January 2022

2022 Edition 1

Mount Vernon Amateur Radio Club

Club Meetings

MVARC meeting is held on the 2nd Monday of each month at 7:00 pm.

The next club meeting is January 10, 2022.

Meeting Location:

Academy Building

790 Fairgrounds Road

Visit us on Facebook:

Mount Vernon Amateur Radio Club

Visit our Webpage:

https://MVARC.net

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

MVARC President: And Now for a Word

G. Michael Jacobs KE8HGE

It's been a year. And, yes, it has been "a year."

Thanks to Terry (KI8N), Emery (W8TW), and Arlin (KD8EVR) we now have two places where we can meet, besides the large shelter at Ariel Foundation Park. The club has a new project in the Escape Zone and working with the youth at that facility.

We also have a new club event in our Knox County Parks Activation. And it has been the members of the club that have made this happen.

I think the club can reflect on 2021 and call it a good year; a great one, even, given how things were looking a year ago.

2022 should be a good year, too, with our new meeting place, new club events, and ARES spinning back up, as well. I hope that it is and it will be everything that the club makes of it.

And with that, I yield the frequency.

73,

G. Michael Jacobs, KE8HGE

"I think the club can reflect on 2021 and call it a good year; a great one, even, given how things were looking a year ago." Michael (KE8HGE)

Penny Evans

MVARC would like to extend our deepest sympathy and condolences to club member Tom Evans, KD8HSA on the passing of his wife. Penny Evans left this temporary Earth home for her eternal Heavenly home on December 14, 2021.

The Memorial Service was held December 18, 2021 at the Morrow Bible Church, Centerburg, OH.

Penny Evans Obituary

MVARC Meeting Location

Academy Administration Building at **790 Fairgrounds Road** at the corner of Wooster Road.

The entrance is at the rear of the building and the meeting room is on the top floor which is up stairs from the rear entrance.

There is limited parking in the rear lot and more in the front lot, however, you have to walk around the building to get to the rear entrance.

2022 Amateur Goals

Have you worked on your 2022 goals for what **you** would like to accomplish this year?

- Increased MVARC club participation
- More radio contacts
- Contesting
- New HF or VHF/UHF modes
- ARES participation
- Chasing DX
- New operating bands

This is the time to begin working on what your amateur radio activities will look like starting this year.

2022 President's View

Frank Counts
KC8EVS

Back in the saddle again, hoping that I have not made a mistake that you will have to endure for the next 12 months. To start things off I want to thank Michael, KE8HGE for all that he has done over the last year. Not only has he been president but filled in a bunch of Sunday night nets, took minutes of his own meetings, and participated in most, if not all our events that took place this year. Thanks again.

I hope everyone has had a wonderful Christmas and New Year; I have.

I mentioned Sunday night nets and that has me thinking about ARES. This is how a lot of folks in the county see us, as a group that will help during a disaster. Here in Knox County that is probably going to be storm related but there are other scenarios out there. Are we prepared to help in any of these cases? Currently, I don't think so. We need to look hard at ourselves and ask what can we do (what can I do), what do we need to make sure we are a service to the county?

I have started discussing this with Bill, KD8WHQ our EC (Emergency Coordinator). He has some ideas but will need your participation and input. These will be discussed in upcoming meetings. One of the first things we can do is get involved in our nets, even be net control. I'm guilty here also so I will be checking in more and participate as net control soon. Check out the web page (www.mvarc.net under the ARES button) you

will find the preamble for the Sunday night net and the weather net. Plus, we are adding more information there as I work on this so check often to be up to date. I look forward to working on this over the next year.

A lot has changed over the last few months. Loss of the Red Cross meeting place and Covid. Thankfully we have a new place with a lot of potential but will involve some work. At the January meeting be sure to look at the space. We must set up a club station and have to make some decisions as to how to move forward.

Through this period, we had another opportunity for a club site at the Escape Zone, but the Academy Building seemed to be a better fit. But we made a promise to the Escape Zone that I would like to keep and that is demonstrating amateur radio to the kids there and supply pizza. I want to discuss this at the January meeting as January through March would be a good time to have one of these demonstrations. I'm looking for volunteers to help organize this.

Thinking a little further out (volunteers and organization) we should start looking at our schedule for the year. We have some events that we participate in, and these are fun but they also serve an important practice for how we provide communications during a disaster. I have noted the dates that I have for these and have listed them below:

- Winter Field Day January 29-30
- NVIS
- Black Fork Gravel Grinder April 30
- Knox Parks
- Field Day June 25-26
- Ohio State Parks on the Air (OSPOTA) September 10

Knox Parks date I will set up as soon as I have a date for NVIS, probably early May after the Gravel Grinder but before Hamvention (if it occurs). We did this the first-time last year and had a lot of fun, more later.

Thinking about it more we could do this in July or August. Something to think about. Oh, I will take the lead on this. So, who would like to step up and help with the other events… something to be discussed?

I've taken enough space in the newsletter for this month. This will probably be the longest for the year so don't worry. Look forward to seeing everyone on the 10th.

What is ARES?

Bill Stroud
KD8WHQ

The Amateur Radio Emergency Service® (ARES®) consists of Amateur Radio licensees who have voluntarily registered their qualifications and equipment for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization, is eligible to apply for membership in ARES.

Training is required to participate fully in ARES. Because ARES is an Amateur Radio program, only licensed radio amateurs are eligible for membership.

Amateur radio is recognized as a valuable backup or an alternate communications platform. ARES members augment communications and support emergency operations. To be effective ARES membership must maintain a state of personal readiness.

Importance of Training

When ARES members participate in a response to an emergency or disaster, they will be doing things they do not normally do. Often, they will need to make on-the-fly decisions, and those decisions are best made when they have adequate information available and are at least a little accustomed to being placed into that situation. It is often said that you perform how you train.

An operator asked to be net control in an incident will probably be nervous, forget things, and be quite inefficient if he or she has little or no experience. Training and skill improvement are key features of the Amateur Radio Service. Amateurs frequently enjoy training, especially when it is relevant. A well thought out program of training and exercises helps keep members interested and engaged.

FEMA Training Catalog

Recommended Training Courses

IS-100.c - Introduction to the Incident Command System

IS-200.c - Basic Incident Command System for Initial Response

IS-700.b - An Introduction to the National Incident Management System

IS-800.d - National Response Framework, An Introduction

ARES Application

Ohio Section ARES Membership Application

When completing the application you will also enter your station's capabilities.

Upload completed ICS training certificates to ARRL Ohio Section.

Please read the ARRL ARES Plan.

Ohio Section ARES Training Status Report.

December Meeting Minutes

G. Michael Jacobs
KE8HGE

The MVARC meeting was called to order by G. Michael Jacobs (KE8HGE) at 7:00pm.

Reports / Minutes

The minutes of the previous meeting as presented in the MVARC Newsletter were approved, as moved by Scott Yonally (N8SY) and seconded by Scott Fields (W8HK).

Treasurer

The Treasurer was not present at the meeting, but he sent the reports for previous month to Michael (KE8HGE), who presented the report.

The IC-7300 funds were discussed again. It was confirmed that the club treasury does hold the money donated for the purchase of the transceiver. It was also confirmed the check to pay for the IC-7300 has not been cashed as the transceiver has not been shipped.

Without objection, the Treasurer's report was approved as submitted.

Repeater and Mesh Report (Don Russell W8PEN)

Issues with the repeater have cropped up again. The repeater was switched from our main antenna to the back-up antenna that was installed last year, and it seems to be working fine again. Some alternatives for replacing the main antenna were discussed (one of which was a new antenna that would run about $900 or so), but the option we are going with is to borrow an antenna from Barry Butz (N8PPF) and see how well it works and barring issues will get it up on the water tower sometime in the spring.

The R-Comm interface board has been installed so it should handle analog and Fusion/C4FM (digital mode).

There is a very slight hum in the transmit audio, but that is something that can be resolved with a slight adjustment.

MESH continues to be reliable, but we need to find a use for it.

Emery Bennett (W8TW) asked about the main repeater antenna, confirming that it is the same one that we paid to have a new phasing harness put on it.

We still want to have two antennas on the water tower, so we always have one available for us to use.

Update on Wires-X: computer is loaded with the software and a firewall, port information is available, additional wiring has been put into place but not connected to the hospital's internet. Michael (KE8HGE) has been in contact [again] with KCH staff about getting this connection made and will be asking KCH Safety Director Russell Maroni (KE8GGA) for help. The recent events in Kentucky, Tennessee, and Southern Indiana were cited as a good reason to push for this to be done.

ARES (Bill Stroud KD8WHQ)

Bill (KD8WHQ) and Frank Counts (KC8EVS) want to restart ARES activities. We are looking at the following:

- **ARES Conference** (first weekend in April): up in the air. They don't know if their preferred facility (Marion Technical College) will be available to host it in 2022.

- NVIS Day, Field Day, Ohio State Parks on the Air, our own Knox County Parks Activation: operate these events as a club but also use them as an ARES practice exercise.

- **Tabletop Exercise and Field Exercise:** planned for 2022. One Exercise will be for members to travel to the various fire stations and Red Cross shelter areas to confirm our ability to communicate from those locations. This may be done over several weekends.

- **FEMA Courses:** encourage club members to get the 100-, 200-, 700-, and 800- series courses completed. It was recommended by Scott Yonally (N8SY) that those that have taken these courses in the past take them again as they have changed/been updated over the years with new lessons learned from more recent disasters. ICS-300 and ICS-400 have transitioned from being classroom only to online (using Microsoft Team) where webcams/microphones enable the group and team participation that is necessary for the course. Michael (KE8HGE) offered that Knox County is hoping to bring a ICS-300 classroom here in 2022.

- **Weather Net:** we should really bring this practice back up, especially given what happened in Kentucky, Indiana, and Tennessee this past weekend.

- **Knox County EOC Radios:** We have radios there, but it is a pain to get into that location to check them (they located in the Knox County Jail facility). The EMA Office is due to be moving to a new building on East High Street in 2022, and the EOC may move to that building as well. Arlin Bradford (KD8EVR) says that he has looked at the building at the request of Knox County EMA Director Mark Maxwell, and he told Mark Maxwell that moving the radio equipment from the Jail to the new location is do-able.

- **Message Handling:** Bill (KD8WHQ) says that we lack experience in handling messages. We have our weekly ARES Net, but we don't pass any formal traffic. Larry Howell (AC8YE) said that message handling is very easy to do digitally, citing digital modes (WinLink, FLDigi) as being much more efficient at message handling than by voice (5 minutes voice traffic vs 19 seconds digital traffic, same message).

  Discussion about mode of traffic turned towards the fact that the club has no experience in message handling in any mode, voice or digital, and before working with digital mode, we need to get the basics of message handling down first. Larry (AC8YE) says that traffic handling is pretty much the same whether voice or digital, and offered Delaware's Digital Nets (Tuesday and Thursday nights) as a place to stay in practice with digital mode. Scott (N8SY) suggested passing basic traffic during our weekly ARES Net.

- **ARES Newsletter:** citing something that Newark does, we will start having ARES events listed in our own newsletter, starting next month.

Frank (KC8EVS) said that we need to organize ourselves to cover the area. He cited the last ARES exercise he participated in was a couple of years ago (Kokosing Construction) and he was onsite sending reports to the EOC. This is what we need to focus on: our ability to get people to the places they need to be and how to get message to where they need to go. How an EOC or Incident Command handles the messages is not our immediate concern. {There was discussion about ARRL Radiogram vs ICS-213 and differences between what happens in the field vs what happens in the EOC.}

Don Russell (W8PEN) brought up having more ARES Net Control people. He cited that there have been only 2 people running the weekly nets for about a year and this needs to change. After some discussion about how we got where we are, the following Sunday Night ARES schedule was established: First Sunday: Don Russell (W8PEN), Second Sunday: G. Michael Jacobs (KE8HGE), Third Sunday: Roger Gorrell (KE8ICI), Fourth Sunday: Arlin Bradford (KD8EVR), Fifth Sunday (and alternate) Steven Harvey (N8RLW).

Copy of the ARES Script from the MVARC website will be sent out to all interested parties. There was a brief discussion about how to handle traffic on the Net (as there is no established script for this).

Terry Windsor (KI8N) will be asked to put the Net Control Operator schedule on the Newsletter calendar.

Old Business

None to consider

New Business

MVARC Club Officer Election
Review of nominees:

◊ President: Arlin Bradford (KD8EVR), Frank Counts (KC8EVS);

◊ Vice-President: Barry Butz (N8PPF), Emery Bennett (W8TW);

◊ Secretary: Bill Stroud (KD8WHQ);

◊ Treasurer: Terry Windsor (KI8N)

Officers Elected:

♦ President: Frank Counts (KC8EVS)

♦ Vice-President: Barry Butz (N8PPF)

♦ Secretary: Bill Stroud (KD8WHQ)

♦ Treasurer: Terry Windsor (KI8N)

Directors Elected:

Directors elected for a 2-year term:

♦ Roger Gorrell (KE8ICI)

♦ Arlin Bradford (KD8EVR)

♦ Steven Harvey (N8RLW)

♦ Scott Yonally (N8SY) is starting his 2nd year.

♦ As outgoing President, G Michael Jacobs (KE8HGE) assumes the role of Chairman.

Other Items

The wife of Tom Evans (KD8HSA) is not doing well. The club will see about sending something appropriate if that need should arise.

Scott Yonally (N8SY) said that we may start hearing Health & Welfare traffic coming out of Kentucky, Indiana, and Tennessee. If there is traffic for people in our area, he asked that we take it and get it to where it needs to go as soon as possible.

Social Reminders

R&M Southside Diner at 4:45pm on Wednesday night.

Breakfast at Academy Admin Building at 10:00am Friday morning.

Second Saturday Breakfast at the North Main Cafe at 9:00am.

Meeting Adjourned

Chair entertained a motion to adjourn from Kevin Adams (KD8NGV) with a second from Bill Stroud (KD8WHQ) and without objection, the meeting was adjourned.

Radio Active

**Don Russell
W8PEN**

Hi club members and a belated Merry Christmas and Happy New Year.

Congratulations to new Club President Frank Counts, KC8EVS and other club members elected to office. Looks like we have a very capable group of directors and officers to lead us into year 2022 and beyond.

Many thanks to outgoing President Michael Jacobs, KE8HGE. Michael capably led the club through the ups and downs of dealing with Covid. The club, under Michael's guidance certainly had an active year.

2 Meter Repeater

Most members know that the repeater has been giving us fits recently. Many problems. The controller issues were fixed and reported on last month.

There are more serious issues with the repeater antenna. In fact, it turned out to be a smart move when we installed a backup repeater antenna last summer to use in place of the main repeater antenna if needed. Well, it is needed.

I am convinced that the main culprit and most of our problems with the repeater is the repeater's main antenna. The problem is very intermittent. Sometimes the repeater works well, other times it does not. I think water is getting into the antenna somewhere and causing high SWR and very limited area coverage.

Since switching to the backup antenna (Cushcraft AR-270), repeater operation has improved.

Members will recall that the matching sections of the main repeater antenna were rebuilt the summer of 2020. After this rebuild, things worked very well for a while. Then the antenna started acting up again. In hindsight, we should have replaced the main repeater antenna in 2020 instead of trying to fix it. You know what they say about hindsight being 20/20, especially since it was 2020.

Regardless, the decision has been made that we need to buy a new main repeater antenna. While I did some research on replacing the repeater antenna with a cheaper one, I think it best that we purchase an antenna like the one that is malfunctioning.

After all, it has been up since the early 90's and no doubt has survived many lightening hits.

Three club members have stepped up to donate money for a new repeater antenna. I also still have the 5KW generator that can be sold, and money donated to the club. If we sell the generator, we will be very close to the cost of a new repeater antenna.

I would ask club members to do two things: 1: Keep an eye out for a buyer for the generator. 2: Consider donating towards an antenna fund I will initiate.

Keep in mind that donations can be for any amount. To me, $10 or $20 from lots outshines $100 from one.

I know I just finished a drive to collect money for the Icom IC-7300. There is also some hint that we may want to replace our repeater controller soon ($450 or so). I apologize that we need to ask for more money and believe me, donating money is completely optional. We can always use some club money in addition to donations to achieve our goals. I would not object to a club sponsored Yard Sale to help with these goals.

The club does share a responsibility to maintain a well working repeater for ARES and public service work.

By the way, if we replace the Cat-1000 controller with a new one, most likely the Cat-1000 would be re-serviced to the 70cm repeater at KCH.

Currently the 2-meter repeater is working about as well as it has for several years. Audio quality is much better than it has been for years, and coverage is pretty good too. The backup antenna is doing its job.

We are using the Yaesu DR-1X repeater now. Those that have Yaesu radios capable of C4FM digital can use the digital side of the repeater. However, only one mode at a time can be used. If someone is using digital, the analog FM listeners will hear modem like sounds coming from the repeater. If these sounds are not wanted, the solution is to set your radios CTCSS to tone/squelch. CTCSS should be set to 71.9 Hz. You will not hear the repeater when digital is being used. However, you will notice an S meter reading when the repeater is transmitting digital if your radio is so equipped.

70cm Repeater

Michael Jacobs, KE8HGE has installed the Wires-X interface. However, last I heard; it was not working. To use Wires-X, one must have a Yaesu transceiver capable of accessing Wires-X. Michael had no way to check this out.

"Many thanks to outgoing President Michael Jacobs, KE8HGE. Michael capably led the club through the ups and downs of dealing with Covid."

I am having second thoughts about installing Wires-X on the 70cm repeater. Please note that I am not against Wires-X. I just think it might be better to set up a node remotely that the repeater can access. That way, Wires-X can be used through the repeater but would not be physically located at KCH, where we have problems accessing during the on-going Covid pandemic.

My main worry is something going wrong that would lock the repeater in transmit. This would most likely happen during a computer crash. Wires-X does require a computer to operate correctly. It is food for thought anyway. Worst case would be the repeater locking up and members not being allowed access to reset it.

The problem with a remote node is that the club only has one transceiver capable of being used as a Wires-X node and I would like to keep this radio for other operating needs.

One solution may be to temporarily locate the repeater at my home so I can get the repeater working with the Wires-X interface. Once we solve any issues and prove the set-up to be reliable, then we can reinstall the repeater at KCH.

The repeater is not being used much. I don't think anyone would miss it for a few weeks while things are worked out.

On another matter, I have noticed what seems to be a bit of desense on the repeater. Desense is when the repeater transmitter interferes with the repeater receiver. Usually, this is an indication that the duplexer is out of tune or does not have enough rejection of the transmitter signal to completely remove interference.

The club owns a spare duplexer. I have retuned this duplexer to our repeater frequency and am planning on using half of this duplexer in series with the repeater duplexer. This would be on the receive side only and should provide enough additional rejection of the transmitter to eliminate any desense.

I am also looking at the possibility of installing a receiver preamp on this repeater. However, increasing receiver sensitivity will not be possible unless the desense issue is resolved.

That's it for this month. Hope to see you at the January meeting.

73.

Ohio VHF Simplex Contest

Bill Stroud
KD8WHQ

This is a six hour contest to inspire amateurs around Ohio to operate all-mode simplex to simulate emergency communications.

When

The Ohio VHF+ Simplex contest occurs on Saturday of January 8th. The contest period extends from 1000 EST to 1600 EST. All stations may operate the full six hours.

Bands

Operation on all bands from 50 MHz (6m) and up are permitted. For the most common bands, the following frequencies are recommended:

6m: 52.525 MHz, 52.540 MHz, 52.510 MHz

2m: 146.490 MHz, 146.460 MHz, 146.520 MHz

70cm: 446.000 MHz, 446.100 MHz, 446.050 MHz

Modes

Operation on all modes permitted from 50 MHz (6m) and up are permitted. Modes for the purposes of the rules and scoring in this contest will be grouped as follows:

* FM Analog Voice

* Phone – SSB and AM analog voice

* CW

* Digital Voice – any non-analog voice mode carrying voice traffic (e.g. D-STAR, YSF, DMR, etc.)

* Digital Data – any non-voice/audio data mode generally accepted for emergency use by NBEMS/ARES and supported by FLDigi all count as the mode "Digital Data" regardless of emission type and modulation – e.g. MT63-2K, OLIVIA, etc.

Simplex Requirement

All contacts must be made using station to station simplex transmissions. No repeaters, hotspots, or other types of relaying are permitted. Cross-mode or cross-band contacts are not permitted.

Multiple Stations Contacts

All stations, except for Rovers, may be worked once per band per mode. Contacts between two stations on the same band but different modes count for two QSOs. For example, W1AW may be contacted on both 6m FM and 6m SSB as separate contacts. Rover operations may be worked once per band and mode combination for each county from which the rover operates.

url: https://ohsimplex.org/rules/

Video by Matt Curtin about the Contest
https://youtu.be/jqn4pd1a75c

If you do take part in the contest please send me your results at bstroud52@centurylink.net

Miscellaneous Rambling

Terry Windsor
KI8N

Membership dues for 2022 are due at the end of the year. At the end of January unpaid members will be dropped from the membership roll and will not be receiving an email link to the newsletter. Attached on page 21 is MVARC's membership form which should be included with your payment.

My new 160 meter OCF dipole has been trimmed and is working good. I have used it to make over 100 — 160m contacts and it also works great on several other bands. Wish I had done this earlier.

Several club members worked the ARRL 10 meter contest December 11—12. There were several band openings and a fair number of contacts were made. I intermittently worked it for about two hours and made 40 contacts.

I thought I would share some of the web pages I use when working digital modes to see how well my signal is getting out.

PSK Reporter: This web page is good for seeing all digital modes , bands, and signal strengths others are receiving my signal.

Reverse Beacon Network: I use this reporting web page when working CW to view my signal strength and words per minute speed. It is also good for checking to see who else is operating.

Hamspots: This is another web site I use to check on my signal propagation and to see who is reporting my signal and received signal strength. This site is good for some digital modes but I mostly use it when working FT8 and FT4.

Just recently I watched a YouTube video about the ARRL's new ARRL Learning Center web site. There are several learning paths each containing online courses pertaining to the path you select. I decided to work on furthering Emergency Communications and am about 66% to completion of EC-016: Public Service & Emergency Commm Mgmt. Each MVARC club member should check out the Learning Paths to find what interests you.

RadioQTH is a web site that is interesting especially if you are looking to see what vanity radio calls are coming available in the future. There are links to check for new hams, perform call lookups, practice exams and more.

I checked on anticipated shipment date of the IC-7300 from Icom and they stated it is expected to ship in January. One last thing is I have been considering checking into the OSSBN to observe and learn how they operate and pass traffic. Hopefully next month I will have something to pass along about this experience. Until then, "Ham It UP!"

ARRL Radiogram

With the renewed talk of reviving ARES with in the club it is time to start reviewing the basic message forms. The first form to go over is the standardized ARRL Radiogram and its message format. The Radiogram form is shown on page 14 in this newsletter.

Here are a couple of references that show how to fill out the Radiogram and give the correct information that goes into each block.

- [ARRL Radiogram Message format in a PDF document.](#)

- [Radiogram formatting from the ARRL Ohio Section Web page](#)

The ARRL radiogram consists of **GROUPS** in the **Preamble**, **Address and its Op Note**, **Text, and Signature and its Op Note**. Note the example below with the colored areas within the squares that correspond to the colored text items.

These groups consist ONLY of three possible character types: LETTERS (all upper case), FIGURES, and/or SLASHES (/). The slash is used to separate characters within a group, but may be the first or last character if needed. It is not usually used as a group by itself.

Please familiarize yourself with the Radiogram format, how to fill it out, and how to deliver to the intended person. **Starting in January traffic will be passed on the Sunday night net.** We will be receiving traffic that needs to be placed into a correctly filled out Radiogram form and then delivered to the intended person.

Although only one person on the net will take the traffic (anyone can volunteer to do this) everyone should follow along and practice receiving and filling out the message form.

This month lets begin with what goes into the Preamble fields—this is the box in the image highlighted in red.

PREAMBLE (1)							
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
NR	PREC	HX __	STN ORIG	CK	PLACE OF ORIG	TIME FILED	MON DY
1	R	HXE	W1AW	12	NEWINGTON CT	1830Z	JUL 1

(2) TO	DONALD R SMITH	THIS RADIO MESSAGE WAS RECEIVED AT:(9)
	164 EAST SIXTH AVE	AMATEUR STATION _____ TEL _____
	RIVER CITY MD 00789	NAME _____
		STREET ADDRESS _____
TEL	301 555 3470	CITY,STATE,ZIP _____
OP NOTE (2.4)		

TXT (3)

THANKS	FOR	MESSAGE	X	HOPE
TO	SEE	YOU	AT	HAMFEST
X	73			

SIG (4)   DIANA   OP NOTE (4.2)

RCVD FROM	NET	DATE/TIME	SENT TO	NET	DATE/TIME
(5) WD3W	MEPN	012215Z JUL 91	(6) KD3JK	MDD	012308Z JUL 91

(7) ORIG - FROM - DATE/TIME	(8) DLVD - TO - DATE/TIME
Name	Name
Addr	Addr
City	City
TEL	TEL

Preamble Areas

Number 1: NR—this is the message number and is supplied by the station originating the message. This must be on the message and stays with it to the point of being delivered.

Number 2: PREC—This indicates the precedence of the message. The precedence indicators are:

- **Emergency**—Any message having life and death urgency. Emergency is always spelled out and has immediate urgency.
- **P** = Priority—Used on messages having a specific time limit for delivery.
- **W** = Welfare—Refers to either an injury or to the health and welfare of an individual in the disaster area.
- **R** = Routine—Most traffic in normal times.
- **TEST** = Messages passed for test and exercise purposes. Can be preceeded by TEST R, TEST P, TEST W or TEST EMERGENCY, or just EXERCISE.

Number 3: HX—Handling Instructions.
- **HXA__** (Followed by number.) Collect landline delivery authorized by addressee within [....] miles, (If no number, authorization is unlimited.).
- **HXB__** (Followed by number.) Cancel message if not delivered within [....] hours of filing time; service originating station.
- **HXC** Report date and time of delivery of the message back to the originating station.
- **HXD** Report to originating station the identity of station from which received, plus date and time. Report identity of station to which relayed, plus date and time, or if delivered, report date and time and method of delivery (by service message).
- **HXE** Delivering station get reply from addressee, originate message back.

- **HXF__** (Followed by a number.) Hold delivery until [date].
- **HXG** Delivery by mail or landline toll call not required. If toll call or other expense involved, cancel message and send service message back to originating station.
- ***** Compliance with these instructions is mandatory. Reports may be considered service messages.

Number4: STN ORIG—Call sign of the amateur station originating the message.

Number 5: CK—The number of word groups in the text of the message. Used to verify the text has been copied with the correct number of groups.

Number 6: PLACE OF ORIGN—The location of the party for whom the message is created. For example if the station of origin is in Tampa, FL creating a message for a person in Mount Vernon, OH, the PLACE OF ORIGIN would be Mount Vernon, OH.

Number 7: TIME FILED—Used only when filing time has importance to the precedence, handling instructions, or meaning in the text. Local time is shown as "1745EDT".

Number 8: MON DY—This is the month and day when the message was originated. The month is abbreviated by the standard three letter designation and day is the date.

The next groups on the Radiogram will be covered in next months newsletter, however, you should read the references and be familiar with what goes into each and correct formats.

ARRL — the national association for Amateur Radio™
RADIOGRAM

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE

TO

PHONE NUMBER

E-MAIL

THIS RADIO MESSAGE WAS RECEIVED AT

AMATEUR STATION _____ PHONE_____

NAME _____ E-MAIL_____

STREET _____

CITY, STATE, ZIP _____

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

FROM	DATE	TIME	TO	DATE	TIME
REC'D			SENT		

This message was handled at no charge by a licensed Amateur Radio operator, whose address is shown in the box at right above. No compensation can be accepted by a "ham" operator. A return message may be filed with the "ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225 Main Street, Newington, CT 06111 or www.arrl.org.

The ARRL is the national association for Amateur Radio and the publisher of *QST* magazine. One of its functions is promotion of public service communication among Amateur Radio operators. To that end, the ARRL has organized the National Traffic System for daily nationwide message handling.
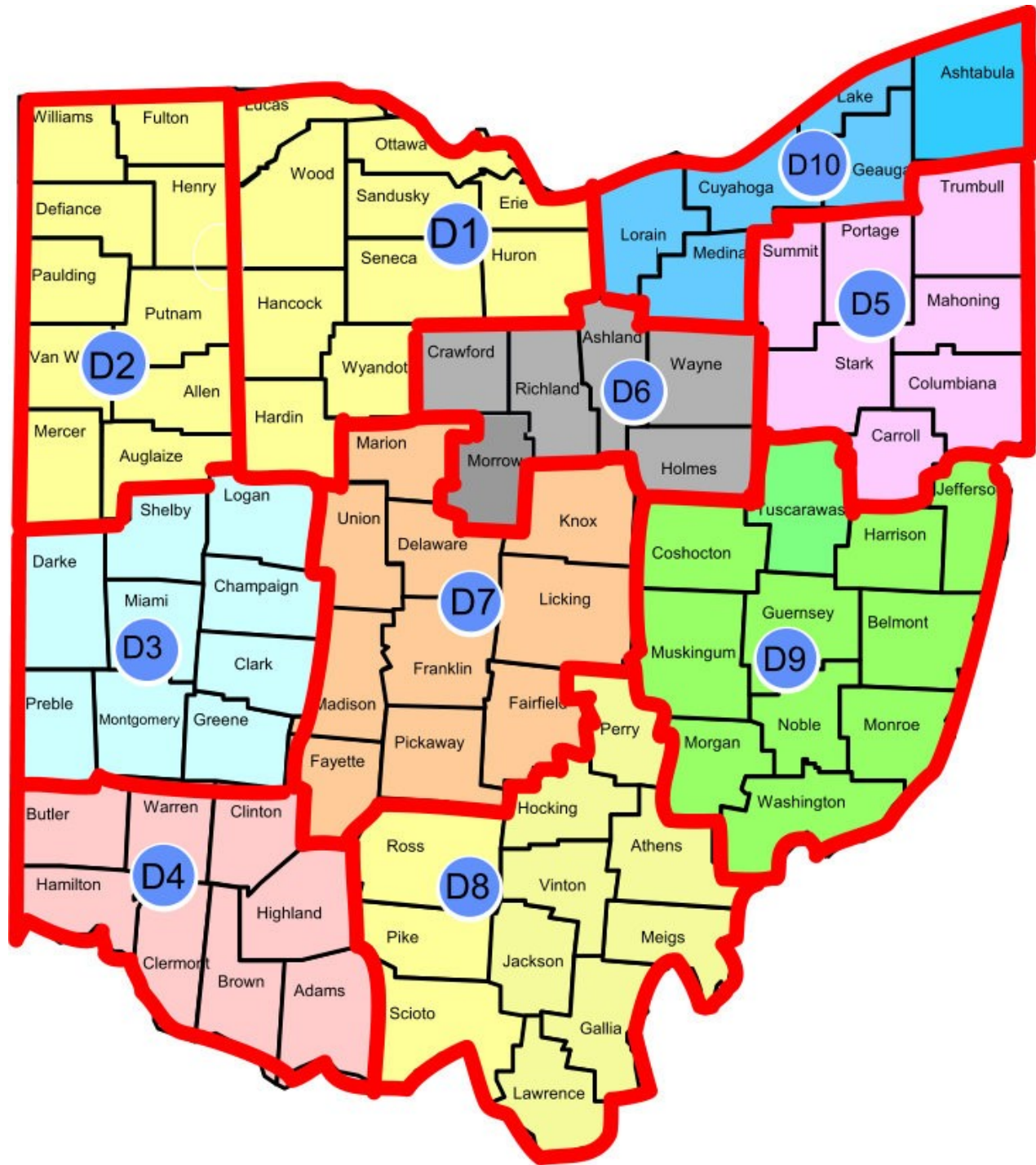
1320 2/11

January 2022

	Tue	Wed	Thu	Fri	Sat
					1 **NEW YEARS DAY**
2 9:00 PM ARES Sunday Night Net — Don Russell (W8PEN)	3	4	5 4:45 PM Dinner - Southside Diner	6	7 10:00 AM Breakfast - Academy Bldg.	8 **9:00 AM Breakfast @ North Main Cafe**
9 9:00 PM ARES Sunday Night Net—G. M. Jacobs (KE8HGE)	10 **7 PM Monthly Meeting—Academy Bldg.**	11	12 4:45 PM Dinner - Southside Diner	13	14 10:00 AM Breakfast - Academy Bldg.	15
16 9:00 PM ARES Sunday Night Net—Roger Gorrell (KE8ICI)	17	18	19 4:45 PM Dinner - Southside Diner	20	21 10:00 AM Breakfast - Academy Bldg.	22
23 9:00 PM ARES Sunday Night Net—Arlin Bradford (KD8EVR)	24	25	26 4:45 PM Dinner - Southside Diner	27	28 10:00 AM Breakfast - Academy Bldg	29
30 9:00 PM ARES Sunday Night Net—Steve Harvey (N8LRW)	31					

Final Takeaway
Ohio ARES District Map

General Exam Sample Test Questions:

G1C05 What is the limit for transmitter power on the 28 MHz band for a General Class control operator?

A. 100 watts PEP output
B. 1000 watts PEP output
C. 2000 watts PEP output
D. 1500 watts PEP output

G1C06 What is the limit for transmitter power on the 1.8 MHz band?

A. 1500 watts PEP output
B. 1200 watts PEP output
C. 200 watts PEP output
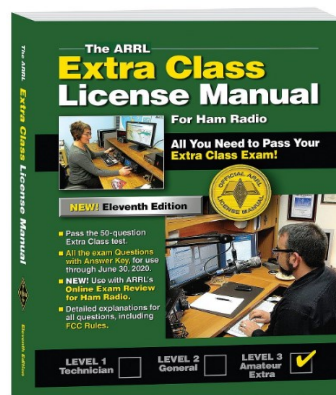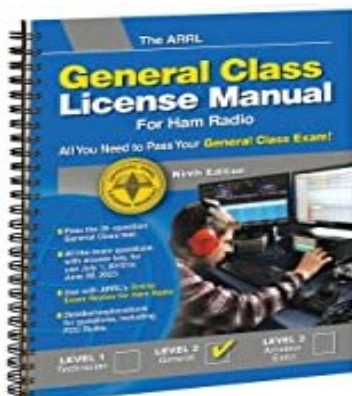D. 100 watts PEP output

Extra Class Exam Sample Test Questions:

E1D01 What is the definition of telemetry?

A. One-way transmission of measurements at a distance from the measuring instrument
B. Two-way transmissions of data
C. One-way transmission that initiates, modifies, or terminates the functions of a device at a distance
D. Two-way transmissions in excess fo 1000 feet

E1D02 Which of the following may transmit special codes intended to obscure the meaning of messages?

A. Binary control characters
B. Telecommand signals from a space telecommand station
C. Auxiliary relay links carrying repeater audio
D. Data containing personal information

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.qrz.com/hamtest/ The books shown are available from the ARRL for license studying.

Miscellaneous Amateur Radio Information

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

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 KHz at 10:30 am, 4:15 pm, and 6:00 pm daily. Alternate Frequency for all sessions is 3.968 KHz

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 how to handle traffic.   The Net meets daily at 7:15 p.m. local time.

Area Radio Clubs

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

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

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

Marion Amateur Radio Club: http://www.marionhamradio.com/home.html

The ARRL Ohio Section Newsletter: https://arrl-ohio.org/news/index.html

"… the decision has been made that we need to buy a new main repeater antenna. ." Don (W8PEN)

Amateur Radio Vinyl Decals

Nichole Adessa, N8OVE

I make vinyl decals.   I made two designs for MVARC. The links below are to the designs on my online shop.

The first link is a club design shown below.

https://www.etsy.com/listing/1009895981/mount-vernon-amateur-radio-club-vinyl? ref=shop_home_active_1&variation0=1971593946&variation1=1991398087

The second decal is personalized with the individual's Call Sign added.

https://www.etsy.com/listing/995928986/personalized-decal-with-call-sign-for? ref=shop_home_active_2

NOTE: You can see the both designs by going to the web address.

"Membership Dues for 2022 are **DUE** ."

Quick Updates

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

Effective Thursday **May 20, 2021**, all amateur examination applicants will be 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.

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. 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 provides step-by-step instructions on how to obtain an FRN through the FCC's COmmission REgistration System (CORES).

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), upgrade the license, apply for a vanity call sign, and to submit administrative updates (such as address and email changes) and renewal applications.

In addition, **after June 29**, 2021 all applica-

tions 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.

Print an Official or Unofficial Copy of Your Amateur Radio License (By Anthony Luscre, K8ZT)

As of February 17, 2015, the FCC no longer routinely issues paper license documents to Amateur Radio applicants and licensees. The Commission has maintained for some time now that the official Amateur Radio license authorization is the electronic record that exists in its Universal Licensing System (ULS). The FCC will continue to provide paper license documents to all licensees who notify the Commission that they prefer to receive one. Licensees also will be able to print out an official authorization — as well as an unofficial "reference copy" — from the ULS License Manager. I 've created a set of instructions on how you can request an "official" printed copy of your license. Click here to download the instructions

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 and additional members in the same family.

Mount Vernon Amateur Radio Club
PO Box 372
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:

Answers to sample test questions on page 19.

G1C05: D – 1500 watts PEP output
G1C06: A – 1500 watts PEP output
E1D01: A – One-way transmission of measurements at a distance from the measuring instrument
E1D02: B – Telecommand signals from a space telecommand station

Editors Notes

The MVARC Newsletter is delivered to club members only by email link to the MVARC webpage. If you know a member who can not access or is not on this email chain please share this information with them and have them contact the editors.

Frank and I really need to hear from you as to layout, articles, ideas for new content and anything else you would like to read or write about. Please have all written input to us by the fourth Friday of the month for inclusion into the next monthly newsletter.

Please note the contact email for the MVARC newsletter to MVARC.K8EEN@GMAIL.COM.

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

Items For Sale

Generator for Sale

Troy Built Generator

⇒ 5,000-Watt,   6,250 Watt Surge

⇒ 220 VAC & 120 VAC

⇒ Runs good

Battery does need to be replaced. Starts easy with pull rope

$400 or Best Offer

Mt. Vernon Amateur Radio Club
c/o Don Russell, W8PEN
740-397-0249
740-326-0476