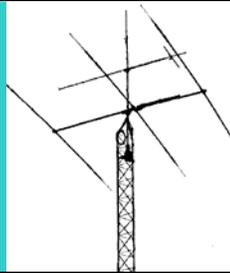


The AARC Beacon



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

Volume 2007, No. 6



June 2007

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Meeting Notice

The next regular AARC meeting will be held on **Tuesday, June 12 at 7:30 PM** at the **NRAO building on the UVA campus**. The **presentation will be by Ken Kellerman and the subject is "Grote Reber the father of radio astronomy"**. See you there!!

VE Exam Session June 9

The AARC VE Team will hold a **license exam session on June 9 starting at 9:00 AM**. See page 7 for further details...

The President's Letter

Jay, K4AZV

Hello and welcome to yet another exciting edition of the Beacon. First and foremost..... Dayton was awesome with good flea market shopping, excellent displays and informative forums. Steph got her DXCC and I got my 20 meter DXCC counted and of course, all of the little freebies the dealers give away.

June will be a busy month. We have the Manassas hamfest, the VHF/UHF contest, Kids day, the MS 150 and at the end of the month ... Field Day!

Now is the time to start thinking about the "changing of the guard." The club bylaws state that the President can only serve for 3 years in a row so that means, I'm out. I am, however, willing to serve the club in a different capacity. John K14DJT will be leaving the Vice President position, Bob K4DU will be leaving his position as the Treasurer, and Marty AG4DN will be leaving his position as the Secretary as well. I'm sure some replacements will also be needed on the Board. Because of not having time limits on some positions some people have held their positions for quite a number of years. These positions will all need to be filled with consideration for who is the best person for the job. It seems as though our club has been on a steady upswing over the last few years. Our membership numbers have

been stable and even show some growth. Our leadership and cooperation is and has been quite good ... certainly better than some but there is still room for improvement.

The Albemarle Amateur Radio Club is a very important asset to central Virginia primarily due to our efforts at public service and emergency readiness. We must continue to be strong through appropriate leadership. There will always be the support and advice if needed from many ex-officers and long time club members alike. If you have never held office in our radio club now would be the time to explore the opportunities. If you have previously held office maybe now would be time to hold a seat again (as there are also a few new retirees in our group). Initially I was fairly well petrified to take office. Now I can say that I feel a strong bond to our club and its members.

Here's what we worked during the past month: Happy Day! Happy Day! Six meters opened on May 2 at approximately 2100 hours to the Caribbean followed by openings on May 6, 9, 11, 16, 22, 26 and 30 with contacts to Canada, South America and USA. On HF we worked: Cyprus, Burundi, Guinea, Senegal, Martinique, Greenland, Bosnia, Sardinia, Uruguay, Algeria and Paraguay.

See you next month ...

73, Jay K4AZV

Veep Peeps

John, KI4DJT

Dear Friends --- It's Memorial Day weekend --- almost Summer! June is a great month for AARC and hams in general (techs and Extras too). We have the MS 150 Bike Tour, a VE session, a UHF-VHF contest and ~ ~ **FIELD DAY** ~ ~ !!!!! Hooray Hooray for **FIELD DAY!!! This year we're having FIELD DAY at Fan Mt. Observatory.** I think there are plans to set up an 80 meter loop, a Carolina Windom and a mast on top of one of the buildings with UHF and VHF antennas. We'll probably operate on the ground floor of the large dome which houses the 40 inch telescope. Fan is a fairly high spot so we should do well on the scoreboard. Also there is a real bathroom so it's more pleasant for our kids, YL's and XYL's. Last season we operated in a flash flood pond during a rain storm; it was fun but.... I don't think we'll have that problem this year. We're planning to roast beef and hot smoke chicken on site and we'll probably have something for lunch too, cold cuts or something. If the weather is clear I'll bring along "My Friend Leo" --- the 16 inch home made Dobsonian telescope and anyone who wishes may take a peek at some of the beautiful sights visible in the summer skies. Please attend, camp out, get on the air, eat some great chow and join the fun.

I couldn't make it to Dayton, but my wonderful Elmer AD6JV brought me a MMR-40 CW/SSB transceiver. It is designed

by KD1JV and kitted by qrpkits.com. I have built a couple transceivers but they were all CW so I'm eager to see what makes this rig construction different from my earlier CW experiments. Although I'm a lousy telegrapher I have experienced the thrill of making contact with something I built and am really charged at the thought of hearing a human voice and having a voice conversation on something I put together myself. I just re-read the great H.G. Wells novel "War of the Worlds". The book was published in 1898 and was completed a couple years earlier. All they had for communication was telegraph over wires, heliograph - a device which reflects light from the Sun to be used in code messages very similar to a signal mirror, the press, flags and mail. The airplane had not been invented, there were very few cars and warships were described as ironclads. No radio, the world must have been a much bigger place. Even the Martians who had the technology to get here from Mars communicated by sounding different notes on sirens. Here we are now in the digital age just a short time from Wells tall tale and the Earth has shrunk to a little world of instant communication and rapid travel. Ain't it cool that for a few dollars and a few hours work we can talk to a ham in Wells' jolly old England on 6 watts!

The June presentation will be by Ken Kellerman and the subject is "Grote Reber the father of radio astronomy". In the late thirties Grote had found many

radio sources from space with his homemade antennas and radio telescopes in his back yard. I for one am very eager to hear about a fellow ham and his world shattering discoveries.

I mentioned earlier it was Memorial weekend. Many of us have served in the military and can never forget things done and friends lost. Many others have lost loved ones to war and will never forget them. Once again young people that look like any kids in high school are in harms way in a foreign country walking around with guns, being scared out of their wits, losing their innocence and sense of personal safety. I get health care at the VA hospital in Martinsburg and have seen lots of young men and women really banged up trying to recover from their battle wounds. Please remember the lowly GI who does his job whether it sucks or not and do all you can to bring them home, they're not playing army --- it's real. Take care and 73 de ...

73 de John, KI4DJT

Club Business

AARC Board Minutes May 7, 2007

Board Members Present: Jay, K4AZV (Prez); Bob, K4DU (Treas.); Marty, AG4DN (Sec'y); Bill, AD6JV, Gordon WW4GW; Steph, K4BMM; Kevin, K4BDR. Members Absent: John, KI4DJT (Veep); Josh, KG4NGV.

With a quorum present Jay opened the meeting at 6:45 P.M.

The first item of business was an announcement of a gift to the AARC of \$ 500.00 from the family of Steve Clements KD4HBX, "silent key" on March 2, 2007. They thanked the club for all the fellowship shown to Steve while he was with us. A copy of their card and note is attached to these minutes as a matter of record. Jay will send a thank you acknowledgement letter to the family.

Jay now turned to the business of the various club repeaters and the most recent happenings. The 220 on Heard Mountain is doing quite well. Tim's (KG4HOT) personal equipment is keeping the repeater going. If it should fail we will dispose of it and purchase new units. As for the 925 repeater, Josh has the new software and coordination with SERA is in its final stages. We are awaiting a copy of the "hold harmless agreement" from our club lawyer. Once in our hands it will be given to the land owners in and around the repeater site and the site owners.

Josh and Ben KG4QVP will be programming the new software into the 440 repeater shortly.

Bob reported a club bank account balance of \$4732.79. This figure is prior to the gift from the Clements family noted above.

Tim indicated that the cans for the 925 repeater are being checked out at present to insure they are in good condition for operations.

Tim indicated that it is necessary to purchase a new Alinco Transceiver for the repeater. The purchase of a transceiver is the most inexpensive method of getting the system operational. The board agreed to place approval for a sum not to exceed \$250.00 before the membership.

Tim brought the Board up to date on the events on the Kluge property and its potential impact on the 76 repeater. The existing tower on the site that holds our repeater antenna will come down. A mono-pole will be erected on the site. Tim has assurances from the property manager that our repeater antenna will be put up on the mono-pole. The existing tower will definitely stay in place until the mono-pole is erected. If things play out in this manner, we will be able to continue operating from the Kluge site.

Ben noted that there are members in the valley that cannot get the Beacon via down load from the Internet. They will be mailed hard copy.

Gordon raised the general issue of the need for an overall vision for AARC's objectives regarding repeater coverage. Where do we want to be in the future? A general discussion followed on the entire issue of repeater coverage and its capabilities and limitations. Jay pointed out that while we have no stated objectives, he sees our repeaters linked to other systems in the surrounding areas we desire to reach. The most critical limitation facing an overall "vision" is the fact we can only place repeaters where property owners agree to permit it. Another point made related to the fact

that our repeater sites are subject to the whims of the property owners. AARC owns no property!!! Given the limitations of the club's situations we must look to linkages with other systems and live with the problems associated with dealing with site property owners.

The discussion terminated. Jay called for a motion to close the Board meeting at 7:40 PM. A motion was made, seconded and approved with no comment.

Submitted by: Marty AG4DN, Secretary

Regular Meeting May 7, 2007

Jay opened the meeting at 7:45 PM and called for introduction of members and guests.

The minutes of the April 10, 2007 AARC meeting were approved by the membership with one change. Note page 3, paragraph 3, and line 3. Replace "he" with "Joe".

Jay reported to the membership that there are 74 registered members of AARC presently.

Jay noted that the Clements family has made a \$500.00 contribution to the AARC in memory of Steve KD4HBX. Steve became a silent key on March 2, 2007. An appropriate acknowledgement will be made by Jay to the family.

Bob reported to the membership a balance of \$4732.79 plus the \$500.00 contribution from the Clements family in the club checking account.

Tim reported that he had attended a meeting of the Lynchburg amateur radio club. They have no reluctance to publish their membership names, calls, etc. There followed a discussion of the progress Josh was having in placing the club roster on our web site. Since Josh was not present at this meeting it was thought best to await a report from him at a later date.

Gordon reminded the membership that there will be a VE session on 9 June 2007.

Since the club Echolink has not been operating, Kevin will assume the task of putting it back into operation.

The issue of propagation studies was raised. The club needs individual(s) who can do computer modeling of propagation for our repeaters. No one present at the meeting has this ability. This will be examined at a future date.

Tim gave an overall report on the club repeaters. The 220 repeater is now operating from the Heard Mountain site. The cans for the 925 are being examined now and should be ready shortly to place the repeater on line. (For situation regarding the 76 repeater see Board Minutes.) Tim went on to request assistance for recon of future repeater sites.

Additional members for the Tech Committee are needed.

The expenditure of a sum not to exceed \$250 for an Alinco Transceiver for the 220 repeater was placed before the membership and approved by a majority of those present.

Bill reminded the membership of the practice dam burst drill on the Rivanna River for the morning of 10 May. He noted the need for volunteers for the MS 150 on 9-10 Jun. Jay reminded the membership of the Manassas Hamfest on 3 June.

The presentation for the evening was given by Vic N3DFS. He covered the progress Greene County is making in the area of emergency communications and coordination with the Red Cross and other emergency services. Vic as the EC for the county is anticipating Federal grant funds through the County for the purchase of ARES/RACES equipment. He noted that the County now has an emergency net that initially opens on the 76 repeater and then switches to simplex. His reasoning for this form of operation is mainly because in any actual emergency the 76 repeater would carry heavy area wide traffic, whereas simplex would be the most efficient mode for County communication. A discussion took place on the role of the ARES/RACES communicators regarding performing duties other than communications in an emergency. Some members expressed strong objections to duties other than communications. Other members believed that in an emergency situation volunteers react as needed. The discussion was lively and strong opinions were held on both sides of the argument.

A request for a volunteer to bring refreshments for the June meeting was called for by Jay. Linda KI4RIW agreed to handle this function.

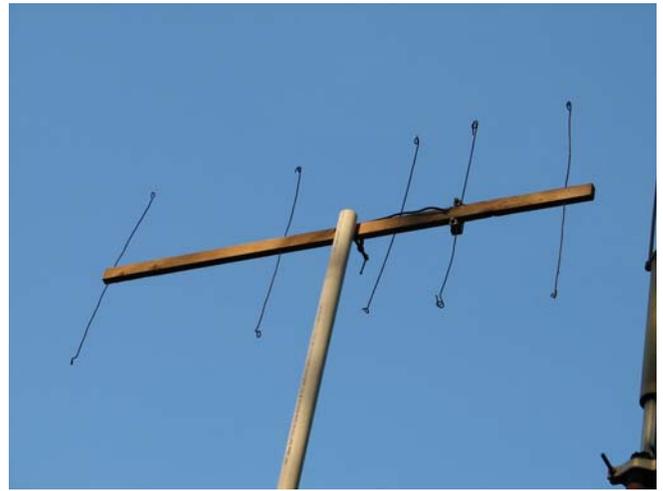
With no further business Jay requested a motion to close the meeting. A motion was made, seconded and approved by the membership with no comment at 8:45 PM.

Submitted by: Marty Mait AG4DN, Secretary

Necessity Is the Mother of Invention

Ron, K4RKA

After Gordon's (WW4GW) beam making demo at the AARC meeting, I was inspired to build something to allow me to get to the Heard Mountain 220 repeater with a handheld transceiver. Here is the result. The circlicues at the ends of the elements provide additional bandwidth (and resonance and good SWR). The boom is tempered furring strip (it's been out in the weather for several years) and the mast is PVC. The elements are pieces of old fence wire - about twice as stiff as a heavy coat hanger. The center insulator is a 30 amp meter shunt which apparently shunted too many amps as it is now an open circuit but is a convenient insulator. The mounting device is a "C" clamp which will rust and will soon be replaced by a bolt which will also rust but is less important to future projects.



I started to use the aluminum boom from a slightly bent 5 element FM broadcast antenna but soon realized the effort to work with rivets and twisted aluminum bits was more work than I wanted to expend in order to talk to Tim, Jaime, Kevin & Bryan, so I looked for something simpler and faster to accomplish. When I found the meter shunt, I knew I had my center element support and a furring strip just fit in between the nuts. After doing some rough measurements on the FM antenna, I realized that if I reduced those element dimensions by 10% and then cut that in half, I had pretty close to the right dimensions for the 220 MHz antenna, saving a whole bunch of calculating and reading of antenna manuals. My first thought for elements was #12 copper wires but I realized that would be too flexible. Then I found a roll of heavy electric fence wire which was stiff enough to stay in place and strong enough to be forced through slightly undersized holes in the furring strip.



True to science, I started with a dipole driven element, cutting it too long to allow for "tweaking". Then came the reflector. Next the first director which was a bit more trouble to get the SWR down to an acceptable number, requiring tweaking of both the driven element and the

reflector. Assuming the next two directors would be mostly just along for the ride, I measured & inserted them both. Everything went to pot!!! So the last one came off and the former process was repeated with the 4th element. More time consuming than the first 3 elements. Finally the last element was installed and tweaked to "pretty good". Let me tell you, fence wire is hard to bend after 3-4 dozen bends of both ends of 5 elements. The end result was a nice null at 223.16 MHz and an acceptable SWR of about 1.2:1, **PLUS** I could now be heard on the 224.76 repeater for the whole week it was functional. I look forward to future experiments with a borrowed commercial beam and an Isopole when the repeater goes back up. My path to the repeater is just noisy enough to make experiments of this nature interesting. Tim's other repeater covers my area so strong, any old antenna will work so there is no challenge there.

Propagation Forecast Bulletin

ARLP022 de Tad Cook, K7RA

This week saw a return to active geomagnetic conditions after a period of relative quiet. The planetary A index reached a high of 42 on Wednesday, May 23, and the mid-latitude A index on that day was 28. At the same time, sunspot numbers are dropping, from a high of 56 on May 16 to 44, 23, 15, 14, 12 and 0 on May 19-24. Currently the interplanetary magnetic field points south, making Earth susceptible to geomagnetic upsets from solar wind.

We could see a blank sun through the end of May. On Thursday, May 24 at 2134z the USAF and NOAA released a second daily 45 day outlook (revised from the initial forecast 35 minutes earlier), calling for solar flux values through the end of the month of 70, 70, 65, 65, 65, 70 and 70 for May 25-31. When the sun is devoid of spots for extended periods, we often see solar flux values below 70, so predicting a solar flux of 65 implies no sunspots.

The three lowest solar flux values I am aware of were between July 19-22, 1996 when they were 64.9, 66.1, 65.4 and 65.1. There you have it, the lowest, second lowest and third lowest solar flux values, all during those four days. The fourth lowest value I am aware of was 65.8 the year before, on May 27, 1995. During the current sunspot minimum and the previous one around 1996, I am not aware of any other solar flux values below 66, but my records only go back to January 1, 1989. My records of solar flux resolved to one tenth of a point don't begin until May 27, 1992. Prior to that, they are all recorded as whole numbers.

Geomagnetic indices should remain active for the next few days, with predicted planetary A index for May 25-29 at 25, 25, 20, 10 and 5. Geophysical Institute Prague predicts active conditions for May 25-26, unsettled May 27, quiet to unsettled May 28, and quiet May 29-31. During the CQ World Wide WPX CW Contest this weekend, expect no

sunspots and declining but still active or unsettled geomagnetic conditions.

Several readers this week reported recent six-meter openings. Mark Bell, K3MSB of Airville, Pennsylvania (about 40 miles southeast of Harrisburg in grid square FM19) worked NP4A (FK68) and WP4N (FK78) around 0000z on May 13. Don't miss Mark's photos of old classic ham radio gear at <http://www.k3msb.com/>.

Mike Williams, W4DL of Pompano Beach, Florida sent a message from the Dayton Hamvention about an opening on six meters on May 14. "After work, I dutifully turned on the 6 meter gear and by 8 PM that evening, I had worked a page full of stateside stations on CW, (my favorite), SSB, FM and AM. What a pleasant early evening! There is much more activity on 52.525 and above and numerous CW stations as compared to last year".

Kenneth Tata, K1KT of Warwick, Rhode Island (FN41) wrote on May 22 that a strong six meter opening began at 2030z toward "4-land", the southeast of the United States. Ken also likes the tropo ducting maps at <http://www.dxinfocentre.com/tropo.html>. He checks the two and six meter loggings at <http://www.dxworld.com/144prop.html> and <http://dxworld.com/50prop.html>. Ken writes, "A much more ambitious website is <http://www.vhfdx.net>. Gabriel has done a truly amazing job with this site! He collects VHF/UHF contacts BY BAND and presents them on a map TO USER SPECIFICATIONS! It can also automatically email propagation warnings to subscribers. And there's a lot more there, too."

Ralph Burgess, VE3BSJ asked, "Very simply, what figures should I hope for? Right now, I see on the top of my DX monitor: SF=70 A=37 K=3. What would show an improvement for me?" My response follows.

An A index of 37 is generally undesirable, although K of 3 means conditions have settled down a bit. The exception is if you want to use auroral propagation on six meters, in which case a higher number is desirable. Aurora appears at lower and lower latitudes as the A and K index rise.

We want the solar flux (70) to be as high as possible. It generally tracks with sunspot numbers. Minimum solar flux is below 70, when there are no sunspots. For good HF conditions, we want many sunspots with less geomagnetic activity.

Here is the relationship between A and K index: http://www.ngdc.noaa.gov/stp/GEOMAG/kp_ap.html.

The A index is calculated every 24 hours, and is based on the eight K index readings done every 3 hours throughout the day. From the nomograph at the URL above we can see that if we had 24 hours of K=1, A would be 4, A would be 7 if all the previous K index readings were 2, 15 if they were 3, and

27 if they were 4. So your A index of 37 probably means that most of the day's K index readings were around 4 or 5.

The latitude of your address in Parry Sound is 45.344 degrees north, which is actually 2.3 degrees south of my latitude in Seattle. The farther north we are, the more we are negatively affected by high A and K index. In fact, these geomagnetic indices can be measured anywhere, and when there is geomagnetic activity you will see higher numbers at higher latitudes.

Look at this: <http://www.sec.noaa.gov/ftpdir/indices/DGD.txt>. The A index you are seeing may be from Boulder, Colorado and is the number derived at the end of the day (in UTC) for yesterday, while the K index is the most recent reading: <http://sec.noaa.gov/ftpdir/latest/www.txt>. Or perhaps it is from some European source.

My general rule is that HF conditions are better when the K index is below 3, and worse when they are above 3. We have seen very quiet conditions most recently, but when we have more sunspots in a few years a Boulder A index of 3 will be about average. You can see from that table of A and K index that the College (Fairbanks, Alaska, at 64.9 deg N) index (both K and A) yesterday (May 23) was much higher than the mid-latitude index, which is from Fredericksburg, Virginia at 38.3 deg N latitude. The planetary indices are derived from a combination of magnetometers around the world. The Boulder numbers on WWV are from 40 degrees north latitude.

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

Sunspot numbers for May 17 through 23 were 30, 45, 44, 23, 15, 14 and 12 with a mean of 26.1. 10.7 cm flux was 76.5, 75.8, 74.8, 74.1, 73.2, 72, and 70.1, with a mean of 73.8. Estimated planetary A indices were 6, 18, 12, 6, 6, 11 and 42 with a mean of 14.4. Estimated mid-latitude A indices were 4, 15, 10, 6, 6, 10 and 28, with a mean of 11.3

73, Ron

Greene County Emergency Net Up and Running

Vic, N3DFS

In March 2007, we initiated the Greene County Emergency Net. We secured permission to use the AARC repeater 146.760 MHz for check-ins and initial comments; then we switch to simplex 146.535 MHz – 15 above the national calling channel. We have since begun switching briefly to other neighborhood repeaters to test our flexibility.

The purpose of the net is obvious. If we encounter an area-wide disaster, all the repeaters will be overloaded — *if,*

repeat, if they are still up and running. In that event, we now know that we can successfully communicate via simplex. Hopefully, we could get some time on some repeater for inter-county communications. Our successes to date, however, indicate excellent results on simplex.

We have not yet begun to “pass traffic”, but that is planned for the near future.

Vic, N3DFS, the county Emergency Coordinator and net control station in the beginning, has prepared an emergency communications manual for each participant within the county. It is a compilation of ARRL and other materials, and includes FCC Rules dealing with RACES, the Volunteer Protection Act, various memoranda of understanding, emergency contacts, communications support to the American Red Cross, SKYWARN reporting, and various other subjects. It is hoped that the collection will be useful “when the chips are down”.

Frequent reprogramming of radio equipment is encouraged so that all will be thoroughly familiar with their rigs.

Brad N7IVV has been appointed Assistant Emergency Coordinator. He has already brought a lot of experience to the group.

73, Vic

Contest Highlights - Upcoming

Bob, W4RQ

ARRL-Sponsored Contests

June 9-11	ARRL June VHF QSO Party
June 23-24	ARRL Field Day

Complete info, rules and log forms for these events can be found online at the [ARRL Contest Calendar 2006](#) webpage.

Other Contests of Interest

Jun 2-3	Alabama QSO Party
June 16-17	All Asian DX Contest

The [SM3CER Contest Service - Contest Calendars](#) has info and rules for these contests and just about every contest that exists.

73, Bob W4RQ

AARC Public Service Schedule

June 9 - 10	MS 150 Bike Race
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Area Hamfests

June 3 Manassas	<p>Ole Virginia Hams ARC http://www.w4ovh.net Talk-In: 146.97- /442.200+/224.660- Contact: Mary L. Blasdel, KB4EFP 9727 Loudoun Avenue Manassas, VA 20109 Phone: 703-369-2877 Fax: 703-369-2877 Email: mblasd1638@aol.com</p>
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FCC Database Updates

New Calls	
None Reported	
Upgrades	
None Reported	
Vanity Calls	
None Reported	

VE Session Schedule - 2007

June 9 Charlottesville (ARRL VEC)	<p>Sponsor: ALBEMARLE ARC Time: 9:00 AM (Walk-ins allowed) Contact: HERBERT G WINN (434) 581-3744 Email: WW4GW@ARRL.NET VEC: ARRLVEC Location: National Radio Astronomy Observatory 520 Edgemont Road UVA Campus Charlottesville, VA 22906</p>
Date Location (ARRL VEC)	<p>For other exam sessions in Virginia outside the AARC area, check the ARRL Exam Session Search web page.</p>

For Sale Items

None reported	
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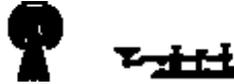
AARC Club Officers

President	Jay Rostow	K4AZV	k4azv@turing.org 434-263-5795
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Treasurer	Bob Pattison	K4DU	rep4@aol.com 434-960-3344
Director	Josh	KG4NGV	jmalone@ubergeeks.com 434-760-1678 (cell)
Director	Gordon Winn	WW4GW	ww4gw@arri.net 434-581-3744
Director	Stephanie Rostow	K4BMM	steph@turing.org 434-263-5795
Director	Bill Phillips	AD6JV	billp1048@earthlink.net 434 872-0686
Director	Kevin Ward	K4BDR	k4bdr@aol.com 434-531-7959

Contest Calendars

ARRL Contest Calendar 2007	ARRL sponsored contests
SM3CER Contest Service - Calendar 2007	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
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<http://www.albemarleradio.org/>



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ISSUE DEADLINE - 23rd of each month

Contact Information
Daniel R. (Bob) Dorsey, Jr. W4RQ
PO Box 530
Ruckersville, VA 22968-0530
(434) 990-2659
W4RQ@yahoo.com

Next Club Meeting : June 12 - 7:30 PM NRAO - UVA Campus

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
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	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)

Other Area Repeaters

- 145.410 (-) 100 Hz Tone (if enabled) -- **AF4CY (Madison)**
- 442.075 (+) 151.4 Hz Tone - **KF4UCI**
- 145.17 (-) 151.4 Hz Tone - **W4FCO (Fluvanna)**
- 146.79 (-) 167.9 Hz Tone - **WW4GW (Buckingham)**
- 145.450 (-) 151.4 Hz Tone **K4DND (Martha Jefferson Hospital)**

AARC CALENDAR OF EVENTS

DATE	EVENT
May 8	Regular Club Meeting
June 12	Regular Club Meeting
July 10	Regular Club Meeting
August 14	Annual Club Picnic and Hamfest
September 11	Regular Club Meeting

AARC - PUBLIC SERVICE SCHEDULE

DATE	EVENT
June 9 – 10	MS 150 Race

Bill, AD6JV is the primary contact for Public Service events and Emergency Communications. Contact Bill for info on particular events.

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