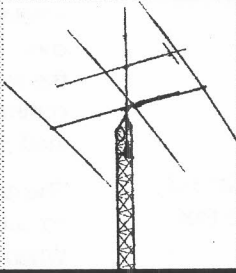


The AARC Beacon



*Amateur Radio News For
Charlottesville and
Albemarle County,
Virginia*

Volume 2001, No. 11



November 2001

Inside this Issue

- 1 Meeting Notice
- 1 AARC Club Officers for 2002
- 1 VE Test Session - November 17
- 2 The President Speaks
- 2 Veep Peeps
- 3 Another Year Nearing the End
- 4 Ham Radio Demo for Apple Harvest Camporee
- 4 Crossband Repeat - Part 3
- 5 Club Business
- 6 Disaster Assessment Class Scheduled
- 7 AARC Classified Ads
- 7 Area Hamfests
- 7 Birthdays This Month
- 7 FCC Database Updates
- 7 VE Session Schedule - 2001

MEETING LOCATION CHANGED FOR NOVEMBER
The AARC November meeting on November 13th, will be held at:
THE MARTHA JEFFERSON HOSPITAL CONFERENCE BUILDING
located at the SE corner of 10th and Little High Street.

Sgt. Richard Martin of the Albemarle County Police Department will be the guest speaker. He will cover Neighborhood Watch and any issues he or the membership wish to discuss, pertinent to amateur radio. See you there!!

AARC Club Officers for 2002

Your new club officers for the year 2002 are:

President	K4DU	Bob Pattison
Vice President	KG4NGV	Josh Malone
Secretary	AG4DN	Marty Mait
Treasurer	K4CFE	Ralph Traylor
Director	KF4ZGD	Steven Traylor
Director	KJ4XZ	Will Seay
Director	KX4P	John Green
Director	KG4JLL	Pete Thorsen
Director	KD4HBX	Steve Clements

VE Test Session - November 17

The AARC will sponsor a VE testing session this month.

When: 9:00 AM on Saturday, November 17

Where: NRAO Auditorium, UVA Campus, C'ville

***** Monitor repeaters for possible location change notice *****

*** WALK-INS ARE ALLOWED ***

Contact: Harry Dannals, W2HD (804) 974-7388

The President Speaks

Stan, K2SSB

First of all, I would like to thank Rick, KO4WQ, and his committee for all of their hard work to put together a slate of officers and directors for the coming year. Rick told me that he had contacted over fifty people in his effort to put together the slate that he presented. Even with all that work, the slate had three vacancies.

And second, I would like to very much thank the three people who volunteered to fill those vacancies. These were Josh, KG4NGV, as Vice President, Pete, KG4JLL, as Director, and Steve, KD4HBX, as Director. I extend my best wishes to all of the officers and directors for 2002.

I invite the new officers and directors to attend the December meeting of the officers and board. It will be held on Tuesday evening, 3 December, in the Jefferson Room of the main library on East Market Street, Charlottesville, at 7:00.

In the meantime, let's all sharpen up our emergency preparedness skills. It appears that our national security will not be back to normal for some time to come. We should be prepared with transceivers for 146 MHz, 440 MHz, and even perhaps 222 MHz, along with ample sources of emergency power, portable antennas and RACES authorizations.

This, after all, is the "price" each of us must pay for the privilege of having exclusive (in most cases) use of valuable radio spectrum, spectrum that plenty of commercial interests are constantly trying to pry loose from us. The cliché, "Use it or lose it" was never more true.

73, Stan

Veep Peeps

Vic, N3DFS, with input from Greg, N4PGS

RACES Participates in Annual SET

SCOTTSVILLE, October 13, 2001.

"A school bus transporting 16 elementary school students was hit by an 80-car CSX freight train here today, killing the driver and seriously injuring several of the students. There was an additional fear that some overturned containers might have contained hazardous materials, which would have seriously complicated any rescue effort."

Such a scenario, hopefully, will never have to be played out in real life.

Mass casualty drills are required annually by FEMA. This one had been postponed twice since April, the last time, it had been scheduled for just after the 9/11 terrorist attacks.

Amateur radio (RACES) again played a part by providing communications between officials at the scene, at the school, the rescue squad and elsewhere. Their own official communications were overtaxed and sometimes simply ineffective.

The drill was supposed to start at 10AM and our RACES volunteers were to show up at the staging area around 9AM. When some of our first units arrived before 9 AM, they were quickly preempted into service as the drill started earlier than we planned. Being flexible, our RACES group met the challenge.

Greg Faust/N4PGS, EC of Charlottesville-Albemarle County, acted as primary net control for most of the exercise. Control had to be shifted, however, as the scenario unfolded and amateurs were forced to relocate. This was viewed as normal during any exercise, and accentuates the need for amateurs to be prepared to act in that capacity.

Net control for the RACES communications was conducted primarily on 147.540 MHz simplex. This proved problematic, given the terrain involved. The problem was largely alleviated when Dave Damon/K4DND, DEC, brought his portable UHF repeater on the air (440.800 MHz). Even the Scottsville police chief had problems: he could not communicate from the incident site via his HT; he had to borrow an FRS HT from the Fire and Rescue Squad.

The American Red Cross and The Salvation Army also had volunteers on the scene to "provide comfort, counseling, food, water and shelter for the mass casualties" and for the workers involved. The Red Cross ERV was deployed across the tracks from the incident-in harm's way had the hazmat fear turned out differently. The Salvation Army van was deployed in another high-activity area. The roles of each organization, all volunteers, like RACES, are vital in any disaster. Their services may only be required for a few hours, yet there is still a Red Cross shelter in operation in New York after the 9/11 terrorist attack.

All radio communicators did a fine job with backup communications and in some cases provided the only link between various agencies on the scene. Most of our hams were used as 'shadows' to follow key individuals around the drill site and keep them in touch with the SET activities.

Many mistakes were made by the officials and the RACES volunteers. Some of us (please note that I used the first person, plural!) had forgotten how to input CTCSS tones into our HTs. Most of us forgot, at times, to use the required caveat "This is a Drill". Some officials could not be contacted for long periods. Almost all communicators failed to add the caveat "This is a Drill." It was recognized that local officials need to upgrade their communications with their schools, school transit offices and emergency communications officials.

All in all, however, we "done good". Despite mistakes, everyone took his/her role seriously. The Fire and Rescue

Squad personnel - all volunteers – performed their roles exceptionally well.

RACES participants were:

KE4UKW	Kaye	K4DND	Dave
N4FWA	Hein	KD4NRE	Al
KG4NGV	Josh	KA0JG	Joe
N3DFS	Vic	KF4UCI	Elmer
WD4CEN	Jerry	KG4DCY	Debbie
KJ4XZ	Will	K4EBL	Dick
N4PGS	Greg		

After enjoying a nice lunch at the Rescue Squad, Greg, and later Kaye Harden, Emergency Services Coordinator, Albemarle County/Charlottesville, led a critique, where many of the mistakes and all of the "rights" were aired.

This amateur believes that the media should be encouraged to recognize the work of ALL the volunteers: Scottsville Fire and Rescue Squad, RACES, Red Cross, Salvation Army, and all involved. It is realized that time and space are the enemies in that endeavor, but we should give it a good try.

P.S. --- There are several interesting articles in the November issue of QST. Some of the most important - and touching - are letters from Hams abroad (Correspondence) who express their sympathy and solidarity with us in our time of troubles. Amateur Radio operators are truly Ambassadors of Good Will!

73, Vic

Another Year Nearing the End

Harry, W2HD

The holiday season is just around the corner and I'm saying, "Where did 2001 go?" It doesn't really make any difference because the stores are beginning to show signs of the season. The toy section of the local stores is having the shelves stocked with all kinds of stuff for the kids. It has been said that a man is known by the "toys" he possesses. Of course, our "toys" are not blocks and the games of the young sons, grandsons and nephews we know. Our "toys" tend to be a bit bigger, possibly costing a few more dollars, too (but not necessarily so these days!) Incidentally, don't think I'm making myself out to be a male chauvinist. This month's column is addressed to ALL Ham Radio operators... just change a few words above and that will take care of everything!

The important thing to realize is that we have radio equipment... many have something a little bigger and more expensive, but we have what we can afford. However, regardless of the rig... whether a Blooperdyne 7388 or just a

little Miniwatter ... each of us dreams of something a little more elaborate. Well, fellas and gals, that's more of a dream than anything else, but that's not the end of the story. The holiday season can be a time to add a little extra here and there. The Blooperdyne rig might need a Blooper Amplifier to become the big signal on the band. Perhaps, the station should have a new multi-band Blooper Antenna system... how about stacked yagis? Well, let's leave good old KW Joe with his big station and come down to earth where most of us live.

Is it really necessary to have all that gear and keep the power company in business? Not really! There are a great number of stations with relatively low power who day in and day out have more success and fun, too, with much less. They do it with smarts! To those in this category, a holiday gift-receiving list might include a choice of a good Amateur Radio book or publication, a VSWR Bridge, a simple VOM or perhaps a 24-hour clock with GMT setting capability.

Most of these items are not a tremendous strain on the giver's budget. Books might include a copy of the latest ARRL Handbook or the Antenna Book. Both publications look good on the desk or in the bookcase and will provide lots of good information. A publication could be a year's membership in the ARRL which includes the monthly magazine, QST, which is a fountain of information and makes a good building block for next year's gift-receiving list. VSWR Bridges come in all shapes and flavors. There are fancy digital types which don't require reading a meter, simple units with crossed needle indication and the tried and true zero the meter in the calibrate position and switch to read SWR. A few dollars separate the entire field. While on the subject of VSWR, maybe an antenna matching unit would be in order for the Ham who can't put up the simple antenna with coax feed and must use the random hunk of wire out the window approach. Now, there are a bunch of suggestions!

The VOM price range is also a very interesting variable. You can range from the simple pocket type all the way to the fancy Fluke meters with the big price tag. If all you do is measure 12 VDC and the 115 VAC line plus simple shorts and opens on cable, there is no need for the fancy, high price unit. You will obtain fine results with the 3x4 Sears or Radio Shack varieties for that work.

I'm sure that a glance through the latest AES or HRO catalog, coupled with a quick look at the latest issue of QST, CQ or Brand X will bring many other items in the modest price range into view. You may still look at the Blooper Amplifier and the stacked yagis and dream a little, but you won't be any happier than you will be with the modest gift lovingly received on the special day of the year.

73... /s/ Harry, W2HD

Ham Radio Demo for Apple Harvest Camporee

Dennis, WR4I

I was called upon again this year to do a Ham Radio display at the Boy Scout Apple Harvest Camporee at Fork Union airfield. The weather turned out great so I decided to bring along my solar panel to demonstrate yet further how "independent" we Hams can be in the event of a disaster (natural...or the "other kind"). The "hit" of the display was not talking on SSB to other hams but watching me send and receive "Morse code"! I had the kids lined up for me to send their name in CW. I wrote it on a piece of paper first and did the "dot/dash" thing over each letter of their name. Then I demonstrated using my Whiterook red paddle/keyer and then I let them try their hand at it (not transmitting...of course!). I also had several Tech Ham Scouts who were eager to learn CW after they saw the demo. Several of the parents commented "oh, your Uncle so and so used to do Morse"...or some of the adult Scout Leaders. "I remember that when I was a Scout!".

All in all it was very successful demonstration and hopefully "Harvested" some budding hams! I am with Den #7 Webelos Den, Pack 492. More information on the Camporee can be found on the Web at

<http://www.people.virginia.edu/~dft9d/AppleHarvest/AppleHarvest.html>

73, Dennis

Crossband Repeat - Part 3

Gary Pearce KN4AQ - reprinted from the SERA Repeater Journal, August, 2001(Tnx to Dave, K4DND)

One Way Crossband

If you can hear the main repeater on your HT, and you have the right kind of dual-band HT, you can employ a technique called one-way crossband repeat. But your HT has to be a TWOBAAT, not an OBAAT. That's Two Bands At A Time versus One Band At A Time. Your HT will have to let you listen on VHF while you transmit on UHF. That cuts the field back a little at HT buying time (my Icom W32 is ideal). If you are so equipped, you've got a good chance of being able to hear the repeater directly on the HT, since most repeaters out-talk their HT range significantly. You just need a little more oomph to hit the repeater, and the crossbander can help.

A few Kenwood mobile models have one-way crossband repeat modes built in. Most other mobiles do not. But you're not out of luck. Any radio can do one-way. Just don't

tune the VHF receiver to the repeater! If it can't hear the repeater, it can't get stuck sending it out to you on UHF!

To set up one-way crossband, I usually tune the mobile receiver to the repeater's input. In other words, I make the VHF side of my radio simplex on the repeater input. It may repeat other mobiles out to me if they're in range, but that's no problem - those mobiles don't have hang time. And I'm not even listening to them on UHF. And there are other tricks to keep all signals out of my VHF receiver if I really want to. I can use CTCSS to guard it (unless the repeater I'm using needs me to send CTCSS). More on that in a minute. Or I can program my mobile for a non-standard repeater offset. The transmitter will still be on the repeater input, but the receiver will be off in limbo somewhere, in a quiet part of the band. Programming non-standard offsets is a fairly advanced concept most hams never touch in their radios, so you'll be digging out the manual for that one (at least it will be in the manual).

One other point. You'll want a handheld that mutes both bands when you transmit, or you'll end up with feedback. Older radios, like my vintage Icom W2A, did NOT mute the VHF band when you transmit on UHF, and vice-versa. A few other older models didn't, either. If you've got one of those classics, you can solve the problem by using an earphone.

That's about all you can do from your end. Your next step is to plead with your repeater's technical wizard to make a:

CROSSBAND REPEAT FRIENDLY REPEATER

There are a couple of things that can be done to make a repeater more "crossband repeat friendly." And not all repeater owners are interested in being crossband repeat friendly. Some owners think that crossband repeat is a nuisance or worse, and will run you off for doing it.

But if your repeater tech crew takes a more positive attitude, they can shorten the hang time to a second or less. This may instigate long, philosophical discussions of the nature and purpose of hang time. But the short of it is that a short hang time makes crossband repeat much easier. Another more complex alternative is to use CTCSS on the repeater output to help control crossband repeaters. This takes some tricky engineering, but perhaps the repeater's CTCSS can be controlled to be present only when the repeater's receiver is active, and drop off during the hang time. Then you can use CTCSS decode in your mobile for receiving the main repeater and controlling your crossbander. Most dual band mobiles have this ability today. The result is that your crossband repeater ignores the main repeater hang time. When the CTCSS drops, so does the crossbander.

There are some interesting effects when this method is employed. You, using your UHF handheld, feel more like you're in a simplex QSO - no beeps, no hang time. And every repeater user with CTCSS decode can turn on their decoder for a unique experience. When there's traffic on the

repeater, they hear voice, then silence, voice, silence. No squelch tails, no beeps.

Maybe the repeater gurus don't want to do all that, but you might be able to persuade them to at least set it up that way during a public service event. But if you don't get a chance to practice your crossband repeating, you'll be hard pressed to make it work the way you expect when it's crunch time.

IN-BAND REPEATING (And Why It Can't Be Done)

You are really getting the swing of things. You're flipping on your crossbander and grabbing your HT any time you need that extra mobile boost. Two-way, one-way, take your pick, you have it knocked. And one day, you stare at your display and realize that your radio is good for VHF/VHF or UHF/UHF reception. That is, two channels in the same band at the same time. A neat trick many dual-banders are playing today. So you wonder, if my radio will cross band repeat, maybe it will in-band repeat? Why not?

The answer to 'why not?' is about the size of a two-drawer filing cabinet. It's called a duplexer (I believe W4FAL has a column on duplexers in this issue). What you're asking your little mobile radio to do - with the peanut size diplexer that lets you run both bands on the same antenna - is the same thing the big repeater on the hill is doing: receive with full sensitivity when there's a high power transmitter operating on the same antenna just a few hundred kilohertz away. That kind of magic takes big iron. A full size duplexer. And a lot of shielding in the radio. Fill your back seat with these tuned filters and you're almost in business. But even then, your radio isn't up to the task. You'll need to cut into the radio and bring out a separate receive antenna connection. So you probably get the message - it won't work. It's that wide separation of a few hundred Megahertz that lets your crossband repeater work its magic.

[To be continued next month... Ed].

Club Business

AARC Board Minutes October 2, 2001

Present: Stan Hazen, K2SSB, President; Mike Colburn, N4HRO, Director; Vic Vickery, N3DFS, Vice President; Steven Traylor, KF4ZGD, Director; Ralph Traylor, K4CFE, Treasurer

Absent: Joe Fritz, KW4RWX, Secretary (gave notice); Dick Mullikin, W4BZW, Director; Greg Faust, N3PGS, Director; Elmer Scott, KF4UCI, Director (gave notice)

The President convened the meeting at 7:00 pm. In the absence of the Secretary, he took the minutes.

Vic reported that he has reserved the Jefferson Room at the Central Library on East Market Street, Charlottesville, for the November and December meetings of the Board of Directors.

Ralph reported that there has been no change in the bank account balance for the past two months. He noted that Ron Richey has two bills; one is for \$40 for drinks for the August picnic, while the other is for \$20 for SARA membership.

Vic agreed to ask Harry Dannals to check on the availability of the Wood Grill Buffet for the family dinner meeting in January.

Ralph reported that he and his son, Steven, demonstrated amateur radio at a meeting of the Civil Air Patrol on 1 October. They discussed with CAP personnel the possibility of sharing or trading speakers for meetings. Ralph said that he was not sure how large the local CAP group is, but noted that we could use in emergencies or drills any or of them who held an Amateur Radio License.

Vic reported that the Red Cross disaster assessment training program is on "hold" because all of the officers are in New York City to assist with the cleanup necessitated by the terrorist attack on the World Trade Center.

The meeting was adjourned at 7:35 pm.

Stanley S. Hazen, Acting Secretary

Regular Meeting October 9, 2001

The president, Stan Hazen, K2SSB, called the meeting to order at 7:30 PM and started introductions.

Ralph Traylor, K4CFE, provided the Treasurer's report.

Rick Berman, KO4WQ, chairman of the Nominating Committee presented his committee's slate of candidates. They were:

President	K4DU	Bob Pattison
Vice President	Open	
Secretary	AG4DN	Marty Mait
Treasurer	K4CFE	Ralph Traylor
Director	KF4ZGD	Steven Traylor
Director	KJ4XZ	Will Seay
Director	KX4P	John Green
Director	Open	
Director	Open	

Rick Berman, KO4WQ nominated Josh Malone, KG4NGV for Vice President and it passed unanimously.

A discussion of the election rules followed and Ed, K1EE moved that the elections be delayed until the November Meeting. After more discussion and reference to the Bylaws by Greg Faust, N4PGS, it was discovered that the elections must be held at the October meeting. Ed, K1EE then withdrew his motion.

After a request for volunteers from the attendees for the remaining open positions the following members stepped forward:

Director Pete Thorsen, KG4JLL

Director Steve Clements, KD4HBX

Rick Berman, KO4WQ moved that this slate be accepted by acclamation. It was seconded and the motion carried unanimously by the membership.

Greg Faust, N4PGS announced that the SET Drill at Scottsville, rescheduled for October 13, was still on. Hein Hvatum, N4FWA added that this was a serious drill and that we hams may be pushed.

Ron Richey, K4RKA announced that he and Steve Clements, KD4HBX would have a Freefest prior to the next meeting with items denoted to the club.

Joe Giovanelli, W2PVY asked about progress on the club's 70-cm repeater and Dave Damon, K4DND said that there will be no immediate progress since the status of the Marshall Manor site is in a state of flux.

Vic Vickery, N3DFS introduced Joe Giovanelli, W2PVY who presented details on a crystal set design that he has been experimenting with. He provided a demonstration of the hardware in addition to details of his design.

Greg Faust, N4PGS noted that the Bylaws Committee was dormant over the summer.

Rick Berman, KO4WQ moved for adjournment and the meeting was adjourned.

Submitted by Acting Secretary, Dick Mullikin, W4BZW

Additional restructuring by Joe Fritz, KD4RWX.

I wish to thank Dick, W4BZW for recording the Minutes for this meeting while I was out of the state. I have made slight correctional additions to his notes and report the following summary results of the election held during the meeting.

I offer the thanks from the Club to the Nominating Committee for their work and efforts in putting together the slate. It can be a frustrating activity.

The Officers and Directors elected for the 2002 year are as follows:

- President K4DU Bob Pattison
- Vice President KG4NGV Josh Malone
- Secretary AG4DN Marty Mait
- Treasurer K4CFE Ralph Traylor
- Director KF4ZGD Steven Traylor
- Director KJ4XZ Will Seay

Director KX4P John Green

Director KG4JLL Pete Thorsen

Director KD4HBX Steve Clements

They will assume office on January 1, 2002 and conduct the first meeting at the January Board Meeting. Date will be determined, since Jan 1st is the first Tuesday of the month and is a holiday.

Submitted by Joseph D. Fritz, Secretary

Disaster Assessment Class Scheduled

Vic, N3DFS, Communications Coordinator

The American Red Cross will present the "Disaster Assessment" class on Tuesday, November 20, 2001, at 7:00 PM at the Chapter building at 1105 Rose Hill Drive. It will last about two and a half hours.

The work presents an ideal application for amateur radio. Hams drive around the damaged areas (after the fact, of course) and report their findings. This data is passed on to civil authorities so that they may more rapidly assess the total damage.

Eight amateurs have indicated their desire to take the course. Others are encouraged to participate. Non-ham family members or friends are also encouraged to take the course. Any others interested are also invited to attend. Non-hams could do the driving, leaving the amateurs free to assess and report.

Keila Rader, the Executive Director of the Central Virginia Chapter, ARC, is a dynamic and experienced instructor. She just recently returned from the World Trade Center disaster site. She saw first-hand the worst damage ever wrought in a single incident in the United States.

The course, as well as the actual assessment work, should prove very interesting.

AARC Classified Ads

All items must be related to amateur radio and must be surplus to the owners operation (i.e. no dealers or for profit). Price may be listed if desired. **Note:** Check also the WA4TFZ/AARC web page at <http://www.people.virginia.edu/~ejd4e/aarc/>. Please note that all small letters must be used for this address. New Ads may be placed directly to the Editor: 804 990-2659 or via E-mail to the Editor at k4uvt@yahoo.com Please **let K4RKA know when items can be deleted from this file.** Updated 9/20/01.

9/6/01 FOR SALE: HF Cubical Quad	John, WA4IUN, has a Lightning Bolt 2 element cubical quad antenna, 5 band, 10-20 meters for sale. Call 296-9016.
9/20/01 FOR SALE: Icom 228H 2M Mobile	Bob, K4UVT, has an Icom 228H 2M Mobile rig with mobile mounting bracket and DTMF microphone. Also still have the manual! This rig still works FB – it just doesn't fit anywhere in the new automobile! Call 804 990-2659.
9/28/01 WANTED: 2M/440 Transceiver	Marty, AG4DN is looking for a dual band 2M/440MHz handheld. Should be fairly new (within 5 years) and must have a manual. Call 589-2825 or email to mandlm8@aol.com
10/25/01 ***FREE***: QST Back Issues	Ernie, W2EIU, has 9 years worth of QST to give away. Call 985-4180.
9/20/01 FOR SALE: Bencher Paddle/Keyer Timewave DSP	Rick, KO4WQ, offers a Timewave DSP599ZX digital signal processor. Bencher paddle & keyer. Call 823-1128.
8/16/01 WANTED: Dual Band Mobile Antenna	Josh, KG4NGV, is looking for a dual band 2m/440 mag mount antenna. Call him at 804/434 760-0417 (mobile phone)

FCC Database Updates

New Calls	
None reported	
Upgrades	
None reported	

VE Session Schedule - 2001

November 17 Charlottesville (ARRL VEC) AARC	Harry Dannals (804) 974-7388 9:00 AM (Walk-ins allowed) National Radio Astronomy Observatory Auditorium Edgemont Road UVA Campus Charlottesville, VA 22906
November 18 Lynchburg (ARRL VEC) AB4M	Charles L. Beard (804) 832-7651 1:30 PM (Walk-ins allowed) Central Virginia Comm. College Room 2504 - Amherst Bldg 3506 Wards Rd. Lynchburg, VA 24502
December 8 Madison (ARRL VEC) Madison VE Team	John Berry (540) 543-2580 Email: af4cy@arrl.net 9:00 PM (Walk-ins allowed) War Memorial Building Main St. Madison, VA 22727

Area Hamfests

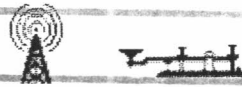
None Reported

Birthdays This Month

Nov 7	KD4TOR	Bill
Nov 8	W4CZY	Billy
Nov 8	KC4UCK	Pete
Nov 10	W3DX	Rob
Nov 13	KA0JG	Joe
Nov 15	WD4AYS	Carter
Nov 18	N4WJQ	Sam
Nov 19	K4UVT	Bob
Nov 22	W4EI	Roger
Nov 23	N2YDW	Al
Nov 28	W4LNT	Clay
Nov 29	KF4MEF	Nancy

Albemarle Amateur Radio Club
P.O. Box 6833
Charlottesville, VA 22906

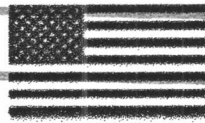
<http://www.people.virginia.edu/~vejd4e/aarc/index.htm>



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ISSUE DEADLINE - 23rd of each month

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KA4JJD G 2001

CURRENT MEMBER: 2001

Michael F. Rein
 109 Sturbridge Rd.
 Charlottesville VA 22901

***** Next Club Meeting *** November 13 - 7:30 PM UVA - NRAO**

CLUB MEETINGS and NETS

REGULAR Meeting: Second Tuesday of each month at 7:30 PM
BOARD & TECHNICAL Meetings: First Tuesday of each month at 7:30 PM
 Meetings are held at the National Radio Astronomy Observatory (NRAO) building on Edgemont Road (UVA)
LUNCHEON: Wednesdays -- Area hams gather at the **Wood Grill Buffet** on Rte 29 North from 11 AM - 1 PM
Monday Night Information Net -- Each Monday at 7:00 PM
YL Net: First Monday of each month at 8:30 PM
Northern Piedmont Emergency Net / Swap Net / Technical Session: Each Thursday at 8:00 PM
All Nets are held on the 146.760 repeater

AREA REPEATERS

WA4TFZ

INPUT/OUTPUT	Tone Access (If needed)
146.160/146.760	88.5 Hz
146.325/146.925	88.5 Hz (if enabled)
223.160/224.760	No Tone
449.250/444.250	151.4 Hz (If enabled)
145.030	MACHO Node
145.030	CHO Packet Bulletin Board

Other Area Repeaters

145.410 (-) 100 Hz Tone (if enabled) -- **AF4CY (Madison)**
 442.075 (+) 151.4 Hz Tone -- **KF4UCI**

AARC CALENDAR OF EVENTS

DATE	EVENT
November 13	Regular Club Meeting
December 11	Regular Club Meeting
January 8	Regular Club Meeting
February 12	Regular Club Meeting
March 12	Regular Club Meeting
April 9	Regular Club Meeting

AARC - PUBLIC SERVICE SCHEDULE

DATE	EVENT
Early October	Simulated Emergency Training Exercise
November 5	Montpelier Horse Races

Please sign up at meetings when the SIGN UP CLIPBOARD is passed around. You can also send an email to Greg (N4PGS) indicating your interest in working particular events.