



Ham Radio Rocks

The Mt. Vernon Amateur Radio Club November, 2014 Newsletter



Meetings are held the 2nd Monday of each Month at 7:00 PM at the Knox County Chapter of the American Red Cross, 300 N. Mulberry Street, Mt. Vernon, Ohio

Local Ham Community

K8EEN Repeater: 146.790 Mhz (-600 KHz With PL of 71.9 Hz)
KD8EVR Repeater: 442.100 Mhz (+5Mhz With PL of 71.9 Hz)

Sunday Night ARES Net at 9:00 P.M. on The K8EEN Repeater
Wednesday Night Social Net at 9:00 P.M. on the KD8EVR Repeater



Program for November Meeting Announce

President Jim Jennessee, KD8UT, announced that the November program would be conducted by Gary Sanders, N8EMR. "Introduction to Arduino Micro Controllers for the ham radio operator".

Microcontroller technology has exploded in popularity among ham radio operators. The new generation of single-board microcontrollers is easier than ever to use, bringing together hardware and software for project-building radio amateurs can easily dive into. With inexpensive microcontroller platforms—such as the popular open-source Arduino board—readily available parts, components and accessory boards, the possibilities are limitless: beacon transmitters, keyers, antenna position control, RTTY and digital mode decoders, waterfall displays, and more. (From the ARRL catalog for the new book: "Ham Radio for Arduino and Picaxe").

Please join us for this interesting program. Maybe it will give you an idea for a project around the shack.

Annual Christmas Dinner and December Club Meeting set

The 2014 Annual Dinner and Meeting will be held on Sunday, December 7th at 6:00 P.M. at the Parkside Restaurant and Tavern.

We have selected this location because of its ability to host

The next meeting of the Mt. Vernon Amateur Radio Club will be Monday, November 10th at 7:00 P.M. in the Red Cross Training Center, 300 North Mulberry Street, Mt. Vernon, Ohio.

Please remember to check into the long running Sunday Night ARES net at 9:00 P.M. on the K8EEN 2-meter Repeater.

Every Wednesday at 5:00 PM, MVARC club members meet at Wendy's, 522 South Main Street, Mt. Vernon, Ohio. Dinner Coordinator Dick Huggins, N8RDH, reports good turnouts for this event. Come share dinner with friends, or make new friends, by attending one or all of these events.

Retired club members meet each Friday at 10:00 AM for a breakfast at Hardy's, 998 Coshocton Ave., Mt. Vernon, Ohio.

Come enjoy some good Ham Radio Fellowship and conversations. Oh, you don't have to be retired to join us. Contact Emery Bennett W8TW or David Byrd KD8RST for more information.

Join MVARC club members every second Saturday of the month for breakfast. Breakfast Coordinator Arlin Bradford, KD8EVR, reports good turnouts for this event.

*****The next Breakfast will be Saturday, November 8th at 9:00 AM at Allison's Finer Diner, 11587 Upper Gilchrist Road, Mt. Vernon, Ohio*****

our group in a private room. The room is available for parties of between 30 and 60 attendees.

For this reason we are requesting that you make your reservation by returning the Registration form Mailed to all members earlier, along with a check for your meal(s) by November 20th. Please make checks payable to the *Mount Vernon Amateur Radio Club* and indicate on the memo line that this check is for the Annual Dinner. (You might want to include your 2015 dues at the same time!).

If you lost your registration form or for some reason did not receive one, please use the one printed in this Newsletter on page 9.

MINUTES OCTOBER 13TH, 2014 MVARC MEETING

Meeting called to order at 7:11 PM by KD8UT president.

KC8UR-Treasurer's report read and approved.

N8IBR-No Secretaries report as no formal meeting was held in September.

OLD BUSINESS

KD8PSK and KD8HSA gave a progress report on the go box project.

KB2SAI gave a progress report on the new communications room and equipment being assembled at the county EMA office.

NEW BUSINESS

KD8UT stated he was forming a nomination committee to present a slate of nominees for next year's club officials to be presented at the November meeting, with elections to be held at the December meeting. If you would like to serve on the committee, or have a nomination in mind, contact KD8UT.

KD8UT stated the December dinner meeting would again be held at the Parkside Restaurant, on December 7th 2014, at 6 PM EST. Cost will be \$18.00 per person. We need a minimum of 30 people to secure the room. The reservation forms will be mailed to members, and will also be included in the November issue of the club newsletter. The main course choices and sides are listed on the form. The form, with your choice of main course, and payment must be returned by November 20th 2014.

A motion to write a \$100.00 deposit check to secure the reservation for the dinner was made. KD8PSK-Moved, AC8PT- Second. Motion carried.

KD8UT announced that the November meetings program would cover ARDVINO.

KC8UR announced that many of the Amateur operated Military MARS stations would be participating in a National test exercise on VHF and HF frequencies to determine their coverage capabilities. These test will be held, Monday October 27th 2014 from 8 AM EDT to 2 PM EDT. And Tuesday October 28th 2014, from 8PM EDT, to 2 AM EDT. If you can, participate in this exercise.

N8IBR reminded all that the annual Boy Scout Jamboree on the Air would be held the weekend of October 18th and 19th. He encouraged all to take the time to talk with any scouts they may hear on the air.

W8TW gave an update on KD8RST's health condition. He stated David may be having surgery Thursday October 16th 2014. He ask that all members keep David in their thoughts and prayers.

Motion to adjourn. KD8HSA-moved W8UMH-2nd. Approved. Regular meeting adjourned at 7:46 PM EDT.

We had 15 members and 1 guest present.

No 50/50 drawing this month.

The floor was then turned over to guest speaker, Stan Broadway, N8BHL, the ARRL State of Ohio Emergency Coordinator.

Stan's excellent presentation on the ARES program was wide ranged. He covered everything from the early use of Amateur radio during emergencies, to upcoming proposed changes in our states policies and regional make up.

He recommended that all ARES members take at least the ENNCOMM I training course. He also suggested that ARES members consider taking the FEMA 100, 200, 700, and 800 online courses. The FEMA courses can be completed online free of charge.

He mentioned that the state ARES was looking into holding a statewide NVIS antenna test. The idea behind this event is so that ARES groups statewide can test and evaluate which antenna, or antennas would best serve their groups coverage requirements during an actual state disaster. At present this event is planned for the latter part of April 2015.

He also stated that the state organization was considering a move to reduce the number of state wide ARES meetings from two a year, to one meeting held in the spring.

Submitted'

N8IBR Secretary MVARC

AFFILIATED CLUBS COORDINATOR REPORT

From the Ohio Section Journal, October 2014
By: John Myers, KD8MQ - ACC
kd8mq@arrl.net

Hi everyone, here at the home QTH, we are getting a handle on the fall chores, and preparing for the annual trip to PA for the QSO Party.

A lot of our local clubs are preparing for their annual elections. I doubt that it's much different in other parts of the state. It's always important for Hams to get involved, and attend their club meetings, but there's no meeting more important than that when they hold the elections of officers. The elected are the ones who will be running your club over the next year; perhaps two.

In some clubs, the folks who are elected have told me that they ran because no one else would, and just so that we'd have someone in office. Then they fulfill their duties like they are on auto-pilot. I'm sorry, but this is just wrong!

Following is a quote from the preamble of the AARC Presidents book which is handed down to each incoming President:

"Being president of any organization can be a challenge, but also can be extremely rewarding."

"You can choose to just run the meetings, and do nothing else."

"You can actively look for programs, or not."

"You can choose to do PR, or not."

"The end results will be dependent on just how much work you are willing to put into your job as club president."

Granted, if you step up and run for office, it may not be easy, but it will be rewarding. I know this from experience. By the way, I am not talking about monetary rewards here; some things are more important. So, off my soap box here, I'll wrap up this subject by reminding everyone to get that club information updated each time there is a change of any sort in your club contact info. Also, whenever your leadership changes. If you have any questions, just contact me. I can be reached via E-mail at kd8mq@arrl.net.

A few weeks ago, I made my first trip to Berea in several years. I'm impressed at how much it's grown since my last visit some 30 years ago. I sat in as an observer on the ARRL Forum, and would recommend it to anyone in a club leadership role. Our section leadership did a great job on bringing us up to speed on HR-4969. The discussion on attracting youth to Amateur Radio was similarly interesting. It was great talking to Wes, W8IZC, the president of the Mahoning Valley ARA.

Coming up on the 19th, I'm looking forward to attending the Conneaut Hamfest in the far NE corner of the state. This'll be my first time to that hamfest, though I've camped in the area. Then, on the 25th, I'm looking forward to spending some time with the folks at the Cambridge ARA.

The Massillon Hamfest will be coming up on November 2nd. As usual, it's on the same weekend as the SS-CW contest. I'll be there in an unofficial capacity as I clean out the basement and make room for more junk er. . . good stuff in the year ahead.

Thanks to the wonders of the INTERNET, John, WA8KIW has been keeping his Monday Morning Memo going even while on a trip out west. He warns us that even dipoles are not safe anymore as one of the Hams in SW OH had his stolen. The thieves even tried to strip his coax!

Thanks to the Mahoning Valley ARA for adding me to their mailing list. I just received the most recent issue of the "Voice Coil"; their monthly newsletter. MVARA just held their annual corn roast. Mark, K8MSH includes a lot of good information, including information on HR 4969.

According to "The Spark", from the Cincinnati FM Club, DMR, or Digital Mobile Radio has come to Cincinnati. The club has put a new Motorola repeater on the air on 443.400.

The Massillon ARC is in full Hamfest planning mode, preparing for their November 2nd event. This hamfest is usually a "don't miss" on my schedule. Another fund raiser that Massillon participates in is parking cars at the annual Swiss Festival in Sugar Creek. Speaking of Massillon, a team of Massillon ARC and Alliance ARC members are making plans to operate the 2015 SPAR Winter Field Day in January.

The Alliance ARC's 440 repeater came back online after a tower raising last month. This was in conjunction with a fall cookout at the KD8MQ QTH. Lots of fun was had by several local Hams; all friends & members of the Alliance ARC. The Alliance ARC is also holding a DX contest for members only, and has an upcoming Homebrew night to look forward to in a few weeks.

According to the DELARA News, edited by our own Section Emergency Coordinator, the Hams in the Delaware area are doing a lot with MESH. Not sure what MESH is? Neither was I until I heard Stan speak at the ARRL Forum in Berea.

At the October DELARA meeting, they held a "Boat Anchor Swap". Sounds like a great idea for a program at a club meeting.

I just read the Q-Fiver, newsletter of the OH-KY-IN ARS,

edited by Susie Scott, N8CGM. It mentions that our own Scott Yonally, N8SY spoke at their club meeting a couple weeks ago, and appeared at their Hamfest as well. The club has brought a second APRS Digi on line to serve the downtown, and I-75 corridor. Their November meeting will have a program on Logbook Of The World.

The Cuyahoga Falls ARC is working on holding a Two Meter FM Squares Contest next year.

The Scioto Valley ARC will be running an "Extra Hour" Special event station on the weekend of November 1st, 2nd.

Portage County ARC (PCARS) has fielded teams for the NA SSB Sprint, and the CA QSO Party. Some required antenna repairs were finished just in time for the CA QSO Party. No word on how it went, but I bet there was a full clubhouse both days. Their latest issue of the Radiogram includes an article on how to sell your surplus gear on EBay. And that's about it for this month. Keep those newsletters coming.

Till next time, 73 DE KD8MQ

Radio Activity



By Don Russell, W8PEN

In the September issue of the Newsletter I discussed the possibility of replacing the old Windows XP operating system with Linux. In fact, I had already done so on my oldest laptop just to see how it would work.

While I wanted to install a new operating system, I did not want to loose my Windows XP, as this laptop was what I called my contest computer and had all my logging software and radio control programs installed. Therefore, I decided to install Lubuntu Linux along side the Windows XP system and be able to boot whichever operating system I wished to use. This is called dual booting. Lubuntu is a small version of Linux designed for the older computers. My laptop is a good ten years old and it runs Lubuntu just fine.

Dual Booting worked out just fine. Upon turning the computer on, I am given the option of loading Lubuntu Linux, or Widows XP. I have my computer set so that when I closed the laptops lid, it would Hibernate Windows XP or Suspend Lubuntu, depending on the operating system being used when the lid was closed. I find more and more that Linux is the system I boot up.

With the really positive experience gained from using my older laptop on Linux, I was ready for my next stage. Putting Ubuntu Linux on my newer Windows 7 laptop. Ubuntu Linux is

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a full blown version of Linux that is designed to compete with computers running Windows 7 and Windows 8. Thinking about installing Ubuntu on my new laptop really made me nervous though. I had read of horror stories about other people trying to dual boot Windows 7 and Ubuntu without much success and having to reinstall Windows 7 because the attempt messed up the hard drive. My new laptop did not come with system install disks, nor did it give me the option to make any. All I had was a Windows 7 repair disk. So precautions had to be made before proceeding with an attempt to install Ubuntu Linux along side Windows 7.

I found free disk imaging software on the INTERNET. This allowed me to do a complete image of my hard drive. Theoretically, if I lost Windows 7 during my attempt to install Ubuntu Linux alongside Windows 7, I would be able to copy this image file back onto the hard drive and be exactly where I had started. I used 19 DVD disks to make my image backup and thought I was ready to go..... WHAT A DISASTER!

After several attempts with the program G-Parted, which was supposed to let me partition my hard drive to allow room for the new operating system, I thought I finally had things ready to go. So, I attempted to install Ubuntu. Didn't work..... And Windows 7 would not boot up..... DARN!

After several days of trying to repair my Windows 7 with no success (I thought I was close a couple of times), I finally decided to go ahead and use the disk imaging software to fix things. I had calculated that this would take about eight hours to do. So, started the recovery process. The second disk could not be read by my DVD drive! CRAP! Tried it in my other laptop and it worked. But could not get the DVD working on the laptop that needed fixed. After some thought, I used the other computer to make a copy of the DVD. This actually worked and I was able to load recovery disk two. Disk five would not load in the new computer! DOUBLE CRAP! For some reason, this one would load into my other computer, but I could not make a copy of it. The error report said the file was too large for the destination disk. Give me a break. Both DVD's were the same size. Hmmmm.

After a bit of thinking, I decided that with my wireless network I could use the drive on one laptop and network it to the laptop needing fixed. That way, I could access the readable DVD on the one laptop and continue with the recovery. Yes! The recovery software allowed me to do this! Onward we go.

So, alternating between the recovery laptops DVD drive and the other laptop when a disk could not be read, I was up to disk 17. Disk 17 would not load on any DVD drive I had! I had three laptops with DVD drives and non would load disk 17. I tried for hours to no avail and finally gave up.

I canceled the recovery operation. In the back of my mind I was hoping that the missing disk information was part of the recovery partition and that my Windows 7 system would still boot up. No such luck! My laptop was still dead!

Next step was to order a set of system install disks for my computer. This was fairly easy to do and total cost was only

\$30. These install disks are computer specific and can only be used on the computer they were designed for. In fact, I had to give the serial number of my computer when ordering these recovery disks.

Since I had to wait about a week for the recovery disks to arrive, I decided to go ahead and install Ubuntu Linux on the computer and see how well it ran.

I will tell you right now. I did not miss Windows 7 much. Ubuntu Linux (latest version 14.04) runs fantastically on my laptop. I had pretty much everything I needed loaded up and being used on Ubuntu Linux. I was almost regretting the day when the Windows 7 recovery disks were delivered.

That day did come however, and I could not resist the urge to get my computer back up and running with Windows 7. Oh yes, and then try again at installing Ubuntu Linux alongside Windows 7. I had done a lot of reading waiting on the recovery disks and was pretty sure I could do it this time. I actually found a step by step instruction with screen shots. Nice (I hoped).

If you wish to install Ubuntu Linux of any version, this web page with step by step instructions may be for you:

<http://dedoimedo.com/computers/dual-boot-windows-7-ubuntu.html>

This guide steps you through creating the needed partitions on your hard drive for Ubuntu Linux without destroying your partitions for Windows. For the most part, I found it easy to follow. There were still a few items that I had to figure out myself, but this guide kept me on course.

After creating the needed partitions, installing Ubuntu Linux is pretty straight forward and takes about an hour to complete.

Long story short, by following the mentioned step by step guide, I was able to get Ubuntu Linux installed alongside Windows 7 and keep both systems happy. When I turn on my computer, I get to choose which operating system I want to use. If I close the lid without turning off the computer, then whichever operating system I am using Hibernates (Windows) or suspends (Linux). When I open the lid back up, the operating system is there to use.

I will leave others to decide which operating system is better. There are lots of things one can do with Windows that cannot be done in Linux. But this is because the Linux support from software vendors are not there. After playing with Ubuntu Linux, I believe Linux can do anything better than Windows.

For example. There are a lot of Amateur Radio

software available for Linux. Many of the digital programs have been converted to Linux. Those that have not been can sometimes be run in Linux through a program called "Wine". Win is a windows emulator that allows some Windows programs to run in Linux. Not all programs are successful in running in Linux. I use N3FJP's contest software. I have tried to install the software in Linux using Wine, but have not had any success. I have a few more things to try though, so I will keep at it.

If you like watching Netflix or Amazon Prime movies, then it is a little more difficult when running Linux. Again, this is Netflix and Amazons fault for not supporting Linux. Google Chrome down-streams Netflix just fine but does not handle Amazon. I found the best way to watch movies with a Linux operating system is to use a program called Pipelight. This program installs the proper Windows plug-ins to allow a Linux browser to downstream the movies. Pipelight uses Wine to accomplish this by adding Silverlight and Flash to the Linux Browser.

Installing Pipelight is not at all difficult and it sure did solve my last problem with using Ubuntu, as I like watching movies on my computer.

So to sum this article up: I have officially adopted Ubuntu Linux as my preferred operating system and will be using Windows only if I cannot do something in Linux (like use the contest software). In fact, this months Newsletter is being edited with Libre Office Writer. This is the Linux answer to Microsoft Office. So far, it is working just fine.

Are knobs and buttons toast?



By Dan Romanchik, KB6NU

In a recent column on EETimes:

http://www.eetimes.com/author.asp?doc_id=1324283

an old colleague of mine, Martin Rowe, says, "Knobs and buttons are slowly on their way out. Get used to it." He's referring to the controls on oscilloscopes, but if he were a ham, he might just as well be talking about amateur radio transceivers, too.

We already see this happening in amateur radio. FlexRadio, and a couple of other companies, already make transceivers with no front panel controls. You must have a computer to use them.

Might we even start to see this with handheld and portable equipment? For example, how much cheaper could they make a Baofeng if to use it, you had to also have an Android or iPhone app to act as the human interface?

To be honest, I haven't really thought about this much myself. I'm enough of a dinosaur to still prefer buttons and knobs, but having to use on-screen controls certainly doesn't turn me off. Rowe claims, however, that "as the old-timers retire (or in our case as older hams become SKs), younger engineers (or young hams) will expect every user interface to function like a phone or tablet. Don't believe me? Just wait."

I got several interesting replies to this idea on my blog. Bill, AD8BC says, "What would be fun would be an open-source mobile radio. I picture an RF deck with a Raspberry Pi and touch screen for control, the Pi would simply tell the RF deck where to tune and handle the interface and scanning functions, it would ship with a stock app, but you could make your own. Built in support for SDR stuff, packet, APRS, remote operation...."

Most commenters, however, even the younger guys, still seem to prefer analog controls. Lucien, DH7LM, says, "I'm a newly licensed ham and I like both - experimenting with advanced computer stuff like SDRs and the great feeling a real radio provides!" Grant, KJ6ZZD, says, "Knobs perform some tasks better than a screen can. Knobs provide some tactile feedback that a screen just can't."

So, what do you think? Are knobs and buttons toast, or do you think there's still some life left in analog controls?

=====

When not twiddling the knobs on his HF transceiver or relatively ancient Tek 2213 analog oscilloscope, you'll find KB6NU working on updates to his "No Nonsense" study guides or blogging about amateur radio at www.kb6nu.com.



ARRL Board May Seek Member Input on 15 Meter Novice/Tech Digital Privileges

From the ARRL Letter,
Oct 23, 2014



A proposal aired at the July ARRL Board of Directors meeting endorsing additional HF digital privileges for Technicians and referred to the ARRL Executive Committee (EC) for study came in for considerable discussion when the EC met on October 4 in Memphis. The original motion by ARRL Southeastern Division Director Doug Rehman, K4AC, called for a *Petition for Rule Making* to the FCC seeking digital privileges for Techs on narrow segments of 80, 40, and 15 meters. Rehman's motion had noted that Technicians already enjoy digital privileges on 10 meters, a band with highly variable propagation that will diminish as the sunspot cycle declines.

After discussing the proposal's pros and cons, the EC put the ball back into the Board's court in a modified form: The EC recommended that the Board consider soliciting input from the membership on adding Novice/Technician data privileges within their existing 15 meter subband. In his original proposal, Rehman had pointed out that text messaging, a medium preferred by today's youth, bears "great similarity with amateur digital communications."

"This is *not* a proposal that the Board *adopt* data privileges for Techs and Novices on 15 meters as an objective, and it is most definitely *not* an ARRL proposal to the FCC," stressed ARRL CEO David Sumner, K1ZZ, a non-voting member of the EC. "That would come later, if at all, after the Board has had an opportunity to weigh membership input."

A NOTE OF THANKS

I would like to thank Don, W8PEN for the recent CW classes he held, along with the many other things he does for the club. I know the 5 of us that participated in his CW classes came

away with a better understanding of Morse Code and its usage.

I personally haven't used CW for years, and attended to regain and improve what little skill I had in the past. If you have never used CW, Don's study materials are easy to understand, and quite helpful. So don't be afraid to give it a try.

And, it doesn't require long hours of study. If you can give it 15 to 20 minutes 3 or 4 times a week, after 6 weeks or so, you should be able to converse at a rate of at least 5 words per minute. Believe me, if I can do it, so can you.

Since we finished the classes, while I still stumble with some of the punctuation, I am back around 10 words per minute, and hope to get up to a minimum of 13 to 15 words per minute.

I believe that Don has additional copies of both the CD's and answer sheets he used during the classes, and I am sure he would supply them to anyone who would like to study on their own.

Remember, CW will get through when Voice modes won't, even when band conditions are bad.

We are very fortunate to have a member like Don. Not only did he run these classes, he is our newsletter editor, organizes our Technician classes, and is one of the main folks maintaining our 2 meter repeater just to mention a few things.

So Don, we all want to thank you for this class and all of the things you do for the club.

Jim Williams N8IBR

Club Sponsored Tech Class Scheduled

The annual Technician Ham Radio Class has been scheduled to begin Thursday, January 15, 2015 and last for seven consecutive Thursday. Testing is tentatively scheduled for Saturday, February 28, 2015.

Please let friends and family members know about this opportunity to join our ranks. See the flyer on page 8 of this Newsletter. Please distribute this flyer where appropriate (with permission)).

As usual, study material will be supplied by the Mt. Vernon Amateur Radio Club and those taking this course and passing the Tech exam will receive a one year club membership.

How do Weather Spotters communicate?

When Disaster Strikes, how will you communicate?

Ham Radio

WHEN ALL ELSE FAILS...



“Whether you want to be an effective weather spotter, useful during disasters, or just prepared, you really need a ham license.”

HAM RADIO CLASSES NOW FORMING FOR THE TECHICIAN CLASS LICENSE

Date: Begins Thursday, January 15, 2015 and runs every Thursday through Feb. 26, 2015 from 7:00PM to 9:00PM. Exams will be held Saturday February 28.

Location: The Knox County American Red Cross, 300 North Mulberry Street, Mt. Vernon, Ohio. We are using the Training Center, which is the building in back of the Headquarters.

Cost: The course and course material are FREE. Exam fee is \$15.00 due at the time of the exam. Option to buy your first radio for around \$50!

Pre-Register for an early copy of the study guide. Walk ins are welcome.

Sponsored by the Mt. Vernon Amateur Radio Club. Free one year membership after taking this course and passing the exam.

Hams use Voice, Morse Code, and Digital modes to talk to the world. If you have fun with CB radio, Family Radio, or GMRS, you have to see what you can do with Amateur Radio!

Contact: Don Russell, W8PEN, w8pen@arrl.net 740-397-0249, 740-326-0476
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Jim Jennessee, KD8UT, kd8ut@arrl.net 740-397-0725

Visit our Web Page: <http://www.mvarc.net/>
Or our national club: <http://www.arrl.org/>



Membership Form

Club dues run from Jan. 1 until Dec. 31 and are collected during the last quarter of the year. You can mail in the dues to the address below or bring them to a meeting. Dues are prorated for new members at the time of application. Visit our Web Page at www.mvarc.net

Dues Schedule: \$12 regular

\$10 for second member in the same family, for those over 65 yrs. of age, and for those living outside Knox County

Mt. Vernon Amateur Radio Club, P.O. Box 372, Mt. Vernon, OH 43050

Name _____ Call-Sign _____

Street _____

City _____ State _____ Zip Code _____

Phone Number _____ License Class _____

ARRL Member (Y/N) _____ E-Mail _____

Extra Donation (Optional) _____

Members are entitled to a free MVARC E-Mail address. Would you like one? No _____ Yes _____

If yes please enter password _____

Other Comments: