

AARC BULLETIN

Vol 1999 No. 05

MAY 1999

Amateur Radio News for AARC Members

CHARLOTTESVILLE (Albemarle County) VIRGINIA

Editor: Joseph D. Fritz, KD4RWX

MAY CLUB MEETING

Tuesday, May 11, 1999 7:30 PM

Topic: Westward Ho!

Hein, N4FWA; Greg, N4PGS; Dave, K4DND
Location: NRAO Auditorium
on the UVA Grounds off Edgemont Road

EDITORIAL

(Via Harry, W2HD)

I know that all of you were saddened to learn this week of the death of one of our club's most valuable members - Someone Else.

The Technical Session

Steven Traylor, KF4ZGD

I am sure that you have heard that every Thursday evening, the Northern Piedmont emergency net is held. But you may not know that afterwards, there is a "Swap Shop" with Ron, K4RKA. After that is the Technical Session with Joe, W2PVY. The technical session meets to answer technical questions and to discuss problems of a technical nature. Serving as Net Control can provide valuable experience in learning to run a net, but on a smaller scale.

Joe has always kept the session interesting and exciting. Many weeks, someone asks an interesting question that other people had not considered. However, there is a need for more participation. Joe has suggested that other people run the session occasionally for experience.

Well several weeks ago, he was not available to run the technical session, and I had a chance to run it. Joe had always said that you did not need to be a genius to run the session. I am NOT a genius! The Net Control's job is to ask for questions or comments, then answer the question the best he can. But if he (or she) cannot answer the question, the repeater is opened for other people to try to answer the question.

When I ran the net, I was able to get a more complete understanding of what the technical session is like. In addition, it was the first net I had ever run. Although there were a good number of people who participated in the session that I ran, many weeks there is a lack of participation.

So if you haven't participated, it would be a worthwhile thing for you to do. And never be ashamed to ask a question. You will gain new knowledge by asking!
I'll be listening for you.

Someone's passing created a vacancy that will be difficult to fill. Else has been with us for many years, and every one of those years, Someone did far more than the normal person's share of the work. Whenever leadership was mentioned, this wonderful person was looked to for inspiration as well as results.

"Someone Else can work with that group." Whenever there was a job to do, a class to teach, or a meeting to attend, one name was on everyone's lips, "Let Someone Else do it."

It was common knowledge that Someone Else was among the hardest workers in the club. Whenever there was extra work to do, everyone just assumed that Someone Else would make up the needed hours.

Someone Else was a wonderful person, sometimes appearing superhuman, but a person can only do so much. Were truth known, everyone expected too much of Someone Else.

Now Someone Else is gone. We wonder what we are going to do. Someone Else left a wonderful example to follow, but who is going to follow it? Who is going to do the things that Someone Else did? Remember, we can't depend on Someone Else anymore. This is your chance to be somebody in the club. Please give it some serious thought.

(Quoted from Lee Knirko, W9MOL, Chicago QCWA)



FROM THE AARC LIST NEWS

Folks,

Public Service event participation has been very good this year. Thanks to all of those who have helped out at the bike races, boating races and Walks we've had so far this year. If you've missed some of the previous Public Service events, don't worry! There are plenty more!

Two of the biggest Public Service events are coming up in May and June. Both of these are Bike Tours and need a lot of ham volunteers. On May 15th, a Saturday, the one day Tour de Cure sponsored by the American Diabetes Association will take place in southern Albemarle County. It will consist of two small loops in the County along routes many of you are familiar with from your previous participation in bike races on the Kluge Loop and Walnut Creek events. The third part of the Tour will be a one-way ride from Ashlawn down to a camp near Appamattox. The second event, a two-day tour on June 5th and 6th, is our familiar MS-150. It uses the same route as last year with Rest Stops in the same locations.

These events need a number of hams to work Rest Stops and help as SAG vehicle drivers. If you would like to sign up for either (or both!) of these events this year, please help us by signing up early. Contact Greg N4PGS or Hein N4FWA and indicate your interest. [...] Both of these are great 'first-time' Public Service events. It doesn't take a lot of radio equipment or 'know-how' to be a valuable contributor to these Tours, so don't be shy about signing up because "you've never worked an event before."

Keep checking the Web Pages to find out the latest information. Better yet, ask someone who has worked on a Bike Tour before. They'll tell you how much fun it is.
Greg N4PGS n4pgs@mail.com

HEARD ON THE AIR

Greenbank trip May 22nd. Listen to the Information Net on Monday nights or check with Hein, N4FWA for details.

Piney Mountain Work Party Planned Saturday, May 8th at 8 AM

Please volunteer to assist with activities on the new Piney Mountain Repeater site. Check with Don (KE4DDR) or Mike (AC4ZQ) on the 146.925 repeater, or by telephone messages.

PEEP FROM THE VEEP

Jessie KE4OID

This past month was one to honor volunteers. National Volunteer week was April 18 - 24. I do believe the Albemarle Amateur Radio Club falls under that heading. We should all give ourselves a pat on the back for any and all participation in Amateur Radio activities. This ranges from working special events, public service as well as communication over the air waves. You never know when what you do, how you do it, or the enthusiasm you bring to the activity will affect those around you. Our participation, no matter how great or how small, plants a seed in someone else and gives it a chance to grow. Who knows, that may lead that person to join us and do wonderful things for all mankind. I know, I may be stretching it a little, but you never know, stranger things have happened.

By the time this article is in print, the Multiple Sclerosis and March of Dimes walks will be completed in our area. I wish to thank everyone who participated, and those who thought about us. There are lots more events coming up in the near future. Stay tuned and check with Greg, N4PGS to see where your talents can be used for Public Service activities. Don't forget Dave, K4DND and our Net activities. I do believe there is some form of net going on each night on one frequency or another, so tune in and stay on!

The program for May will be a presentation of our hard riding trio and their trip west. I wouldn't be surprised if they even did a little campaigning to see if more of us wished to travel along. Would be fun, but from my vantage point, fun is on wheels with a motor, not me providing the power. Make sure you ask questions on their cooking technique, how quiet sleeping was, and who did the most bike riding. See you May 11.

MORE ON ANTENNAS

Grayson, KF4FYI

This little article is in response to the very good articles sent in by Steven. I hope he continues to write for the newsletter. We need more Hams like him.

OK, here goes. Antennas are a very good subject to get into. What I present here are direct connect dipoles. I won't get into all the formulas. I have a computer program that does all of that for me. Lucky me.

Following is a list of dimensions for various antennas on various frequencies

6 Meter -- 3 element beam

Center freq. 52.000 mhz
1" boom diameter

Elements length spacing

- Reflector 109" *****
- Driven 101-5/8" 64-15/16"
- Director 1 96-3/4" 125-3/16"

Element spacing is always from reflector. This antenna has a gain of 6.5 dbd. 1/2 wave.

2 Meter -- 4 element beam

Center freq. 146.52 mhz
1/2" diameter tubing

Element length spacing

- Reflector 38-1/8" *****
- Driven 36" 24-1/4"
- Dir 1 34-1/2" 49"
- Dir 2 34-3/8" 71-1/2"

Gain 8.43

Elements are 1/4" stock tubing. 1/2 wave

70 Centimeter -- 4 element beam

Center freq. 440 mhz
Boom 1/4" diameter tubing
elements 1/8" diameter.

Elements length spacing

- Reflector 13" *****
- Driven 12" 8-1/16"
- Dir 1 11-7/8" 16-3/4"
- Dir 2 11-3/4" 23-3/8"

Gain 8.19 dbd. 1/2 wave

All element lengths are measured from the center of the boom except for the driven element. The driven element is measured from edge of boom diameter. Boom length is 2" longer than the spacing of last director.

The boom material can be metal or nonmetallic such as PVC. I use PVC because it is a lot easier to use than metal.

The 6 meter antenna is rather long at 1/2 wave so measure the driven element to 1/4 wave, which is 54.5" For all other elements, center the elements on the boom. Use same spacing.

These antennas are direct connect so you can connect coax directly to driven elements. No need for a balun.

This is a nice project that is simple and cheap; so why not try it.

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AND, JUST A LITTLE MORE Harry. W2HD

Aw, c'mon, Harry, NO more antenna talk! Aw, c'mon guys and gals, just a few more words (unless the Editor cuts me off!)

At the last club meeting, President Don, KE4DDR, gave me time to show and tell a little bit about antennas suitable for two meters as well as other VHF/UHF applications. The idea was that these antennas were better than the old "rubber duck!" At any rate, a variety of easy to build or easy to purchase antennas were shown. There were no examples of the coaxial or collinear antennas since I didn't have either in my collection. However, you can look in any good antenna book and find descriptions.

The main point of this article is to stress two points: 1) ease of construction and 2) the importance of height in the clear as a major point for success in VHF/UHF work. Let's take a look.

1) Ease of construction. First of all, VHF antennas are not very big... a quarter wave at the lowest frequency is only a mere 19 inches or so. You can do a lot when you are not all wrapped up in wire around your neck and body and legs! Reasonably stiff electric wire can help; welding rod is good and aluminum tubing can be super for construction work. Note the comments in the recent articles by KF4ZGD. A very simple beam can be made of wood and stiff wire. An even simpler ground plane is made from a PL259 style chassis connector and a few pieces of wire. The "J" antenna uses ladder line or even some old 300-ohm TV twinlead. Antennas for 222 and 444

Mhz are even smaller than needed for 2.
 2) Of great importance in this VHF/UHF world is what you do with the antenna(s) you have constructed. Obviously, the antenna won't perform very well if you put it inside a metal container. You must consider placing the antenna in the clear and up as high as you possibly can. In the attic at 20 or so feet above ground is far better than using the antenna in the basement or even the first floor of the house. Outside the house is even better... if you can arrange for a mount on the house or in a tree. If you build a beam, try and fix it in the direction of the repeater you wish to access. Obviously, if you can afford a rotator, either the electric type or one using the "armstrong" method of rotation you will be in even better shape.

You're right! That final location may not permit you to relax in your most comfortable chair or sofa, but isn't the object to put a signal into the air which your friends can understand? Isn't it better to transmit your information once rather than respond to "Golly, Pete (or Sally) you were so noisy I couldn't get your response!" hope you agree. 73..

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FIELD DAY IS COMING!!

June 26 and June 27

Field Day Update

Paul, wb9hgz

I have to admit that the weather is far more conducive to Field Day as I write this than it was last month! Plans are coming along quite nicely for AARC's Field day operation. For those who may have missed last month's report, Field Day is June 26 and 27 this year. We will hold the event at the Earlysville Fire station.

Ernie, W2EIU, has volunteered as our "PR" chair. He has been very busy notifying the various radio, TV and newspapers of our operation. In addition, he is notifying numerous dignitaries and inviting them to visit. Through Ernie's efforts, we will quite easily earn the 100 point "publicity bonus", but more important, will expose many newcomers to Amateur Radio and AARC.

As I mentioned last month, Jessie, KE4OID, is coordinating the picnic for Saturday evening. It is always a highlight of our Field Day and this year is shaping up to be better than ever!

In terms of stations, the Novice/Tech Plus operation is coming along quite well. Charlie, KG4BKD and J.L., KE4UKZ have teamed up to put this operation on the air. Interestingly enough, a new 10 meter antenna followed us home last month from the Timmonium Hamfest. I think J.L. has some plans for it..... hmmm.

The special event station is falling into place. A Heath Apache transmitter and a National HRO-50 receiver stand ready to put AARC on the air, 1959 style. Callsign K4C has been reserved for our Special Event. "K" because of its 50's origins and "C" for "Classic"!

Satellites? Yes! Chuck, W4SM, will once again set up his station. Unfortunately, Chuck is currently experiencing rotor problems so he has said that his participation is dependent upon being able to get the problems fixed. Let's hope he is able to do so!

An area of concern at this point is the seeming lack of interest in the regular HF stations. As of this writing, no one has expressed an interest in coordinating either the 80/40 or the 20/15/10 meter stations. We will continue to move ahead with plans for the other three stations and hope that someone steps forward to coordinate the HF stations. Anyone wish to take on either of these tasks? Please contact me at 978-4903 or wb9hgz@charlottesville.net if so.

Thanks to all who have helped thus far. We'll be looking for operators and loggers in the near future. I'll be bringing a sign-up sheet to the May and June meetings so you can select your preferred time slot.

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TECHNICAL COMMITTEE UPDATE

Mike, AC4ZQ, Chair

• The initial search for the new repeater site.

Last year it became obvious that the owner of the 76 repeater site was doing some radical tree clearing on his property. Talks with the land owner revealed that he wanted the forestry service fire tower, the county's building and our shack torn down in preparation for building several mountain top houses. Legally the club did not have much to stand on.

In the fall of last year, we had a meeting at the Northside Library to come up with a list of repeater sites to focus our efforts on. Many good ideas were suggested and investigated. Unfortunately, none of the ideas resulted in a new repeater site. This effort was originally started so that we would have a plan "B" in case the Carter's Mountain property owner asked us to get off in a more forceful manner. Unfortunately, a tree left by the owner, fell on our shack forcing us to remove the equipment before we could find a new site.

• The big crash.

Lucky for us the ice storm that brought the tree down did not cause a lot of damage. Most of the damages were dents and scratches. Nothing of any significant value was lost. The most damage by far was the loss of the building.

Bent up 220 repeater cans were the most serious damage to the equipment. The cans were home-made, so they were not a significant financial loss. Unfortunately, it is hard to run a 220 repeater without them. It is possible to build another set of duplexer cans. If anyone is interested in helping, this would be an excellent learning experience. I am interested in building a set of cans for 440 and would be willing to pool knowledge with anyone interested.

The next most serious damage was probably the batteries. One of the large units was crushed and is not repairable. When we buy a new battery the damaged battery will be returned.

The third most serious damage was the speaker volume control pot for the 220

repeater. This pot does not effect the normal use of the repeater. The front panel of the repeater was bent, but is repairable. Bob, K4DU has ordered the replacement pot. The repeater is on the air at Bob's house using separate antennas. All we need now is 220 cans to get the repeater back to normal.

The two antennas mounted on the shack and an isopole stored inside the building were also damaged. The antennas were recovered and we are working on repairing the damage.

The rack for the 220 repeater was badly warped and the shacks 12v power supply was a little bent up. The power supply heat sinks on one side were bent and the 1/4 inch front panel was bent out in one corner. The power supply's panel has been straightened. The repeater rack was not repairable.

The packet stuff, 440 repeater and 76 repeater were unharmed. The tree did manage to break a few tees and right angle adapters on the 76 duplexer. The cans themselves were unharmed.

Of all the damage the repeater site sustained, only the 220 repeater volume control pot was eligible for insurance coverage. Antennas feed lines and batteries are not covered. With a \$50 dollar deductible on each unit, we can't really find enough damages to meet the deductible. For \$100 dollars, we could probably fix everything but the 220 duplexer cans.

The antennas on the tower will be left in place, for a while longer, in case the Forest Service can work something out so we could get back on Carter's.

• Search for the new site is revived.

After the tree fell, the search for a new repeater site was back in high gear. We set as minimum requirements that the site must have commercial power, serve the Charlottesville area and have improved coverage over 146.925. The only things that came up were commercial sites that wanted the Club to "make them and offer" and sites that required alternative power sources, like solar power. Some of the

commercial sites were too far away to provide adequate coverage to the Charlottesville area.

Jimmy Walker offered his location on Piney Mountain as a temporary site for a few months. Jimmy also offered to talk to another land owner on Piney. Jimmy's efforts paid off and he managed to get permission for us to use another site higher up on Piney Mountain. This site is an ideal solution for the short term while we look for a better site. For the moment this site should serve us well.

• Why have we picked Piney Mountain?

The Piney Mountain site is located at the 990 ft level on the SSE side of Piney mountain. The Club's equipment will be located in a well constructed building with commercial power. The power comes right off the line supplying power to the FAA radar site. Unlike Carter's Mountain, the power line right of way is relatively short and the trees are not overhanging the lines as much as on Carter's Mountain.

The site is probably more secure than Carter's Mountain. Being further away from the pagers we should not have as much problems with pagers. The coverage will favor the north end of the county, but should cover Charlottesville.

Short term, Piney Mountain gives us a good place to locate the equipment and get it back on the air. It buys us some time to look for a site with better coverage.

There are some conditions on using the site. The owner has requested that the Club paint the building and cut down a few pine trees, so they won't fall on the building. On a routine basis, we will have to cut grass and will be responsible for paying for the electricity. The estimated monthly cost should be about \$15.

• Where do we go from here.

Don Bush, his son, Grayson and myself went up there Saturday, the 20th of April, to take down the trees. We got two trees down and cut up before we ran out of time. We have two more trees to take down and cut up. We are scheduling a work party for the weekend of May 8th to finish the tree

work and paint the building.

We can use about four or five people to paint building. A couple ladders that will reach up about 10 feet to paint the eaves will be required. Most of the building is aluminum siding, so the paint work should go fast. This will be relatively easy work, so volunteer early.

To cut the trees, we will need about 5 people. We have to cut up the tree and make piles out of the brush and logs. The land owner will take care of getting rid of the logs.

If things go well, we might also be able to put up the antenna and install 76 repeater on the same weekend. If possible, it would be nice to get the 220 repeater up at the same time.

The 440 repeater may end up on Bucks Elbow. So far, I have not heard of a firm commitment to let use that location. We have to wait and see what happens.

• Special thanks to K4JMY.

I would like to thank Jimmy Walker for his efforts in securing a good site for the club.

• Thanks to those who have helped or will help.

I would like to take this opportunity to thank all those people who have helped out in searching for a new site, to the people that helped dig the equipment out of the building after the tree fell. Also, thanks to those who volunteered to help dig the equipment out, but were not needed in the project.

Last but not least, A thanks in advance to those who ARE GOING to volunteer to help with the new site preparation work.

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The Last Word on....

TREK TO THE MOUNTAIN

Grayson, KF4FYI

Everyone should know, by now, just about how and what happened on Carter's Mountain when we lost the shack and came to the conclusion that we had lost most of the equipment. I won't use any dates as most of you already know exactly when the tree fell on the shack, because no one had any communications on 76, 440, 220 or digital. Myself for one, changed to .925 to assess the situation. I just listened due to the traffic on the frequency. Seems everyone thought the power had been disrupted. Later that afternoon, I found that this was not the case. Dave (K4DND) and Hein (N4FWA) were on their way up the mountain to check out the cause. Casually listening, I expected their report to be that the power was out. This was not to be the case of the usual problem that we generally run into.

At the time I was pulling into my driveway and shut down my radio and lost about ten minutes of the conversation. After taking care of a few minor situations in my home, I thought to turn on the radio in my bedroom and find out the rest of the conversation, expecting to hear that we would be off the air until the power came back on.

What I heard was a complete shock to myself and to a lot of others who happened to be listening in on the conversation. If I remember correctly, I joined in, along with Mike (AC4ZQ), on the conversation. It seems that some of the guys were expecting this to happen as the tree was leaning badly over the shack.

Mike (AC4ZQ) and myself (KF4FYI) decided to go up and take a look a little later in the afternoon. Sometime around 3:30 or 4:00 pm, Mike met me at my home and we decided to take my truck, as it was a 4x4. Little did we know that the vacuum line to the gear case had become disconnected, as I had not used it since I had acquired the truck a few months before. But off we went, heading for the hard climb up the mountain to the Forestry Tower. We made it fine until we passed the gate. We plowed into about six inches of snow at that point and just lost all traction. Tried it

a couple of times with no luck, so we decided to trek the rest of the way on foot.

Mike and I unloaded the tarp and a few tools to carry with us in case we would need them and started walking. Boy, what a mistake that was. Heavy high top shoes and six inches of snow puts quite a drag on a person's stability at high altitude. Lugging a good size tarp and a few tools sort of made it worse. I could tell Mike wasn't used to walking in such conditions as this, by the way he kept slipping, sliding and staggering about. Come to think about it, I wasn't making much headway myself. Cigarettes were taking their toll on me - stealing my wind and sapping all of my energy. I probably looked like a fish out of water.

Well, we made it after four or five rest stops along the way. After taking in the scene that lay before me, I felt a big knot creeping up into my throat, and a down hearted dismal feeling, wondering to myself whether there was anything left to salvage from such a crunched up mess as this. Anyway, Mike and I began to survey the site hoping to find something that would be worth saving.

I still had that sinking feeling in my gut. Breathing hard from the climb, we started to check out the building where the roof was partially upright. Mike wanted to crawl in but I didn't think it looked solid enough to take a chance. If the roof would have collapsed on Mike, I would never have gotten him out. I was already suffering from the lack of air and had the feeling my lungs had collapsed.

Finally, we came to the conclusion that some of the equipment could be saved and we didn't need the tarp as the remaining part of the roof would keep the weather out. As we were preparing to leave, Mike was on the radio talking to someone about the equipment. I think it was Harry (W2HD). At the time, I was wondering whether to leave the tarp there or take it back down to the truck. I decided that I had better take it because Mike might have to lay me out on it and drag me back to the truck.

Well, we made it back to the truck without any mishaps and my breathing became a

little better. I think Mike felt a little better knowing we could save at least some of the equipment.

We both knew then, that the site had to be changed, but where on GOD'S green earth would we put it? That was a subject to be taken up by the Technical Committee. Back at my house, Mike and I parted company and figured we would talk about it later.

This is the end of the episode of the broken down shack shared by Mike (AC4ZQ) and myself (KF4FYI) that we wished to share with all of you in the club.
Grayson...KF4FYI

VE SESSIONS SCHEDULED 1999

8-May Charlottesville
 John Gray (804) 973 1094,
 9 am- (walk-ins; please call
 first), or e-mail jdgray@rlc.net

05-Jun Culpeper
 John Berry (540)543-2580

07-Jun Chesterfield
 Tony Amato (804)717-5237
REGISTER ON LINE
KR4UQ.ORG/PAGES/VE.HTM

12-Jun Richmond
 Pat Wilson (804) 932-9424,
 9 am - (walk-ins; please call)

12-Jun Manassas
 Harry Vorhauer 703 368-6050
19-Jun Harrisonburg
 Buck Mowbray 540 289-5580

05-Jul Chesterfield
 Tony Amato (804)717-5237
REGISTER ON LINE
KR4UQ.ORG/PAGES/VE.HTM

17-Jul Fredericksburg
 Carolyn Cavanagh (540)373-0572-
14-Aug Richmond
 Pat Wilson (804) 932-9424,
 9 am - (walk-ins; please call)

09-Oct Richmond
 Pat Wilson (804) 932-9424,
 9 am - (walk-ins please call)

11Dec Richmond
 Pat Wilson (804) 932-9424,
 9 am - (walk-ins please call)

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<http://members.aol.com/wa4tfz/aarc/default2.html>



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DEADLINE FOR EACH ISSUE
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AARC CALENDAR OF EVENTS

Notify Joe (KD4RWX) to place information on the calendar.

Month	Day(s)	Activity
May	4	Board Meeting
May	8	VE Session (NRAO)
May	11	Meeting
May	15	Tour de Cure Bike Tour
June	1	Board Meeting
June	5	MS 150 Bike Tour - 1st Day
June	6	MS 150 Bike Tour - 2nd Day
Jun:	8	Meeting
Jun	26-27	Field Day
Jul:	13	Meeting
August	8	James Madison Bike Stage Race
Aug:	10	Picnic Meeting
Sept:	14	Meeting Nominating Committee named
Oct:	12	Annual Meeting Elections and Committee reports; Nominations due for Ham of The Year
Nov:	9	Meeting
Dec:	14	Meeting

PUBLIC SERVICE SCHEDULE

DATE	EVENT
Sat May 15	Tour de Cure Bike Tour
Canceled	Walnut Creek Road Race
Sat June 5	MS 150 Bike Tour - 1st Day
Sun June 6	MS 150 Bike Tour - 2nd Day
Sat Aug 8	James Madison Bike Stage Race
TBA	Heart Walk
TBA	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.
 Greg (N4PGS) and (Hein N4FWA)

CLUB MEETINGS

Regular Meeting: Second Tuesday of each month at 7:30 p.m.
Board and Technical Meetings: First Tuesday of each month at 7:30 p.m.
 Meetings are held at the National Radio Astronomy Observatory (NRAO) building, Edgemont Road (UVA area)

WA4TFZ REPEATERS

INPUT/OUTPUT	TONE ACCESS (if required, etc.)
146.160/146.760	88.5 Hz
(If tone is enabled, you can turn the tone off and back on temporarily by:	
Temporary Tone OFF	DTMF 325*
Remove Temporary Tone Off	DTMF 326*
Emergency Autopatch to 911 Center	DTMF 911*
Emergency Autopatch to State Police	DTMF 918*
Autopatch exit	DTMF 0*
Time	DTMF 10*
Tone status of repeater	DTMF 700*
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	

LOCAL NETS: (146.760 repeater)

Monday night: Information Net (each Monday) 7 PM
YL Net (1st Monday of month) 8:30 PM

Thursday night: Northern Piedmont Emergency Net & Swap Net & Technical Session (each Thursday) 8 PM

LUNCHEON:

Wednesday: Area Hams gather at the Old Country Buffet (OCB) next to TOYS R US on 29 North 11 AM - 1 PM

BIRTHDAYS: _____ MAY

KE4AQD.....	Robert.....	16
KF4UHU.....	Deborah..	17
KQ4MZ.....	Ted.....	23
AD4AD.....	Thomas...	26