



The Mt. Vernon Amateur Radio Club June, 2015 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

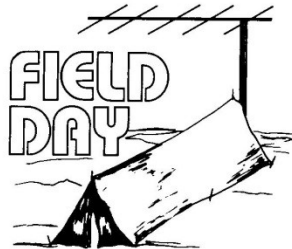
K8EEN Repeater: 146.790 Mhz (-600 Khz With PL of 71.9 Hz)
K8EEN-R Echolink Node: 809800
KD8EVR Repeater: 442.100 Mhz (+5Mhz With PL of 71.9 Hz)



Sunday Night ARES Net at 9:00 P.M. on The K8EEN Repeater
Wednesday S. Main St. Wendy's Dinner at 5:00PM
Friday Breakfasts at Hardy's at 10:00AM

JUNE MEETING TO BE HELD AT FIELD DAY SITE

The next meeting of the Mt. Vernon Amateur Radio Club will be Monday, June 8, 2015 at 7:00 P.M. **This will be a special meeting at the clubs Field Day site.** See directions to the site in this Newsletter. We will be checking out antenna and equipment locations so it should be an interesting and fun meeting. A must see if you are planning on helping with Field Day this year. There will also be a small flea market going on so bring something you want to sell. If raining, we will use one of the shelters at Apple Valley. Monitor the K8EEN repeater for more information.



What is Field Day?

Field Day is an annual Amateur Radio exercise encouraging Emergency Communications preparedness among Amateur Radio Operators. In the United States, it is typically the largest single emergency preparedness exercise in the country, with over 30,000 operators participating each year.

Calendar of Events Mt. Vernon Amateur Radio Club

June: 8 Mt. Vernon ARC meeting. 7:00 PM at the Mt. Vernon Amateur Radio Clubs Field Day Site, **Floral Valley Community Center, 850 Crestrose Drive, Howard, Ohio (Apple Valley). Located off Apple Valley Drive. See Directions in this issue.**

Announced Expenditions:
<http://www.ng3k.com/Misc/adxo.html>

June 3: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

June 5: Breakfast at Hardy's on Coshocton Rd 10:00 AM

June 7: ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: KC8BB

June 10: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

June 12: Breakfast at Hardy's on Coshocton Rd 10:00 AM

June 13: Breakfast at Allison's Finer Dinner, 11587 Gilchrist Rd. 9:00 AM

June 14: ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: AC8FV

June 16: Operation Gaurdian Shield to be held June 16th, 17th, and 18th. This is to be a communications exercise held with the State EMA, State ARES groups, and various Military organizations. More information at the June meeting.

June 17: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

*** Continued on Page 2 ***

Since the first ARRL Field Day in 1933, radio

amateurs throughout North America have practiced the rapid deployment of radio communications equipment in environments ranging from operations under tents in remote areas to operations inside Emergency Operations Centers (EOCs). Operations using emergency and alternative power sources are highly encouraged, since electricity and other public infrastructures are often among the first to fail during a nation disaster or severe weather.

To determine the effectiveness of the exercise and of each participant's operations, there is an integrated contesting component, and many clubs also engage in concurrent leisure activities (camping out, cookouts, etc.). Operations typically last a continuous twenty-four hours, requiring scheduled relief operators to keep stations on the air. Additional contest points are awarded for experimenting with unusual modes, making contacts via satellite, and involving youth in the activity.

The above was taken from:

[http://en.wikipedia.org/wiki/Field_Day_\(amateur_radio\)](http://en.wikipedia.org/wiki/Field_Day_(amateur_radio))

This year, Field Day will begin at 2:00PM Saturday, June 27, 2015 and end at 2:00PM, June 28, 2015.

Locally, activities will begin Friday, June 26, 2015 at 2:00PM. During this time, the club will set up the antennas for use during the Field Day period

There will be lots of work to do, so please free up your schedule to help set up antennas. There is plenty of space and you may bring your tent or camper is desired. Some hams will stay all night Friday to keep an eye on things and do some pre Field Day operating. Many will stay Saturday night and operate Field Day all night long.

Our Club Field Day is a family event, so bring your kids, friends, or anyone who may wish to check out the operations. There will be a pot luck Picnic Saturday, June 27th starting around 4:00PM. The club will supply meat (Brats and Hamburgers) and drinks. Everyone else please bring a covered dish.

New hams young and old are encouraged to join us at this event. If you just got your licensed, be it through the Mt. Vernon Amateur Radio club or not, please join us and see what Ham Radio on the Shortwave bands

Calendar of Events Continued from Page 1

June 19: Breakfast at Hardy's on Coshocton Rd 10:00 AM

June 21: ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: KD8WSI

June 24: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

June 26: Breakfast at Hardy's on Coshocton Rd 10:00 AM

June 27: ARRL Field Day June 27 – June 28, 2015
<http://www.arrl.org/field-day>

June 28: ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: KD8HSA

July 1: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

July 3: Breakfast at Hardy's on Coshocton Rd 10:00 AM

July 5: ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: KC8BB

July 8: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

July 10: Breakfast at Hardy's on Coshocton Rd 10:00 AM

July 12 : ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: AC8FV

July 15: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

July 17: Breakfast at Hardy's on Coshocton Rd 10:00 AM

July 19: ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: KD8WSI

July 22: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

July 24: Breakfast at Hardy's on Coshocton Rd 10:00 AM

July 26: ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: KD8HSA

July 29: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

July 31: Breakfast at Hardy's on Coshocton Rd 10:00 AM

Aug 2: ARES Sunday Night Net at 9:00PM on the K8EEN Repeater. NCS: KC8BB

Aug 5: Dinner at 5:00 PM. Listen to the Sunday Night Net, contact Don Russell (W8PEN) or Richard Huggins (N8RDH) for more information on restaurant location. Restaurants will vary until the new Wendy's on South Main Street opens up.

Aug 7: Breakfast at Hardy's on Coshocton Rd 10:00 AM

Aug 8: Breakfast at Allison's Finer Dinner, 11587 Gilchrist Rd. 9:00 AM

are all about. This is not 2 meter FM!

People interested in Amateur Radio but not yet licensed are also encourage to join us. We will let you operate our radios (with our supervision of course). Or you can just observe.

Directions to Field Day Floral Valley Community Center on Crestrose Drive

1. **Take US 36 to the Apple Valley entrance (Apple Valley BLVD - County Road 4A).** Stay left onto Apple Valley Drive. Follow Apple Valley Drive to Crestrose Dr. Turn Left on Crestrose Drive. Community Center is on the left

If you don't like the winding roads through the Apple Valley labyrinth try one of these alternatives.

- **Take US 36 East to Monroe Mills** – County Rd 3. Turn Right onto Floralwood Dr - County Rd 14 Then. Turn left onto Apple Valley Drive - County Rd 4 Crestrose Dr will be first road to the left
- **Take US 36 East to Gilchrist Road** - County Rd 8. Following Gilchrist there is a sharp left at Vincent Rd. After turning left to stay on Gilchrist turn at next right, Harding - TwpRd 245. Turn left on Monroe Mills - County Rd 3. Turn Right onto Floralwood Dr - County Rd 97 Then. Turn left onto Apple Valley Drive - County Rd 4 Crestrose Dr will be first road to the left
- **Take SR 3 to Amity** Turn Right (East) onto Danville-Amity Road - County Road 14. Turn Right onto County Road 84 Ridge Heights (aka Apple Valley). Turn right onto Apple Valley Drive - County Road4. Follow Apple Valley Drive to 2nd Crestrose Drive. (Note: the first road you pass is one end of Crestrose Drive, it will get you there but winds a good bit) See maps.

GPS Coordinates are:

40 degrees 27.531' N (40.45885 Degrees N)
82 degrees 21.053' W (82.35083 Degrees W)

The Mt. Vernon Amateur Radio Club

President: Frank Counts, KC8EVS
fcounts@gmail.com
Phone: 740-393-3002

V. President: Tom Evans, KD8HSA
Phone: 740-625-5138
tom65@embarqmail.com

Secretary: Jim Williams, N8IBR
n8ibr51@centurylink.net
Phone: 740-967-0627

Treasurer: Tony Spiegel, KC8UR
tony516@embarqmail.com
Phone: 740-392-7586

Trustees: Don Russell, W8PEN
W8pen@arri.net
Phone: 740-397-0249
Call & Repeater Trustee

Barry Butz, N8PPF
n8ppf@mvarc.net
Phone: 740-397-7540
Equipment Trustee

Directors: Jim Jennessee, KD8UT
kd8ut8@gmail.com
Phone: 740-397-07

Emery Bennett, W8TW
eabenn2002@hotmail.com
Phone: 740-397-8127

David Byrd, KD8RST
dbryd@roadrunner.com
Phone: 740-392-6325

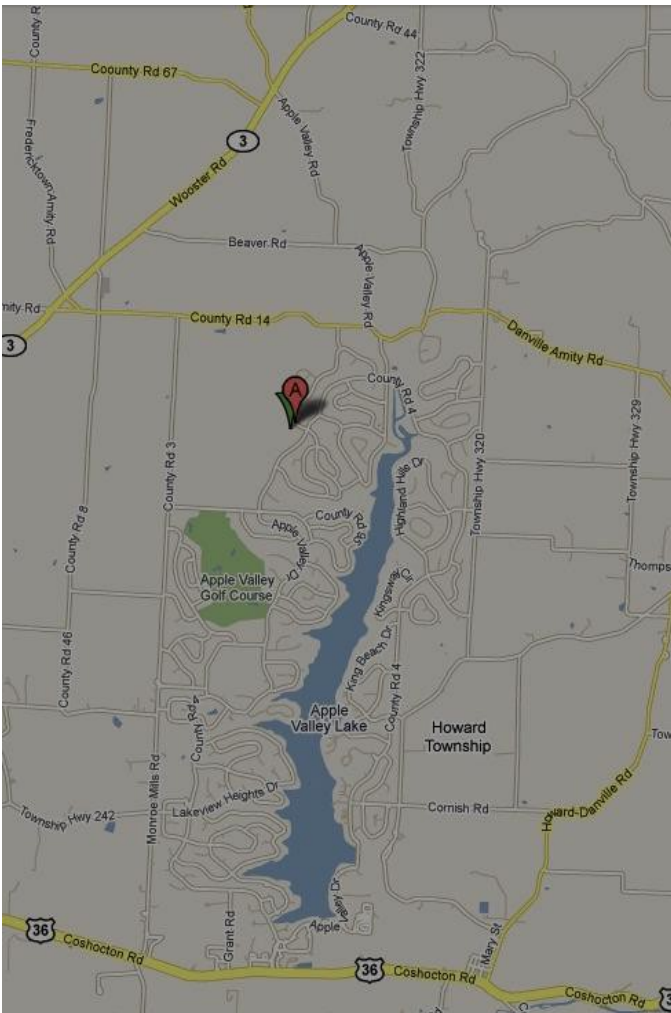
Barry Butz, N8PPF
n8ppf@mvarc.net
Phone: 740-397-7540

Jeff Butz, N8SMT
jaylynn4@gmail.com
Phone: 740-965-9368

Don Russell, W8PEN
w8pen@arri.net
Phone: 740-397-0249

Don Blizzard, W8UMH
w8umh@yahoo.com
740-392-9753

Newsletter Editor:
Don Russell, W8PEN
w8pen@arri.net
Phone: 740-397-0249



MINUTES Of The MAY11TH 2015 MEETING MVARC

Meeting called to order by President KC8EVS at 7:03 PM.

50/50 drawing held and won by AC8PT. The winnings were donated to treasury, for a total of \$22.00.

There were 19 members and 1 guest present.

Meeting suspended for a very interesting program presentation on BBHN MESH networking presented by Eli Cochran, KD8RBH, from the Delaware Ohio ARC.

Regular meeting resumed at 8:34 PM.

OLD BUSINESS

Motion to approve April minutes made KB8QPO, 2nd KC8UR. Approved.

Motion to approve May Treasurers report made AC8PT, 2nd W8UMH. Approved.

Motion to approve paying Insurance of \$75.00 for Repeater and associated equipment. Moved AC8PT, 2nd W8UMH. Approved.

W8PEN reported all okay with Repeater.

PRESIDENT'S REPORT

KC8EVS discussed the upcoming Dayton Hamvention, the clubs Field Day Site at Apple Valley held June 27th & 28th, with antenna set up on June 27th. He also suggested we get a hold of the Apple Valley staff to ask if we could use their large tent again this year.

He then mentioned putting a Special Event Station on the air during Dan Emmett Days, on Saturday, August 15th. And, the Clubs participation in The Ohio State Parks on The Air event held in September at Mohican State Park.

The upcoming lease renewal for the repeater location at the city water tower was mentioned. Along with looking into applying for a grant from the Ariel Foundation.

He mentioned the upcoming bicycle events, Tour De Cure in June, and Pan Ohio in August. He then thanked those that had participated in the April Earth Day 1/2 Marathon in Gambier.

NEW BUSINESS

A motion to hold the June club meeting, weather permitting, at the Apple Valley Field Day site was made by W8TW, 2nd KD8WSI. Approved. It was also mentioned that any members having equipment they would like to sell or trade bring the said equipment for an informal swap and shop.

A motion to set aside \$200.00 for the purchase of Meat and buns for field day was made by W8UMH, 2nd W8PEN. Approved.

A motion to pay N8IBR \$36.00 to cover the cost of the meat purchased for the NVIS Day event was made by W8PEN, 2nd KD8WSI. Approved.

EC KB2SAI, reported 5 volunteers were needed to provide coverage for the upcoming Tour De Cure on Saturday, June 6th. N8IBR, KC8BB, and KD8WSI volunteered to help. Still need 2 more helpers. N8IBR suggested we co-ordinate with the Newark and Delaware ARC's as they are the other 2 Amateur groups working this event.

While little is still known about it, Operation Gaurdian Shield to be held June 16th, 17th, and 18th was mentioned. This is to be a communications exercise held with the State EMA, State ARES groups, and various Military organizations.

KD8HSA reported the GO BOX project was proceeding, and should be finished shortly.

A motion to approve purchase of Touch-Tone microphone for the go box containing the FT-857D was made by W8TW, 2nd N8FU. Approved.

W8PEN brought and displayed the equipment AC8PT had donated to raise funds for the clubs various projects. Members were invited to look the equipment over and make an offer if interested in purchasing an item.

Motion to adjourn made by KD8NGS, 2nd KD8WSI. Approved at 9:24 P.

Respectfully submitted
N8IBR Secretary MVARC.

Field Day 2015

By Don Russell, W8PEN

Each year I give a rundown on the technical side of Field Day. Since we have not really discussed what radios or antennas we will use this year, much of this is a guess.

Last year was a record year for our club with the best Field Day score and contact total ever! It will be a challenge to do better, but I think we can.

Station 1: CW (80 – 10 Meters)

This station will be provided by me, Don Russell W8PEN.

Transceiver: Kenwood TS-590S
Antenna: 80 -10 Meter Windom plus an NVIS Loop.

The station will be set up for computer control, and CW sending using the function keys on the computer keyboard. There will also be a memory keyer available for those that like to send CW by hand. Most o our ops use the keyer. But it is nice to switch it up a bit.

Using a Windom instead of last years doublet will allow us to use the radios internal antenna tuner.

This station has an advantage over the SSB phone stations in that we have all five bands to choose from. This keeps it interesting for us. If a band closes or we run out of stations to work, we just change bands and start over. That keeps the contacts coming and negates some of the disadvantage of competing with three SSB phone stations.

Last year we made 805 contacts on CW. I am hoping that the addition of an NVIS loop antenna will increase our contacts on 80 and 40 meters. This year, lets try for 850 contacts!

Station 2: SSB Phone (Main station for 40 Meters)

This station will be supplied by Barry Butz, N8PPF. I am not exactly sure what rig or antenna Barry plans to use.

I do know that as with all our stations (including the CW station) this station will be capable of working multiple bands. Barry is planning on working some 20 meter SSB with this station when the main 20 meter station is not being used. More on this at the end of the article.

If I were to guess, Barry will set up his inverted V antennas for 40 and 20 meters. I would like to see a high 40 meter dipole available for this station as well.

This is a band in which the club has had a lot of success on. Last year we made 274 contacts on 40 meter SSB. That is a very good total. I would like to see the SSB guys try to top 300 contacts this year.

Station 3: SSB (Main station for 20 meters)

I am not sure who will set up this station. Possibly we can use the clubs FT-890 and a high dipole or 40 – 10 meter Windom antenna. I would also like to add a 20 meter vertical Delta antenna to the mix.

While this station will be the main 20 meter station, it will be capable of at least 20 – 10 meter operation.

Last year, we only made 218 contacts on 20 meter SSB. This is another band that we should be able to top 300 contacts.

We should also try harder with this station (or the 80 meter SSB station) to put more time in or 15 and 10 meters. These are two bands we often neglect.

Anyone wishing to take charge of this station, please let me know at the June meeting.

Station 4: SSB (Main Station for 75 meters)

Last year, Jim William, N8IBR, provided this station. I believe Jim would like to use a high loop this year. At least 30 feet up. Perhaps a dipole or Windom could be used as a second antenna. If the QRN (static) stays down, we should be able to do really well on 75 meters.

Again, this station will be capable of operating on more than just one band. A luxury that our contest software allows.

Last year we only made 174 contacts on this band. I know we can do better. Lets shoot for better antennas and hope we can make over 300 QSO's on this band too.

Since 75 meters is usually opens up as the Sun goes down, this may be a good station to use on 15 and 10 meters during the afternoon. We really need to put more time in these two neglected bands.

6 Meters

Barry, N8PPF, usually supplies the 6 meter station. I am sure he will do so again this year. According to the FD rules, this station does not count in our transmitter class, so we can still operate 4A even though we will have five transmitters. We usually make a few contacts on 6 meters. Who knows though. If 6 meters open up, we can make a lot of contacts.

GOTA Station

This year, the club may set up a GOTA station (**Get On The Air**). This station would be a free transmitter but may only be used by operators that have limited contest and/or operator experience. The GOTA station would use a different call from the FD stations and be allowed to work all bands.

We have tried GOTA stations before with very limited success. However, having one available so that visitors may do a bit of operating is certainly a good way to go.

Here is my crystal ball prediction for our Club Field Day 2014:

CW:	825 contacts
80 SSB:	300 contacts
40 SSB:	300 contacts
20 SSB:	300 contacts
15 SSB:	100 contacts
10 SSB:	75 contacts
6 SSB:	15 contacts

Total SSB: 1,090 contacts

If we achieve these goals, it will be another record Field Day for our club. You know what they say: "Records are made to be broken!"

This assumes that we will have enough operators to keep things going most of the night. I know things usually slow down around 2:00 AM as most operators get a little bit of shut eye.

Field Day Power

All stations will be run on emergency power during the Field Day event. By doing so, we get 100 bonus points per transmitter for a total of 400 points. Traditionally, each station manager arranges his/her own power. That could be in the form of batteries and solar panels to small generators. I know

the CW station will use my little Honda Generator and Barry will be using his Honda Generator. I am sure we can add a station or two if needed to these two generators. What we don't want is one big generator making lots of noise. In this case, smaller is better.

Field Day Logging Software

Once again we will be using N3FJP's Field Day Software Package. Scott, N3FJP, just keeps improving this software and we will be using his updated software. So, if you used your computer last year for Field Day logging, please remember to update your software.

You can download the updated software here:

<http://n3fjp.com/fieldday.html>

I will also have a copy of the updated software at the June meeting and during Field Day. Contact me for the registration number that needs to be entered to be able to use the software.

As usual, we will network this software with all stations. As mentioned earlier, this gives us the option of operating any station on any band and still be able to log and check for dupes. We will need to be careful though. Before starting to operate one of our stations after some off-time, it will be necessary to check with each station to make sure the band you are planning to operate on is not being used by one of the other stations. I am hoping to have instructions on how to check this via the software at each station position.

Field Day Picnic

The annual Field Day club Picnic will be Field Day Saturday June 27 around 4:00 PM.

As usual, the club will supply meat and drinks. Members should bring a covered dish. Please feel free to join us for the picnic, whether you have any desire to operate Field Day or not. It is always a fun time and you may find it interesting to see our set up.

This year, Matt Ware, KD8PSK, has volunteered to be the chief cook.

Summary

Field Day will be as successful as our members choose to make it. If we have lots of operators we can keep all stations running the whole period. If not, some stations will be off the air as operators get some needed shut eye. Please consider joining us this year and help make our Field Day a success.

BBHN Update

By Don Russell, W8PEN

Plans for a BroadBand Ham Net (BBHN) Mesh Network in Mt. Vernon are slowly coming together. The first two nodes may be operational before this article is published. For those not familiar with this project, please see the BBHN web page at:

<http://www.broadband-hamnet.org/>

You can spend hours there! I have!

First, let me say that this has been a committee of one (W8PEN). Therefore all the decisions made to date have been made by me. Being flexible, I am willing to change my thinking as we progress. I have already done this several times. We really need to have a meeting of all those interested in this project so everyone is on the same page.

Currently, a lot of talk, planning, talk, replanning, etc is going on. At first, organizers thought that the off the shelf Linksys WRT-54G routers would handle our equipment needs. It did not take long to discover that this is not going to be the case. It has been decided that the Ubiquity line of equipment, while more expensive, is the only way to go to insure a high probability of success. These units are much more powerful and receive sensitivity is very much improved over the Linksys routers. The Ubiquity product line was designed for High Power (½ watt) long range networking.

After much analysis of our two available tower locations, which were the Water Tower hosting the K8EEN repeater and the tower hosting the KD8EVR repeater, it has been decided that the K8EEN water tower would provide a much better chance of success. The water tower will cover more of Mt. Vernon. Therefore, we are hoping to install the first node at the water tower. A second node near downtown Mt. Vernon, but a bit West or North West would be ideal. I have not had any luck locating a site for this node. The KD8EVR tower would be a third node that would cover the East end of Mt. Vernon, Almost to Gambier.

Once we have the first node up we will finally be able to estimate coverage with much more accuracy. I admit that we may find that this project will not work out for us. But all we can do is try. If the club wishes to support this project, we will need money to set up the first node wherever it will be.

From my coverage analysis using TowerCoverage dot com, I believe the water tower site will provide us with good coverage in the Mt. Vernon Area at least to slightly South of Mt. Vernon. The NorthWest part of Mt. Vernon will have poor coverage. The East end of Mt. Vernon should be rather good.

What will local members need to participate in the Mesh Network? Most importantly will be a real desire to do so. A commitment that if you put up a node at your house, (which

is encouraged for everyone to do) and it is accessible to many other nodes, this node be left running 24/7. Nodes like these will be needed to ensure success of this project.

If you wish to have a node at your house that is accessible to all, it should be as high up as possible. A 50 foot tower would not be too much. You would also need to purchase the Ubiquity line of equipment. I am hoping that everyone wishing to set up a permanent node will be able to finance their own node. The minimum equipment needed for a permanent node would be a Ubiquity Bullet M2 and a 12 dbi or 15 dbi antenna. In addition, one would need whatever length of cat5 cable needed to run up to the Bullet M2. The Bullet M2 mounts directly on the antenna mast and the antenna plugs into it, eliminating a lot of loss due to cable runs at 2.5 GHz. My cost for this set up has been under \$200.

For others it depends on how close you are to one of the nodes. You might get away with the Linksys WRT-54G and an antenna on a 10 foot pole. That setup might cost less than \$50. Others may need to add a high gain directional antenna such as a yagi or parabolic dish antenna pointed at a node.

We do have a possibility of some donated equipment, so ask before you buy.

So far, several club members are experimenting with different aspects of this project. Frank Counts, KC8EVS, has several routers meshed together and checking into Voip. Personally, I have had several routers meshed and experimenting with Chat Rooms. Barry Butz, N8PPF, is about to put up his permanent node, as am I. Once these two nodes are up, some members may be able to use one or the other. Hopefully, Barry and I will be able to connect together and start play with this stuff for real.

Here are some estimated costs that should give club members an idea of what they would be getting into.

One of these:

- Linksys WRT-54G router: \$10 -\$15 used. Not all versions work so check with the group before buying.
- Ubiquity Bullet M2 weather proof and tower mountable: \$77.
- Ubiquity Rocket M2 weather proof and tower mountable. Has two antenna ports. \$87
- NanoStation M2. Weather proof and tower mountable. Has an 11 dbi gain directional antenna built in \$83
- NanoStation Loco M2. Weather proof and tower mountable. Has an 8dbi directional antenna built in.
- There are several more Ubiquity units that will

work. Do your research or ask questions before buying.

One of these antennas except if you buy the NanoStation or another Ubiquity with a built in antenna:

- 12 dbi gain omni antenna \$40
- 15 dbi gain omni antenna \$80 - \$100
- Yagi or Parabolic Dish \$30 - \$100

And one of these:

- Cat5 cable \$25 - \$50
- Hardline (very expensive)
- Coax (very lossy at 2.5 GHZ)

If you wish to be a permanent node, a 12 dbi or 15 dbi omni up as high as possible is advisable.

I hope I have given some good information here. Obviously a project like this has a lot of parts. Think of it as needing many mini cell towers to make it work.

If you will not be in range of one our nodes, don't give up. As we move along, you may be able to connect to one of the nodes via the internet.

Right now, we need lots of local nodes!

73,
Don, w8pen

AFFILIATED CLUBS COORDINATOR REPORT

By: John Myers, KD8MQ - ACC
kd8mq@arrl.net

From May, 2015 Ohio Section Journal

Dayton has just wrapped up, so can Field Day be far behind? For lots of groups, this is their biggest activity of the year. If the public is invited to your Field Day site, then please post your operation on the ARRL Field day locator map (<http://www.arrl.org/field-day-locator>).

Last month, I set up a table at the Cuyahoga Falls ARC hamfest. This week, I received a thank you letter from them for participating. I don't know if all hamfests do this, or not, but I thought it was a nice touch. Did your club participate in the Ohio ARES NVIS Antenna Day? I got on late, but found some good activity from Ohio clubs on 40 meters. I hope this is an annual event.

Notes from all over – This is the part of my column where I try to give some highlights of what clubs around the section are doing. This comes mostly from your newsletters. I realize that

not all clubs have newsletters these days. So, feel free to drop me a line and tell me how your club is doing, or about the great program you had this month. I'll do my best to share your story with the rest of Ohio.

If you do have a newsletter, please, please add me to your mailing list. I can't be at every club meeting, so I have to rely on you to keep me informed on what your club is doing.

So, without further ado, here's some of what is happening from around the section.

At their May meeting, the Dayton ARA held their Homebrew night. This is amazing considering everything else they have going on.

The West Park Radio Ops held their Fixit night at their May club meeting.

According to a recent issue of the Monday Morning Memo, put out by John, WA8KIW, several clubs in south central Ohio have taken advantage of Yaesu's repeater offer.

Also in the Memo, John mentions that a carload of Highland ARA members visited a Portsmouth RC meeting. Congratulations to the Delaware ARC for renewing their Special service Club status. Their latest newsletter has pictures from their participation in the ARES NVIS Day.

The Mt. Vernon ARC has kicked off a Pre-Meeting dinner on meeting nights. They set up several antennas, including a 40 Meter NVIS beam for NVIS Antenna day. They are also building a Broadband Hamnet Mesh Network.

In the latest issue of the Voice Coil from the Mahoning Valley ARA, Mark, K8MSH has a 30 minute project of building a 2 Meter Base/Portable antenna. Their President, Wes, W8IZC tells of some new things coming to the MVARA.

Portage County ARS (PCARS) is definitely getting ready for another first class Field Day operation. They recently held their Antenna Day, where they install, and test critical systems in advance of the big day. They also purchased new computers for this year's Field Day. Upcoming this month is their first "Movie Night" at the club site.

Lastly, the Alliance ARC is in the process of moving their club 440 machine to a location provided by the local hospital.

And that wraps it up for another month.

73 DE KD8MQ

STATION CALLSIGN: _____

HF Log Sheet

DATE	UTC		FREQ	MODE	POWER	CALLSIGN	QTH	RST		COMMENTS
	ON	OFF						SENT	RCVD	

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 and for those over 65 yrs. of age.

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: