March 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 March 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. 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 lists events around Ohio.

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

MVARC President: And now for a Word!

G. Michael Jacobs, KE8HGE

Welcome to March!

With any luck, the worst of our Winter is now behind us and Spring is getting ready to, well, spring.

Certainly, Texas is hoping for that right now. As I am working on this version of my monthly missive, they are starting to come out from under a nearly statewide power outage while in the middle of an extended period of unseasonably cold weather. Southeastern New Mexico is experiencing rolling blackouts caused by a sharp increase in power demands. ARES volunteers in both states have stepped up to cover emergency communications, accident reports, and blackout tracking, as well as health and welfare messages. When all else fails...

I am looking forward to the events we have coming up later this year: The Gravel Grinder, Field Day, Ohio State Parks on the Air, and the launching of Knox County Parks on the Air. These all promise to be great events, and the more people that we have out there, the better they will be. If anyone is interested in participating, contact Don (W8PEN), Frank (KC8EVS), or myself directly or through info@mvarc.net.

While getting on the radio is always fun, it is the people that I find I am missing the most. I hope to see you out there this year.

73.

Remembrances

The members of Mount Vernon Amateur Radio Club send our prayers, condolences, and sympathy to Bill Bradley, KC8BB on the passing of his wife Carolyn. She left this world on February 28, 2021 to go to our perfect home. Bill we are all deeply sorry for your loss.

February 8, 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 8 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 Treasurers report 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)

Everything seems to be running well; there have been no changes from last month. Both repeaters and the MESH net are running as expected.

Bill (KD8WHQ) said that for the Sunday Night ARES Net he had problems accessing the repeater using EchoLink; logins by PC, smart phones okay; Don (W8PEN) will reboot the EchoLink system tonight after the meeting.

ARES (Bill Stroud KD8WHQ)

ARRL is dropping ARES Connect later this year. The ECs for Ohio District 5 will be meeting to come up with a consistent way for our district to log activities.

Frank (KC8EVS) said that Skywarn is going virtual with their Spotter Training. Classes may be starting up next week, you need to sign up online. Interested persons can email Frank (KC8EVS) or Bill (KD8WHQ) for sign up information. You can also get schedule information at: https://www.weather.gov/cle/SKYWARN_schedule.

Old Business

Field Day (Don W8PEN)

No updates. Frank (KC8EVS) will be checking with Apple Valley to see if we can set up there again this year.

Knox County Parks on the Air (Frank KC8EVS)

No updates. Frank has called Knox County to let them know what we want to do but has not heard back from them yet. He is also still looking for additional volunteers.

Don (W8PEN) added himself to the list of volunteers and suggested getting together to discuss any rules and rewards for the event.

Red Cross

I have reached out to Doug Peach regarding their set up at the Red Cross' new location but have not heard back from him.

Technician License Class

Mount Vernon Public Library should be available, once it is open again to the public. Should I reach out to the Salvation Army? Are there other location suggestions?

Black Fork Gravel Grinder

Mohican Wilderness Campground; May 1

KC8EVS, W8PEN, KI8N, W8DOH, KE8HGE have already expressed an interest in supporting this effort.

Per Matt Simpson, they are looking to have the start/finish line and both aid stations manned by radio personnel, with possible another 1 or 2 "roving reporters" at certain points along the race. We may also be tasked with contacting either Danville or Loudonville EMS in the event they are needed.

We should do a "walk through" in late March or early April to make sure our radios will reach where they need to and sort out any last-minute protocols. https://www.blackforkgravelgrinder.com/

Larry Howell (AC8YE) added his name to the list of volunteers.

New Business

Bill (KD8WHQ) will be at a meeting Wednesday morning (Feb 10) meeting with Mark Maxwell, the County Commissioners, and others; he will bring up the Gravel Grinder and if they have any suggestions on how we should make emergency calls.

Coming Events

ARES Conference is coming in April. There is no word on if/how this Conference will be taking place this year.

NVIS Day is Saturday, April 24, but I am not sure if there will be any interest in doing this.

June 26/27 is ARRL Field Day

Ohio State Parks on the Air is September 11

Social Updates (G. Michael Jacobs KE8HGE)

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

Friday Morning Breakfast Net on the K8EEN Repeater at 10:00am

Meeting Adjourned

No further business and without objection, Michael adjourned the meeting, and the repeater net was closed at 7:33 PM. Meeting Minutes recorded by Michael, KE8HGE.

Getting Started with the MVARC Local Mesh Network - Part 3

Don Russell, W8PEN

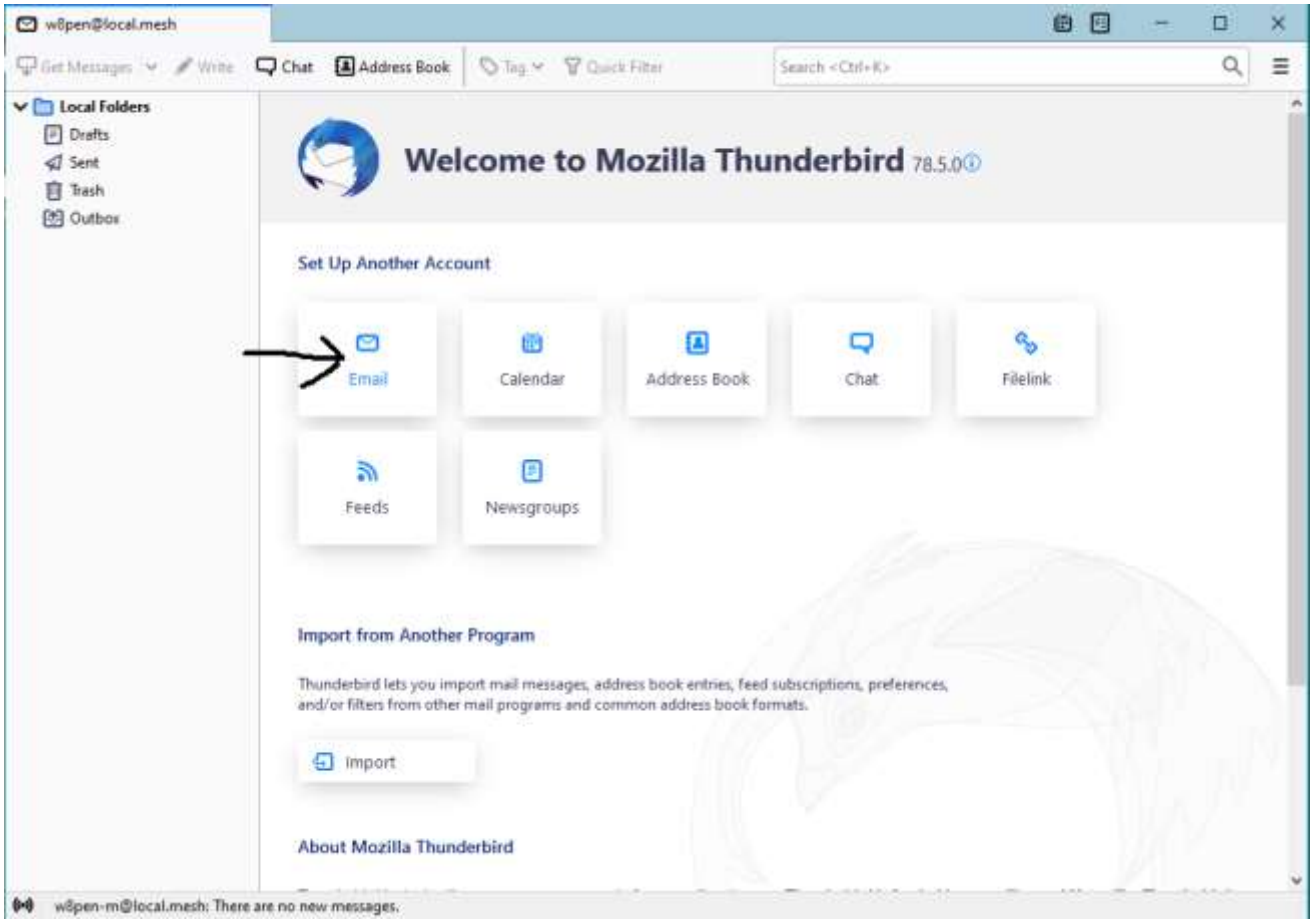
Last month we learned about the W8PEN-BBS and how to register, check in, move around the rooms, and create your own rooms. That was fun. Let us continue with this tour of our local mesh network by looking at how we set up an email client to send and receive emails from the mesh network. Currently, no messages are being sent via the internet, so this will be all local stuff for now. In the future, I hope to allow emails to and from the internet. All I must do is figure out how to do that. Lol. Just about any email client that lets you set up for mail POP3 and SMT Servers can be used. I use Mazilla Thunderbird, but there are others out there that work pretty much the same. This example uses Thunderbird. Since setting up an email client may slightly differ between email clients, I cannot guarantee results with other email clients. However, I am sure we can figure out other email clients if we need to.

You will need to obtain a username, email address, and password from me, the mail server administrator. Username will always be your call. Your email will always be yourcall@local.mesh. My mesh email is w8pen@local.mesh.

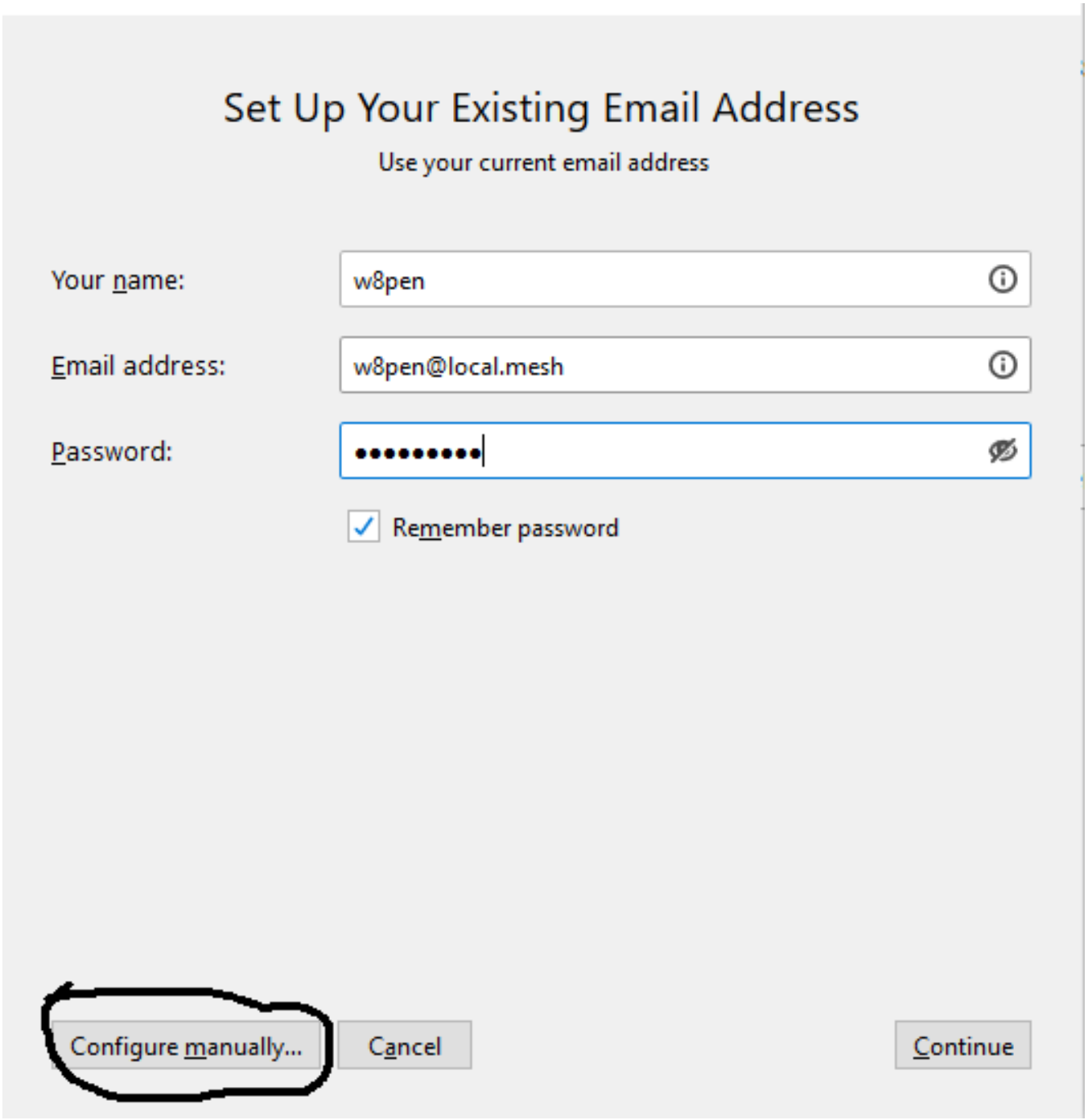
First, download and install Thunderbird email client:

https://www.filepuma.com/search/thunderbird/#gsc.tab=0&gsc.ie=UTF8&gsc.sort=&gsc.q=thunderbird

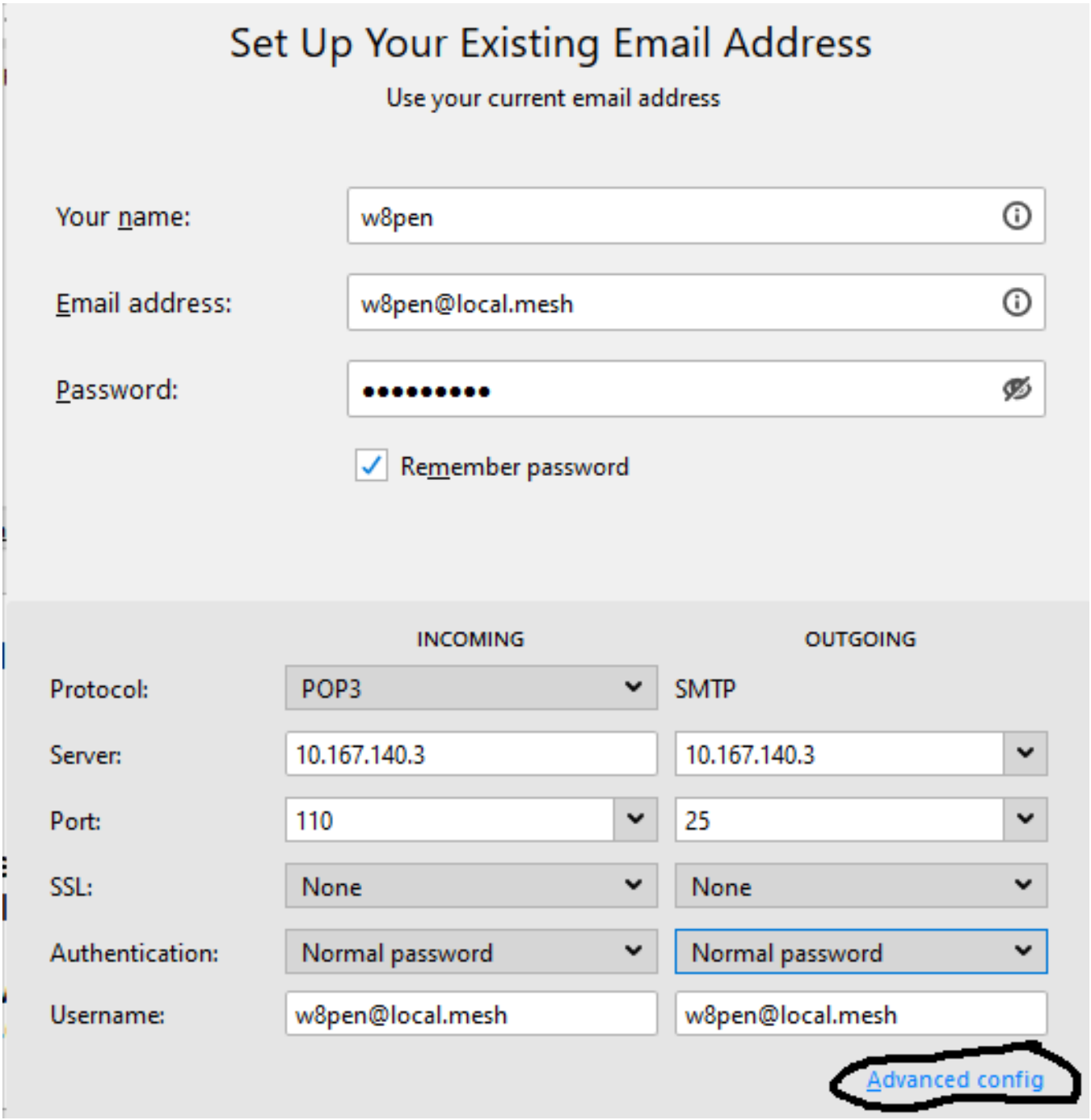
Then, run thunderbird and you should see this screen:



Clicking “email” sends you to this screen:



Fill in your name (call), email address, and password, as in the example above. Then click “Configure manually”.



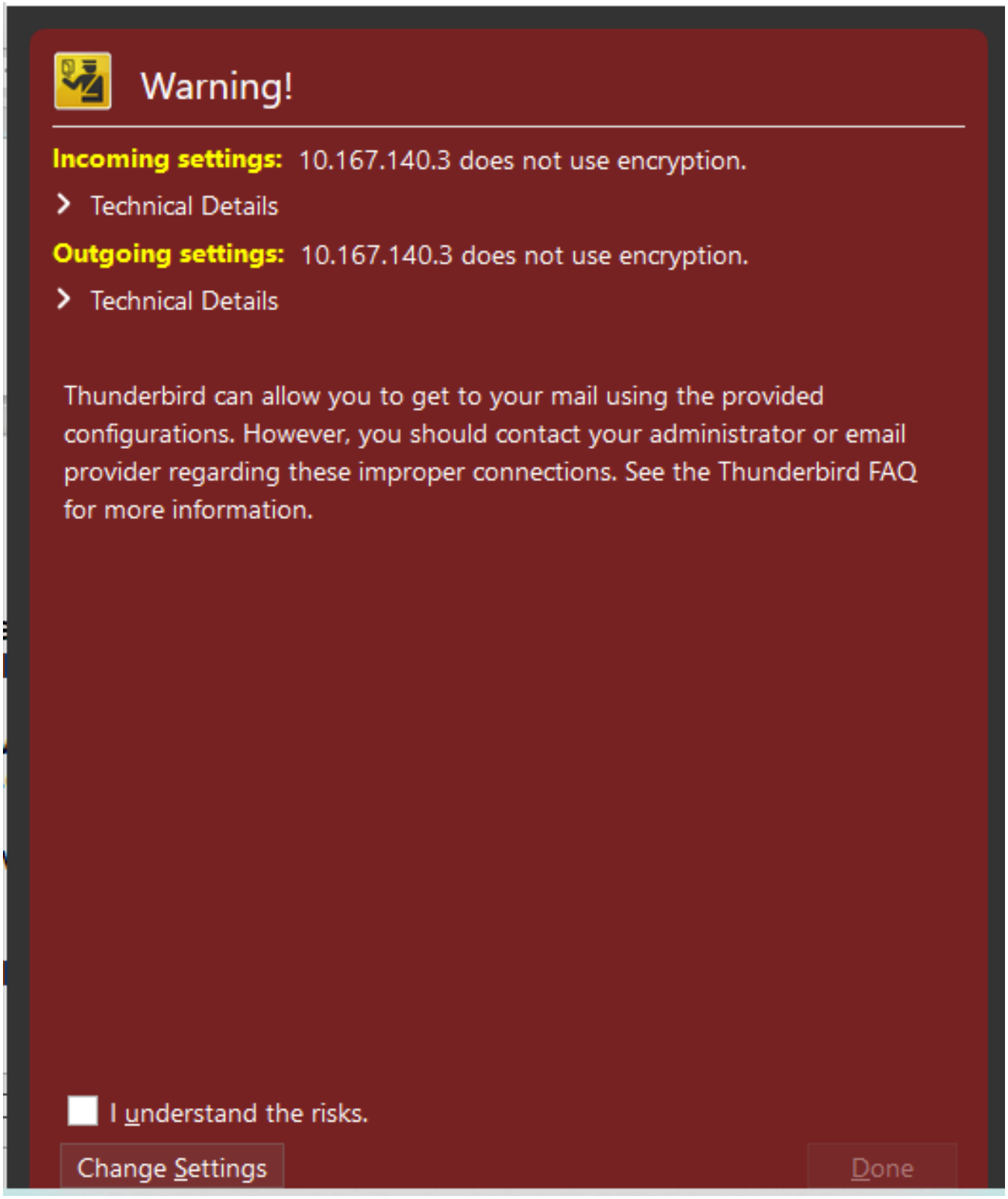
In the configure screen, “incoming” always shows “IMAP”. Change this to POP3 via the drop-down menu. “outgoing” will always be “SMTP”.

For the “Server”, we will use the IP address of the mail server. So, in both columns enter the IP address of 10.167.140.3

Incoming POP3 port will be 110, and outgoing SMPT port will be 25. Enter “none” in both columns of SSL.

Finally, enter “Normal Password” in both columns of Authentication. Now click “Done”

You will see this warning screen:



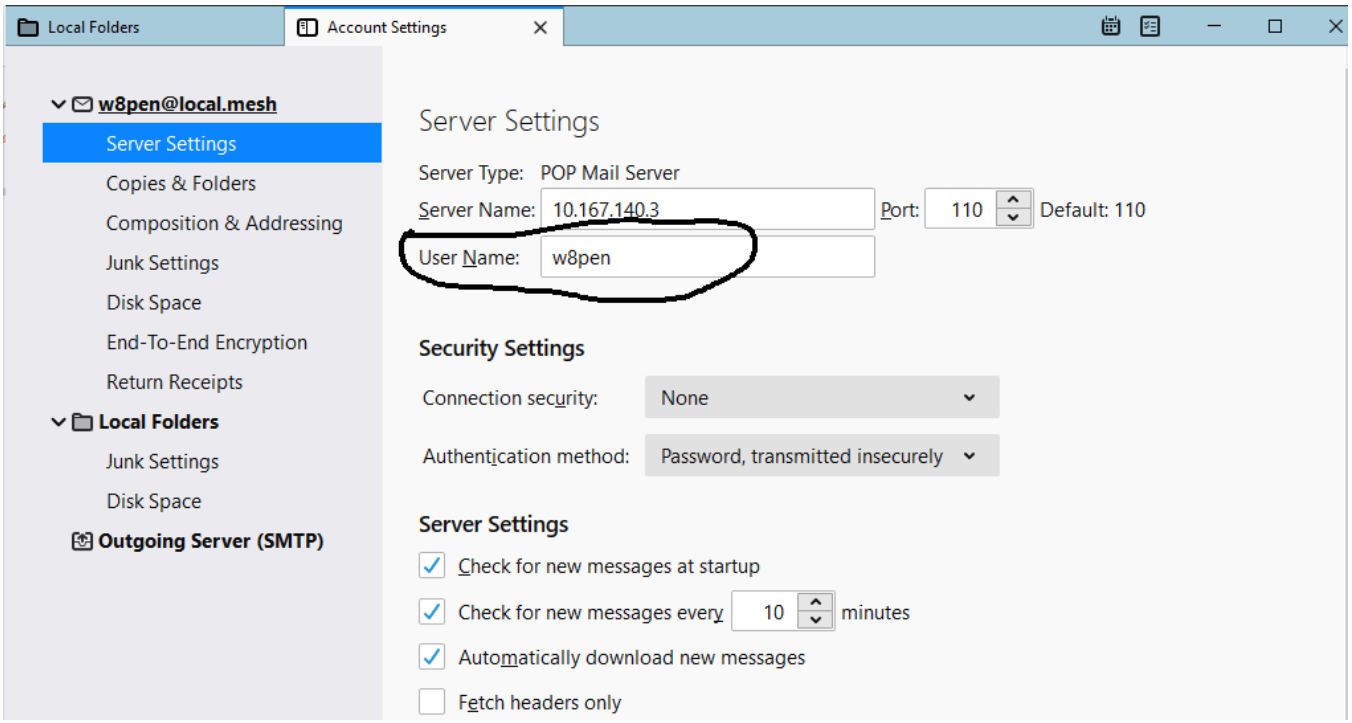
No worries here. Due to FCC regulations, hams are not allowed to use encryption on the RF link of a mesh node. Since this email server is not connected to the internet there is really no need for encryption. This screen

simply warns you that messages you send will not be encrypted. So, click “I understand the risks” then click “done”.

Now the client will check and see if things are set up right. Well, we are not yet there, so you will see an error message: “unable to log in at server. Probably wrong configuration, username, or password”.

Click “advanced configuration at the bottom right. Here you get another message saying the account will be set up even though there is a problem. Click “OK”.

The last screen that needs attention is shown below. For some reason, Thunderbird always sets the name as “yourcall@local.mesh. In server settings, change this to just your callsign, as circled.



Now you are all set to go. If you have any messages waiting, they should be downloaded.

Admittedly, this set up is a bit complicated. Just remember, you can contact me for help. I would love to see some use made of this email server.

To test the mail server, send yourself an email. Or send me an email and I will reply to it.

This email server will come in handy in any situation where we can make use of the mesh network. I envision several “Mesh Go Boxes” that include a computer, printer, mesh node, and antenna. I think the club has everything needed except the printer, which can be bought brand new for a reasonable price.

I hope you enjoyed this three-part series on our local mesh network and have a better understanding as to what we are trying to do with the system.

There is a Part 4 coming. In Part 4, I will describe out PBX phone system, which is working rather well at the time. Bottom line is that you can connect an IP phone to the mesh network and have VOIP, Voice Over Internet Protocol. We have several phones out there being tested as we speak. An IP phone is another item that needs included in a mesh “Go Box”. You can expect to see Part 4 sometime in the Spring.

VE Testing

Frank Counts, KC8EVS

COVID has put a lot of restrictions on testing. Currently, I do not feel comfortable hosting any testing. 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.

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

This is a gravel road race and ride that 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 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.

https://cwops.org/cw-academy/

General Exam Sample Test Questions:

G2D01 What is the Volunteer Monitoring Program?

A. Amateur volunteers who use their station equipment to help civil defense organizations in times of emergency
B. Amateur volunteers who are formally enlisted to monitor the airwaves for rules violations
C. Amateur volunteers who conduct frequency coordination for amateur VHF repeaters
D. Amateur volunteers who conduct amateur licensing examinations

G9D04 What is the primary purpose of antenna traps?

A. To permit multiband operation
B. To notch spurious frequencies
C. To provide balanced feed-point impedance
D. To prevent out-of-band operation

Extra Class Exam Sample Test Questions:

E4C12 Which of the following has the largest effect on an SDR receiver's dynamic range?

A. CPU register width in bits
B. Anti-aliasing input filter bandwidth
C. RAM speed used for data storage
D. Analog-to-digital converter sample width in bits

E9C05 Which of the following is a type of OCFD antenna?

A. A dipole fed approximately 1/3 the way from one end with a 4:1 balun to provide multiband operation
B. A remotely tunable dipole antenna using orthogonally controlled frequency diversity
C. A folded dipole center fed with 300-ohm transmission line
D. A multiband dipole antenna using one-way circular polarization for frequency diversity

These test questions are from the current test pools for their respective license classes. How did you do? The answers are on Page 20. 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.

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.

The ARRL Ohio Section Journal published weekly by Tom, WB8LCD has had articles by John Ross, KD8IDJ the Public Information Coordinator asking for annual newsletter contest submissions. We would like your assistance selecting two monthly newsletters from 2020. Let us know your favorite editions and we will select two and get them sent to John.

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. This month we profile Don Russell, W8PEN.

Member Profile

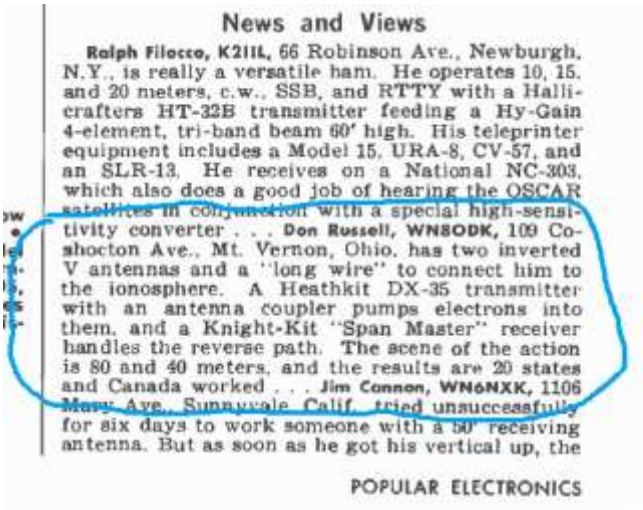
Don Russell, W8PEN

I was introduced to Ham Radio in1963 at Brenning's News Stand on West Vine Street in Mt. Vernon, Ohio. Brenning's carried the latest comic books and various magazines. I was in the seventh grade at the time, and a regular customer, mostly buying the latest comic book.

Being quite bored with looking at comic books, my eyes wandered to an issue of "Popular Electronics" magazine. Paging through this magazine, I found various electronic circuits that I certainly did not understand. Many DIY projects where in the magazine that looked interesting. However, the column that caught my attention was "Across the Ham Bands" by Herb S. Brier, WB9EGQ.

This column presented ham radio for the beginning enthusiast, that being the Novice Class licensees. Herb usually started out by discussing a topic of interest to the beginning ham and ending with an "on the air" report of various Novice stations. It was fun reading the escapades of hams. What kind of antenna and equipment they used, how many states and countries they have worked. I went to bed at night dreaming that I would someday be one of them.

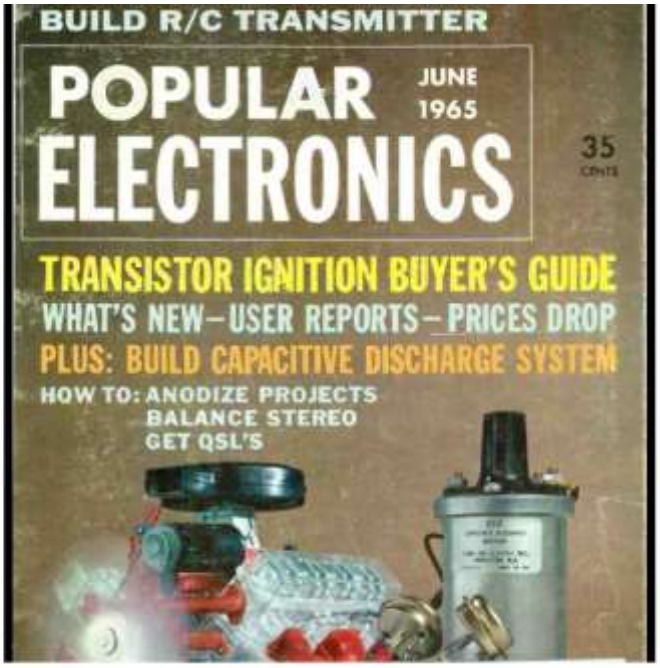
I introduced this magazine and ham radio to my brother Chuck and he too found this amateur radio hobby remarkably interesting. We both started short wave listening with the only receiver we had. Dad's AM/FM radio. Sure, was not actually shortwave, but we DX'd the heck out of that thing and collected quite a few QSL cards from broadcast stations.



News and Views

Ralph Filocco, K2IIL, 66 Robinson Ave., Newburgh, N.Y., is really a versatile ham. He operates 10, 15, and 20 meters, c.w., SSB, and RTTY with a Hallicrafters HT-32B transmitter feeding a Hy-Gain 4-element, tri-band beam 60' high. His teleprinter equipment includes a Model 15, URA-8, CV-57, and an SLR-13. He receives on a National NC-303, which also does a good job of hearing the OSCAR satellites in conjunction with a special high-sensitivity converter . . . **Don Russell, WN8ODK,** 109 Coshocton Ave., Mt. Vernon, Ohio, has two inverted V antennas and a "long wire" to connect him to the ionosphere. A Heathkit DX-35 transmitter with an antenna coupler pumps electrons into them, and a Knight-Kit "Span Master" receiver handles the reverse path. The scene of the action is 80 and 40 meters, and the results are 20 states and Canada worked . . . **Jim Cannon, WN6NXK,** 1106 Mary Ave., Sunnyvale, Calif., tried unsuccessfully for six days to work someone with a 50' receiving antenna. But as soon as he got his vertical up, the

POPULAR ELECTRONICS



From Popular Electronics June 1965. I finally made it!!

Christmas, 1963, Chuck received his first true short-wave receiver. It was a Knight Kit Span Master receiver which covered 550 Khz to 30 Mhz. Being a super regenerative receiver, it was overly sensitive, but also overly broad selectivity wise. After Chuck built the receiver kit, we spent hours listening to short wave stations and local CB stations, which were extremely popular at the time. The receiver was so broad that you could hear most of the CB chatter with one setting.

I spent the summer of 1964 building transistor receive circuits published in Popular Electronics. It was not until the fall of 1964 that I had a chance to become a ham. My mother showed me an announcement in the paper that the Mt. Vernon Amateur Radio Club was sponsoring a Novice Class for beginning hams. This course was to teach CW and electronic theory. I immediately signed up for this course. Course instructor was Al Watts. Do not remember Al's call. One of his helpers was Woody, W8PEN, whom I become good friends with through the years. I am now honored to keep Woody's call active and on the air.

I can remember the thrill of the first time I was able to copy CW on that Span Master Receiver! It was just a word here and there, but it was all starting to come together!

I got my ham license around November of 1964, proudly displaying my call, WN8ODK. However, I did not have a transmitter. All I could do was practice my Morse Code and dream about ham radio. This all-changed Christmas of 1964. My brother Chuck (now licensed as a Novice and Tech: WN8ONN / WA8ONN) bought a used Heathkit DX-35 for my parents to give me as a Christmas present. Chuck was in his first year of college and active with the Dayton University ham radio club.

First contact by ham radio ensued shortly after putting up a wire antenna. Using Chuck's Span Master Receiver and the DX-35 transmitter, I was finally "on the air". The fun has never ended.

Since receiving my license, I have been continually active in ham radio. Perhaps I will write more later, as a lot of my early ham radio days pertains to the history of the club from the mid 60's through the 80's. Let us just finish this off by saying that as far as club activities I have been Newsletter editor twice. Once in the late 60's and then in the 90's. Was President around 1970. Chuck and I built the very first Mt. Vernon repeater in the

early 70's and were the ones to obtain the current frequency pair of 146.19 MHz / 146.79 MHz. I feel I repaid my debt to my Novice class instructors by being lead Tech Class instructor for many years.

I dare say that ham radio has been the one constant in my life. And, as a hobby, is constantly changing while remaining the same. Just like life.

For those interested, you can download and read past issues of Popular Electronics here:

https://worldradiohistory.com/Popular-Electronics-Guide.htm

I found it fun looking through these old magazines and may try one of their projects if I can find the parts.

I have a few pictures that maybe I will post in a future Newsletter.

Miscellaneous Rambling

Terry Windsor, KI8N

After recovering from Covid last month we are doing well. Both of us are back to work. I however still have no sense of smell or taste.

I am continuing to investigate 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. I have ordered the SCU-40 and will begin this process next week when it is supposed to arrive via USPS. If all goes well, I intend to write an article on how to connect and how I am using it.

I have noticed via my experience as a Gigaparts chat person how lacking Elmers are in amateur radio. Way too many new hams that have no idea what they want/need to begin this hobby. It also seems there are a lot of people that do not like to do their own research on radios, antennas, and connecting everything together. It would be great if hams took the time to read the manufacturers documentation. Chatting has kept me busy when the weather was just too bad to be out and I am learning a lot from assisting everyone else.

This month I continued reading monthly newsletters from around Ohio that Tom, WB8LCD posts on the ARRL Ohio Section web site. Still interesting seeing how their newsletters are formatted, what they contain, 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!

Common Ham Radio Q Signals

Hams use three-letter Q *signals* on every mode and even in face-to-face conversation. Here are the Q signals most commonly used in day-to-day operation. Each signal can be a question or an answer, as shown in the Meaning column.

Q Signal	Meaning
QRL	Is the frequency busy? The frequency is busy. Please do not interfere.
QRM	Abbreviation for interference from other signals.
QRN	Abbreviation for interference from natural or human-made static.
QRO	Shall I increase power? Increase power.
QRP	Shall I decrease power? Decrease power.
QRQ	Shall I send faster? Send faster (__words per minute [wpm]).
QRS	Shall I send more slowly? Send more slowly (__wpm).
QRT	Shall I stop sending or transmitting? Stop sending or transmitting.
QRU	Have you anything more for me? I have nothing more for you.
QRV	Are you ready? am ready.
QRX	Stand by.
QRZ	Who is calling me?
QSB	Abbreviation for signal fading.
QSL	Did you receive and understand? Received and understood.
QSO	Abbreviation for a contact.
QST	General call preceding a message addressed to all amateurs.
QSX	I am listening on ___ kHz.
QSY	Change to transmission on another frequency (or to ___ kHz).
QTH	What is your location? My location is ____.

MVARC Calendar

March 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	29	30	31 4:45 PM Dinner at Southside Diner			

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: _____

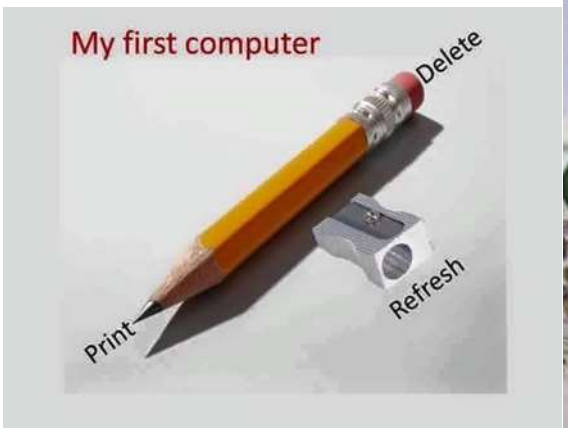
Email Address: _____

ARRL Member (Y/N): _____

**Suggestions for possible meeting programs:

Final Takeaway

I had my patience tested, I'm negative!



Don't bother walking a mile in my shoes. That would be boring. Spend 30 seconds in my head. That'll freak you right out!

Age 60 might be the new 40, but 9:00pm is the new midnight!

Answers to sample test questions on page 12.

G2D01: B (Amateur volunteers who use their station equipment to help civil defense organizations in times of emergency)

G9D04: A (To permit multiband operation)

E4C12: D (Analog-to-digital converter sample width in bits)

E9C05: A (A dipole fed approximately 1/3 the way from one end with a 4:1 balun to provide multiband operation)

Market Place

A new column dedicated to amateur radio items you have, do not need, and would like to sell, trade or give-away.

- Yaesu FT-60R; dual band 5-watt HT new in the box and never used. Includes
  - PA-48B charger
  - YHA-58 antenna
  - FNB-83 battery
  - SBH-13 charging stand
  - Belt clip and Operating Manual

  $150.00 Contact Terry Windsor ki8n.tw@gmail.com