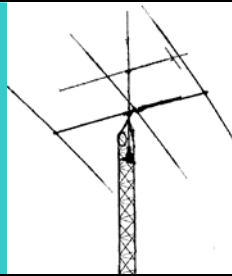


The AARC Beacon



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

Volume 2007, No. 3



March 2007

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Meeting Notice

The next regular AARC meeting will be held on **Tuesday, March 13 at 7:30 PM** at **the NRAO building on the UVA campus**. The program will be on ----- See you there!!

Dues are Due!!

Secretary's Dream

I fell asleep the other night
 And while I had my snooze,
 I dreamed each member stepped right up
 And promptly paid their dues.
 And when I found 'twas but a dream
 I nearly threw a fit
 It's up to you to make it true

SUGGESTION: PLEASE REMIT!!!!!!

It is annual dues time again! There is NO increase in dues this year. Please mail or bring to next meeting.

Mni tnx! *Marty, AG4DN, Secretary*

AARC VEC Team Exam Session Scheduled for March 10

The AARC VEC Team will offer a license exam session on **March 10 at 9:00 AM at the National Radio Astronomy Observatory** on the UVA campus. Walk-ins are welcome.

If you will be taking an exam, **please be sure to have photo identification of yourself, a photocopy of your license and any valid CSCE's you may have previously earned**. Exam fees are still \$14.

The President's Letter

Jay, K4AZV

Hello club members and happy springtime. I hope everybody is well and all have spent much time on the radio during the nasty days of February. Just for the sake of the report here's what we worked this past month.

On VHF/UHF here's what we worked. Zero, nothing, zip, nada. I heard there was a good 6 meter opening as the gloom and doom front approached at the end of February. Blink your eyes and you missed the 6 meter opening. The HF bands were quite a bit livelier. Steph and I made some really nice contacts. Notable contacts include: South Shetland Islands, New Zealand, Croatia, Los Logas group, Slovenia, Serbia, Guyana, Greece, Djibouti, Algeria, Ukraine, New Caledonia, Aves Island, Marshall Islands, and Gibraltar. Also made a number of nice contacts during the 160 meter sideband contest, talked to several /AG and /AE operators and top it off with Norfolk Island and Vatican City. An absolutely fine month for DX if I may say so myself.

Public service season is coming up soon. Please attend to your radios, batteries and antennas as needed. Don't forget your feed line. It ages and needs to be replaced periodically. Field Day is also coming up soon. We have gotten the OK to have Field Day at Fan Mountain Observatory which will be; 1) a magnificent site and 2) we will hopefully, barring cloudy skies have a fine opportunity to do some stargazing in between contesting. The Dayton Hamfest is fast approaching. It would be nice to see as many of our club members as possible attend.

Another issue which is coming up although not necessarily soon, but soon enough to put some serious thought into, is that the officers and board members who do not wish to run next year should make every effort to encourage those that they feel best suited to taking over their position to run for that office. There will be many positions available preferably being filled by folks who have not served before or haven't for some time.

The 440 repeater with its new controller has been up on Martha Jefferson Hospital for awhile now and it seems there is no interference present. Some audio and programming issues remain to be solved and they will be. By the time you read this the 146.925 repeater will have been placed in its new home on Heards Mountain in southern Albemarle County. Hopefully this site will give us coverage in the Shenandoah Valley and fill in some dead/weak spots where the 146.760 does not do quite as well. The point of covering the Shenandoah Valley with our system is that the Red Cross district that we are in has expanded and hence we could use additional coverage.

That's all for now. See you next month.

73, Jay K4AZV

Veep Peeps

John, K14DJT

Dear Friends --- Well I finally did it and got a high speed internet connection --- boy is it expensive!! I also have a new computer and it was fairly expensive too. After a week of messing around with it I can finally access my E-mail account. I would have enjoyed getting a 100 watt K-2 kit much more, wouldn't you? I'm also sure that the K-2 would still be a great rig in 20 years, but in the big picture this computer will be an obsolete anchor ready for the dump fairly soon. If something happened to the K-2 I could probably fix it myself and there isn't much I can do when these computers fail.

We have built a new shack for the Heards mountain site! This Friday, March 2, Tim KG4HOT is coming here to pick up the shack and we'll get it up to the site on Saturday and start getting it set up. Bubba WW4GW, Steph K4BMM, Jay AD6JV, Big Daddy Radio Kevin K4BDR and a few others will be there to do all the important stuff and all I'll have to do is set the door once the building is on site. I'm afraid it would get racked out of square during the trip and bind. The shack will also need two coats of the best quality paint and we'll be completed. Maybe we can get the prime coat on the shack on Saturday as well.

This month the meeting is on the thirteenth and Gordon WW4GW will be giving the presentation. The subject will be Yagi antennas and I'm sure it will be very interesting. The BubbaHam is so smart and charismatic that I'm really eager to hear his talk. All you guys who have been wanting a technical discussion please attend! At the meeting I will be asking some of the friends to give talks. When I pester you please say yes.

The Astronomy department of UVA has granted us permission to use the Fan Mountain Observatory for Field Day. I'm very excited about this. There is a bathroom there to make things a little nicer for the YL's and XYL's and in case of rain we can set up in the observatory. We could probably use the catwalk near the top of the observatory to place our antennas which should be easy. I won't have to climb any trees like I had to do couple years ago when we ran out of sinkers and it's a fairly high site which should be very good for VHF and UHF.

Well friends, I must go out and pay some attention to my critters. In all this mud they are a real mess and all need a good grooming so I'll say please take care and ...

73 de John, K14DJT

Club Business

AARC Board Minutes February 20, 2007

BOD Board Members Present: Jay K4AZV, Pres.; John K14DJT, Veep; Marty AG4DN, Sec'y; Bob K4DU, Treas.; Steph K4BMM; Bill AD6JV; Josh KG4NGV; Kevin K4BDR; Gordon WW4GW. Board members Absent: None.

Jay opened the meeting at 6:40 PM. Jay then covered a number of areas of interest. He announced that John K14DJT had completed the shed on Heard Mountain for our repeater. The 440 repeater is now at Martha Jefferson Hospital. John has gotten approval for the club to use Fan Mountain for Field Day.

Jay now turned to the issue of the club directory. Josh KG4NGV addressed the problems he has encountered from club members that do not want their personal information put on the AARC Web Site. After much discussion and airing of the overall situation it was decided that the list will go the web site, but will be accessed by club members only through a password. It was also decided that limited copies of the membership roster will be printed and sold to those desiring hard copy at cost. Suggestions were also made from the floor for possibly including names of spouses or significant others on the roster, use of the Beacon for publishing the list. Use of the UVA E-mail list of members came to the floor. Prior to any action on this issue a committee made of Bob K4DU, Josh KG4NGV, and Dave K4DND will come up with a recommendation for use of the E-mail list.

Josh noted that the club does not own its electronic resources. He recommended that the club take action to secure this area and not be dependent upon members using their resources for club activities. Josh will report back to the Board with a dollar estimate to accomplish this necessary action.

Jay continued with additional announcements. **The MS 150 is scheduled for 9-10 June.** Those interested in supporting the event are requested to clear their calendars. More information will be provided by Bill as the date draws near. The 925 repeater is no longer at Martha Jefferson Hospital. It will be ready shortly for installation on Heard Mountain. Ron K4RKA will take action on coordination of the repeater.

A discussion followed that addressed a number of issues that might be encountered by the movement of the club's repeaters. The key issues are insurance coverage for the different sites and insuring that the repeaters are in compliance with FCC regulations. Jay announced that the club will investigate the issues and take action as necessary. He noted that "Hold Harmless Agreements" are in existence where necessary or they will be shortly.

Gordon WW4GW announced that there were no plans in the wings for Tech or other classes at present. He noted that he was not the Chair of the Training Committee. The Board will

address training in the future there being no Training Chair at present.

Gordon then addressed the need for an inventory of all club property and its location. Jay directed that all members having club property provide a listing to the club Secretary as soon as possible.

With no further business for the Board, Jay closed the meeting at 7:40 PM.

Submitted by: Marty AG4DN, Secretary

Regular Meeting February 20, 2007

Jay opened the meeting at 7:50 PM. He thanked the membership for attending this meeting, stating that he thought the decision to cancel last week was sound considering the weather. There followed the introduction of members and guests.

The minutes of the December AARC Board and General membership meeting were approved as they appeared in the January 2007 Beacon.

Wesley Epperly K14SIQ was approved for membership by the club.

John K14DJT made a proposal that the club this year as in the past support an award for the student with the best exhibit related to science/radio at the Regional Science Fair.

After some discussion on why the club takes this action, a motion was made to approve an expenditure of not more than \$70.00 for the purchase of a SW radio to the winner. John also notified the membership that he will need volunteer judges for the fair. Action will be taken at a later date.

Jay informed the membership of the plans agreed upon at the Board meeting for the publishing and distribution of the club directory. (See Board Minutes.)

The dates for the MS 150 were announced. It will be held on 9-10 June. Volunteers will be needed. Clear your calendar if you plan to support this worthwhile project. More information will be announced at a later date.

Tim announced that the 925 repeater had been removed from Martha Jefferson Hospital and will be moved to Heard Mountain shortly. The 444.25 repeater is apparently not performing as well as expected. Strength reports are requested. Tim also notified the membership that the "Hold Harmless Agreement" for Heard Mountain will be signed shortly. He noted that a crew is necessary for clean up of the site. Volunteers are requested to contact Tim.

Bob did not have a full Treasurers report for the membership; however he stated the club had in excess of \$4100.00 in our operating fund account. Recently funds from an estate sale were deposited in the account. Tim has items that remained unsold and will bring them to a club

meeting for raffle or distribution to the membership. Decision as to which way to go will be made shortly.

The presentation for the evening was on the State and Regional and local organization of ARES/RACES. Dave K4DND provided the membership with a very effective view of the State and Regional organization, functions, emergency nets and individual responsibilities. Bill provided the local activation procedures, coordination with surrounding counties, anticipated practice drills, the notification "tree" (that is being revised currently) and the use of reverse 911 to activate ARES members.

From the questions asked from the membership the presentation was effective and timely. As we looked at the number of new members present that had never participated in a SET or public service event the value of this briefing was apparent.

With no further business Jay called for a motion to close the meeting at 9:25 PM. A motion was made, seconded and approved with no comment.

Submitted by: Marty Mait AG4DN, Secretary

Addendum - Auxiliary Station Operation on 2 Meters

Dave, K4DND

With apologies, my comments at the last club meeting concerning operating an auxiliary station on the 2M band were in error. This issue was recently addressed as part of FCC WT Docket No. 04-140. In order to get us all familiar with the FCC ruling, I have appended the relevant information to this email. References to footnotes have been removed, but if anyone has further questions they can find the entire document at the link given below.

However, I think it would be better to not operate a 2M link on a frequency that has long been designated as a club and ARES simplex frequency. Since most people have this frequency programmed in radios that would be used during an emergency, this frequency can no longer be used for simplex communications within range of Martha Jefferson Hospital, when the link is active. Using an indifferent frequency would allow linking, redundant control of the 440 repeater, and direct use of the link frequency when needed, as well as preserving 147.54 MHz for simplex emergency communications.

The following is excerpted from FCC WT Docket No. 04-140
http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-06-149A1.pdf

20. Auxiliary stations. *Background.* As currently defined by the amateur service rules, an auxiliary station is an amateur station, other than a station in a message forwarding system, that is transmitting point-to-point communications within a system of cooperating amateur stations. Under the current Part 97 rules, an auxiliary station is restricted to transmitting only on the 1.25 m and shorter wavelength bands, with exceptions for certain frequency segments. The underlying purpose of limiting auxiliary stations to these bands has been to minimize the possibility of harmful interference to other amateur service stations and operations, particularly "weak signal" activity in the 2 m (144-148 MHz) band.

21. In the *NPRM*, in response to a request from Kenwood Communications Corporation, the Commission sought comment on whether it should revise Section 97.201(b) of the Commission's Rules⁹⁶ to allow auxiliary stations to transmit on the 2 m band above 144.5 MHz, except 145.8-146.0 MHz, in addition to the frequency segments previously authorized. In the *NPRM*, the Commission noted that there was no apparent basis to conclude that allowing auxiliary stations to transmit on the 2 m band would cause harmful interference to other stations' communications. It was also noted that user coordination would be possible, and that the additional frequency segments proposed for auxiliary station use do not affect the frequency segments currently authorized to automatically controlled beacon stations, space stations, Earth stations or those frequency segments that amateur radio operators have voluntarily agreed to use for simplex and weak signal communications.

22. *Decision.* We agree with the commenters who support allowing the 2 m band to be used by auxiliary stations, because such use could result in the expansion of amateur service communication systems that incorporate voice over internet protocol operations, or other sophisticated amateur radio communications systems, enhance communications capabilities for emergency communications supporting disaster relief efforts, or permit direct communication with HF radio networks using commonly available radios, such as 144/440 MHz handheld transceivers. Additionally, we agree with ARRL and others who contend allowing auxiliary stations to transmit on the 2 m band would provide amateur stations with additional flexibility to utilize remote control facilities.

23. We disagree with the concern of one commenter that transmissions by auxiliary stations should only be allowed on the UHF bands because these transmissions may "consume a frequency for hours on end." There is no rule limiting the length of time an amateur station may engage in communications on a particular frequency and amateur stations have the ability to switch among numerous channels when one channel is in use, thereby minimizing interference among stations. Likewise, we do not believe the fact that other frequency bands already are approved for auxiliary stations provides a sufficient reason alone to maintain the restriction prohibiting auxiliary stations from transmitting on

the 2 m band. In this regard, we note that auxiliary stations were limited to bands above 220 MHz in order to minimize the possibility of harmful interference to other amateur service operations, particularly weak signal activity, an outcome some commenters believe may still occur. We note, however, that other commenters argue that additional interference, if any, from allowing auxiliary stations to transmit on the 2 m band would only be "slight" in areas of the country where large segments of the 2 m band are underutilized or where unused spectrum is available in the 2 m band to permit auxiliary station operation. We agree with these commenters and note that under our current rules, willful interference is prohibited.¹¹² In addition, we believe that other safeguards such as voluntary frequency coordination and the requirement in the Commission's rules that stations use the minimum necessary power for the auxiliary link also minimize the possibility of harmful interference between auxiliary stations and other amateur stations. We also agree that in areas where segments of the 2 m band are underutilized or spectrum is otherwise available, interference is unlikely. We conclude, based on the above, that we no longer need to limit auxiliary stations to amateur service bands above 220 MHz. Accordingly, we amend Section 97.201(b), as proposed, to allow auxiliary stations to transmit on the 2 m band.

Propagation Forecast Bulletin

ARLP010 de Tad Cook, K7RA

Sunspot numbers and solar flux both increased this week, but just barely. Average daily sunspot numbers rose five points to 19.6, while average daily solar flux rose one point to 75.8. Values are expected to stay about the same over the next week. In fact, the U.S. Air Force predicts an even 75 for solar flux over the next 30 days. Geomagnetic activity should remain quiet. Geophysical Institute Prague agrees with outlook, predicting quiet to unsettled conditions for today, March 2, quiet conditions on March 3-5, and unsettled on March 6-7. The Air Force predicts 5 for the planetary A index from March 2-5, 10 for March 6, and back to 5 after that.

You'll note when there is geomagnetic activity (see <http://www.sec.noaa.gov/ftpdir/indices/DGD.txt>) that often the planetary A and K index will be higher than the mid-latitude numbers. Since most of us live at middle latitudes, a quiet number for the planetary A index means quiet conditions for us as well. On the last day of February, a solar wind stream caused a rise in geomagnetic activity. You can see on the above URL that the planetary A index was 23, Alaska's College A index was 38, but the mid-latitude A index was only 12.

In February we had low sunspot numbers, appropriate for the bottom of the solar cycle. The average daily sunspot

number for February was just 17.3. The only months with lower average daily sunspot numbers in the past year were October (14.7) and February 2006 (5.3). Monthly averages of daily sunspot numbers for February 2006 through February 2007 were 5.3, 21.3, 55.2, 39.6, 24.4, 22.6, 22.8, 25.2, 14.7, 31.5, 22.2, 28.2 and 17.3. Monthly averages of daily solar flux for the same period were 76.5, 75.5, 88.9, 80.9, 76.5, 75.8, 79, 77.8, 74.3, 86.3, 84.4, 83.5 and 77.7.

This month just might be the bottom of the cycle. View the table at <http://sec.noaa.gov/ftpdir/weekly/Predict.txt>, and you'll see that the predicted smoothed sunspot number for March 2007 is 11.3, and it rises after that through the end of the year.

This weekend is the ARRL International DX SSB Contest, and conditions will probably not be bad, at least no big geomagnetic storms should occur. While there isn't much sunspot activity, our local star isn't devoid of spots. Currently sunspot 944 faces us from the center of the visible solar disk.

Eric Owen, KD4MZM of Sarasota, Florida sent a URL for a web page devoted to 10-meter beacons at, <http://10mbeacons.com/>. Here you can check loggings for 10-meter beacons, and leave your own feedback as well for any you hear. There is also a list of links to individual beacon web sites, and a beacon-chat area. Eric runs a beacon on 28.277 MHz.

In case you thought HF radio is no fun at the bottom of the solar cycle, Aki, JA2UOZ, Aki, of Nagoya, Japan writes that he operates with only one-half watt transmitter power and dipole antennas. Currently he is trying for DXCC on 17 meters and higher at the bottom of the solar cycle. He outlines his personal challenge at, <http://www.k4.dion.ne.jp/~jq2uoz/sub1.html>, and some of his recent contest logs at, <http://www.k4.dion.ne.jp/~jq2uoz/sub7.html>.

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/>. Monthly propagation charts between four USA regions and twelve overseas locations are at, <http://www.arrl.org/qst/propcharts/>.

Sunspot numbers for February 22 through 28 were 25, 22, 11, 12, 22, 23 and 22 with a mean of 19.6. 10.7 cm flux was 75.5, 75.1, 75.5, 76.6, 75.4, 74.8, and 75.8, with a mean of 75.5. Estimated planetary A indices were 2, 2, 1, 3, 4, 12 and 23 with a mean of 6.7. Estimated mid-latitude A indices were 2, 2, 2, 4, 4, 7 and 12, with a mean of 4.7.

WRC-07 Conference Prep Meeting Under Way in Geneva

From the ARRL Bulletin, Feb. 23, 2007

Some 800 delegates representing 97 countries are attending the second session of the International Telecommunication Union (ITU) Radiocommunication Sector (ITU-R) Conference Preparatory Meeting (CPM-07) in Geneva. A major step along the way to World Radiocommunication Conference 2007 (WRC-07), CPM-07 convened February 19 and will continue until March 2.

Representing Amateur Radio are International Amateur Radio Union (IARU) <<http://www.iaru.org>> President Larry Price, W4RA, and Technical Representative Ken Pulfer, VE3PU. Other Amateur Radio representatives are part of national delegations. CPM-07 will finalize the technical report that will guide the work of delegates attending WRC-07 October 22 through November 1. Drafting the CPM Report has occupied several ITU-R working parties for the past three years. No final decisions will be made at the CPM.

CPM-07 addresses 27 separate agenda items with a view to formulating the technical, operational and regulatory information on which WRC-07 will base its decisions. The resulting CPM Report provides background information on each WRC-07 agenda item, various methods of addressing the agenda items and the advantages and disadvantages of each. The first session of the Preparatory meeting, held immediately following WRC-03, organized the necessary conference preparatory studies for WRC-07. Most study groups wrapped up their work last fall.

WRC-07 agenda items of interest to Amateur Radio involve allocations in the 4-10 MHz range, a possible secondary allocation to the amateur service at 136 kHz, the modification of footnotes to the Table of Frequency Allocations, and the selection of agenda items for future WRCs.

WRC-07 agenda item 1.13 will review allocations to all services between 4 and 10 MHz, excluding allocations from 7.0 to 7.2 MHz, which were settled to the advantage of Amateur Radio during WRC-03. Starting in March 2009, radio amateurs will enjoy a worldwide 200 kHz segment on 40 meters.

WRC-07 agenda item 1.15 will consider establishing a secondary Amateur Radio Service allocation in the band 135.7 to 137.8 kHz. While CPM Report text describing a method to provide this allocation appeared to be finalized by February 22, it's no guarantee that WRC-07 will actually make the LF allocation.

Virginia QSO Party Is On For March 17 - 18

Courtesy of ARRL Website

It is that time of year again --- when the rest of the world is looking to work US in Virginia!! The Virginia QSO Party occurs every March and is a lot of fun. As I recall, last year, I did not work even one station in Albemarle County! I hope to hear lots of you on the air this year!! Details are listed below. CU on the bands!!

Phone/CW/Digital, sponsored by the Sterling Park ARC from 1800Z Mar 17-0200Z Mar 19.

Frequencies (MHz): CW -- 1.805 and 50 kHz above band edge; Phone -- 1.845, 3.860, 7.260, 14.270, 21.370, 28.370, Novice/Tech 28.370; VHF/UHF 50.130, 144.200, 146.58, 223.50, 446.00; Digital on common frequencies. No repeater or cross mode QSOs.

Categories: SO, MS, MM; Fixed, Expedition and Mobile.

Exchange: serial number and VA county/city or S/P/C. QSO points: Phone -- 1 point; CW or Digital -- 2 points; VA Mobile -- 3 points.

Score: QSO points x VA city/counties + S/P/C (counted only once). VA mobiles add 100 points per VA city/county activated. Add 500 points for QSO with K4NVA.

For more information:

www.qsl.net/sterling/VA_QSO_Party/QSOParty.htm.

Logs due Apr 15 to nq4k@arrl.net or Virginia QSO Party, Call Box 599, Sterling, VA 20167.

Contest Highlights - Upcoming

Bob, W4RQ

ARRL-Sponsored Contests

Mar 3-4	ARRL International DX Contest – SSB
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Complete info, rules and log forms for these events can be found online at the [ARRL Contest Calendar 2006](http://www.arrl.org/contests) webpage.

Other Contests of Interest

Mar 17-18	Virginia QSO Party
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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

AARC Public Service Schedule	
None Reported	

Area Hamfests	
February 18 Richmond	Virginia State Convention (Richmond FrostFest) Sponsor: Richmond Amateur Telecommunications Society http://www.frostfest.com Talk-In: 146.880 (PL 74.4)
February 25 Annandale	Winterfest 07 Vienna Wireless Society http://www.viennawireless.org Talk-In: 146.91

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

VE Session Schedule - 2007	
March 10 Charlottesville (ARRL VEC)	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
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	Bill Phillips	AD6JV	billp1048@earthlink.net 434 872-0686
Director	Stephanie Rostow	K4BMM	steph@turing.org 434-263-5795

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
 Charlottesville, VA 22906
<http://www.albemarleradio.org/>



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ISSUE DEADLINE - 23rd of each month

Contact Information
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 Ruckersville, VA 22968-0530
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W4RQ@yahoo.com

Next Club Meeting : March 13 - 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 (except for the Youth Net)

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)
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**
- 145.17 (-) 151.4 Hz Tone -- **W4FCO (Fluvanna)**
- 146.79 (-) 167.9 Hz Tone -- (Buckingham)

AARC CALENDAR OF EVENTS

DATE	EVENT
January 7	Annual Club Winter Dinner – Ponderosa - Pantops
March 13	Regular Club Meeting
April 10	Regular Club Meeting
May 8	Regular Club Meeting

AARC - PUBLIC SERVICE SCHEDULE

DATE	EVENT
June 9 – 10	MS 150 Race

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>