

August 2002

The Monitor

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

VE Examinations in Dayton VA: August 10

Thanks to KU4XN and the gang of Volunteer Examiners, amateur radio exams will be held in Dayton, Virginia, at the Woodmen of the World building, on Highway 42, about 1 mile south of the WalMart Supercenter.

Sign-in starts at 9:00 am, and examinations start as soon as everyone has signed in and completed the preliminary paperwork.

We try to make these exams as streamlined as possible. Compared to the exams a few years ago, today's exam preliminaries go quickly, meaning that you and the VE's spend less time at the session.

If you are thinking of upgrading, don't forget that the Extra class questions have changed. July 1 saw the implementation of the new question pool for the Extra exam.

Come give it a try!

Pass the word to your friends. Advance reservations are not required. And if you are interested in volunteering to help us, give Gayle Shull a call to learn how you can become a certified Volunteer Examiner. Call Gayle at: 540-828-2132.

September 8: EMU Cross-Country Track Meet

HELP!

Saturday, September 8, we need to have about a half-dozen amateur's with hand-held 2-meter radios to provide safety communications to the EMU Track Meet. This is an annual affair which relies on ham radio to keep the participants safe. If you can help, please call Doug N4DUG at 540-867-5719.



Bob's Knob Picnic: August 18

August 18th is still the date!

Sunday afternoon, starting at 1:00 pm, come to the Knob for fun and games and free food!

For almost six months now, we've been telling you about it. There's no excuse for you and your family not to show up!

Hamburgers, Hot Dogs, the world-famous Bob's Knob Beans cooked in a real cast-iron kettle over an honest-to-goodness wood fire, ice-cold tea and lemonade, and all kinds of covered dishes and desserts by the dozen: all need to be eaten!

Bring a lawn chair or two. Bring a covered dish with your favorite victual. Bring grandma and the kids.

Bring that box of junk you cleaned out of your shack and have been meaning to take to the dump. But first, put some price tags on the

stuff. You never know who might want it! Put the box of junk in the tailgate area and see who bites. Just remember to pick it up again on your way out if it doesn't sell. You can drop it in the bin at the Bergton Discount Center (e.g., trash dumpster) on the way home.

To find the festivities, take I-81 Exit 257, and follow State Highway 259 into Broadway. Once in Broadway, follow 259 out of Broadway 14 miles. At the yellow flashing light sign, turn left onto Bergton Road, go just over 2 miles to Crab Run Road, and turn right. Follow Crab Run road about 2 miles to the "T", turn left onto Mongold Hollow Road. Go about half a mile to Arbuckle, turn left and watch for the driveway and mailbox on the right.

If you think you're lost, turn your radio to 146.55 MHz and give a call to W3MMC Bob's Knob Bash. We'll talk you in!

Field Day Picture Sampler

Jason's collection of Field Day pictures, accumulated from several sources including N4DJG and K4PZZC, can be found on the web at:

<http://www.atrs.com/fd02/fd02.html>, and Neal's (N4XU) collection can be found on the ARRL's soapbox web page at: http://www.arrl.org/contests/soapbox/?con_id=13 by searching for N4XU.



KE4FM is affectionately known in the valley as "Kitty Cat Bill". Here is a rare shot of him enjoying one of his cat naps. Field Day attendees got to see him yawn, stretch, and even play with the catnip radio. The above picture was taken about 7:30 pm, which is Bill's normal bedtime.



KE4GMJ shows AD4TJ how to use an electric razor to cut through a pile-up and trim a neat moustache at the same time. The Mountain Dew and potato chips were used to tune up the rig.



Several hams have disparaged the 1990-era Kenwood radios by saying, "They are real dogs!" Someone at Field Day took this picture of a TS-570.



Brian, KG4RMY, arms folded, watches the screen closely, using his extra-sensory perception to make digital contacts. After several hours of study and coaching by Jason N4DSL, Brian finally took the plunge and put his fingers on the keyboard. Next year, perhaps, with enough practice, he might even be allowed to type something on it.



Many of the hams who spend the night bring their mobile Hiltons and Marriotts with them. These vehicles are comfortable, providing nice warm beds, drinking water, toilet facilities, and secluded places to eat those Oreos that you don't want to share with the other hams. Setting up and taking down a camper is a lot easier than it is with a tent.

Of course, other hams question the need to spend tens of thousands of dollars on such luxuries, instead preferring to spend the same amount of money repairing their Kenwood radios.

Joe, WD4LIG, talks into the microphone, while David AD4TJ in the background operates the computer to log the QSO. After logging 45 contacts, they both suddenly realized that the radio had not been turned on.



Alby, AD4KZ, patiently waits for his turn in the chair, while Brian KG4RMY and Ray, KE4HVR, intently study the on-line user manual to figure out how to turn the power on. Notice the horizontal polarization of Brian's HT antenna, reportedly the best orientation for long-distance contacts on 2-meters.



This large blue box is without question the single most important piece of equipment at the Field Day site. Its acoustical lining gives new meaning to the term, "Noise Blanker". Not shown is the small interior feature which serves as origin of the term "squelch tail".



Bob, K4DJG, wondering where he might have left his camera.



In preparation for dinner, a group of hams looked into the problem of why the steaks kept slipping through the grate and into the fire. After several hours of study, it was discovered that the slats on the grill were too far apart. Here we see the hams hard at work trying to move the slats closer together.

*Photos by:
N4DJG,
K4PZC,
and N4XU*

Being in close proximity to the Sugar Grove Naval facility, the hams decided to prominently identify themselves as American, lest an overflying aircraft mistake them for an Afghan wedding party. (Several people using the forest road through the field day site *did* mistake the operation for an Afghan wedding party!)



"A dime spent on the antenna is worth a dollar spent on the radio." Another axiom of aerials and skyhooks is that they always work best when there is snow and ice and howling wind present during their installation. It would be interesting to see how well this antenna performs if erected in February rather than June.

Below, Al, N3JB, painstakingly sketches a rough drawing of his wedding ring.

Al was the one who was kept asking, "Can you hear me now? Good! Can you hear me now? Good! Can you hear me now? Good! Can you hear me now? Good..."



Mike, KG400N, shows off his good logging form, not to mention a clean white T-shirt on top of it.



Upper Left: Al, N3JB, found several really-big signals on the band — so big they took two hands to operate the radio, as shown here. Underneath Al's right hand, you can see the sketch of his wedding ring. Beside him, Jeff W4PJW tries to squeeze the big contact into the small-sized computer.



To the left is the result of trying to squeeze a big contact into a too-small computer. Clint, KB4OLM, enlightened the entire east side of the Field Day site when he attempted to rectify the source of some arc noise. In the process, he re-created some early twentieth century experiments involving spark-gap transmitters. Four field day operators had to quickly remove their headsets to avoid being deafened. Neal, N4XU, mistook the spark for one of those new one-by-one special event call signs coming in at 129 wpm, and added another contact in the log.

Below: Do you recognize this ham? Hint: Think of a "Pink Juicy Watermelon", here showing what KE4GKD calls "his good side".



Above: Gordon WA4FJC, engages Gayle, KU4XN, in a lively game of tic-tac-toe.

Below: Neal N4XU writes down the complex instructions for how to wear sunglasses and a straw hat inside a trailer where it's shady, while Jeff W4PJW, uses the computer to look up the correct spelling of the difficult words, like "hat".



Above, the field day crew applies red duct tape to the top secret metal structure. This year it was discovered that when this mysterious structure is connected to all eight generators, it effectively prevents rain from occurring at Field Day.

Mealtime at Field Day is a sight to behold. The Friday night pot-luck dinner is one of the highlights of the entire weekend. By tradition, no one reveals what is in any of the dishes, making the occasion a perfect time to rid your freezer of that twenty-year old squirrel meat, the barracuda filet your brother-in-law in Florida gave you six years ago, or that skunk you shot in 1984 and didn't know what to do with, so you put it in the freezer and forgot about it. Boil it with some onions and garlic, set it on the table, stand back, and then smile and laugh as everyone else gobbles it up. This is the main reason why the dinner is so much fun, and why everyone is smiling and laughing.



Wonderful and medodious music was provided by Gerry, K4RBZ, shown here deftly plucking his see-through string bass.



Field Day Performance Sets a New Record – 9046 Points!

Below are the tables outlining the details of the combined MARA/VARA Field Day event. The table on the left lists the two-way radio contacts made by each of the stations, and the number of contest points earned by those stations. The table on the right shows the number of two-way radio contacts completed by each station, by band.

In total, there were 2054 CW points, 1299 Phone points, 430 Digital points, making a total raw point score of 3783.

Because of our maximum power, we multiply that figure by two, to yield a claimed score before bonus points of 7566.

We then add bonus points for being on 100% emergency power

(3 transmitters on the air at one time, 300 bonus points), media publicity (100 points), being set up in a public location (100 points), NTS message handling (100), receiving the W1AW Field Day message (100), eight formal NTS messages handled (80), making at least one contact using an orbiting satellite (100), having a public official visit the site during the operation (100), and using non-traditional modes (300 points). Total bonus points equal 1480.

Add the bonus points to the claimed score before bonus, and this gives us a total score of 9046 points.

Thanks to Dave AD4TJ for compiling the score.

Station	QSO's	QSO Points
CW	1011	2022
Phone	819	819
Digital	215	430
GOTA CW	16	32
GOTA Phone	258	258
VHF	206	206
Satellite	16	16

Band	Phone	GOTA	CW	Digital
80m	207	68	163	1
40m	240	39/16	433	96
20m	241	33	245	117
15m	77	19	157	1
10m	54	99	13	-
6m	201	-	-	-
2m	4	-	-	-
75cm	1	-	-	-

Prayers Needed for KF4EKV and KD4RD

I don't know how many of you know Ozzie KD4RD, but he is a member of VARA. Ozzie has been having some problems lately and has had some tests. He told me today at our regular luncheon at Kathy's that the doctor told him his tests show cancer of the pancreas and lung. He is taking chemotherapy, started with this week taking one treatment a week. He sure could use your thoughts and prayers. — Also, Sam Pickering, another VARA member, has been listening off and on to the repeaters, according to an email from his wife. His speech has been getting better this summer. He's walking better, not kicking so high, but he's still real slow. A few people at church have told me that he's easier to understand. Still has his bad days but that's true with all of us. He said to tell you all "hi".

Thanks to the Hams Who Helped at the Bridgewater Lawn Party

Once again, ham radio operators serve the community of Bridgewater during the annual Lawn Party and Parade.

Hams traditionally direct traffic and provide communications support, freeing up the police force and fire de-

partment to handle more important matters.

The Hams who helped with the parades in Bridgewater were, (Friday) Elwood KB4DJN, Dick KC3AN, Phyllis N4VZC, Gerald KN4FM, Brian KG4RMY, Ellsworth K4LXG & Jeanie, Billy

KG4JOF, Ray K4NRA, Nancy KG4JAZ, Kenny KE4GKD, Ray KE4HVR and myself Gayle KU4XN.

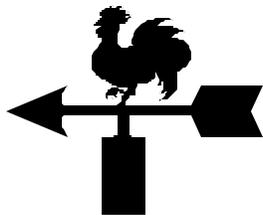
The help for Saturday were Brian KG4RMY, Gerald KN4FM, Kenny KE4GKD, Phyllis K4VZC, Dick KC3AN, Benny N4BCC, Ray K4NRA,

Nancy KG4JAZ, Elwood KG4DJN, Ellsworth K4LXG & Jeanie and myself Gayle KU4XN.

This is a good project as it helps support the repeaters. Thanks to all who helped.

GAYLE KU4XN

WN4JMU Weather Station on the Air



Tune in to 145.51 MHz simplex. Every five minutes or so, you may hear a packet burst at 1200 bps.

With a TNC and a computer, you can read a string of numerals. These represent the temperature and wind conditions at the new 80-foot tower on the JMU CISAT campus, near the overpass of Reservoir Street and Interstate 81.

The station puts out 1 watt into a vertical antenna located near the top of the tower. The wind speed is taken at the top of the tower, and the temperature readings are at the base of the

tower and inside the instrumentation box.

The station can be copied in most areas near campus.

The station is on battery power, but plans are to have the station converted to solar panel power sometime during the first or second week of August. The transmitter will be off the air during the conversion period.

The weather station is part of an experimental radio network, a collaborative project involving wireless networking students of Dr. David Fordham, KD9LA, and the wind-power researchers

under the direction of Dr. Jonathan Miles.

The project involves collection of wind speed and direction data to determine whether Harrisonburg is a suitable location for environmentally-friendly wind-power generation.

David's students are performing protocol analysis studies on various digital wireless techniques.

If you are interested in capturing and decoding the weather data, David will be happy to provide a telemetry key for the data string.

Ride Needed to Bob's Knob Picnic



David Gordon's mother is looking for a ride to the Big Mountain Picnic.

As you know, Dave and his wife and kids now reside in southwest Virginia, and his work schedule presently doesn't afford him many opportunities to visit the valley. David's call letters are KB4LCI, and he has been very active in our area until just recently, when he

moved south.

Mrs. Gladdis Gordon, who lives in Dayton, Virginia, needs a ride to Bob's knob this year. She is wheelchair bound and is looking forward to the event as a social highlight of her year.

Ellsworth Neff K4LXG, has taken the initiative to coordinate Gladdis' ride to the picnic.

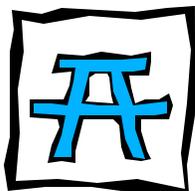
If you can assist in either bring-

ing Gladdis, or perhaps taking her home afterward, please contact Ellsworth at 540-433-3550 to offer your assistance, or call Bob at 540-852-3289.

Thank you very much for assisting. (Cab fare from Dayton to Bergton can get mighty expensive!)

Bob Niemeyer, W3MMC

Last Minute Picnic Stuff from W3MMC



I am looking for a few volunteers to haul picnic tables on Saturday, August 17th.

If you have a strong back and can spare a few minutes (it won't take long) please call and let me know.

We will meet at the Bergton Fair Grounds at 9:00 am Saturday morning.

Help will also be needed Tuesday evening to haul the tables back to the Fair Grounds.

Help at the grills and the famous bean kettle are still needed. The Bean Kettle chefs can arrive at Bob's Knob at 9:30 am Sunday morning. This is several hours before the "gates open", giving you an edge over the crowds in select-

ing your parking space.

We'll need some assistance at the serving tables beginning at noon, so that feeding can start at 1:00 pm.

Anyone interested in helping, please, please, call Bob at 540-852-3289, or email w3mmc@aol.com.

Thanks, Bob W3MMC

VARA President's Message

Hello to all. It sure was nice to see everyone at the last club meeting. Seems like we or I got long winded talking about Field Day and the up and coming Web Site and the picnic with the Model Airplane Club and Christmas Party, Swap Meet and a few other items so we did not get around to our presentation of Traffic Handling. So with the luck of the draw we hope to get it in this meeting date of August 6th. we hope also to hear some about the

Web Page being put together by Bob (N4JGO) with the help of Billy (KG4JOF), Richard (Kf4QZG), and Ray (KE4HVR) so make plans to attend the meeting and find out what is happening.

Yes, I did mention Christmas Party and with the help of Nancy (KE4PHP) and Kay (KF4CZL) making plans and locating a place to have it I feel sure it will be nice!!!

Back to the Model Airplane

Club and that sounds like an interesting plan to have a joint picnic and then be able to watch and maybe even fly some of the planes (with a buddy cord) if anyone is that brave.

So make plans to attend on August 18th (12-Noon) and have a good time and fellowship with all. Be sure to let Mike (KF4OON) know in advance if you plan to attend so they can make plans as to how many hotdogs and

hamburgers to purchase and directions to the picnic are in the VARA Secretary's Report this month along with how to contact Mike.

OK again I hope to see all at the next meeting and the joint picnic so until then take care.

de Ken
KE4GKD
73

Nickel Metal Hydride (NiMH) AA-sized Batteries Available

Editor's Note: The following email was received from Al Price, N4GOD, a member of JaxRANGE, a ham radio club in Jacksonville, Florida in which I maintain membership:

David, I have a supply of 1800 milliamp hour AA batteries manufactured by the famous NexCell company that I will make available to you and your club members.

You can check out the battery specs at their website: <http://www.starbatteries.com/nimhbatteries.html>.

These are brand NEW NiMH "AA" Rechargeable batteries @ 1800 mAh with over three times (3X) the power of your regular rechargeable AA battery.

You can ignore the prices on the StarBatteries website. I have a supply of them that I will sell to your club members for only \$2.00 a battery. Please have your members identify themselves as a friend of David, KD9LA of Jax RANGE when they order.

I can be reached via email at n4god@fdn.com, or by telephone at 904-389-9712. You pay shipping from my home in Jacksonville Florida. Quantity pricing is available.

Al Price,
N4GOD,
Jacksonville RANGE

Calendar of Events

August 1: MARA Club Meeting
 August 3: Skywarn Hurricane Class (Sterling)
 August 3-4: ARRL UHF Contest
 August 4: Berryville (VA) Hamfest
 August 6: VARA Club Meeting
 August 10: VE Examinations (Dayton VA)
 August 10: Huntington (WV) Hamfest
 August 10-11: Maryland-DC QSO Party
 August 18: Bob's Knob Picnic (BMRA)
 August 18: VARA Picnic
 August 20: Monitor Publication Deadline
 August 31: Shelby (NC) Hamfest

.... AND LOOKING AHEAD:

September 3: VARA Club Meeting
 September 5: MARA Club Meeting
 September 7: Skywarn Basics I Class (Howard County MD)
 September 7: Skywarn Net Control Class (Howard Cty MD)
 September 8: EMU Track Meet Public Service Event
 September 28-29: Virginia Beach Hamfest
 October 19-20: Bike Virginia Public Service Event

Second Telephone AutoPatch Now On the Air

Just over a year ago, a telephone interconnect was installed, covering the Shenandoah Valley with autopatch capability on the two-meter band (145.130 MHz).

Last month, a second autopatch was activated, this one on the UHF (440 MHz) band.

The new patch operates on the 444.775 MHz repeater, which itself uses 131.8hz PL Access Tone. The repeater is located on Lairds Knob (5 miles Northeast of Harrisonburg).

The 145.13 patch is a remote patch, while the 444.775 patch is a traditional autopatch integrated into the repeater itself. Thus, the two patches operate very differently.

Like the 145.13 patch, the new 444.775 patch is available to any local ham, by subscription. The price for the patch is \$25 per year. If you are interested you can mail your payment to:

Jason Armentrout
3028 Indian Trail Rd.
Keezletown, VA 22832

Please make checks payable to Tripp Denton. Included in the autopatch are:

- - 2 speed dial numbers of your choice
- - Reverse autopatch access for family members to call you.
- - Local access for Harrisonburg area, and also Toll Free numbers can be called if you want to use a calling card.

Once I receive payment, I will email (or mail, whichever you prefer) you the instructions for the patch.

If you have any questions please let me know.

Jason, N4DSL
Phone 540-269-8141

MARA Secretary's Report

MARA Club met at Evers Restaurant on Thursday, July 11, 2002

Our President, Ellsworth Neff opened the meeting with a welcome and introductions by all. There were 23 members and one guest present.

The Secretary's Report was accepted as written in the Newsletter.
The Treasurer's Report was given by Sandy, 01K4PZC
The total assets for the month of May were \$2,007.93.
The total assets for the month of June were \$1,848.85.

COMMITTEE REPORTS:

Public Service: The two days of the Bridgewater Lawn Party which we will be next involved in will be next Friday and Saturday which are the 19 and 20 of July. A list was distributed by Doug, N4DUG for volunteers. Gayle, KU4XN will be the acting Net Control as Doug will not be available the dates of the Party.

Emergency Communications: No Report

ARES: Call for volunteers to act as Net Control on the Monday Ares Net.

Volunteer Examiners: No Report.

Field Day Report: We want to thank KF4WWM for giving us a report which he received from David

Tanks regarding Field Day results.

Year 2000 8396 points qsl reports 2789

Year 2001 8948 points qsl reports none

Year 2002 9066 points qsl reports 2326

Old Business:

QRP Club: No meeting this month

Swap Meet: Report by Ellsworth – No date set as yet.

Kenny and David

Checking on Weyers Cave Community Center.

New Business:

No applications for new membership in the Club.

50/50 Won by Gerald Newman. \$8.00 to Gerald, \$8.00

to Club.

David Fordham told us of a packet station at JMU which will be available for our use.

Club Adjourned at 8:10 p.m.

Program: Ellsworth, K4LXG, showed a video he took while in San Francisco at the Maritime Museum. It demonstrated the different ages of Maritime Radio. It was interesting to hear the different sounds created by different frequencies using spark transmissions. Thank you Ellsworth.

Respectfully submitted,
Phyllis Haxton, Secretary

VARA Secretary's Report

The Valley Amateur Radio Association met at Shoney's in Staunton on July 2, 2002. President Ken Harris KE4GKD opened the meeting at 7:30pm. There were 16 members present and 5 guests, Bob VanFossen K4DJG, Jeanne Neff, Ellsworth Neff K4LXG, Bob Carlstrom WD4JEL and Kay Cook KF4CZL.

The 50/50 winner was Bill Shott W2ZVM, Bill donated his share back to the VARA. Thanks Bill!!

Jeff W4PJW gave the treasurers report of \$2,865 on hand as of July 2002. The report was excepted as read.

The Secretary's report by Ray Colvin KE4HVR was excepted as printed in the Monitor.

PICNIC: Mike Reno KG400N reported the model airplane club he belongs to would like to get together with the VARA and have a picnic Sunday August 18th at 12:00 noon at their flying field. **Directions to the field:** Take State Rt 612 East from the stoplight in Verona, just as you top the hill before the Middle River bridge there is an iron gate on your left leading up the hill to the field. The RC club will have some tents, tables, (a few chairs), grills, hamburgers, hot-dogs and drinks. There will be a few planes for the brave to fly with buddy cords. There will also be a static plane display. **They ask the VARA folk to bring a covered dish and lawn chairs. It would also help if we could have some rough count of those attending.** **PLEASE....Let Mike know if you plan to attend and he will contact the RC Club with a count.**
E-Mail: jmrenok@msn.com

We just happened to find out that Jeff Rinehart had a birthday on the same night of our club meeting. He was presented a desert and sang to by the staff of Shoney's.

Benny Cook N4BCC made 2036 points in the recent VA QSO PARTY Contest, Congratulations Benny!!!

The Club voted to send a "Thank You" letter for the Field Day use of the Denton truck in the past years to show our appreciation of their generosity toward the two clubs.

We have an offer from Bob McCracken N4JGO to do the VARA Web Page and keep it updated for only the cost of his membership. **There will be one contact person, Billy Hooke KG4JOF**, that will report to Bob. Richard Huttinger KF4QZG and Ray Colvin KE4HVR will assist in getting information to Billy for forwarding to Bob.

This year Bike VA SAG Communications will be handled totally by the Amateur Radio Clubs. This will be no different than in the past, except that the Bike VA people will be doing their thing and the Amateurs will be doing theirs. We will only do SAG and Communications for them. The date is Oct. 19th and 20th so mark you calendars and plan to help support your Amateur Radio Clubs in this event.

The Christmas Party committee has been appointed and consists of Kay Cook KF4CZL and Nancy Colvin KE4PHP. Thanks to these ladies for volunteering to accept this responsibility.

We have two members on the sick list at this time.

Joan Pitsenbarger KF4CWR, who has been taking radiation treatments and at this time only has two more to take. She has been doing well but toward the end they are making her more tired. Hang in there Joan!!

Frank Forsyth WD4LES had an accident, his car ran over him as they were pushing it back to jump start it in the Kroger parking lot. He has a broken shoulder blade, a cut on his arm, a swollen leg and bruises over 30 to 40 percent of his body. Someone got the car stopped before it hit anything. Take care Frank!!

Lets keep these two members in our thoughts and prayers for a speedy recovery.

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 has moved to the 146.850 repeater on the 2nd 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 Ken KE4GKD, Alby AD4KZ or Richard KF4QZG. We need to get some young people interested in ham radio so listen for any hints that they may like to know what it is all about.

Richard KF4QZG, 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, anything you think the group would find interesting.

The SWAP MEET e-mail that was sent out in May stirred some interest and the search for a location is in progress.

We have two new applications for club membership, Bob McCracken N4JGO and Bob Carlstrom WD4JEL. These two will be voted on at our August meeting.

The meeting was adjourned at 8:43pm.

Our Program in August will be on handling traffic and filling out the new forms by Greg Czerniak W4GRC.

Clint KB4OLM gave a report on between-station interference and the results were great. Hopefully we can set up all stations in the same locations and use the same band plan as we did this year, for Field Day 2003.

Submitted By:
VARA Secretary
Ray Colvin KE4HVR

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: Phyllis Haxton, N4VZC
Treasurer: Sandy Mullins, K4PZC
Board (exp. 02): Bob Tennyson, KG4CHL
Board (exp 03): Jason Armentrout, N4DSL

<http://cob.jmu.edu/fordhadr/MARA>

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: Ken Harris, KE4GKD
Vice President: Benny Cook, N4BCC
Secretary: Ray Colvin, KE4HVR
Treasurer: Jeff Rinehart, W4PJW
Program Manager: Richard Huttinger, KF4QZG

<http://www.hamsnet.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