

December 2021

2021 Edition 12



Mount Vernon Amateur Radio Club

Club Meetings

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

**November meeting: Academy
Building 790 Fairgrounds Road.**

MVARC Information

The next club meeting is December 13, 2021.

Visit us on Facebook:

Mount Vernon Amateur Radio Club

Visit our Webpage:

<https://MVARC.net>

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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

Contact Us

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Mount Vernon, OH
43050

Email

MVARC.K8EEN@gmail.com

MVARC

President

[Michael Jacobs, KE8HGE](#)

Vice President

[Greg Short, W8DOH](#)

Secretary / Treasurer

[Terry Windsor, KI8N](#)

Club Call Trustee

[Don Russell, W8PEN](#)

Equipment Trustee

[Barry Butz, N8PPF](#)

Directors

[Emery Bennett, W8TW](#)

[Barry Butz, N8PPF](#)

[Frank Counts, KC8EVS](#)

[Don Russell, W8PEN](#)

[Greg Short, W8DOH](#)

[Scott Yonally, N8SY](#)

Newsletter Editors

[Frank Counts, KC8EVS](#)

[Terry Windsor, KI8N](#)

MVARC President: And now for a Word!

G. Michael Jacobs KE8HGE



It is my sad duty to inform you know that Charlene Householder (N8RPZ) has gone Silent Key. She left this Earth to go home on December 1, 2021. Her obituary is available on the Law Baker Funeral Home website (<https://www.law-bakerfuneralhome.com/obituary/l-charlene-householder>)

There isn't much left to do except elect our officers for next year, and a slate of Directors. We will still be taking last-minute nominations or volunteers for officers and Directors, and I encourage anyone that has an interest to step forward.

Even if you aren't interested in

being an officer, there are other ways in which you can support the club and its activities:

- We always have a need for Event Coordinators (NVIS, Gravel Grinder, Field Day, Ohio State Parks on the Air, etc.).
- With classes due to resume sometime next year, experienced hams are always welcome to supplement the study sessions with sage words of experience.
- ARES Net has openings for additional Net Controllers.

Please consider helping when you can. **Participation Matters!!**

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“Please consider helping when you can. Participation Matters!!” Michael (KE8HGE)

2022 Officer Election Slate

President:

- Arlin, KD8EVR
- Frank, KC8EVS

Vice President:

- Barry, N8PPF

Secretary:

- Bill, KD8WHQ

Treasurer:

- Terry, KI8N

Directors:

- Arlin, KD8EVR or Frank, KC8EVS
(Determined after vote for President)
- Roger, KE8ICI
- Steve, N8RLW

Scott, N8SY and Michael, KE8HGE (Chairman) will be returning as Directors.

Barry, N8PPF, Don, W8PEN, and Emery, W8TW have reached their term limits and are stepping down for the year. Greg, W8DOH has not been present for six months and we have not been able to contact him.

It is important for **YOU** to attend the December meeting to vote on the president. Since there is no one running against the other positions they will be accepted as stated above at the December meeting to start their terms January 1st, 2022. There is still time if you want to run

against any of the slate of officers listed above, come to the meeting and through your name in for officer nomination. Currently, we will have five directors and we can have up to nine, to become one of the elite show up to the December meeting and declare that you want to help out MVARC by becoming a Director. You will have a good chance and opportunity to serve.



2022

OFFICER NOMINATIONS NOW OPEN

The following positions are to be filled:

President
Vice President
Secretary
Treasurer

October Meeting Minutes

G. Michael Jacobs KE8HGE



(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 Roger Gorrell (KE8ICI).

Treasurer

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

Barry Butz (N8PPF) asked if the donations and expenditures for the IC-7300 have been reflected in these reports. The reports from the previous months were not available.

The reports were accepted as presented without objection. Copies are available upon member request.

Addendum: The donations for the IC-7300 were reflected in the Treasurer's Report from October, but the payment for the IC-7300 has not been processed yet.

Repeater and Mesh Report (Don Russell W8PEN)

There were performance issues with the re-

The MVARC meeting was called to order by G Michael Jacobs

peater during the ARES Net, so Don (W8PEN) and Frank Counts (KC8EVS) replaced the repeater with the backup. Repeater performance has vastly improved with this swap-out. Plans are to leave the backup as our new regular repeater. The controller currently on the new repeater has "no-frills." Don (W8PEN) has ordered another controller that will work with the new repeater.

The 440-repeater and MESH systems are functioning, but are little used. Don (W8PEN) would like to get an ARES test scenario put together that uses the MESH system. Don (W8PEN) also noted the following;

- Comments from Terry Windsor (KI8N) in the November newsletter about re-starting ARES drills, and Don (W8PEN) suggested starting with a tabletop exercise.
- Jim Williams (N8IBR, SK) was the last to present a session on traffic.
- Our Sunday Night ARES Nets are intended as a means of practicing traffic handling.

Discussion regarding expanding our MESH net took place, with Fredericktown being identified as probably the easiest to get online. Per Arlin Bradford (KD8EVR), work on removing other, no-longer-in-use, radio equipment will be done in Centerburg before June 1.

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.

ARES (Bill Stroud KD8WHQ)

No report.

Old Business

Nominations Committee (Frank KC8EVS)

Frank has emailed out a list of nominees for Club Officers and Directors. Current nominees were reviewed:

- * President: Arlin Bradford (KD8EVR), Frank Counts (KC8EVS)
- * Vice-President: Barry Butz (N8PPF)
- * Secretary: Bill Stroud (KD8WHQ)
- * Treasurer: Terry Windsor (K18N)
- * Directors: Roger Gorrell (KE8ICI), and either Arlin (KD8EVR) or Frank (KC8EVS) [whichever was not elected President]

Elections for these positions will take place at the December meeting.

Barry Butz (N8PPF) asked about the Directors whose terms are expiring and will be filled this year and whose terms will be carrying over until next year. This year, Barry (N8PPF), Don (W8PEN), and Emery (W8TW) are outgoing. Scott's (N8SY) term will expire next year, as will Greg (W8DOH). Greg (W8DOH) has been incommunicado for the last several months so he may not be returning as a Director.

We will review the status of our Directors since others may come forward at the December meeting.

Christmas Party

Discussion was revisited about having dinner at the Academy Admin Building. No other alternatives were cited, along with the lack of restaurants with the capacity, staffing, or open hours to handle a 30-40 guest dinner on a Sunday evening.

Barry Butz (N8PPF) suggested cancelling the Christmas Dinner since it would be a large group of people indoors and having just a regular meeting in December. He also suggested that Field Day might be a better time for a club dinner as it would be outdoors.

A motion from Arlin Bradford (KD8EVR) to cancel the Christmas Party and have a regular meeting in December was seconded by [notes not clear], and the motion carried.

New Business

Arlin (KD8EVR) is working on getting additional Academy Admin building keys for select club officers. At present, other building occupants have been letting members in for Friday Breakfast.

Jim Bostic (KD8IZT) forwarded a letter from Josh Landewee at Bridgecom Systems asking our club's leadership to get in contact with him. There was a brief discussion about the letter (others had also received a copy) but it was quickly decided that it was "spam" and an attempt to create a mailing list of active email addresses.

Social Activities

SouthSide Restaurant dinner on Wednesdays at 4:45 pm.

Friday; informal morning breakfast at 10 AM. Meet at Academy Administration building.

Second Saturday Breakfast at North Main Café — 9:00am.

Meeting Adjourned

Chair entertained a motion to adjourn from Scott Yonally (N8SY) that was seconded by Kevin Adams (KD8NGV) and without objection, the meeting was adjourned.



Radio Active

Don Russell

W8PEN



November was a very busy month for me. When not doing dang yard work, cleaning out the garage, sheds, and doing maintenance on the yard equipment, I was working on getting the Yaesu DR-1X working with the clubs Cat-1000 repeater controller. So, let's get to it.

2 Meter Repeater

In the past, I have tried to interface the DR-1X with the Cat-1000. I was successful in getting the controller working with the repeater, but this was without CTCSS. A feature needed in today's communications structure of closely spaced repeaters. Also, my fix was to allow the repeater to work with analog FM only. The digital side of the Yaesu DR-1X had to be turned off.

To be honest, I could have had everything working on the analog FM side had I decided to purchase an external encoder/decoder. However, at the time, the old Maggiore repeater was still working perfectly. Since 2002, I might add.

Times have changed and the receiver on the Maggiore repeater is not functioning as well as it should be these days. The was brought to attention during one of our Sunday nights nets where only the locals could check in. While I hope to get this problem fixed, the decision was made by me and a few of the other board members that we should just go with the newer DR-1X as the main repeater and fix the Maggiore repeater as a backup.

So, the problem remained on how to modify the DR-1X so that it would work with the clubs Cat-1000 repeater controller and work with an external CTCSS encoder/decoder.

After some research, I found a board made by Arcom, a manufacturer of repeater controllers. This board, simply called an ADR Interface board was designed by Arcom to allow their own controllers to interface with the Yaesu DR-1X. Using this interface board allows full operation of the DR-1X, including the digital feature. The nice thing about this interface board though, was that it will work with any repeater controller.

I felt this was the way to go, so I ordered the board, which included the CTCSS encoder/decoder. Using this board will allow club members to continue using the repeater with analog FM, our normal mode of operation, while allowing those that wish to play with the Yaesu C4FM digital mode.

So, not being too old to learn a lesson, I built a duplicate antenna for my own use and did a permanent install on the tower. The duplicate antenna works as well as the original. The original antenna has been put in my Field Day antenna box. I am planning on making two more of these Off-Center Fed (OCF) antennas so the club can have one on each SSB station and have one as either a backup or maybe on the GOTA or Digital station.

Adding this board was simple, although the Yaesu DR-1X did need a slight modification to work with the board. Arcom advertises plug and play for their board and their repeater controller, but you must do a bit of extra wiring when using a different brand repeater controller.

This involved opening the DR-1X and splicing into one of the cables. One wire was spliced into the DR-1X repeater cable and brought to the outside through one of the numerous vent holes in the back of the repeater.

Other than this one wire, everything else was cut and dry as far as wiring goes.

I did run into a problem with the way the controller sensed the CTCSS. I had to add a flip flop circuit to the Cat-1000 for everything to work correctly. I also had to build a little circuit that would squelch the receiver audio. Without this circuit, the squelch tail was sometimes very long and annoying. We still have the squelch tail, but it is now short if not pleasant. I am not entirely happy with the circuit. I will continue to look for a better solution to the squelch tail problem.

While installing the interface board, the Cat-1000 controller started doing funny things that I did not understand. The problems had nothing to do with the interface board. In fact, the problems did not even show up until several days after the interface board was installed.

For one, the DTMF decoder stopped working. I could not command the repeater into net mode, weather mode, or any of the other modes that are programmed into the controller.

The second problem was that the DVR stopped working.

To fix the first problem, I decided to remove all the ICs on the controller, use Deoxit to clean the IC sockets and IC pins, and then reinsert the IC's. This worked and I was awarded with a working DTMF decoder. So, problem number one fixed.

While I was at it, I decided to use Deoxit on all the audio controls (potentiometers). Did the same thing with all the cable connections.

I found some corrosion on the DVR board. Looks like one of the AA batteries used to keep the memory intact during power outage had leaked at one point. I don't remember this ever happening, so perhaps it was early on before I started working on the repeater.

In any case, I tried the same Deoxit on all the ICs on the DVR board. Still nothing. There was one IC socket that had significant corrosion around it and a few holes that still looked very corroded. With this socket, I used more Deoxit and a thick piece of wire to try and remove the corrosion. This technique proved successful, and the DVR was working again - until I installed the controller. Then it wasn't.

Since we hardly ever use the DVR, I am planning on waiting for warmer weather to look at the DVR again. I think replacing the IC socket will do the trick. Although I may try changing batteries on the DVR. Perhaps they ran down while I had power off on the controller.

Currently, I believe the repeater is working well. Audio is sounding very good and except for the DVR, the controller is working well. I hope this continues.

70 cm Repeater

The 70 cm repeater is working well. I think we have picked up a little desense, which is caused by the duplexer being slightly out of adjustment. I have another duplexer I may use to try and fix this problem.

Local Mesh Network

The local mesh network is working well. Unfortunately, we never had the opportunity to install the nodes at Centerburg and Fredericktown this year. This will have to wait now until next Spring.

I have found a very nice use for our network though. Using the IP phones, I can call into the 2 Meter repeater and make some programming changes to the controller. It makes my life a bit easier because I don't have to run out the repeater site to make small changes.

I still think the mesh network is a valuable tool which should be incorporated into ARES plans we develop locally.

That's it for this month. Hope to see all of you at the December meeting.

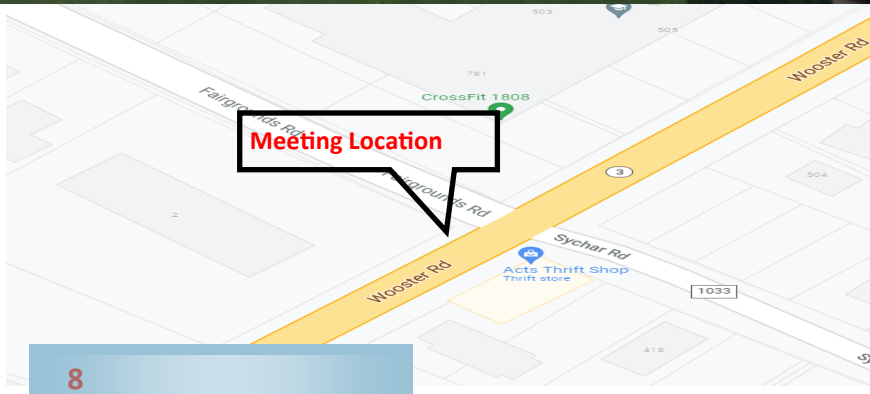
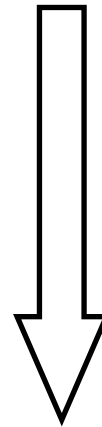
73.

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.



Miscellaneous Rambling

Terry Windsor
K18N



Membership Dues for 2022 are due at the end of the year. Attached on the next to last page is MVARC's membership form which should be included with your payment.

I just hung a new (for me) 160 meter Off Center Fed dipole. I made this antenna last spring and just got it hung between tress with the center supported on the tower. Next I have to go through the process of determining where it is resonant and deciding how much adjustment is needed. I wanted to work the ARRL 160 Meter CW contest but procrastinated getting it installed. There is always next year.

However, the ARRL 10 meter contest is December 11—12 and it may be fun to make some DX contacts on a band that hasn't been very open for some time. <http://www.arrl.org/10-meter>

Also working on installing the mobile radio into my new truck. Difficult trying to determine where to mount the radio body and place the faceplate. Believe I have located a location but the fun or test will be running and hiding the power, coax, and extension

cables. Dash face plates and plastic panels will have to be removed.

I bought two of Nichole's vinyl decals; one for the truck and the other for the camper. Planning to install both decals next week—weather permitting.



Glad to see that MVARC may start planning ARES activities and start to become more active. However, I am not going to believe it until an exercise is planned.

2021 Field Day results have been posted; <https://contests.arrl.org/ContestResults/2021/Field-Day-2021-FinalQSTResults.pdf> Also in the December 2021 QST magazine.

Until next month "Ham It UP!"

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 at the end of the year."

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**, 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.

[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](#)

General Exam Sample Test Questions:

G1C03 What is the maximum bandwidth permitted by FCC rules for Amateur Radio stations transmitting on USB frequencies in the 60-meter band?

- A. 2.8 kHz
- B. 5.6 kHz
- C. 1.8 kHz
- D. 3 kHz

G1C04 Which of the following limitations apply to transmitted power on every amateur band?

- A. Power should be limited as necessary to avoid interference to another radio service on the frequency
- B. Power must be limited to 200 watts when using data transmissions
- C. Only the minimum power necessary to carry out the desired communication should be used
- D. Effective radiated power cannot exceed 1500 watts

Extra Class Exam Sample Test Questions:

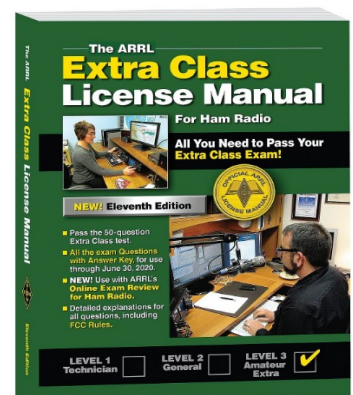
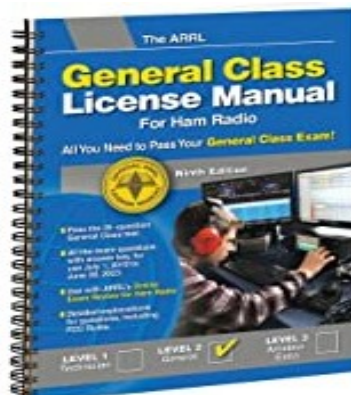
E1C05 When may an automatically controlled station originate third party communications?

- A. Only when transmitting RTTY or data em
- B. When agreed upon by the sending or receiving station
- C. Never
- D. When approved by the National Telecommunication and Information Administration

E1C07 At what level below a signal's mean power level is its bandwidth determined according to FCC rules?

- A. 23 dB
- B. 6 dB
- C. 26 dB
- D. 3 dB

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 books shown are available from the ARRL for license upgrade 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

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

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 a.m., 4:15 p.m. and 6:15 p.m. daily. Alternate Frequency for all sessions is 3.968 KHZ

<http://www.cotn.us/>

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 ARRL Ohio Section calendar:

<https://arrl-ohio.org/g-calendar/default.html>

**“Currently, I believe the repeater is working well. Audio is sounding very good.”
Don (W8PEN)**



I will listen, and listen, and then listen again before calling.

I will only call if I can copy the DX station properly.

I will not trust the DX cluster and will be sure of the DX station's call sign before calling.

I will not interfere with the DX station nor anyone calling and will never tune up on the DX frequency or in the QSY slot.

I will wait for the DX station to end a contact before I call.

I will always send my full call sign.

I will call and then listen for a reasonable interval. I will not call continuously.

I will not transmit when the DX operator calls another call sign, not mine.

I will not transmit when the DX operator queries a call sign not like mine.

I will not transmit when the DX station requests geographic areas other than mine.

When the DX operator calls me, I will not repeat my call sign unless I think he has copied it incorrectly.

I will be thankful if and when I do make a contact.

I will respect my fellow hams and conduct myself so as to earn their respect.

December 2021



Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 4:45 PM Dinner at Southside Diner	2	3 10:00 AM Breakfast - Academy Bldg.	4
5 9:00 PM ARES Sunday Night Net	6	7	8 4:45 PM Dinner at Southside Diner	9	10 10:00 AM Breakfast - Academy Bldg.	11 9:00 AM Breakfast @ North Main Cafe
12 9:00 PM ARES Sunday Night Net	13 7 PM Monthly Meeting—790 Fairgrounds Rd.— Academy Bldg.	14	15 4:45 PM Dinner at Southside Diner	16	17 10:00 AM Breakfast - Academy Bldg.	18
19 9:00 PM ARES Sunday Night Net	20	21	22 4:45 PM Dinner at Southside Diner	23	24 10:00 AM Breakfast - Academy Bldg.	25 Christmas Day
26 9:00 PM ARES Sunday Night Net	27	28	29	30	31 10:00 AM Breakfast - Academy Bldg New Years Eve	

Final Takeaway

W1AW Operating Schedule and Code Practice

Updated November 8, 2021

Pacific	Mtn	Cent	East	UTC	Mon	Tue	Wed	Thu	Fri
6 am	7 am	8 am	9 am	1400z		Fast Code	Slow Code	Fast Code	Slow Code
7 am to 12:45 pm	8 am to 1:45 pm	9 am to 2:45 pm	10 am to 3:45 pm	1500z to 2045z	Visiting Operator Time				
1 pm	2 pm	3 pm	4 pm	2100z	Fast Code	Slow Code	Fast Code	Slow Code	Fast Code
2 pm	3 pm	4 pm	5 pm	2200z	Code Bulletin				
3 pm	4 pm	5 pm	6 pm	2300z	Digital Bulletin				
4 pm	5 pm	6 pm	7 pm	0000z	Slow Code	Fast Code	Slow Code	Fast Code	Slow Code
5 pm	6 pm	7 pm	8 pm	0100z	Code Bulletin				
6 pm	7 pm	8 pm	9 pm	0200z	Digital Bulletin				
6:45 pm	7:45 pm	8:45 pm	9:45 pm	0245z	Voice Bulletin				
7 pm	8 pm	9 pm	10 pm	0300z	Fast Code	Slow Code	Fast Code	Slow Code	Fast Code
8 pm	9 pm	10 pm	11 pm	0400z	Code Bulletin				

W1AW's transmitting schedule occurs at the same local Eastern time throughout the year.

The schedule may change if your local time does not have seasonal adjustments.

Daily Morse Code Practice QST Source

Code practice text is from the pages of *QST* magazine, the League's membership journal. The source is given at the beginning of each practice session and alternate speeds within each session. For example, "Text is from September 2019 *QST*, pages 46" indicates that the practice session's plain text is from the article on page 46.

Go to the following link for frequencies, the table for daily Morse Code Practice text. <http://www.arrl.org/w1aw-operating-schedule>

W1AW Qualifying Runs

For more information go to the following: <http://www.arrl.org/qualifying-run-schedule>

W1AW Qualifying Runs are sent on the same frequencies as the Morse code transmissions. West Coast Qualifying Runs are also transmitted monthly by other West Coast stations on various frequencies. At the beginning of each code practice session, the schedule for the next qualifying run is presented. Underline one minute of the highest speed you copied, certify that your copy was made without aid, and send it to ARRL for grading. Please include your name, call sign (if any) and complete mailing address. The initial certificate is available for a \$10 fee. Subsequent endorsement stickers are available for a \$7.50 fee.

The **2021 W1AW** and **West Coast** monthly Qualifying Run schedules are available in PDF format.

W1AW

Local (Eastern)			UTC		
Date	Time	Day	Time	Date	Notes
December 6, 2021	4 PM	Monday	2100z	December 6, 2021	10 - 35 WPM
December 7, 2021	7 PM	Tuesday	0000z	December 8, 2021	35 - 10 WPM
December 9, 2021	10 PM	Thursday	0300z	December 10, 2021	10 - 40 WPM
December 10, 2021	9 AM	Friday	1400z	December 10, 2021	10 - 35 WPM

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.

G1C03: A – 2.8 kHz

G1C04: C – Only the minimum power necessary to carry out the desired communication should be used

E1C05: C – Never

E1C07: C – 26 dB

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.

