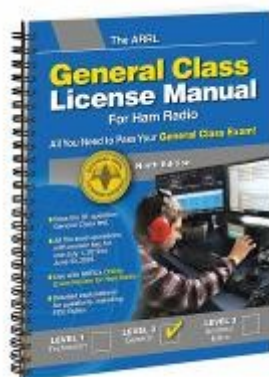
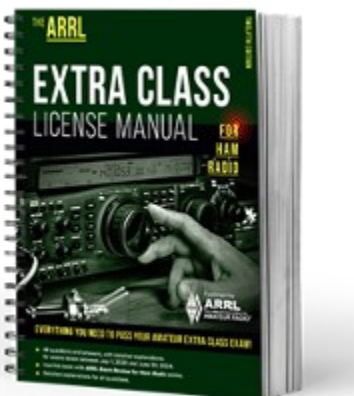
E2C02 Which of the following best describes the term "self-spotting" in connection with HF contest operating?

- A. The acceptable practice of manually posting the call signs of stations on a spotting network
- B. A manual technique for rapidly zero beating or tuning to a station's frequency before calling that station
- C. An automatic method for rapidly zero beating or tuning to a station's frequency before calling that station
- D. The often-prohibited practice of posting one's own call sign and frequency on a spotting network

E8C10 How may data rate be increased without increasing bandwidth?

- A. Using forward error correction
- B. Using a more efficient digital code
- C. It is impossible
- D. Increasing analog-to-digital conversion resolution

These test questions are from the current test pools for their respective license classes. How did you do? The answers are on the last page. Practice tests for all license classes can be found here: <https://www.grz.com/hamtest/>. The ARRL license manuals shown are available from the [ARRL](http://www.arrl.org), retailers, or Amazon for license studying.



Miscellaneous Amateur Radio Information

Join us every Sunday night on the Mt. Vernon 146.79 repeater for our weekly **MVARC ARES Sunday Night Net. Check-in starts at 9 pm.**

Unable to access the repeater from where you are located? We are on IRLP (EchoLink) - Just look us up.
K8EEN-R Node 809800.



Ohio Traffic Nets

[The Ohio Single Side-Band Net \(OSSBN\)](#)

Ohio Single Side-Band Net; Ohio connection for what is going on in the Ohio Traffic System. The Net meets on 3.972.5 MHz at 10:30 am, 4:15 pm, and 6:45 pm daily. Alternate Frequency for all sessions is 3.968 MHz.



[Central Ohio Traffic Net](#)

The Central Ohio Traffic Net is a part of the Ohio Section of the National Traffic System. They meet daily to handle traffic; all licensed amateur radio operators are welcome to check in and to learn to handle traffic. COTN meets daily at 7:15 pm on 146.970, -.600 MHz, PL 123.0. Signal Operating Instructions and frequencies given here: <https://www.cotn.us/sop>.

[The Ohio ARES HF Digital Net—OHDEN](#)

Tuesday at 7:45 pm 1804.5 MHz, USB, Olivia 8-500 with waterfall frequency 1500.
Sunday at 4:00 pm 3584.5 MHz, USB, Olivia 8-500 with waterfall frequency 1500.

Local Amateur Radio Clubs

Delaware Amateur Radio Association: <http://k8es.org/>

Newark Amateur Radio Assoc: <https://www.n8ara.org/>

InterCity Amateur Radio Club (Mansfield): <https://iarc.club/>

“It’s been many years since the last refresh of hardware and many of the items are no longer manufactured.” Steven , N8RLW

FCC and License Updates



First-Time Exam Applicants Must Obtain an FCC Registration Number before Taking an Exam

All amateur examination applicants are required to provide an FCC Registration Number ([FRN](#)) to the Volunteer Examiners (VEs) BEFORE taking an amateur exam. **Social security numbers are no longer accepted at exam sessions.**

Amateur candidates who already have an FCC license, whether for amateur radio already have an FRN and can use the same number. 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

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.

FCC Application Fee and VEC Filed Applications

EXAMINEES MUST PAY WITHIN 10 DAYS.

Examinees do **NOT** have to wait for the email from the FCC to pay the fee. As soon as an the application file number is issued by

the FCC, they can pay by logging into the CORES [Payer FRN System](#).

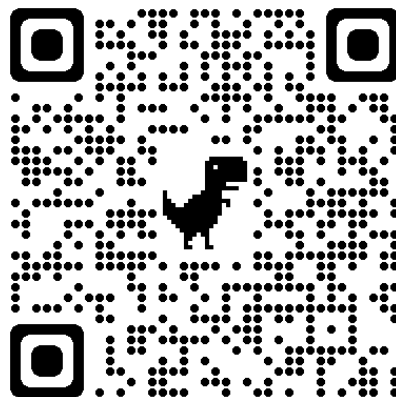
Application File Number search using an FRN: [FCC Application File Number Search](#)

FCC Legacy CORES System—Retired

The Federal Communications Commission (FCC) retired the [Legacy version](#) of its Commission REgistration System (CORES) on July 15, 2022.

CORES is designed to identify those who hold certain types of FCC licenses and FCC authorizations, including amateur licenses, and organize them in an easily accessible manner under a common FCC Registration Number (FRN) regardless of whether one holds a single such authority or more.

Starting on July 15, 2022, the Legacy CORES website will re-direct users to the [Commission's updated CORES](#) site. Although some functionalities in the old system will continue to work for a short time, the [FCC has urged all users](#) to transition to the updated CORES system to take advantage of its enhanced security and functionality.



MVARC

President

Frank Counts, KC8EVS

Vice President

Barry Butz, N8PPF

Secretary

Bill Stroud, KD8WHQ

Treasurer

Terry Windsor, KI8N

Club Call Trustee

Don Russell, W8PEN

Equipment Trustee

Barry Butz, N8PPF

Directors

Michael Jacobs, KE8HGE

Arlin Bradford, KD8EVR

Roger Gorrell, KE8ICI

Steve Harvey, N8RLW

Scott Yonally, N8SY

Newsletter Editors

Frank Counts, KC8EVS

Terry Windsor, KI8N

Contact Us

MVARC

812 Coshocton Ave.

PMB #145

Mount Vernon, OH

43050

Email

admin@mvarc.net

Note

The Friday morning breakfast is meeting at McDonalds. 111 Newark Road, Mount Vernon (next to Southside Diner).

This is to accommodate parking since the Academy Building visitor parking is not closely available during weekday work times the group has temporarily decided to relocate to a meeting location that is easier for club members, guests, and visitors to access.

If you have any questions or comments please express them at the club meeting November 14th..

Answers to sample test questions on page 20.

G4C01: B– Bypass capacitor

G4C02: C – Arcing at a poor electrical connection

E2C02: D – The often-prohibited practice of posting one’s own call sign and frequency on a spotting network

E8C10: B – Using a more efficient digital code

Editors Notes



The MVARC Newsletter is delivered to club members only by email link to the MVARC webpage.

Thanks to all for your assistance with the MVARC Newsletter; in 2022 we were selected as the second best newsletter in the Ohio Section.

Please note the contact email for the MVARC newsletter is: admin@mvarc.net.

The **MVARC CQ** is the official newsletter of the Mount Vernon Amateur Radio Club.

