

February 2002

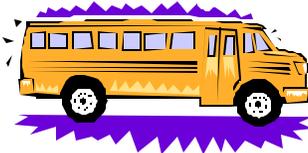
The Monitor

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



Your Last Issue?

This is the last issue of the Monitor for club members who did not renew their membership for 2002. Use the handy renewal form in the December or January issue of the Monitor, or come to the February club meeting to renew.



MARA Communications Van: The Time for Action?

One topic of business at the February MARA meeting will address whether or not to accept the gift of a communication van from Rockingham County. All MARA members should carefully read the report on page 2 of this issue, so you can intelligently discuss the pro's and con's of the decision.



Local Celebrity: Chuck Vogan, KD5KA

Check out your February issue of QST! The front cover photographs highlight a feature story by our very own valley ham, Chuck Vogan, KD5KA. Chuck took a motorcycle trip across the country with his wife and son and daughter-in-law, and used ham radio in some interesting ways. For example, while toodling down the highway at 70 miles per hour, they dropped an HT, which bounced along the pavement before sliding off into the median strip. The result of the inadvertant experiment? The HT still worked fine! Read about this and Chuck's other escapades in your February QST.

Editorial: Endorsement of Lynn Gahagan for ARRL SM

Members of the American Radio Relay League have received a voting ballot for the Virginia Section manager. While both candidates appear to be qualified, the editor of the newsletter, KD9LA, is joining Dale Showalter, N4DAI, the Rockingham County Emergency Communications Coordinator, Dave Gordon, former EC for Pocahantas County, and many others in endorsing Lynn Gahagan, AF4CD.

Lynn was instrumental in designing the Virginia emergency communications training programs. These programs are now being used by at least 12 other states to train their amateur radio emergency communicators. Lynn enjoys a great working relationship with the state and regional governmental offices and movers & shakers among the Commonwealth emergency and disaster response officials, including Tony Amato, the lead Virginia emergency communications officer. Given the renewed emphasis on Civil-Defense-type of involvement in emergency and disaster preparedness and recovery over the past few months, Lynn would make an excellent choice for a section manager.

Regardless of whether you agree or not, you are urged to return your ballot, letting your voice be heard and voting for the candidate of your choice. And if you are undecided about who to vote for, well, in our opinion, we recommend a vote for Lynn Gahagan, AF4CD.



Report: Information on Ownership of the Communications Van

It's been almost a year since Rockingham County offered to donate their communications command bus to the Massanutten Amateur Radio Association. As a chartered corporation under the laws of the Commonwealth of Virginia, MARA is legally eligible to hold title to the motor vehicle. The question is, does the club membership *want* to own a communications bus?

At the January meeting, I volunteered to research the costs involved, and report back to the club. Below are my findings.

Vehicle Description: The van is a converted school bus. The chassis was manufactured in 1975 by Ford. The school bus body was manufactured in 1976 by ThomasBuilt Buses, Inc. It is currently painted white, with Rockingham County emblems and signs, and a blue light bar. The interior is partitioned into two rooms separated by a lightweight residential-style door. The rear room holds a fold-down conference table, a built-in computer desk, several metal file-type cabinets, and has plenty of room for several folding chairs, or perhaps a small cot or two. The front room has built-in stations for three radio operating positions, including writing surface, two-tiered shelving, and utility drawer at each position. The bus currently has two small gas-powered generators, but reportedly one will be removed before title is transferred. The vehicle has two roof-mounted RV-type air-conditioners.

Physical Condition: The bus body is in fair to good physical condition. There is quite a bit of surface rust on the roof, and several rust spots at various places on the body, but no places where the metal has rusted all the way through. Structurally, the bus is in good shape. The operating condition of the engine, the condition of the suspension, air conditioners, generator, and other mechanical parts is unknown, but all are presumed to be operational.

Radios: The bus has three operating positions, but no radios or antennas. Due to the open nature of the wiring conduit on the bus, it should be a simple matter to install and wire connections for radios.

Tires: Someone had expressed concern that since the vehicle has been driven only lightly over the past few years, the tires may have dry-rotted. I checked the type of tires, intending to get some quotes from local tire dealers on used replacements. However, my inspection revealed no cracks, no hairline capillary scaling, no visible defects or flaws of any kind. To the contrary, the tires actually look to be in excellent shape. The tread itself looks in almost-new condition, and the sidewalls are solid and blemish-free. While this does not rule out invisible damage, it might indicate that the vehicle can be safely driven at slow speed for a few miles, followed by a professional tire inspection. It is my judgment (admittedly amateur not necessarily qualified) that we don't need to put new or replacement tires on it for many months.

Titling and Registration: The nomenclature plate on the bus states that its Gross Vehicle Weight at time of manufacture is 23,000 lbs. According to DMV, the GVW at time of manufacture governs the titling, registration, and licensing, regardless of later modifications or alternations made to the vehicle. Since the vehicle is under 26,001 pounds GVW, the vehicle is *not* classed as commercial vehicle. Therefore, the cost of titling and registration is: \$35 minimum transfer (sales) tax, \$10 title fee, and \$35 for regular truck license plates, making a total of \$80 the first year. Each year would require another \$35 for registration.

Drivers: While it was originally manufactured as a school bus, the seats have long since been removed. Therefore it is legally no longer a "school bus" from a driver-qualification perspective. Since it is not a school bus, and since the vehicle is under 26,001 pounds Gross Vehicle Weight, and will not carry material requiring haz-mat placarding, it does *not* fall under the criteria for a commercial vehicle. Therefore, the DMV ruled that no special licensing for drivers is required. Anyone with a valid drivers license can legally operate the vehicle, according to the local DMV office.

Passengers: The manufacturer's seats have been removed and have *not* been replaced with approved vehicle seats. Therefore, it is technically unlawful for the bus to carry any passengers (other than the driver) while moving on Virginia highways, according to DMV.

Emergency Vehicle Status: The county will likely remove the flashing light bar before conveying title. This means the bus will no longer qualify as an "emergency vehicle", so no special EV training will be required for drivers.

Insurance: Two agencies were contacted for insurance quotes. Agents were asked for rates, given the vehicle statistics. The rates were requested under the stipulation that only five named drivers with five-year clean driving records would drive the bus, it would be driven less than 250 miles per year, and would be restricted to a radius of 75 miles of Harrisonburg. — An agent with Rockingham Group, indicated that Rockingham Group itself will not insure the vehicle for a non-profit group having no paid officers and no track record of vehicle operation. However, he was able to get a quote from Progressive Insurance, underwriting \$500,000 PI Liability, \$100,000 property damage liability, no collision and no comprehensive coverage, for a premium of \$1394 for the first year. The rate is high because of a lack of history for the MARA corporation, and because Progressive wants a high liability coverage for an unproven organization. Rates would be lowered each year thereafter, assuming no claims are filed. The reductions are expected to be dramatic, but can not be determined at this time. — Bob Dudley, an agent with State Farm, quoted a rate of \$282 per year. Bob's policy gives only \$100,000 PI liability, with \$50,000 property damage liability, but does include a \$100 deductible comprehensive (covering fire, lightning, theft and vandalism of the bus itself, no contents or personal property coverage) but like the Progressive policy will provide no collision coverage. — Both agents said that the policies would not cover any radio equipment. Both indicated that a major factor in the premium rate was the club's lack of vehicle history, just like a new or teenage driver. This lack of history was causing rates to be high initially, and that as time passed, the rates would most assuredly drop. Both agents also said that collision coverage on such an old bus was probably not affordable and not recommended.

Storage Options: Dale N4DAI has indicated that we can park the bus on property owned by Broadway Metals when it is not in use. Dale also indicated he had access to a paint shop which could rehabilitate the rust areas on the roof.

Report submitted January 23, 2002 by David R. Fordham, KD9LA



And you thought you were having a bad day...

Bob, W3MMC, provided this picture entitled, "Fish Sticks".

We believe that more appropriate titles should include, "Chopper and Chomper", "Fins versus Rotors", "Saved by the Bell and Howell", "How to Catch a Great White", "Don't Try This at Home", "House Call by a Local Dentist", "A Bad Day Fishing is Better than a Good Day at Work", and our favorite, "Enron Auditors Enjoy Their Day Off"

Charlottesville Repeater PL Change: 151.4 Hz

Bob Fossen K4DJG, reports that the Charlottesville repeater, sponsored by the Albemarle Amateur Radio Club, on 146.760 MHz, has recently changed its PL tone to 151.4 Hz. Thanks to Bob for this update.

Satellite Dishes Available in DC

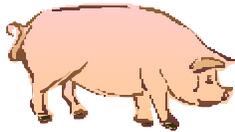
Does anyone need C-band satellite dishes to receive the NASA channel and other C-band satellite programming? My company (Washington Cable) has around 7 Harris Delta Gain 3-meter (10-foot) C-band antennas leftover from cable TV projects that have converted to microwave. These are commercial quality solid (not mesh) aluminum dishes that have 8 metal petals and can be transported by minivan. They are easily assembled with two people. We have them here in D.C. Is anyone interested in putting them to good use? If so, let me know and I can give you further details and photos. Perry Klein, W3PK telephone: 202-488-7430

N3JN: Plain or Filtered?

My Internet Service Provider has seen fit to start filtering emails from some computer sources that they consider insecure. If you try to email me and get a message back saying that the email was undeliverable, please try to send the email again, but to this address: jnelson@nelsontechnical.com — The email will end-up the same place, but will not be filtered out. — John Nelson, N3JN

Travels with Charlie... and Jay, and Gerry, and Dave, and Jeff, and E.C., and ...

Hams on the Go! Gerry Brunk, K4RBZ is having a blast hamming mobile while on an extended trip out west. Gerry has been checking in on 20 meters in the evening, and was in Arizona as this issue was going to press. David KD9LA had a great time on his recent trip to the sunny south, working nine countries from the car. He will be mobile again to Savannah in early February. Jeff Rinehart, W4PJW, also worked mobile HF on a trip to upstate New York recently, and Matthew, KD4UPL also worked HF mobile out of state. Jay Suter, W4QDC will be operating a DX-pedition to the island of Granada in early February so listen on the bands for a new J38 station. And E. C. Showalter, KG4KUR, recently migrated from his home in Weyers Cave all the way down to Florida for his annual winter suntan. E.C. doesn't yet have HF capability in the sunshine state, but he can be reached by email at: KG4KUR@hotmail.com



“Grade A” Ham: — Amateur Radio Examinations February 2

VE exams will be held at the Woodmen of the World building on State Route 42, just north of Dayton, Virginia, on Saturday, February 2nd. The cost of the session is \$10.

If you are an accredited VE and would like to help out, please contact Gayle Shull, KU4XN, at 540-828-2132. If you are not an accredited VE but would like to become one, call Gayle, too. Becoming a VE and helping others enter ham radio is easier than you might think.

Again, for your calendar, VE exams will be held this year on February 2, April 13, June 8, August 10, October 12, and December 14. The general rule of thumb is that VE exams will be held in Dayton Virginia on the second Saturday of the even numbered months. February is the exception. See you on February 2nd.

VE Question Pools Are Now on Four-Year Cycles

The Question Pool Committee of the National Conference of Volunteer Examiner Coordinators has announced that starting with the new Amateur Extra (Element 4) question pool released November 30 and going into effect this July 1, all question pools will be valid for four years. QPC Chairman Scotty Neustadter, W4WW, says the shift from a three to a four-year schedule will enable the QPC to do a better job in developing syllabi and pools for the various examination elements and allow more opportunities for public input.

GMRS, FRS, and MURS Frequencies

Thanks to Frank Green KE4ASC and David Tanks AD4TJ for the following information on General Mobile Radio Service, Family Radio Service, and Multiple Use Radio Service.

<u>Frequency</u>	<u>GRMS and FRS Channel</u>	<u>Frequency</u>	<u>FRS Channel</u>	<u>MURS</u>
462.550	GMRS simplex and repeaters	467.5625	FRS Channel 8	
462.5625	GMRS & FRS Channel 1	467.5875	FRS Channel 9	151.570
462.575	GMRS simplex and repeaters	467.6125	FRS Channel 10	151.820
462.5875	GMRS & FRS Channel 2	467.6375	FRS Channel 11	151.880
462.600	GMRS simplex and repeaters	467.6625	FRS Channel 12	151.945
462.6125	GMRS & FRS Channel 3	467.6875	FRS Channel 13	154.600
462.625	GMRS simplex and repeaters	467.7125	FRS Channel 14	
462.6375	GMRS & FRS Channel 4			
462.650	GMRS simplex and repeaters			
462.6625	GMRS & FRS Channel 5			
462.675	GMRS Emergency Freq			
462.6875	GMRS & FRS Channel 6			
462.700	GMRS simplex and repeaters			
462.7125	GMRS & FRS Channel 7			
462.725	GMRS simplex and repeaters			

Repeaters are allowed only in the GMRS service, and only on those GMRS frequencies not shared with the family radio service. Repeaters are not currently allowed in the FRS. GMRS repeater inputs are 5 MHz above the output frequency listed in the table.

MARA President's Message

First, I hope everyone and their families in our clubs had a nice and safe holiday season. I am looking forward to the year 2002 and wish all of you a happy and prosperous New Year.

Gerald Nauman, KN4FM, Chuck Vogan, KD5KA and I have been involved the past couple of months in teaching a ham radio class Monday nights at Eastern Mennonite University. We have 6 students who we hope will take the Technician Class exam at the next VE Session February 2.

I again wish to reflect on some of the things I would like our club to do or start this year:

Our club members utilizing other members for their expertise to help with personal projects, problems or plain old

physical help such erecting an antenna where more than one person makes it a lot easier or that person is physically unable to do so. The Membership Renewal Forms now have a section listing abilities and capabilities with which I am hoping a directory can be compiled where one can seek help. We have a tremendous pool of talents within our clubs that can be called upon.

More projects and activities where the members can participate. Some may wish to participate in a sub-group(s) within our club such as a QRP group, a digital-mode group, moon-bounce and/or satellite group, home-brew building group and so on. This would be other than our monthly meetings such as Saturdays or whenever.

The start of our own Hamfest for this area. This could start out as a "tailgate party".

There are many other activities and things we can do together along with our monthly meetings and I invite suggestions and ideas. Fellowship and fun are the keys.

I invite all to Evers Restaurant just north of Mt. Crawford for our next club meeting February 7. Bring a friend who may be interested in amateur radio. I have tentatively scheduled Gerald Brunk, K4RBZ as the program who will tell of his trip. Gerry and his wife, Shirley have taken a trip out west and many of our area hams have been in contact with him along the way.

Thank you.
Ellsworth K4LXG



VARA President's Message

Well I just would like to say "Hello" to everyone. With a Secretary like Ray (KE4HVR) who does such a good job with his report and covering the meeting so well, it makes my job easy. Let's not forget the contest coming up in the next few months. If you aren't working the contest and you hear someone who is, please take time and give them a contact. The next thing that we know it will be Field Day 2002 ("It never rains...") and we still need one more to volunteer to be on that committee so someone PLEASE step forward. Next month

Al Bonck (N3JB) will be giving a talk on loop antennas and will also have one that he built to show us and I understand that it is about six (6) foot in diameter!!! "Hope he can get it in the room" So we would like to welcome all members and visitors to attend the meeting and see what Al has made. With that I will just say 73 and everyone have a good year in 2002.

Ken Harris
KE4GKD



ENLIGHTENMENT!

Are you tired of going through flashlight batteries by the dozen? Looking for a lighting solution for those emergency mobilizations? KD9LA offers this cheap solution, assuming you already have a gel-cel or other appropriate battery in your jump kit. Use an el-cheapo reflector-type clamp-on work lamp (available for about \$4 from Wal-Mart). Cut off the 120v plug at the end of the cord, and replace it with connectors for your battery. Then, fit the lamp with a 12-volt 35-watt light bulb (sold for recreational vehicles, also at Wal-mart, for about \$2). The 8 amp-hour battery shown powers the light for several hours, providing plenty of light for a small room or your emergency mobilization position.

VARA Secretary's Report: January 8 Meeting

The Valley Amateur Radio Association met at Shoney's in Staunton on January 8, 2002. President Ken Harris KE4GKD opened the meeting at 7:30 p.m. There were 19 members present and 8 guests, Patsy Rinehart K4PJJ, Ron Burch W4ZEE, Ron Mecum (no license), Gayle Shull KU4XN, Mike Reno KG4OON, Craig Ducharme (no license), Gail Shull KG4JBF, Diane Smiley (no license).

REMINDER: It's time to pay your VARA dues for 2002...\$15 Full Member & 7:50 Associate Member. Make your check to VARA and send it to Jeff Rinehart W4PJW, 1344 Hankey Mountain Hwy. Churchville, VA 24421

February Program: Al Bonck N3JB will present a program on Loop Antennas and plans to have a 80M loop to show how it is built and tuned.

The 50/50 winner was Pat Smiley KD4WWF. Pat gave his part back to the club, Thanks Pat!

Paul Ruppert KG4GCA has a new web page set up for the club and is waiting for the web page committee of Cowles, Pat, and Greg to approve it. Paul volunteered to do the web page for the club at his first meeting. Thanks Paul, and we look forward to having you in the club.

New officers for the year 2002.

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

Thanks to our nominating committee of three Benny Cook N4BCC, Kay Cook, KF4CZL and Nancy Colvin KE4PHP.

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.

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.

Clint said they made around 1196 contacts and 625K points in the recent 10M contest, Good going guys!

David AD4TJ said he came in 3rd in the VHF Contest. Good job David!

We need one more for the Field Day 2002 Committee, Clint and Benny have signed up. If you would like to help with Field Day give Ken KE4GKD a call and he will add you to the list.

The FROSTFEST is coming up February 10th this year instead of being in January, mark your calendar now.

Gayle KU4XN reported the test sessions at Woodmen of the World in Dayton will be held on the 2nd Saturday of the even months and the cost is \$10 per test instead of per test session as it had been in the past.

The meeting was adjourned at 8:30pm

NOTE: Richard KF4QZG is back from a business trip to Singapore and retired from DuPont in December. Congratulations Richard!!!

Richard KF4QZG gave a talk on his company trip to Singapore. While he was there he searched the Internet and found a Ham Radio Club near by and attended their meetings. They were trying to get an organization like our ARRL started called SARTS. He explained some of the functions of our ARRL to them and tried to help them get started. Thanks Richard!!

Clinton KB4OLM and Jeff W4PJW gave a program on the packet cluster using an HT and a lap-top computer digipeating through a mobile radio to the packet cluster at Clinton's home in Stuarts Draft. They explained the uses and advantages of the digital mode during emergencies, contests and while working DX from your radio at home.

Clinton also had another monitor connected for better viewing of others in the room. The Packet Cluster can be used to find DX SPOTS, SENDING e-mail and to send and receive FILES & BULLETINS. You can also send a short message directly to another person connected to the cluster, OR, You can go into converse mode and type back and forth like some of the Internet programs. Thanks to Clint and Jeff for a good program!!

Submitted by
VARA Secretary
Ray Colvin, KE4HVR

A local ham operator brought his 5-year-old son to the ham radio luncheon recently. While daddy was in line to order the meal, the little boy struck up a conversation with another ham who was already eating. When the ham introduced himself to the little boy, the kid's eyes got wide. "Have you ever heard your daddy talk about me?" the ham asked. "Yes," the boy nodded. "Daddy talks about you all the time," he continued, "and when I get big and get a job, I'm going to give you lots of money." This surprised the old-timer, so he said, "well, that's very nice of you, but why would you want to give me money?" The little boy replied, "Well, daddy always says that you are absolutely the poorest ham radio operator he's ever heard on the air in his entire life!"

MARA Secretary's Report

The 2002 January meeting of MARA was held on January 3rd at the Ever's Restaurant. The meeting was presided over by Ellsworth Neff, President. There were 24 members and one guest present.

The meeting began with the election of four new members. We are proud to have the following new folks sharing their experience and expertise with us. They are:

Carter Ritchie	KG4PRP
Robert P. Van Fossen	K4DJG
Daryl Coffman	KG4PRR
Benjamin Vogan	KG4IWA

We have a membership renewal form from Joseph Moshier, KF4QPC.

III Committee Reports.:

a. Treasurer: Sandy, K4PZC: No Report

b. ARES: Dale, N4DAI As of this date our club has not accepted the "Command Bus " which the county offered to us. There was much discussion as to the practicality of acquiring it. A motion by Ritchie Ray was made as follows: Dave Fordham will look into all aspects of this acquisition (upkeep, repairs, sponsors, etc.) and will report his findings to us at the next meeting. This motion was seconded by several and was passed by those members present.

c. ARES Net: Norman, KA4EEN Net control operators are needed for the weekly net.

d. VE: Gayle, KU4XN Tests will be held on 02-02-02 which is the first Saturday in February. Four examiners are needed in order to make the test session for new amateurs successful.

e. Field Day: Rusty N4YET, has built a new generator which may be used at Field Day. It has a 27 horse power Diesel engine.

IV New Business.

50/50 drawing. The club took in \$16.00 as Bill Edmonson donated his share of the drawing back to the club to be used as part of the bus fund.

V: Program:

Chuck Vogan gave us a demonstration of the K1 rig . The K1 is a QRP transceiver. He took advantage of his woodworking skills to build a very compact and versatile small cabinet which houses two radios (theK1 and a 20 meter radio) including batteries and antennas.. Thank you for this demonstration of the progress you have make over the past year that you have been involved in Amateur Radio.

Phyllis M Haxton, N4VZC, MARA Secretary

Things to Do...

February 1-3: QSO Parties for Delaware, New Hampshire Vermont, Minnesota, Ten-Ten International, North American Phone Sprint, and the "Freeze Your B__s Off" Winter QRP Contest

February 2: VE Examinations in Dayton Virginia

February 3: Page County ARES Net: 146.67 repeater

February 4: Rockingham County ARES Net 146.55 simp.

February 5: VARA club meeting, Shoneys in Staunton

February 7: MARA club meeting, Evers in Mt. Crawford

February 8-11: Winter 6-meter Contest

February 9-10: North American Sprint Phone

February 9-10: Utah/Olympics QSO Party

February 10: Frostfest in Richmond

February 10: Page County ARES Net 146.67 repeater

February 11: Rockingham County ARES Net 145.13 rpt

February 14: Augusta County ARES Net

February 16-17: ARRL DX Contest CW Weekend

February 17: Page County ARES Net 146.67 repeater

February 18: Rockingham County ARES Net 145.13 rpt

February 22-24: CQ WW 160-meter SSB Contest

February 23-25: North Carolina QSO Party

February 24: Galax Hamfest

February 24: Page County ARES Net 146.67 repeater

February 25: Rockingham County ARES Net 145.13 rpt

— AND LOOKING AHEAD...

March 2-3: ARRL DX Contest Phone Weekend

March 3: Vienna Virginia Hamfest

March 5: VARA Meeting: Shoneys Staunton

March 7: MARA Meeting: Evers Mt. Crawford

March 16: Charleston WV Hamfest

March 16-18: Virginia QSO Party

March 30-31: CQ WPX SSB Contest

April 6-7: Baltimore Maryland Hamboree

April 13: VE Exams in Dayton Virginia

April 14: Raleigh NC Hamfest

April 20: Chesapeake (Norfolk) Hamfest

May 17-18: Dayton Ohio Hamvention

June 2: Manassas Hamfest

June 8: VE Exams in Dayton Virginia

June 22-23: 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: 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