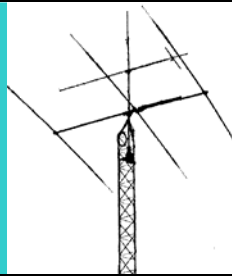


The AARC Beacon



*Serving radio enthusiasts
and communities in
Central Virginia –
The Radio Club for
Central Virginia*

Volume 2006, No. 7



July 2006

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Meeting Notice

The next regular AARC meeting will be held on **Tuesday, July 11 at 7:30 PM** at **the NRAO Building on the UVA campus**. The program will be given by **Tim KG4HOT and friends on 6 meters**. See you there!!

The President's Letter

Jay, K4AZV

Hello to all and may I say that this last month has been nothing short of incredible. Between our participation in the MS 150 Bike Tour, field day and the Charlottesville triathlon there wasn't a whole lot of time left to do much in the way of radio work. However, being fairly out of control when it comes to 6 meter radio I had to make a little time because this year's E-skip season has been nothing short of fulfilling.

I want to thank everyone who participated in the MS 150 Bike Tour as the only issues which seem to have come up did not result from any deficiency or inability on our part. There were a large of bicyclists in the tour who were very appreciative of our presence and assistance. When you hear big thank yous right from the mouths of the public whom we are serving it really enforces the fact that despite your own issues during a public service event that you are truly appreciated. I was not present during the triathlon but when monitoring the radio on the way to our field day site I heard several instances of bicycle and rider pickups and I'm sure that we were appreciated at that event as well. A special thanks goes to Bill Phillips AD6JV for the fine job of coordinating these public service events and Ben N4CV - you're a truly awesome net control.

Field day was a total blast despite the difficulties that Steph and I encountered coming home from the Richmond International Airport on Friday night. Suffice it to say Toyotas don't float! More on that and field day in my field day report which will be available upon the launch of our new club website.

Our testing session on June 17 went well with all but two people passing the elements tested. Additionally one person was granted General privileges by passing his code test. We have a new coordinator for our testing sessions. Thank you Gordon WW4GW for taking on this voluntary position. Gordon has indicated that there will be a link on our club's new website to a site he is preparing for testing information.

I also want to thank Robert (W4NPX) and Sharon Blodinger who are behind the scenes people whom I was not even aware of until recently. They are the ones who have and continue to deal with our corporate paperwork pro bono. A thank you letter is currently in the works and will be sent soon. While we're on the subject, Jack and Peggy Flavin have donated to the radio club the remainder of Jack's radio gear. There is a fair amount of hamfest goodies and some other new or "as new" in the box things which people may want to know about before the Berryville hamfest which is where most of this stuff will go. We will have lists on the swapnet so listen up on Thursday nights. The proceeds from the sale of all of these items will go into the club's account. Thank you Jack and Peggy. A thank you letter will be going out to them as well.

Here's what we worked on HF this past month. There wasn't a whole lot but what was there was fun. We worked: Japan, Argentina, Russia, Guatemala, Haiti, St. Martin, Algeria, Sardinia and Papua New Guinea. Not bad considering we spent most of our time on 6 meters.

On 6 meters we worked lots of US and Canadian grids. In addition to those we worked: Cuba, Dominican Republic, Mexico, Madeira Island, Canary Island, Portugal, France, and British Virgin Islands. There were also some cool double hops to the west coast. I've really enjoyed hearing new operators on 6 meters. I feel it is important to say that with the advent of HF + 6 meter rigs there are many more people on 6 meters and some have not taken the time to learn about this band. As in the HF bands there are some gentlemen's agreements regarding which operations take place where in the radio spectrum. What I am referring to specifically are the DX windows and VHF/UHF - the calling frequencies. Recently on 6 meters I've heard people camped out on the calling frequency calling CQ and making contacts when the band is obviously open. When the band is open/when people start making contacts, the thing to do is to leave the calling frequency open. I've also come across, on two occasions recently, some self-proclaimed radio experts ragchewing in the DX portion of the band on top of DX stations already working there. There is no excuse for this to go on. It is our responsibility to know these agreements and to abide by them even if they are not what you would consider FCC regulations.

Take care and hope to hear you on the radio.

73, Jay K4AZV

Veep Peeps

John, KI4DJT

Dear friends, I must apologize for missing the past two letters but because of having my computer toasted and not being able to replace it there was not much I could do about it. On the bright side I managed to get through my physical therapy 6 weeks ahead of schedule and have healed up nicely; I just must be very careful not to tear up all of Dr. Nieto's work. I received care at the VA hospital in Martinsburg WV and could not have been treated better; those folks over there are all really great and caring.

I had a real ball at Field Day this year. Friday the day before we barbecued three pork shoulders about 14 hours over a wood fire and made around 10 pounds of Italian sausage with peppers tomatoes and onions. Wonderful. Steph K4BMM made some really nice potato salad, cole slaw and some very special baked beans that were all just so good!! Sunday Big Daddy Kevin barbecued hot dogs and brats they were a real hit.

Sunday morning we participated in the triathlon with Ben Mills, Bill Phillips AD6JV, Dave KB1DOE and yours truly KI4DJT. We got to lend assistance, make a few repairs on the track that kept a few of the folks going and of course we had to schlep a few folks back who had flats. Next season I'll bring along some fix a flat and a small compressor. The rain was a problem the whole time but what the heck it's field day and you make the most of what you get, it really was fun and a real adventure. We're already planning next year location and menu. If things go the way we want we'll be operating at the Fan Mountain Observatory and having eye of round, pork barbecue and chicken, I can hardly wait!

For the July meeting Tim KG4HOT will be giving the presentation and may have some help from friends on 6 meters. I'm not sure about the modes of operation to be discussed but I'm sure there will be something for all to learn.

Don't forget the picnic at McIntire Park on Tuesday August 8. I'll be there about 4 PM to start cooking. We'll be meeting at structure one and will be having hamburgers, hot dogs and Italian sausage as well as pot luck salads and desserts. I must get a hold of Steve as I think he got stuck with all the plates and stuff last year and maybe we can use it again. I'm hoping for some good junk at the swap tables to further enhance my storage problem.

Take care all and have some fun on the radio.

73 de KI4DJT

Club Business

AARC Board Minutes June 13, 2006

Board Members Present: Jay, K4AZV Prez; John KI4DJT Veep; Bob, K4DU, Treas.; Marty, AG4DN Sec'y; Stephanie, K4BMM; Bill, AD6JV; Dennis, K4THE; Tim, KG4HOT; John, N4SYH. No members absent.

Jay called the Board to order at 6:40 PM. Jay covered a number of items:

Presented a sample of the official invitation for Field Day 24-25 June 2006. A copy is to be placed on the club web site and hard copies will be distributed to government officials and other parties in the local community.

Redistribution of questionnaire previously distributed to the Board and membership to ascertain such ideas as, "What would be eye catching for our web site to entice non-member follow up?" "What are the most important items that should be on the web site?"

The shift in ARRL tactics to deal with BPL. The present position is to let improved technology overtake the BPL problem, with the outcomes being favorable to the desires of the Amateur Radio Community.

John reviewed the arrangements for the August club picnic and Tailgate Fest. The date is 8 August. We have Shelter 1, McIntire Park from 5:30 PM to mid night. (It is not anticipated that the event will last that long.)

Josh K4NGV discussed his ideas for restructuring the club web site. He encouraged Board in put for content as well as general membership participation. He considered changes as to how interested parties could navigate the site having the greatest impact.

Bill covered Public Service. The Triathlon that the club can support will take place on 30 July and 20 August. Bill will be putting more information out shortly. He stated that we have done this in the past and it will not require a great number of amateurs.

Jay distributed a sign up sheet for Field Day that will also be distributed to the general membership.

Jay now addressed the nomination of Harry W2HD and Joe W2PVY for Life Membership in the AARC. Letters of nomination were submitted in accordance with the appropriate paragraphs in the AARC By-Laws. (Copies available upon request.) The Board approved the nominations and indicated that their recommendations will be forwarded to the membership.

With no further business the Board Meeting closed at 7:20 PM.

Submitted by: Marty Mait, AG4DN, SECY

Regular Meeting June 13, 2006

Jay opened the meeting at 7:40 PM and called for the introduction of members and guests.

A new member was approved by the membership: John W2UCN.

The May 2006 Board and General Membership Minutes were approved with no comment or changes.

Jay informed the membership that there was a need for a new VEC. Harry W2HD made a presentation on the duties and responsibilities of a VE. No further action was taken at this time. The decision will be forthcoming shortly.

Bob reported that the club treasury had a plus balance of \$5500.50.

Jay indicated that an appropriate acknowledgement in the form of a letter be sent to all members paying their dues. Bob stated that he would follow up.

Tim indicated that there was nothing new in the Tech Committee. The 220 repeater is operational. There was no need to purchase the antenna authorized by the membership, since the antenna was contributed to the club.

Jay reminded the membership about the questionnaire distributed in May. (See Board Minutes.)

Jay now turned to the arrangements for Field Day. He noted the invitations that had been printed and ready for distribution, that PSA's were sent to the media. Sign up sheets were distributed to the membership. Each station operating on Field Day will have a sign up registration sheet. Every station will need a login in operator. Discussion followed on equipment needed, who will be responsible for each equipment item needed, integration of radio and computers, bands that we will operate on, etc. Josh will assist with computer integration. Tim raised the issue of perhaps the club should purchase a trailer for Field Day and other club activities.

Bill discussed the difficulties we encountered on the MS 150. Among those he noted confusing maps, road sign problems and bikers taking the wrong roads. On the positive side he noted the only casualty was one dead ground hog and no major injuries. He, others that participated from the club and other individuals supporting the amateur radio operations believe we performed in an outstand manner. The administrators of the overall event too echoed this.

The Life Memberships for Harry and Joe (see Board Minutes) were approved unanimously by the membership.

Harry noted that with a testing session shortly upon us the VE's must assure proper identification for all taking the exams. A picture ID as well as a copy of the existing license was needed for all up grade exams.

With no further business, Jay called for a motion to close the meeting, second and approved with no comment. The meeting closed at 8:50 PM.

Submitted by: Marty Mait, AG4DN, Acting SECY

AARC VEC Team Happenings

Bob, W4RQ

The AARC VEC Team held a license exam session on June 17 at the Astronomy Building at UVA. We had nine candidates testing for a total of 11 elements. The session produced six new Technician class hams and one upgrade to General. Congratulations to all!!

Also, please welcome Gordon, WW4GW, who is taking over as our new VE Team coordinator.

Thanks also to all VE's who helped out at this session and made it a success.

RF on the Outer Banks of North Carolina with K4RKA

Ron, K4RKA

My wife (WB4RBW), daughter (KE4JYU), son-in-law (no call), grandson (no call), and I (K4RKA) vacationed this June at South Nags Head on the Outer Banks of North Carolina. Anticipating my normal "beach boredom", other than packing two bicycles & a couple of books, I started considering what it would take to carry along an HF station. The decision was made when Jaime (KA3NXN) generously volunteered his Yaesu 817 all mode, all band rig, small automatic antenna tuner, and a BuddyStick portable HF dipole antenna with tripod. Overhearing a conversation about this, Jay (K4AZV) and Steph (K4BMM) volunteered their 6 meter halo antenna and a couple of rolls of co-ax. I dug out a portable log book (later forgotten) and some other bits like larger speaker, SWR bridge, more co-ax, adapters, my Kenwood TH-F6, and a couple of VHF/UHF backup handhelds for convoy use if nothing else.

The decision was made to use the cell phone "buddy link" instead of ham radio to keep in touch between vehicles. It worked but was not what I would consider really successful for reasons which are not relevant to ham radio operation and need not be discussed.

Arriving at our rental house in South Nags Head (third from the end within about 2 miles of the Bodie Island light house, and plenty of daylight left, while the beach bums went to get wet, I set up the station. The halo was lashed to the 2nd story balcony, the longwire was run from the second story

balcony to the elevated dune deck walkway, the dipole was set up on the first floor balcony (about 15 feet off the ground) in a corner where no one would trip over the tripod, and the co-ax from all three was run in the cracks in the wood deck into the screen porch just off the side of the living room where there would be minimal traffic. Antenna switch, wall warts, speaker, cup of coffee, logbook (whoops - - oh, well, an old envelope will suffice), and I was ready to roll. Does anyone know what "high noise level" means?? Well I had S5 to S7 on all bands and about S3 on 6 meters. The only signals I heard were WWV and that faintly - - but it beat last year with the TH-F6 when I couldn't even hear that. I did find a nice FM broadcast station which played continuous classical music at 90.5 so that was the best news.

Over the next 4-5 days, I managed to work a couple of people on 20 meters and hear some CW on 6 meters and that was about it. Played with tuner, antennas, bands, etc early morning (right after morning cup of tea, walk to dune deck, and seeing sunrise through a heavy cloud bank), mid-day, and late evening. In between we did the normal beach stuff, played in the waves, built sand castles, went to nature talks, visited and climbed light houses, ate too much, and all the other expected stuff.

One night-time rainstorm made the noise level QRN so high the next day that the S meter was pinned (all lights lit) on all the HF bands - - forget that!

2 meters FM, as before, was almost non existent. I talked to one guy, heard a few "blips", called several times, and heard one repeated NOAA weather storm warning. But it was nice to know the repeaters were there and I would hope if we had really needed something, someone would have responded. We usually had a car full of people anyhow with enough conversation to keep us busy, so less distraction was probably a good thing.

Finally on Friday night (after the only good sunrise the whole trip) 6 meters opened up. I would hear the normal nothing until all of a sudden there were a dozen stations all on the same frequency all talking to someone else. Then everything would go quiet for 5-10 minutes. I persisted and finally started adding "QRP" to my call. Now I got some attention. Worked stations in Maine, Massachusetts, Florida, Louisiana, somewhere in the Caribbean, and mostly in Indiana and Illinois. When I say "worked", most of the time there was enough contact to say that they were aware I was there but was too much trouble to "dig out", so the contacts were fleeting. The only real conversations I had were with the Indiana/Illinois stations, none of whom had any idea what an "Outer Bank" was. Finally one guy figured out where I was and told me that was a very rare section and if I could be on during the VHF contest, I would probably generate a pile up and wouldn't have to move frequency as everyone would come to me. Unfortunately, we had to leave before the contest started so I missed out on being "rare DX". I do remember the feeling from many years ago when

we used to operate as /W8 from West Virginia, but, as they say, that is another story.

73 & "30" --- Ron

Contest Highlights - Upcoming

Bob, W4RQ

ARRL-Sponsored Contests

July 7-8 IARU Int'l HF Championship

Complete info, rules and log forms for these events can be found online at the [ARRL Contest Calendar 2004](http://www.arrl.org/contests/2004) webpage.

Other Contests of Interest

Jul 7-8 WW Major Six Club Contest

Jul 29-30 RSGB Islands on the Air Contest

The [SM3CER Contest Service - Contest Calendars](http://www.sm3cer.com) has info and rules for these contests and just about every contest that exists.

73, Bob W4RQ

Solar Update de K7RA

From ARRL Propagation Bulletin ARLP026

It was a fun Field Day weekend all over last week, judging from the Soapbox comments and photos on the ARRL web site at <http://www.arrl.org/contests/soapbox/>. There are many great stories on the site, but I enjoyed reading the N4SL report on the W7MRG operation over 500 miles down the road to Montana from home in Washington State. Go to page 10 (click on 10 at the bottom of the page on the above link) to find it. Even with zero sunspots, the homebrew wire antenna arrays and Montana hilltop sounded fabulous. If you check the N4SL listing on www.qrz.com, you'll see his wire antennas at home sound quite similar to his Field Day setup.

Apparently there was some 6, 10 and 15 meter fun, although your author didn't hear it here. We put in a short casual mobile operation on 20 and 40 meters, both CW and SSB, and were impressed with how well the 7 foot monoband whip on the car worked on 40 meters. Changing bands meant unscrewing an antenna from the trunk mount and substituting another.

No sunspots last weekend, but a big new spot (897) rotated into view this week. Followed by spot 898, it looks like a moderately rising solar flux and sunspot number will be with us through July 6. A solar wind stream caused elevated geomagnetic numbers on June 28 and 29, and this may happen again around July 3-5. Geophysical Institute Prague predicts quiet conditions over June 30 to July 3, quiet to

unsettled on July 4, unsettled to active on July 5, and unsettled on July 6.

Last week's bulletin mentioned Carl Luetzelschwab, K9LA and his article "When Will the Bands Improve?" in the current July 2006 QST. Carl would like to correct his definition of the length of a sunspot cycle. The sentence in question should read "The average length of a sunspot cycle, from solar minimum with a minimum number of sunspots (low electron density) to solar maximum with a maximum number of sunspots (high electron density) and then back down to the next solar minimum, is approximately eleven years."

Roger Laphorn, G3XBM wrote: "I echo the comments last week about 6m being a bundle of fun. I only have 5-10W QRP to a small vertical on the side of the house but this has allowed me to work all across Europe as far as Ukraine on SSB with 59 reports being the norm. Last summer I managed a few north Africans but not yet this summer".

"Not within my reach has been the amazing DX worked from Europe by the 'big guns' running high power to large beams: Central America, North America and, most amazing of all, a number of openings to JA and even one to KL7. JAs seem to have been worked on several mornings of late around our late breakfast time. This is over the pole and a very long way for simply sporadic-E. I wonder what mode this really is?"

Roger has a very nice web page at <http://homepage.ntlworld.com/laphorn/index.htm>. Don't miss the interesting links he has under Homebrew rigs for the remarkable little QRP radios he constructed.

If you would like to make a comment or have a tip for our readers, email the author at, k7ra@arrl.net.

For more information concerning radio propagation, see the ARRL Technical Information Service at <http://www.arrl.org/tis/info/propagation.html>. For a detailed explanation of the numbers used in this bulletin, see <http://www.arrl.org/tis/info/k9la-prop.html>. An archive of past propagation bulletins is at <http://www.arrl.org/w1aw/prop/>.

Sunspot numbers for June 22 through 28 were 0, 0, 0, 13, 14, 33 and 38 with a mean of 14. 10.7 cm flux was 72.1, 71.8, 73.6, 74, 76.4, 78.5, and 83.5, with a mean of 75.7. Estimated planetary A indices were 6, 2, 4, 5, 3, 6 and 18 with a mean of 6.3. Estimated mid-latitude A indices were 6, 1, 2, 3, 1, 7 and 12, with a mean of 4.6.

ARES/RACES Teams Do Flood Duty in Middle Atlantic States

From the ARRL Letter, June 30, 2006

Amateur Radio volunteers this week supported communication or remained on alert to assist relief

organizations and local emergency managers in flood-stricken regions of the Eastern US. Widespread flooding in several states claimed at least a dozen lives. ARRL Eastern Pennsylvania PIO Bob Josuweit, WA3PZO, says ham radio volunteers in 10 counties in his Section actively aided local law enforcement, emergency management agencies and the Red Cross, which set up about a dozen evacuation centers.

"Hams in some areas may be on duty for several days as river levels slowly drop below flood stage," Josuweit told ARRL June 29. The Delaware River, which separates New Jersey and Pennsylvania, crested June 29, and the Susquehanna River a day earlier.

A mandatory evacuation order affecting some 200,000 residents of the Wilkes Barre area in Luzerne County was lifted June 29. Josuweit reports that the Susquehanna crested at nearly 34 feet, 12 feet above flood stage for that area. "In areas where the water has already receded, many utilities are still out of service and local officials are advising residents to stay away from their homes until at least Saturday [July 1]," Josuweit said.

ARRL Eastern Pennsylvania Section Emergency Coordinator Al Rabenau, W3AHR, reported the Schuylkill River receding as of June 29. He said Bucks County ARES had been on alert status since June 28. Members established a VHF repeater net and have been staffing several EOCs and shelters. Bucks County EC Harris Stein, NY3H, says ARES/RACES was trimming down some operations at week's end but will continue Red Cross support through the holiday weekend. He anticipates needing operators to assist with damage assessment July 1 and to replace shelter operators.

Due to topography, flooding along the Delaware typically is worst in Bucks County and in Hunterdon County, New Jersey. ARRL Hunterdon County District Emergency Coordinator David Kanitra, WB2AZE, this week placed Hunterdon ARES on a Level 1 alert for possible deployment to assist RACES.

Burnett called the flooding "basically a repeat of the October 2004 and April 2005 floods," and said officials evacuated the same locations – an area called "The Island" -- in Trenton as well as parts of Titusville. Conventional communication systems remained intact.

In Binghamton, New York, and surrounding Broome County authorities ordered the evacuation of some 15,000 residents as the Susquehanna and Chenango rivers overflowed their banks, putting some neighborhoods under several feet of water. Parts of Interstates 81 and 88 as well as State Route 17 were closed.

In Delaware last weekend, Justin Kates, KB3JUV, says ARES volunteers diverted their attention from Field Day and prepared to support communication in the wake of flooding in Sussex County, which received 15 inches of rain in some areas. "Emergency management had a difficult time providing road and medical crews to the affected areas due

to the high water," Kates told ARRL. The weather event also disrupted conventional communication systems.

Montenegro #336 on DXCC List

From the ARRL Letter, June 30, 2006

A new ARRL DXCC entity came into being this week! As expected, the United Nations admitted the Republic of Montenegro as its 192nd member June 28, and that action automatically makes the tiny Balkan nation the 336th current DXCC entity.

"According to the ARRL DXCC List criteria, entities on the UN list of member-states qualify as political entities," said ARRL Membership Services Manager Wayne Mills, N7NG.

"Therefore, effective June 28, 2006 (UTC), ARRL has added The Republic of Montenegro to the DXCC List. Claims for DXCC credit will be accepted immediately."

The Daily DX <<http://www.dailydx.com>> this week quoted Ranko Boca, YT6A, that current Montenegrin radio amateurs may use their current Serbia-Montenegro call signs until the International Telecommunication Union (ITU) designates a call sign block for the new country.

In anticipation of Montenegro's new nation status, International DX Festival Montenegro <<http://www.yu6scg.cg.yu/international-dx-festival.html>> has been set for July 20 until August 12. That's when several international operators — with Boca as DXpedition leader and well-known DXer Martti Laine, OH2BH, as radio operations leader — will join forces with Montenegrin Amateur Radio operators from at least three different stations using a common call sign in an effort to meet the DX community's need to work the newest DXCC Entity. Festival organizers have set the ambitious goal of 200,000 contacts for the event, which will use all HF bands.

The event also will include several basic courses on ham radio operating and CEPT license examinations aimed at new and less-experienced radio amateurs. Another goal is to establish an Amateur Radio Club of Montenegro

Montenegro declared its independence on June 3 following a national referendum May 21.

AARC Public Service Schedule	
June 11-12	MS 150 Bike Tour

Area Hamfests	
June 4 Manassas	Ole Virginia Hams ARC http://www.w4ovh.com/ Talk-In: 146.970 Contact: Arthur Whittum, W1CRO 12212 Woodlark Court Manassas, VA 20112 Phone: 703-791-4330 Email: opsboss721@earthlink.net

FCC Database Updates	
New Calls	
None Reported	
Upgrades	
None Reported	
Vanity Calls	
None Reported	

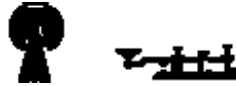
VE Session Schedule - 2006	
Date Location (ARRL VEC)	For other exam sessions in Virginia outside the AARC area, check the ARRL Exam Session Search web page.

For Sale Items	
None reported	

AARC Club Officers			
President	Jay Rostow	K4AZV	k4azv@turing.org 434-263-5795
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Director	Tim	KG4HOT	
Director	Stephanie Rostow	K4BMM	434-263-5795
Director	Bill Phillips	AD6JV	billp1048@earthlink.net 434 872-0686
Director	Dennis Mennerich	K4THE	k4the@arrl.net 434 973-5407

Contest Calendars	
ARRL Contest Calendar 2004	ARRL sponsored contests
SM3CER Contest Service - Calendar 2004	Contests all over the world! Also has links to online rules for most contests
Contesting Online	Just about everything contests!

Albemarle Amateur Radio Club
P.O. Box 6833
Charlottesville, VA 22906
<http://www.wa4tfz.org/index.htm>



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ISSUE DEADLINE - 23rd of each month

Contact Information
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Next Club Meeting : July 11 - 7:30 PM NRAO Bldg at UVA

CLUB MEETINGS and NETS

REGULAR Meeting: Second Tuesday of each month at 7:30 PM
BOARD & TECHNICAL Meetings: Prior to regular meeting at 6:30 PM
Meetings are held at the NRAO building on Edgemont Road.
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
Youth Net: Each Wednesday at 7:30 PM on 147.075
Northern Piedmont Emergency Net / Swap Net / Technical Session: Each Thursday at 8:00 PM
All Nets are held on the 146.760 repeater (except for the Youth Net)

AREA REPEATERS

WA4TFZ

<u>INPUT/OUTPUT</u>	<u>Tone Access (If needed)</u>
146.160/146.760	151.4 Hz
146.325/146.925	151.4 Hz
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
July 11	Regular Club Meeting
August 8	Annual Club Picnic and Hamfest
September 12	Regular Club Meeting
October 10	Regular Club Meeting
November 14	Regular Club Meeting

AARC - PUBLIC SERVICE SCHEDULE

DATE	EVENT
June 11-12	MS 150 Bike Tour

Please sign up at meetings as the SIGN UP CLIPBOARD is passed around. Contact Greg N4PGS indicating your interest in working particular events.

Membership application available in PDF format at <http://www.wa4tfz.org/images/AARCrenewalform2006.pdf>