

Published jointly by the Valley Amateur Radio Association and the Massanutten Amateur Radio Association,  
Dedicated to serving those interested in Amateur Radio in Virginia's Shenandoah Valley

## Can You Please Help?



## Harrisonburg March of Dimes Walk: Saturday April 26

This year's Harrisonburg Public Service line-up gets off to a nice start with the March of Dimes Walk in Harrisonburg.

The walk will be held on Saturday, April 26. The walker's registration starts at 8:00 am. The walk begins promptly at 9:00 am, and should be over around 11 am to noon.

Sheetz is serving lunch starting at 11:00 am.

In years past, the walk started and ended at the K-Mart parking lot. This year, the walk will probably start at the Harrisonburg City Municipal Parking lot, across the street from the Daily-News-Record building on south Liberty Street.

The walk will have five rest stops, and a ham radio communicator will be needed at each one, plus a net control at the headquarters desk.

Five hams have volunteered to help so far:

Norman Benner, KA4EEN  
Gerald Nauman KN4FM  
Phyllis Haxton N4VZC  
Richard Haxton KC4AN  
Jason Armentrout N4DSL

A couple more volunteers would be great. If you can help, please contact Norman at 289-5801.

## Waynesboro MS Walk: Sunday April 6

Waynesboro's Public Service events also start in April. The Waynesboro MS Walk begins Sunday, April 6, at 1:00 pm. Hams should arrive a little bit earlier if possible.

If you can help with this walk, please notify Benny, N4BCC.

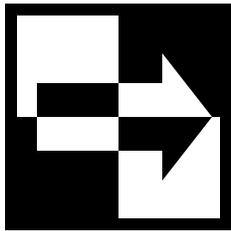
## I'll Show You Mine, If You Show Me Yours...

Don't forget! April is "Show and Tell" month at the MARA Club meeting!

That's right. You can forget that "Don't Ask, Don't Tell" policy! Show us everything! And don't be afraid to ask someone to show you something of theirs if you think others would be interested in seeing it!

As in the past, the show is centered around homebrew. Something you made, something you put together, something you modified, something you broke into pieces...

It doesn't have to be a ham radio item, but it does have to be interesting to hams. Visitors are welcome, if they can stand to watch!



## VE Exams April 12

Looking to Upgrade? Know of a friend who wants a ham license?

VE Exams will be held again on April 12.

As always, registration starts at 9:00 am, and the tests are given as soon as the paperwork is completed.

The sessions are at the Woodmen of the World building on Highway 42, 1 mile south of the Wal-Mart SuperCenter.

Call Gayle Shull for more information.

## Reminders – Announcements – This-'n-That

- **The VARA Swap-Shop Website** is up and running. List your for-sale items, wanted items, and other stuff on-line, for free! Go to the VARA Website, then click on the left-hand link that says, "Swap Shop". To list an item, send an email to Billy Hooke, KG4JOF@arrl.net, or telephone him at 540-887-2317.
- **For detailed information on hamfests and contests**, check out the MARA website. The MARA schedule page has links to the major area hamfest websites and contest rules.
- **The local ARES Net Schedule** is always listed at the bottom of the MARA Schedule webpage. The page has links to each net's individual data, — dates, times, frequencies, PL, offset, and other useful information on each net.
- **The Field Day Committee** is still looking for a few more good men (or women!). The committee currently consists of Billy KG4JOF, Bryan KG4RMY, Jason N4DSL, Mike KG4OON, and Terry KG4MWI. If you are interested in being part of the Field Day planning, or if you'd just like a behind-the-scenes look at what goes into the event, contact Billy Hooke, at 887-2317.
- **Best Wishes to Al Bonck, N3JB**, for a speedy recovery. Farmer Al suffered a heart attack in March.
- **Dan James W4DLJ** is now up and getting around (sort of) with the help of a walker.
- **Jay Suter, W4QDC** is home again after his week-long stay in RMH for some plumbing rework. Oh, the stories he told while he was under the influence of the morphine! He can't wait to try out his new radio holder. You know, the big one that he drove to Alabama to buy, — the big one that's sitting in his driveway!
- **A listing of digital nodes** and digipeaters in Virginia can be found at: <http://www.tapr.org/directory/us/va.html>
- **The local QRP group** welcomes anyone who's interested in building, homebrewing, or low-power operating. The next meeting is April 8. Call KD5KA on the 145.13 repeater at 7:00 pm for talk-in.
- **Can't find what you need?** The ARRL maintains a searchable database of over 2000 suppliers carrying everything a ham could possibly want, from aluminum tubing to EEPROM programmers, from laser equipment to weather balloons, from bumper stickers to Gauss meters. Check out the supplier finder website at: <http://www.arrl.org/tis/tisfind.html>
- **Vic Alger, KE4LKQ**, hosted a nice demonstration of the EMWIN (Emergency Manager's Weather Information Network) for the JMU police communications officer on March 19. A repeater location has been approved on Little North Mountain if a local agency sponsor can use the data. Hams will be able to copy the data by using a software program and general coverage VHF receiver.
- **Area river levels and mountain rainfall gauges** can be monitored (with updates every 15 minutes!) at IFLAWS:   
<http://www.afws.net/data/va/augusta.htm>  
<http://www.afws.net/data/va/rockingham.htm>  
<http://www.afws.net/data/va/shenandoah.htm>  
<http://www.afws.net/data/wv/pendleton.htm>
- **Greenbank Might Hear You! Remember:** Before putting a repeater, digipeater, APRS transmitter or any other automatically-controlled station on the air, you must notify the Greenbank Radio Observatory coordinator, Wesley Sizemore. Wes indicates that most amateur stations don't bother the observatory's readings, but he is required to maintain a list of all transmitters in the "quiet zone" (which includes all of Rockingham and Augusta Counties, and most of Page and Shenandoah, too.). If they suffer interference from a transmitter you haven't told them about, you could be in deep, uh, er, you-know-what. Don't take the chance! Call Wes before starting.
- If you need some Category 3 telephone cable (good for wiring 10Mbps home networks), call David KD9LA. He has a couple of 75-foot lengths that he salvaged from a rewire project at JMU. These are free if you're the first to ask for them.

## Virginia RACES Training Session: May 31

As announced in last month's Monitor, a live training session will be held on May 31 for ham radio operators interested in becoming official RACES radio stations.

RACES stations are those which operate in a special radio service, on the ham radio bands, in the event the Virginia Civil Defense Agencies are activated.

Before you can transmit to a RACES station, you must be registered with the Civil Defense Agency as a member station. Part 97 rules prohibit non-RACES stations from communicating with stations operating in the RACES service.

To become a RACES station, you must first regis-

ter with Va-RACES, and then you must attend a training session, such as the one being offered May 31. To keep your registration, you must attend at least one drill or refresher training session each year.

The training session is completely free. There is no cost whatsoever.

To register, go to the website below, and follow the link under News and Views, to "Live Training".

[Http://www.racesva.org](http://www.racesva.org)

If you don't have Internet Access, call Dale Showalter at 540-896-6535 or 540-896-7027.



EMU: Location of May 31 Training Session

## The Hinternet?! – Here in the valley?!

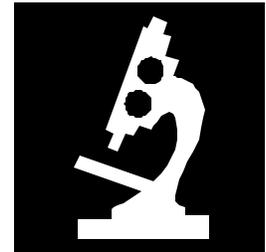
Been reading your ham magazines? If so, you are aware of the push to apply 802.11 wireless (microwave) principles to ham radio.

This technology has the promise to provide mobile and portable high-speed internet access at bandwidths far, far greater than even the fastest traditional packet radio setup.

Jason N4DSL, and Daryl, KG4PRR, have been conducting range and distance experiments on the microwave bands using 802.11 devices.

So far, the results have been promising. By using a simple \$49 "barbecue grill" dish antenna, solid copy connections have been achieved at distances of almost 2 miles using less than 65 milliwatts! And marginal communications were achieved from Park View summit to the Marriott Courtyard parking lot, a distance of about 4 miles.

If you would like to join in on the fun on these Saturday excursions, contact Jason, N4DSL. We could always use an extra hand. Get in on the ground floor of this exciting new mode.



MICROWAVES

## SkyWarn Training Class Schedule

Basics I (required of all volunteers), Saturday April 12, 9 am to noon in Darlington, Maryland.

Basics I, Saturday, September 6, at Howard County Fairgrounds (Maryland)

Basics II Class (for those who have completed Basics I): Saturday, April 12, from 1 pm to 3 pm in Darlington, Maryland (Harford County).

Basics II Class, Wednesday evening, June 18, at the Goddard Space Flight Center in Greenbelt Maryland.

Flash Flood Class, Thursday March 27, 6 pm to 8

pm in Bardane, West Virginia in Jefferson County.

Net Control Class for those who might be interested in participating as a Skywarn Net Control station: Sunday, May 4th, from 3:30 pm to 5 pm at the Sterling Weather Service Forecast Office. This session includes a very rare tour of the weather center office, which normally is closed to the public.

For information on Skywarn training classes, see the MARA Website.



## MARA President's Column

Hello to all.

As of this writing (at work), "liquid snow" (rain) is falling outside. I hope this means Spring is just around the corner!

Time to look forward to good antenna repair and installation weather and to the high holy days for hams known as Field Day later this Summer.

Seems like we just celebrated the holidays!

For the first time in a while with other's help, we have some club programs stacked up. This is nice!

A reminder that this coming meeting for April is "Show and Tell". As the name implies, bring something of interest to the meeting to show and tell about. It does not necessarily have to be a ham item but preferably something constructed or modified by you.

Upcoming program: A visitation to the club by Paul Wise who used to live here in the valley and will be remembered by the longer-licensed hams. (I am sorry but his call escapes me and I tried to contact Gerry, K4RBZ, to find out with no success as I write this. )

I'll give more details to the upcoming programs as time goes on. I do not have all the details here at the office.

If any of you have any ideas for a club project or projects, please let me know as with better weather coming I would like to maybe have a fox-hunt or two and other extra club functions.

So think about it, please.

Well, I have to go back to my duties so so-long for now.

73,  
Ellsworth K4LXG

## VARA President's Column

The Valley Amateur Radio Association met at Shoney's in Staunton on March 4, 2003. I opened the meeting at 7:30 pm. There were (24) members present and (4) guests: Bob VanFossen (K4DJG), Don Landes (WX4C), Carol Landes (N4JKX), and Diane Smiley (Pat Smiley's wife).

The 50-50 was won by Bob Carlstrom (WD4JEL), congratulations, Bob!

Thanks to Terry Kielbasa (KG4MWI), Billy Hooke (KG4JOF), and Mike Reno (KG4OON) for agreeing to take on the project of organizing Field Day activities.

Richard Huttinger, Al Bonck, and myself are looking for a new location for our club meeting, since we are out-growing Shoneys.

Please mark your calendar to help with the MS Walk on Sunday, April 6, in Waynesboro. We should be there at 1 p.m. and the walk starts at 2 p.m., lasting approximately 2 1/2 hours.

Billy Hooke (KG4JOF) has the swap shop page completed and Bob McCracken (N4JGO) has linked it to the VARA Web page (for Ham related items only). You can send your information to Billy Hooke at : KG4JOF@arrl.net .

Also, if you have a digital camera or scanner and can send a picture of the item, that would help it sell.

Check it out from the VARA Web Site <http://www.qsl.net/w4mus/>

Jerry Moats WD4ITN and Butch Washer N5SMQ have an ARES Net on the Mon-

day repeater 147.180+ and tone of 100. at 8:30 pm on the 1st & 3rd Wednesday of the month.

They would like to welcome everyone that can get into the repeater to check into the Net.

It's time to start thinking about Field Day. Make plans to be there to help set up stations, put up antennas, and have fun!

The business meeting was adjourned at 7:50 pm.

Mr. Thomas R. Knoll Sr., a local ham KR8C, and a lawyer, came in at the end of our meeting and gave an excellent talk on Wills and Power of Attorney.

He talked about how they should be written up and

what they should contain for best results when the time comes to use them.

After explaining several detailed terms procedures we had time to ask questions about our different family situations. THANKS to Mr. Knoll for a very informative presentation.

73 N4BCC



## The Opinionated One: A Peek At the Future of Emergency Communications

What a difference twenty years can make!

With all the new technology springing up, I thought I'd give you a peek at what emergency communications will look like a few short years from now.

Let's begin back in 1990. I received a phone call early one Sunday morning, asking me to report to an evacuation shelter which had been opened at a local high school gymnasium. A sudden thunderstorm had flooded a section of the city, forcing several dozen people from their homes.

I arrived at the shelter and hunted down the shelter manager. "I'm your radio man. Where do you want me to put my card table and set up?"

I carried in my folding card table and began unloading my Xerox paper box of goodies. A little red-haired boy with freckles and his dad walked over to watch me.

"Gee, mister, you sure have a lot of equipment. What is all this stuff?" he asked.

"Well," I answered, "This box here is my radio, and this big black block is called a gel-cell battery. It powers the radio. This thing here is the dome light from a '67 Chevy to light up my desk, and this here is a mag-mount antenna. I'll just stick it here on this filing cabinet, since we only have to transmit about four miles to the county building." In ten minutes, my station was on the air.

Fast forward twenty years. It is now the year 2010. The phone rings in the middle of the night. I am to report to the local high school gym where an evacua-

tion shelter has been opened. The dying remnant of a hurricane has caused flooding in the valley, forcing dozens of people from their homes.

I arrive at the shelter and hunt down the shelter manager. "I'm your radio man. I need a dozen strong men to help me unload my equipment. I also need six 8-foot tables, access to the Internet connection, and the key to the Ethernet wiring closet."

A dozen strong men haul in my 20 huge plastic crates, and I being unpacking.

A little red-haired girl with freckles walks over with her dad. "Gee, dude, you sure got a lot of gear. What is all this stuff?"

"Well," I answer, "This box here is my radio, and this big black block is called a gel-cell battery. It powers the radio. This thing is the dome light from a '99 Accura to light up my desk, and this here is a mag-mount antenna. I'll just stick it here on this filing cabinet, since we only have to transmit about four miles to the county building."

I continue, "Now, this here is a laptop computer. We need it to communicate digitally on packet. And this little thing here is the power supply for the laptop. The laptop doesn't work off of 12-volts, its power supply needs 120 volts AC, and since the power is off in the building, I use this here little thing, called an inverter, to convert my 12-volt battery power to 120-volts AC, which the laptop power supply converts to 7-volts DC to power the laptop.

"Now, this box here is called a TNC, and it connects to the laptop. And this little box is an-

other radio, since I need to use one radio for voice, and a separate radio for digital. And here is another antenna, for the packet system radio.

I move over to the second 8-foot table. "Now, this here is another laptop. That one over there is for external packet radio communication, this one here is for internal use. Today we use computers to keep track of information in a shelter, not the old 3-by-5 cards we used back in my day. Because we have four check-in desks, we need four computers. These things here are the power supplies for the laptops, and these black things are the inverters for the power supplies, and these boxes are the gel-cell batteries to power the inverters.

"Now this little blue box is called a hub. It connects the four laptops, since it is essential that the shelter manager know at all times what's going on. He wants to put one computer in the cafeteria where the Red Cross will deliver donuts and coffee. Because the cafeteria is so far away, we use this white box, called an extender, to boost the signal. Now this is the battery, and this is the inverter, and this is the power supply for the extender.

"Now, over here," I say, moving to the third table, "is what we call a wireless access point. This little black box allows us to connect the four laptop computers and their hub to the wireless PDA's which the shelter manager and his assistant will carry with them. This let's them communicate with any of the laptops, no matter where they are in the building. This is the power supply for the wireless

access point. And to make sure we don't lose the signal when the manager walks outside to the parking lot, we use this signal booster in this little green box here."

"And because there might be some equipment in this school which interferes with the 802.11 signal, we have a backup system on the 10 GHz band. That's what all these other little boxes are, over here on this table.

"Now on this table, this box is an interface to convert the incoming packet signal to an 802.11-compatible digital network signal, so the county officials can see what's going on here. And this box here is a router so that our shelter can serve as a switching point for digital signals between emergency officials and other shelters further away. And this box here is called a server. It holds all the data so the laptops don't have to. And this box here is a firewall, and this one is an IP index translator appliance, and this one is ..."

The little girl and her dad shake their heads and walk off. I continue unpacking the boxes, and then begin the task of connecting all the cables together.

By the time I get the cables hooked together, I look around, and realize the place is empty. The storm has passed, the ground is dried out, the Red Cross has removed all their cots and blankets, the insurance adjusters have inspected the neighborhood, the claim checks have been cut, and the homes have all been repaired. This shows that even in the future, ham radio will serve a vital public service!

## VARA Secretary's Report – March 4th Meeting

The **V**alley **A**mateur **R**adio **A**ssociation met at Shoney's in Staunton on March 4, 2003. The President Benny Cook N4BCC opened the meeting at 7:30pm. There were 24 members present and 4 guests, Bob VanFossen K4DJG, Don WX4C & Carol N4JKX Landes and Diane Smiley, Pat Smiley's wife.

The 50/50 was won by Bob Carlstrom WD4JEL, congratulations on two in a row Bob!

A Committee of three was elected for Field Day 2003 they are: Terry Kielbasa KG4MWI, Billy Hooke KG4JOF and Mike Reno KG4OON. Thanks for taking on the project of organizing Field Day activities.

Since our Club is out growing the room at Shoney's we have a committee of three, Richard Huttinger, Benny Cook and Al Bonck that are looking for a new location.

The MS Walk is coming up on Sunday April 6<sup>th</sup> in Waynesboro. Mark your calendar now if you plan to help. We should be there by 1:00pm and the walkers will start at 2:00pm. The walk usually last about two or two and a half hours and is a worthwhile community event.

Billy Hooke KG4JOF has the swap shop page completed and Bob McCracken N4JGO has linked it to the VARA Web Page. **This will be for Ham related items only.** You can send a list

of items you have for sale, swap or something you would like to buy, to Billy Hooke KG4JOF at: KG4JOF@arri.net Also if you have a digital camera or scanner and can send a picture of the item, that would help it sell. Check it out from the VARA Web Site at: <http://www.qsl.net/w4mus/>

Jerry Moats WD4ITN and Butch Washer N5SMQ have an ARES Net on the Monterey repeater 147.180+ and tone of 100.0 at 8:30pm on the 1<sup>st</sup> & 3<sup>rd</sup> Wednesday of the month. They would like to welcome everyone that can get into the repeater to check into the Net.

**ADDRESSES!!!** If your e-mail address or home address is changed for any reason **YOU** need to notify us so we can make the necessary changes so you will continue to get your newsletter. Also you should update your e-mail address in QRZ and Buckmaster. This is where we look if an e-mail is returned to us. You can send your e-mail address to: Benny, bennycjr@ntelos.net Ken, kharris@rica.net Jeff, jmrinehart@yahoo.com Ray, colvingr@rica.net David, fordhadr@jmu.edu

**On the sick list:** I talked with Ozzie Dillon KD4RD on Thursday Feb. 6th he and his wife were getting ready to go for a drive so I didn't talk too long. He said he was

still doing ok and eating three meals a day...Hi Hi!!

Dan James W4DLJ is still taking therapy here in town and getting along well at this time. Lets keep these folks in our thoughts and prayers.

David Tanks AD4TJ Needs HELP with the Augusta County ARES Net. Anyone that is willing to be net control and help David out give him a call. The Net will be held on the 146.850 repeater on the 2<sup>nd</sup> Thursday of the month at 8:00pm. This repeater has a minus offset and a tone of 131.8 when needed.

**Mark your calendar and check into the net. Remember without YOU there will be NO ARES NET.**

We would like to get training classes started for the Technician level. Anyone interested in helping teach the classes please contact Benny N4BCC, Alby AD4KZ or Richard AA4RH. We need to get some young people interested in ham radio. Listen for any hints that someone may like to learn what ham radio is all about.

**PROGRAMS NEEDED...**Richard AA4RH, our Program Chairman, asks for anyone who would like to do a program at one of our meetings to give him a call and get a date set up to present it. It does not have to be HAM related, it can be anything you think the group would find interesting.

It's time to start thinking about

Field Day. Make plans to be there and help set up stations, pull up antennas, have fun operating FD 2003. Then comes the time to tear down all the equipment and antennas, pack them up for another year. Don't forget, we need help tearing down also.

The meeting was adjourned at 7:50pm

Bob VanFossen did a show and tell with his K-1 CW Rig. He had the complete setup mounted in an old typewriter case including the battery. The antenna was rolled up to fit on top of the radio and battery.

He said he had made eight or nine contacts during a recent CW Contest. Thanks for the demo Bob!

Mr. Thomas R. Knoll Sr. a local ham KR8C, and lawyer came in at the end of our meeting and gave an excellent talk on Wills and Power of Attorney. He talked about how they should be written up and what they should contain for best results when time came to use them. After explaining several detailed terms and procedures we had a time to ask questions about our different family situations. Thanks to Mr. Knoll for a very informative presentation.

Submitted By:  
VARA Secretary  
Ray Colvin KE4HVR

## Screech, scratch, honk, buzz, whistle, Z-Z-Z-Z

An African chieftain flew to the United States to visit the president. When he arrived at the airport, a host of newsmen and television cameramen met him. One of the reporters asked the chief if he had a comfortable flight. The chief made a series of weird noises:

"screech, scratch, honk, buzz, whistle, z-z-z-z"...and then added in perfect English, "Yes, I had a very nice flight, thank you."

Another reporter asked, "Chief, do you plan to visit the Washington Monument while you're in the area?"

The chief made the same noises..."screech, scratch, honk, buzz, whistle, z-z-z-z"...and then said, "Yes, and I also plan to visit the White House and the Capitol Building."

"Where did you learn to speak such flawless English?" asked the next reporter. The chief replied, "Screech, scratch, honk, buzz, whistle, z-z-z-z...from listening to the short-wave radio."

## MARA Secretary's Report – March 6th Meeting

The March meeting of the Massanutten Amateur Radio Association was held at Evers Restaurant in Mt. Crawford, the meeting was opened at 7:30PM by the club president, Ellsworth Neff, K4LXG, there were 28 members and 3 guests present.

The secretary's report for the February meeting was accepted as given in the March issue of the MARA monitor. Sandy Mullins, K4PZC gave the treasurers report, the clubs balance as of 2/28/03 was \$2377.53 and it was accepted as given. It was also noted the club should be receiving it's half of the Bike Virginia donation which should be \$350.

Dale Showalter, N4DAI announced to the club that a

Virginia Races live training course will be held at Eastern Mennonite University, Harrisonburg on May 31 from 8:00AM until 5:00PM, registration is available online at <http://www.va-ares.org>. The club members passed a proposal to set aside funds for drinks, snacks, etc. for the training event. Thanks go out to Phil Helmuth, KC4LTP for securing the site for the training.

David Fordham, KD9LA brought up the March of Dimes walkathon which will be held on April 26<sup>th</sup>, at least 5 operators will be needed for the event which starts at the Harrisonburg municipal parking lot. It was also noted that Sheetz will provide breakfast and lunch for the operators.

50/50 was won by Phyllis Haxton, N4VZC, \$12.00 went to Phyllis and \$12.00 went to the club.

Ellsworth presented Gerald Nauman, KN4FM with a certificate for his outstanding job as past president of the MARA club.

Chuck, KD5KA reported there will be a meeting of the QRP club on Tuesday, March 18<sup>th</sup> at 7:00 PM at his home in Weyers Cave.

The 2003 Field Day committee has begun, so far the members from the MARA club are Jason Armentrout, N4DSL and Bryan Daniels, KG4RMY and they still need one more member.

Gayle Shull, KU4XN reported that the next VE exam will be held on April 12<sup>th</sup> at the

Woodmen of the World building in Dayton.

Billy Hooke, KG4JOF announced the online swap shop which is part of the VARA website, items can be put on the site by emailing Billy at [kg4jof@arrl.net](mailto:kg4jof@arrl.net), the sites address is <http://www.qsl.net/w4mus/swapshop.htm>.

The April MARA meeting will be "show and tell", members please bring your projects.

The formal meeting was adjourned at 8:04PM and the program was given by Clayton Towers, K4RHQ on weather and weather measuring instruments.

Todd Harrison, K4TMH  
MARA Secretary

---

## Calendar

April 1: VARA Club Meeting (really! No fooling!)

April 2: Highland County ARES Net (147.18 repeater PL 100)

April 3: MARA Homebrew Show and Tell Night

April 6: Waynesboro MS Walk Public Service Event

April 6: Page County ARES Net (146.67 repeater, PL 114)

April 7: Rockingham County ARES Net (146.55 simplex)

April 8: QRP Group Meeting in Weyers Cave

April 10: Augusta County ARES Net (146.85 repeater, PL 131)

April 12: VE Exams in Dayton, VA

April 12: Chesapeake (Norfolk) HamfestA

April 12: Skywarn Basics I & II classes, Darlington MD

April 13: Easton (PA) Hamfest

April 13: York (PA) Hamfest

April 13: Raleigh (NC) Hamfest

April 13: Page County ARES Net (146.67 repeater, PL 114)

April 14: Rockingham County ARES Net (145.13 repeater, PL 88)

April 20 & 27: Page County ARES Net (146.67, PL 114)

April 21 & 28: Rockingham County ARES Net (145.13, PL 88)

April 26: Harrisonburg March of Dimes Walk Public Service Event

May 1: MARA Club Meeting

May 4: Skywarn Board Meeting and Net Control Class

May 6: VARA Club Meeting

May 16-18: Dayton Ohio Hamvention

May 24-25: CQ WW WPX Contest CW Weekend

May 31: VA RACES Training Session in Harrisonburg

June 1: Manassas Hamfest

June 7: Winston-Salem (NC) Hamfest

June 14: VE Exams in Dayton VA

June 14-15: ARRL June VHF QSO Party

June 15: Frederick Maryland Hamfest

June 18: Skywarn Basics II Class—Greenbelt MD

June 21: Ham Radio Kids Day

June 28-29: ARRL Field Day

---

# MARA/VARA

c/o David Fordham  
131 Wayside Drive  
Weyers Cave, VA 24486  
Phone: 540-568-3024  
Email: fordhadr@jmu.edu

---

Return Service Requested

---

## MASSANUTTEN AMATEUR RADIO ASSOCIATION, Inc.

President: Ellsworth Neff, K4LXG  
Vice President: Chuck Vogan, KD5KA  
Secretary: Todd Harrison, K4TMH  
Treasurer: Sandy Mullins, K4PZC  
Board (exp 03): Jason Armentrout, N4DSL  
Board (exp 04): Richard Haxton, KC3AN

<http://mara.ws>

MARA meets the first Thursday of each month  
at Ever's Restaurant on U.S. 11 south of  
Harrisonburg. Meal starts at 6:30 pm.  
Business meeting starts at 7:30 pm.

**Visitors are welcome.**

Dues (\$12 per year) should be mailed to:  
MARA  
PO Box 1882  
Harrisonburg, VA 22801

## VALLEY AMATEUR RADIO ASSOCIATION

President: Benny Cook, N4BCC  
Vice President: Ken Harris, KE4GKD  
Secretary: Ray Colvin, KE4HVR  
Treasurer: Jeff Rinehart, W4PJW  
Program Manager: Richard Huttinger, AA4RH

<http://www.qsl.net/w4mus>

VARA meets the first Tuesday of each month  
At Shoneys Restaurant on U.S. 250 east in  
Staunton. Meal starts at 6:30 pm.  
Business meeting starts at 7:30 pm.

**Visitors are welcome.**

Dues (\$15 per year) should be mailed to:  
Jeff Rinehart, W4PJW  
1344 Hankey Mtn Hwy  
Churchville, VA 24421