



February 2021

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

K8EEN-R Echolink Node:
809800

K8EEN UHF Repeater:
444.600 MHz
+5 MHz with PL = 71.9 Hz

Contact Us

MVARC
PO Box 372
Mount Vernon, OH
43019

Web Page:
www.mvarc.net

Email:
info@mvarc.net

Mount Vernon Amateur Radio Club

Meetings are held on the 2nd Monday of each month at 7:00 pm on the K8EEN 146.79 MHz repeater.

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MVARC Information

MVARC monthly meetings meet on the K8EEN 146.790 MHz repeater. **The next MVARC meeting is February 8, 2021.**

Visit us on Facebook:

Mount Vernon Amateur Radio Club

Visit our Webpage:

<https://mvarc.net>

Email for inquires and information:

info@mvarc.net

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

Chairman:

Louie Wilkinson, NT8I

Emery Bennett, W8TW

Barry Butz, N8PPF

Frank Counts, KC8EVS

Don Russell, W8PEN

Greg Short, W8DOH

Scott Yonally, N8SY

Newsletter & Facebook

Editors

Frank Counts, KC8EVS

Terry Windsor, KI8N

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. We 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 lists events around Ohio.

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



MVARC President's View

G. Michael Jacobs, KE8HGE



Well, this year is off to a bit of a disappointing start.

Yes, Hamvention has been cancelled for 2021.

I can understand and appreciate this: Hamvention is an event with a huge crowd and an international draw, and an event that the Greene County Fairgrounds cannot handle in a way that would allow for the COVID-related precautions that are still going to be required. So, the organizers have elected to keep the event closed for another year.

But we do have other things to look forward to closer to home.

While we do not have a date for it yet, a **Knox County Parks on the Air** project is getting under way. Frank KC8EVS is coordinating this event, where club representatives set up stations at each of the 7 Knox County Parks (Bat Nest, Hellbender Preserve, Honey Run, Indianfield Bluffs, Thayer Ridge, Wolf Run, and Zuck Riparian). I am looking forward to seeing how this event shapes up for us this year.

The **Black Fork Gravel Grinder** is on schedule for May 1. It looks like we should be able to meet the basic needs for their race. I am hoping that this event can grow into an annual function for the club. It presents us an opportunity to get out, be seen, and put our net expertise to good use.

Field Day 2021 (June 26-27) is already on our minds, and Don W8PEN has generously stepped up to coordinate that event for us. I think we are all familiar enough with the event that we know what needs to be done, but if Don does need help with anything, please try to be available. If nothing else, we may need a crew to help with that huge 10'-by- whatever canopy that was given to us last year.

Finally, I must reluctantly preach a little bit to the choir. You are all aware of the violence that was visited on the United States Capital on January 6. You are also likely aware of the rumors about the possible use of Amateur Radio to coordinate additional demonstrations during the Presidential Inauguration. I was confident that we would not see any such activity here. But I would be remiss if I did not take this opportunity to remind you that if you hear anyone misusing either of our repeaters, please contact Don W8PEN or Frank KC8EVS or

myself and let someone know. This club is the steward of our airspace and should do what we can to make sure our small part of it is not abused.

73.

January 11, 2021 Meeting Minutes

Terry Windsor, KI8N



Opening (G. Michael Jacobs, KE8HGE)

The repeater was placed into Net Mode by Michael, KE8HGE Net Control / MVARC President at 7:00 PM with 16 members (including Net Control) checked in.

Reports / Minutes

The minutes of the December meeting were accepted as presented in the MVARC Newsletter without objection.

Treasurer (Terry Windsor KI8N)

The report of December and January expenses and income was given and accepted as submitted. A copy of both reports is available upon request.

Repeater and Mesh Report (Don Russell W8PEN)

Don started with congratulating Michael on his election to MVARC President.

The 2m repeater is reported as working well. Don is monitoring its operation daily. Don reported a new antenna on the Echolink transmitter and has better quieting. Scott, N8SY noted that the 2-meter repeater is working good and at full scale at his QTH location.

The 440 repeater is also working well. The internet via Wires X has not been attached to that repeater, yet, and we will need to wait until COVID-19 has calmed down before it is installed.

MESH net is running well. Don has been making updates; BBS system working, rooms and email available. Don installed NTP Time Widget to keep the nodes up to date. Don is also setting up Mesh phones which is working, and a phone is operational at the 146.79 repeater site.

ARES (Bill Stroud KD8WHQ)

Bill KD8WHQ had no ARES activities to report. Frank, KC8EVS did ask about an email from the organizer of the Black Fork Gravel Grinder race. This will be discussed in New Business.

New Business

Michael, KE8HGE reported that the Red Cross has relocated to the Medical Arts Complex at 812 Coshocton Avenue. This is in the same complex as Pak Mail. Michael is planning to contact Doug Peach as to MVARC involvement with their new location.

Discussion of how to plan and facilitate a Tech License class this spring. Don, W8PEN brought up a couple of possible solutions and volunteered to help, using the Mount Vernon Library or via Zoom. Larry, AC8YE stated the Delaware club was using Zoom to teach and hold meetings. It was noted that there are two people

interested in a license class. Frank stated that there will be no testing for the time being. Testing might open in March or April.

Issue with using Zoom for presenting a class was the time limit with a non-subscriber meeting is it is limited to 45 minutes. However, Scott, N8SY has a paid Zoom account and time limits would not be an issue if we can arrange a schedule when there is free time.

Discussion about MVARC involvement in the Black Fork Gravel Grinder.

<https://www.blackforkgravelgrinder.com/> The organizer has asked if MVARC wants to participate in emergency management. The event is scheduled May 1, 2021 with the starting point at the Mohican Wilderness Campground. A quick poll of those interested; KI8N, KC8EVS, W8PEN, W8DOH and KE8HGE. Since there were only five interested at this time it was stated we may have to ask other local clubs to participate. Michael, KE8HGE to follow up with the race organizer as to our interest and participation.

Coming Events

January 30/31 is Winter Field Day

NVIS Day is typically in April – waiting on more information.

June 26/27 is ARRL Field Day

Ohio State Parks on the Air in September

Noted: Hamvention is cancelled and no information available about the ARES Conference.

Frank, KC8EVS would like to organize a special event – Knox County Parks on the Air this summer. He needs 7 or 8 people to operate at various county parks. Please let Frank know if you are interested in participating in this event.

Announcements

Don W8PEN volunteered to be the chairperson for Field Day. Frank, KC8EVS will assist and chair a committee to organize club Field Day activities. Also, Bill, KD8WHQ stated he will assist with Field Day. If you are interested in any Field Day activity or would like to operate, please let Don know.

Social Updates (G. Michael Jacobs KE8HGE)

Dinner at R&M Southside Diner, Wednesday; table in the Immediate Seating area, ordering at 4:45pm.

Meeting Adjourned

No further business and without objection, Michael adjourned the meeting, and the repeater net was closed at 7:51 PM.



Getting Started with the MVARC Local Mesh Network - Part 2

Don Russell, W8PEN



Part one of this three-part article covered just the basics of the mesh network. Just how it operates, how to tell who has nodes up, and how well they are communicating. This month, in Part 2, we will cover one of the main features of our local mesh network. This being the W8PEN-BBS.

In brief, this **Bulletin Board System** is styled like the Pre-Internet systems. Are you old enough to remember the old BBS from the dial up days? More recent use of a BBS has been by packet radio stations as a message store and forward system.

The W8PEN-BBS is similar is based on Citadel BBS software. It runs smoothly on the local mesh network and provides several features that we are looking for:

Self-registering: Once a ham sets up a personal node, simply go to the W8PEN-BBS and click “register” Please use your call letters as your username. Enter any password you desire. Once registered, there is a profile form that can be filled in. There is no hurry in this, and you can look around before filling out the user profile.

Email Server: Once registered one can use the internal email server. It works basically like any other email server. The person you are sending an email to must be registered on the BBS. This is an internal only email server. One cannot send an email to a non-ham friend in another state or town. This email server can be especially useful in sending messages between our served agencies and a disaster site or temporary Red Cross shelter.

Chat Room: The chat room can be used for general chats between other hams logged into the BBS. During an ARES event, the chat room can be used as a quick exchange between disaster site, shelters, served agencies, or wherever we set up an emergency node. Other times it can be used as a local chat site just for fun.

Public Rooms: This is where one would go for various activities. Currently, I have rooms set up to retrieve past club newsletters, some public domain pdf books related to ham radio, videos pertaining to ham radio, etc. Rooms can be set up for many things. Classified ads, message boards, blogs, etc.

Private Rooms: Private rooms can be set up. These rooms are like the public rooms except one needs a password to enter. Not sure this feature will ever need to be used.

Create Rooms: Users can create their own rooms. The only limit is your imagination.

Log in / Self Register:

This is easy to do. First you need to access the BBS page by clicking W8PEN-BBS:

K8EEN-MtVernon-2G-Central	97%	87%	13.0
K8EEN-MtVernon-2G-North	89%	52%	8.2
K8EEN-MtVernon-East	77%	74%	14.6
K8EEN-MtVernon-FP-5G (dtd)	100%	100%	
N8PPF-MtVernon-South	8%	59%	0.0
W8PEN-MtVernon-South	72%	71%	14.6

- iphone2
- W8PEN-server
- freepbx
- iPhone
- CITADELBBS

Previous Neighbors

10.167.140.6
[CITADELBBS](#)

When

Click "Self-Register":

W8PEN-BBS-SERVER

- OpenID
- Google
- Yahoo
- AOL/AIM

Log in using a user name and password

User name:

Password:

Log in

New user? Register now

Enter your call letters as your username. Then enter your choice of a password:

W8PEN-BBS-SERVER

- OpenID
- Google
- Yahoo
- AOL/AIM

New user? Register now

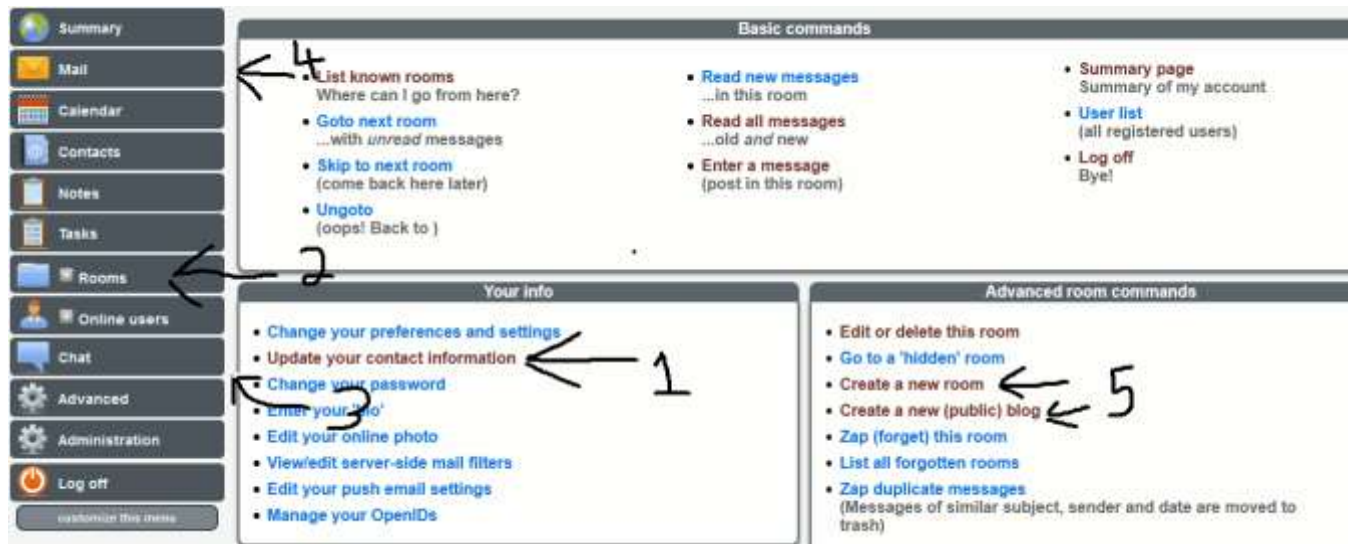
enter the name and password you wish to use, and click "New User."

User name:

Password:

New User

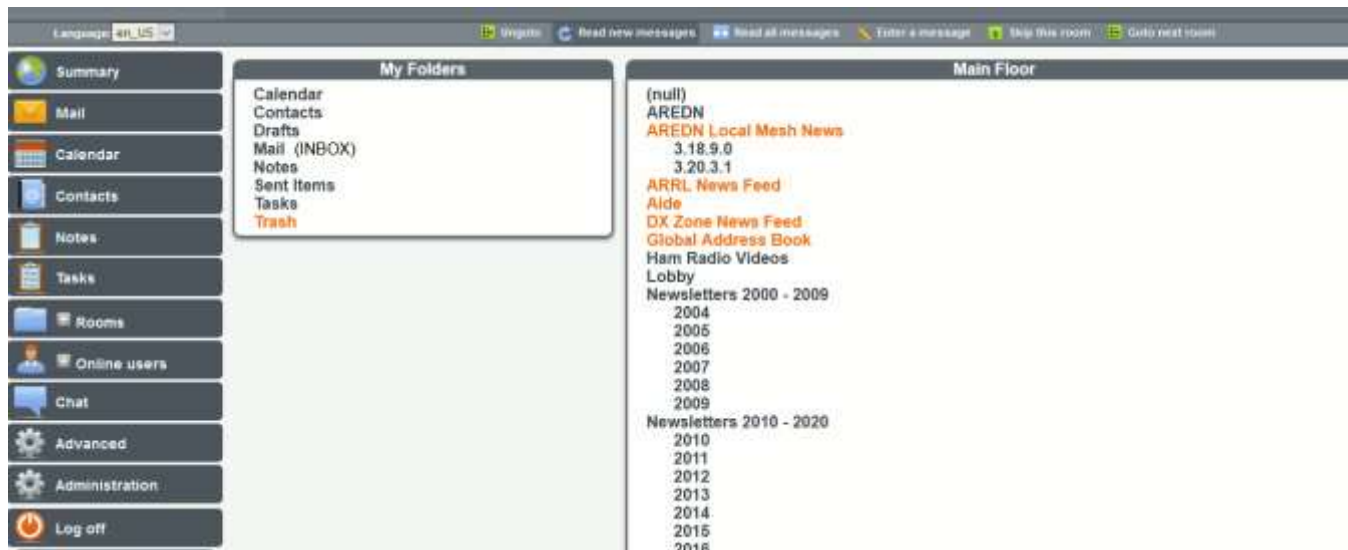
After logging in, this is the main page:



Here is where you can browse around the BBS by clicking various menu items:

1. **Update your contact information.**
2. **Rooms:** Go to various rooms.
3. **Chat:** Go to the general chat room. Chat rooms can be set up for various topics.
4. **Go to Mail:** to check received mail or send mail.
5. **Create a new room or new blog.**

As one can see, navigation is easy. Here is the “Rooms” Page:

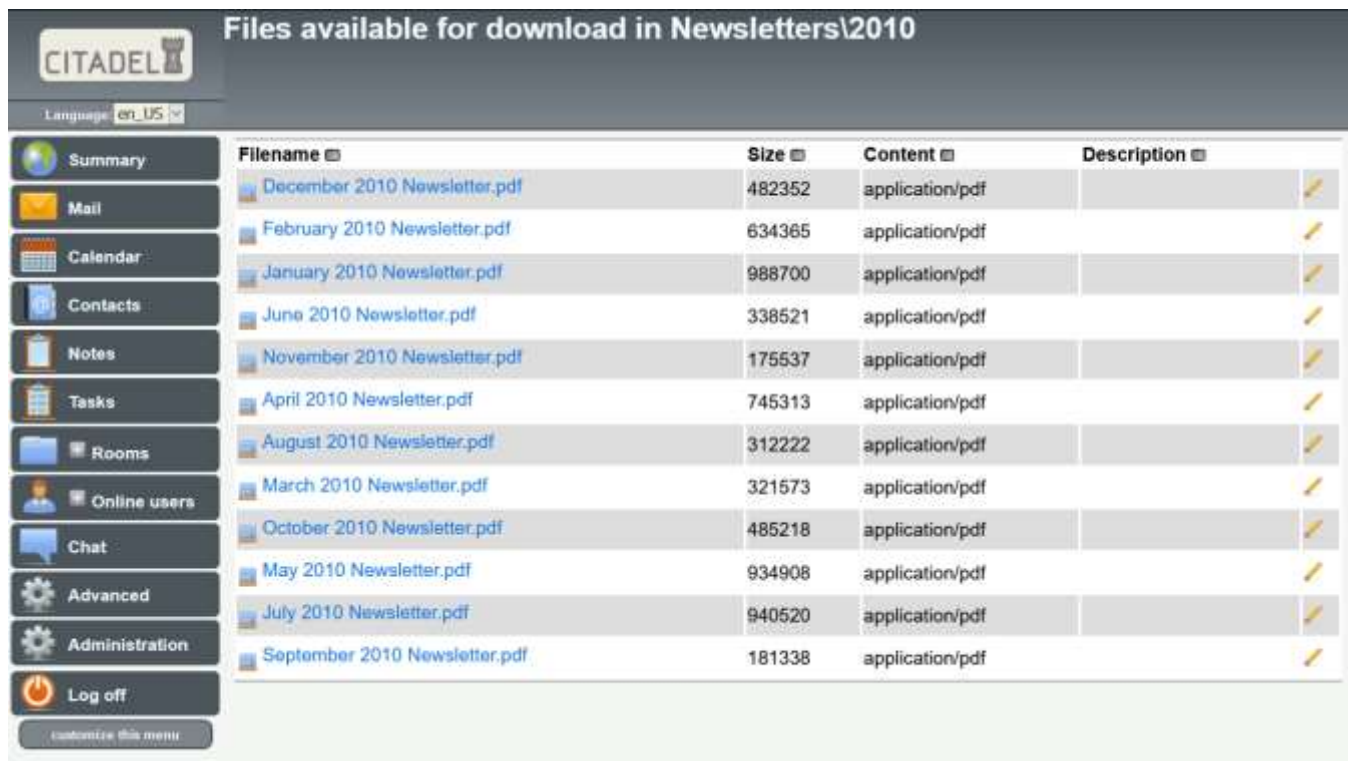


To view any item is a two-step process. Click 2010 to see 2010 Newsletters.

Then click files to see the newsletters:



To download a newsletter, simply click it.



There are many possibilities for the W8PEN-BBS. I have only covered a small portion of what can be done. I am sure that in the future I will discover things I can do with this BBS that I have not even thought about. Ideas are always welcome.

So ends part 2 of this article. Next month I will wrap this three-part article by introducing you to the main Email Server. Currently, like the email server on the BBS, this is an internal email server with no internet gateway. Hopefully in the future it can be opened to emails everywhere.

Hope you enjoyed this tour of the W8PEN-BB.

VE Testing

Frank Counts, KC8EVS



COVID has put a lot of restrictions on testing. Currently, I do not feel comfortable hosting any testing. But all is not lost. There are still some groups in Ohio that are listed as scheduling in person exams and you can see these listed here: [Find an Amateur Radio License Exam in Your Area \(arrl.org\)](#) or here [Laurel VEC](#). These are two major organizations that are giving exams, you must contact them to make sure that they are still testing as things may have changed since the posting of these dates.

There is another option, online testing.

You can find online testing sites here: [Find an Online Exam \(arrl.org\)](#) You will find several sites here that are administering online exams. Since they are online you are not restricted to a geographical area. Draw backs are they take more time, usually restricted to taking one exam at a time and the use of the laptop with a video camera and an additional camera. You can go to each site to see and read how they conduct the exam.

As the situation changes with the pandemic or when the weather gets better, we will resume in person testing in Mount Vernon.

Quick Updates



Black Fork Gravel Grinder Race

MVARC has been asked by the race organizer to coordinate emergency services and monitor various points along the race routes. This is an opportunity for us to exercise our capabilities and demonstrate our ARES involvement. We have not had an event in a couple of years, and it is time we used our amateur equipment to assist the community.

So far five MVARC members have expressed an interest in participating. This is especially troubling since there are approximately 30 club members and highlights a complete lack of participation. **If you did not speak up at the meeting and would like to participate please let Michael, KE8HGE or Bill, KD8WHQ know.** If no further interest is generated, we will have to ask other clubs in the Central Ohio area if they can assist.

To find more information and maps about the ride/race go here: <https://www.blackforkgravelgrinder.com/>

This is a gravel road race and ride spans some of the most scenic, grueling, and diverse gravel roads in Ohio. There are three route lengths offered: a **23- and 30-mile ride and 54-mile race loop.**

FCC Posts Email Address Reminder on ULS Page

The FCC is encouraging users of the Universal Licensing Service (ULS) to have an email address on file with the FCC. "Applicants are strongly encouraged to provide an email address on their license application(s), which will trigger the electronic issuance of an official copy of their license(s) to the email provided upon application grant. Per the timing specified in Rulemaking FCC 20-126, the FCC will no longer print, and licensees will no longer be able to request, hard copy license authorizations sent by mail." The FCC has not yet established the date by which an email address will be required on all applications. FCC ULS link:

<https://www.fcc.gov/wireless/systems-utilities/universal-licensing-system>

News from the FCC

The FCC has just approved new license fees for Amateur Radio. According to the FCC Report and Order released December 29, 2020. Amateur Radio license fees will cost \$35 for new licenses, renewals, vanity & all modifications. This proposal still must go through all approvals, but the fee is coming.

Morse Code Instruction

In the last couple of months, we had added resources to learn morse code. This month, Barry, N8PPF sent a link that contains seven historical morse code videos.

<https://longislandcwclub.org/historical-videos/>

General Exam Sample Test Questions:

G4D09 What frequency range is occupied by a 3 kHz USB signal with the displayed carrier frequency set to 14.347 MHz?

- A. 14.347 to 14.647 MHz
- B. 14.347 to 14.350 MHz
- C. 14.344 to 14.347 MHz
- D. 14.3455 to 14.3485 MHz

G9B06 Where should the radial wires of a ground-mounted vertical antenna system be placed?

- A. As high as possible above the ground
- B. Parallel to the antenna element
- C. On the surface of the Earth or buried a few inches below the ground
- D. At the center of the antenna

Extra Class Exam Sample Test Questions:

E2E07 Which of the following is a possible reason that attempts to initiate contact with a digital station on a clear frequency are unsuccessful?

- A. Your transmit frequency is incorrect
- B. The protocol version you are using is not supported by the digital station
- C. Another station you are unable to hear is using the frequency
- D. All these choices are correct

E7D09 What is the main reason to use a charge controller with a solar power system?

- A. Prevention of battery undercharge
- B. Control of electrolyte levels during battery discharge
- C. Prevention of battery damage due to overcharge
- D. Matching of day and night charge rates

These test questions are from the current test pools for their respective license classes. How did you do? The answers are on Page 18. Practice tests for all license classes can be found here: <https://www.qrz.com/hamtest/>

We still have a need for a future MVARC meeting location so if you know of a suitable room please let any club officer know what may be available.

Your 2021 club dues are due. There is a membership form located on page 18 which contains information regarding amount and where to send your 2021 dues payment. There are no changes to the 2021 membership dues.

Speaking of club dues, are you an ARRL member? If you want to join or need to renew your membership you can do it online here: <http://www.arrl.org/membership>.

Editors Notes



To All: 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.

Also, if you haven't sent in your 2021 dues by the time you read this **you are LATE**. Heads up, those that have not paid by the end of January will not be on the email distribution for the February newsletter.

Frank and I would really like 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. Some thoughts are virtual ARES Round Table simulation, local SET for verification of readiness and ability to communicate throughout the county via mobile or HT radio, or you could study and test for your General or Extra class license.

How about sending us your member profile? We would like to highlight a current MVARC member each month.

Member Profile

G. Michael Jacobs, KE8HGE



I was approached in early 2017 by Knox Community Hospital Safety Director Russell Maroni, KE8GGA, about getting my Amateur Radio License. He was required to get his license as a part of his job but found that it would do him little good. In the event of an emergency, he would be operating in Incident Command in a staff role and not be available to use the radio. So he was recruiting others that would not have another fixed role during an emergency to get their license and be available during such an event for radio communications.

I took my Technician Class exam in June 2017 and received my license in time to participate in Field Day. I rode shotgun with Jim Williams (N8IBR, SK) and even logged a couple of contacts that year. I took the necessary online classes to get Level 2 status in ARES and am registered as a Knox County ARES Volunteer. I then earned my General Class license in November 2017.

In early 2019, I was asked to be the backup KCH Liaison to the Knox County EOC and attended several of their quarterly drills. COVID-19 shut those drills down, but when they resume (hopefully in 2021) I will be the lead

Liaison for KCH, as my predecessor has started working from home and will not be available for those drills. I was initiated into the Royal Order of the Wouff Hong in May 2019, at a special ceremony during Hamvention.

I have an Alinco DS-XR8 transceiver and a MFJ Tuner (that works with the Alinco's built-in Auto Tuner function), along with a power supply and a couple of antennas. My living arrangements (an apartment) do not allow me to set up a permanent antenna here, although I can set something up for use temporarily, so long as it is located behind the buildings, out of the public eye, and is not a danger to or interferes with the other residents of the complex. Given the number of dogs that get walked in that area and young children that play around the buildings on days nice enough to set something up, this is not really a practical option.

I have been slowly accumulating equipment to set up my own station for the next Field Day, including a solar cell array with a controller unit and battery. I am also pricing out a small generator -- in the "unlikely" event that the weather might not allow solar panels to work all that well.

Miscellaneous Rambling

Terry Windsor, KI8N



Another month I was not involved in radio activity. From December 31 through January 22, I was sick and quarantined. This COVID-19 really kicked me, and Cathy and we mostly slept and watched TV. Neither of us had serious respiratory issues but experienced severe flu like symptoms. We are both feeling well now, and we have gone back to work. Just pray none of you go through this.

I have been looking into connecting my Yaesu FTM-300DR dual band radio through the internet via my PC using Yaesu's SCU-40 Portable Digital Node WIRES-X Kit. Watched several YouTube videos, read Yaesu's manual and talked to some hams that are doing this. Just need to get the SCU-40 ordered.

One thing I did find on Amazon while quarantined is a book that might interest the entire male population. It is titled Everything Men Know About Women: 30th Anniversary Edition by Alan Francis and Cindy Cashman. The reviews are particularly good.

"A landmark book completely revised and updated to reveal everything men really know about the opposite sex."

"In a little more than 100 pages, Dr. Alan Francis and collaborator Cindy Cashman distill years of research and thousands of interviews to reveal the most comprehensive understanding of men's knowledge and understanding of the opposite sex in *Everything Men Know About Women*."

That is right, this book is 100 pages and is completely BLANK. Not to worry there is also a companion book, Everything Women Know About Men: The Best Funny Gift For Women by Dr. Juliet May. It is also 100 blank pages.

This month I continued reading monthly newsletters from around Ohio that Tom, WB8LCD posts on the ARRL Ohio Section web site. Been interesting reading what other clubs are doing and how they are meeting during this pandemic time. https://arrl-ohio.org/club_news/index.html


Stay safe everyone!

Amateur Radio Antenna Length Chart

AMATEUR RADIO ANTENNA LENGTH CHART					
	FREQUENCY (Mhz)	1/4 λ (Feet)	1/2 λ (Feet)	1 λ (Feet)	1/2 λ Inv Vee 90° (Feet)
160 METERS	1.800	130' 0"	260' 0"	558' 4"	257' 5"
	1.850	126' 6"	253' 0"	543' 3"	250' 5"
	1.900	123' 2"	246' 4"	528' 11"	243' 10"
	2.000	117' 0"	234' 0"	502' 6"	231' 8"
80 METERS	3.500	66' 10"	133' 9"	287' 2"	132' 5"
	3.750	62' 5"	124' 10"	268' 0"	123' 7"
	3.900	60' 0"	120' 0"	257' 8"	118' 10"
	4.000	58' 6"	117' 0"	251' 3"	115' 10"
40 METERS	7.000	33' 5"	66' 10"	143' 7"	66' 2"
	7.150	32' 9"	65' 5"	140' 7"	64' 10"
	7.300	32' 1"	64' 1"	137' 8"	63' 6"
30 METERS	10.100	23' 2"	46' 4"	99' 6"	45' 10"
	10.150	23' 1"	46' 1"	99' 0"	45' 8"
20 METERS	14.000	16' 9"	33' 5"	71' 9"	33' 1"
	14.150	16' 6"	33' 1"	71' 0"	32' 9"
	14.300	16' 4"	32' 9"	70' 3"	32' 5"
	14.350	16' 4"	32' 7"	70' 0"	32' 3"
17 METERS	18.068	12' 11"	25' 11"	55' 7"	25' 8"
	18.168	12' 11"	25' 9"	55' 4"	25' 6"
15 METERS	21.000	11' 2"	22' 3"	47' 10"	22' 1"
	21.200	11' 0"	22' 1"	47' 5"	21' 10"
	21.450	10' 11"	21' 10"	46' 10"	21' 7"
12 METERS	24.890	9' 5"	18' 10"	40' 5"	18' 7"
	24.990	9' 4"	18' 9"	40' 3"	18' 6"
10 METERS	28.000	8' 4"	16' 9"	35' 11"	16' 7"
	28.500	8' 3"	16' 5"	35' 3"	16' 3"
	29.700	7' 11"	15' 9"	33' 10"	15' 7"
6 METERS	50.000	4' 8"	9' 4"	20' 1"	9' 3"
	54.000	4' 4"	8' 8"	18' 7"	8' 7"
2 METERS	144.000	1' 8"	3' 3"	7' 0"	3' 3"
	148.000	1' 7"	3' 2"	6' 9"	3' 2"

Antenna length calculations are based on the following formulas:
 1/2 wave dipole (feet) = 468/frequency in Mhz
 Full wave loop (feet) = 1005/frequency in Mhz
 Inverted Vee with 90 degree included angle is 90% the length of 1/2 wave dipole

Note:
 Cut wire slightly longer to allow for connecting insulators and pruning.
 Height above ground, nearby wires, trees, etc. will change tuning slightly.



MVARC Calendar

February

2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 4:45 PM Dinner at Southside Diner	4	5 10:00 AM Breakfast Roundtable meeting on K8EEN 146.79	6
7 9:00 PM ARES Sunday Night Net on K8EEN 146.79 MHz	8 7:00 PM MVARC Monthly Meeting	9	10 4:45 PM Dinner at Southside Diner	11	12 10:00 AM Breakfast Roundtable meeting on K8EEN 146.79	13
14 9:00 PM ARES Sunday Night Net on K8EEN 146.79 MHz	15	16	17 4:45 PM Dinner at Southside Diner	18	19 10:00 AM Breakfast Roundtable meeting on K8EEN 146.79	20
21 9:00 PM ARES Sunday Night Net on K8EEN 146.79 MHz	22	23	24 4:45 PM Dinner at Southside Diner	25	26 10:00 AM Breakfast Roundtable meeting on K8EEN 146.79	27
28 9:00 PM ARES Sunday Night Net on K8EEN 146.79 MHz						

Membership Form

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 to an MVARC 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. Membership dues are \$15.00 for personnel who are retired, over 65 years of age, additional members in the same family, or who do not hold an active FCC Amateur License.

Mount Vernon Amateur Radio Club
PO Box 372
Mount Vernon, OH 43050

Name: _____ Call Sign: _____

Street or PO Box: _____

City: _____ State: _____ Zip: _____

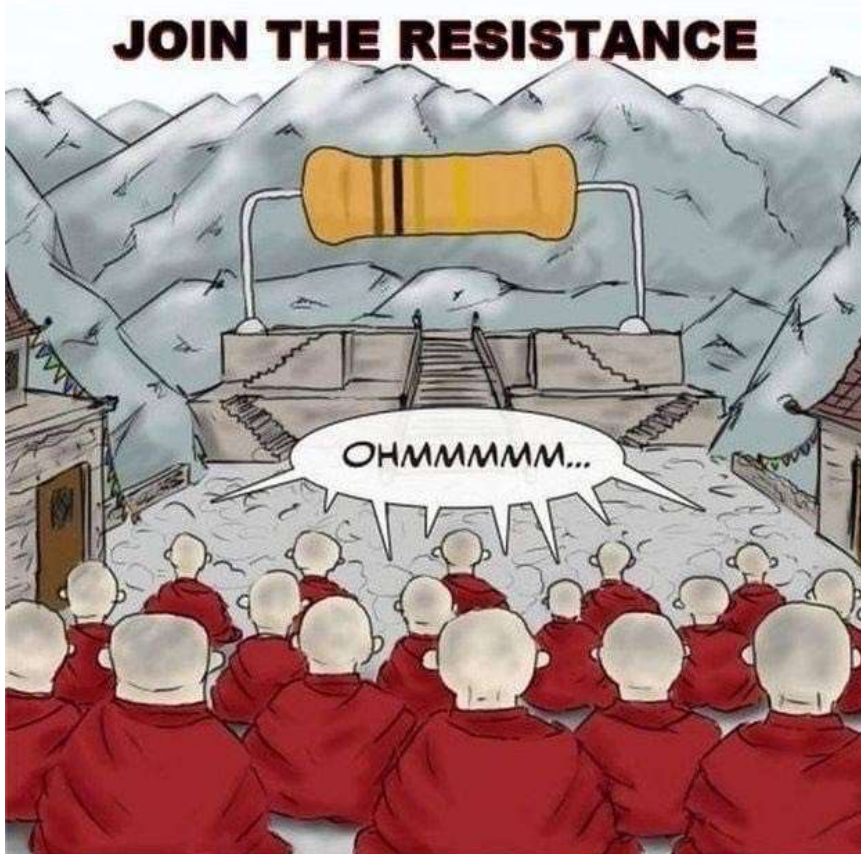
Phone: _____ License Class: _____

Email Address: _____

ARRL Member (Y/N): _____

**Suggestions for possible meeting programs:

Final Takeaway



When you ask me what I am doing today, and I say “**nothing**,” it does not mean I am free. It means I am doing nothing.

When you do squats, are your knees supposed to sound like a goat chewing on an aluminum can stuffed with celery?

When I say, “the other day,” I could be referring to any time between yesterday and 15 years ago.

My luck is like a bald guy who just won a comb!

Sometimes, someone unexpected comes into your life out of nowhere, makes your heart race, and changes you forever. We call those people cops.

Answers to sample test questions on page 11.

G4D09: B (14.347 to 14.350 MHz)

G9B06: C (On the surface of the Earth or buried a few inches below the ground)

E2E07: D (All these choices are correct)

E7D09: C (Prevention of battery damage due to overcharge)