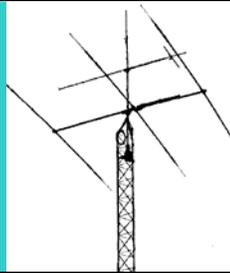


The AARC Beacon



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

Volume 2009, No. 1



January 2009

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Meeting Notice

The next AARC meeting will be held on **January 13 at 6:00 PM at the Elks Lodge. The program will be the AARC Annual Awards Dinner.**

Dues are Due!!!

2009 membership dues are now due. Please make payment to the AARC Secretary. **There is no increase since last year.** All club members should fill out the standard application form. **Checks are requested.**

Annual Awards Dinner Reminder

The AARC Annual Awards Dinner is looming on the horizon and the **deadline for reservations is January 6.** Thirty-three of your fellow members and guests have made their reservations so far. If we don't have yours, please make it now before you forget and time runs out. The dinner will be held at the Charlottesville Elks Lodge across from Darden Towle Park on Route 20. **The event will begin with a cash bar at 6:00 PM and a buffet dinner at 6:30 PM on January 13** – the second Tuesday of the month. Tickets are \$18.

Call VP Jim Crosby at (434) 823-2277 or email him at jecrosby@comcast.net. Snail mail address is 5571 Brookwood Road, Crozet, VA 22932. It is going to be a great evening for fun, fellowship and fantastic food!

The President's Letter

Dave, K4DND

Greetings to all and Happy New Year. I wish everyone the best in the coming year and hope that 2009 will be the year that you try something new in our wonderful Amateur Radio hobby. You might explore using new digital modes, work on your CW proficiency, start to work some DX, or participate in

upcoming contests. You might make this the year you help someone get licensed, or help someone already licensed get on the air. Anyone can be an Elmer. You don't have to have all the answers, you just have to have enthusiasm for our hobby, and the rest will follow.

The Beacon is coming out a little late this month, no doubt due to my personal tardiness. **It has been quite busy around the K4DND house the past several weeks, with much more to follow.** I expect to see two new twin granddaughters on the 9th of this month. If you don't hear much out of me during that period, you will know that I am very involved with greeting these new arrivals.

It is not too late to be included in the annual Winter Dinner of the AARC taking place Tuesday, January 13th at the Elks Lodge on Rte 20 north. For tickets, please contact Jim Crosby K4JEC. Dinner is \$18 and if last year was any indication, this is a very good quality meal for the price, and should be a fun evening. I hope to see more of you attending than were present last year. Everyone who showed up January, 2008 agreed that it was an event well worth attending. **The evening begins at 6PM with a cash bar, dinner at 6:30PM with presentation of awards and recognition of AARC members who were instrumental in making 2008 a fantastic year for the club.**

There have been several email discussions with a local high school physics teacher, who is planning an APRS balloon launch this spring. Depending on the particular balloon used they expect to get well over 100K feet. Since no one in the class will be licensed, we will have to participate in the project by lending a hand with the APRS tracker and providing a call sign and control operator for that endeavor. I am really looking forward to this event; it should really be a lot of fun, and it will be something totally new for us.

From our high of 103 members in 2008, we presently stand at 58 members. **If you have not yet renewed your AARC membership, please do so as soon as possible.** I would like to have the recruiting efforts in the early months of 2009 be expended toward bringing in new members, rather than used to get current members renewed.

Many thanks to Mike K14RIX, Jay K4AZV, and Gordon WW4GW who all are no longer serving the AARC as Board members. You all did a great job and it was a pleasure working with each of you. **I welcome Jim K4JEC and Greg N4PGS to the Board for 2009** and look forward to working with you fellows in the coming months.

Mark your calendars, **Frostfest 2009 is rapidly approaching. Saturday February 7th is the date and the Richmond Raceway is the place.** Again this year, the AARC will have 2 tables, same location as last year. Look through your shack and if you have items that you would like to sell, bring them along or send them with someone. Just make sure you provide documentation of the condition, and the price you would like to get. If you invest some time working the table, then you keep all the money from your

items that sell. Otherwise, the AARC will keep 10% of the sale price. That is a pretty good deal. Last year we moved a lot of equipment and assorted items off the AARC tables, and everyone who worked the tables had a great time.

I am really looking forward to the coming year. We made great progress in 2008 with an outstanding group of club leaders. Since those that are returning will be joined by equally talented newcomers to the Board, the AARC should continue its growth and development into a truly outstanding club.

73 and see you at the Winter Dinner!

73 de K4DND

Veep Peeps

Jim, K4JEC

I joined the club some thirty years ago and due to a prior commitment to first call for emergency services going to the Coast Guard Auxiliary, I was never able to be very active --- although I eat a lot of Wednesday lunches with the group that lunched at Bonanza, BoJangles and later the Wood Grill Buffet. I retired from the Coast Guard Auxiliary in December of 2007 after serving as the Charlottesville Flotilla Commander and last as Blue Ridge Division Captain. I served as a Master Instructor, Coxswain and Communications Specialist.

I participated in the "Name The Newsletter" contest back in 2000 and won with the name "Beacon." The club presented me with an ARRL Handbook 2000 as my prize.

I have completed the ARRL Amateur Radio Emergency Communications Course Level 1 and the FEMA Emergency Management Institute's ICS 100 so far.

I pulled from my files my copy of the AARC's Directory of Albemarle Area Radio Amateurs dated September 1995 and found some of the amateur's names I had long forgotten. Rick Berman, KO4WQ, was a vice president and picked me up one evening and brought me to my first meeting. Joe Fritz was club secretary for many years and always produced the Ham Directory for the club. He was a dedicated and hard working member of the club. Brian Fox was on the staff at The Miller School with me and I obtained my license during my time at Miller School back in the early 70's. John Criser was a dear friend until his death in 1995. His family asked me to preside over his funeral service as a fellow Coast Guardsman and lay minister. We buried his ashes from a Coast Guard vessel in the middle of the Chesapeake Bay.

My very first experience with the mystery of radio occurred when I built a crystal set receiver at the age of 10 back in 1945. I used my old metal bedsprings as my antenna. My mother used to get upset with me when she tried to clean my room because of all the wires.

I look forward to serving the club and working with the great team of leadership you have elected for 2009. For now, may God Bless you with a Merry Christmas and a wonderful and rewarding New Year.

Club Business

Submitted by: Alan Swinger K9MBQ, Secretary

AARC Board Minutes – December 9, 2008

President Dave Damon opened the meeting to discuss content of Committee reports to be given at the general meeting, motions for funding for the BoD and for the general meeting, and to agree on the agenda for the meeting. The BoD was held at the NRAO building on Tuesday, 9 December.

BoD members present: Dave - K4DND (Pres), Alan – K9MBQ (Secy), Don – K4UVA (Treasurer), Gordon – WW4GW (Dir), Mike – K14RIX (VP), Jeffrey - N4LFJ (Dir), and Dennis – K4THE (Dir).

Key discussion items were as follows:

- The treasurer's report presented by Don indicates that the club is solvent with a current balance of \$3864.19 in the bank. Repeater contributions, membership dues, and banquet ticket funds continue to be received.
- Dave reported that **membership was now at 103**. He also showed a draft of a planned mailing to recruit new members in the surrounding counties. The BoD approved a reimbursement to Dave for \$135 for mailing preps/postcards and postage.
- Jim (K4JEC) gave a status on reservations for the 13 Jan dinner. Dave proposed that the club pay for tickets for Life Members and guests – a possible total of 10; the BoD approved.
- Dave proposed that the club donate \$100 in support of the Waynesboro repeater for the continued support by those who operate and maintain it. The BoD approved the donation.
- Jim and Dave showed a draft AARC brochure and a patch design. All agreed to expend more effort to finalize the designs and bring to the membership at the next business meeting.
- Reports for the General Meeting from the following committees were approved: Education, Technical, and Publications. Activities and Fund Raising chairmen were not present.

There being no further business, the meeting adjourned.

Alan Swinger – K9MBQ, Secretary

Regular Meeting – December 9, 2008

The December 2008 AARC monthly meeting was convened at 7:30PM by Dave Damon (K4DND), club President, at the NRAO building in Charlottesville, VA. All members present made brief introductions, and two life members were present – Harry (W2HD) and Joe (W2PVY).

The General meeting commenced with Dave K4DND addressing the following:

- The minutes of the November 2008 meetings were approved as they appear in the December issue of the Beacon without discussion or change.
- Don (K4UVA) presented the club Treasurer's report indicating a current balance on hand of \$3864.19. This also included several donations to the Repeater fund.
- Jim (K4JEC) – incoming VP – gave a status report on reservations and funds received for the **13 Jan annual AARC dinner** to be held at the Elk's Lodge. So far, he has approximately 25 paid reservations, and asked that members contact him soonest to reserve their space. Tickets are \$18/person for what will be a delightful dinner and social event for members and guests. **Start time is 6 PM for the social hour and dinner is planned to begin at about 6:30**. There was a question about attire – this is an evening event to which many bring wives or guests, so appropriate dress is suggested . . . but Ties are not required.
- Dave's President's report included the following:
 - Dave noted that club membership was at 103.
 - The BoD approved reimbursement to Dave K4DND of \$135 for postcards and postage for a mass mailing of a member recruiting card to approximately 23 surrounding counties and municipalities. The objective of the mailing is to recruit new members and to bring back former members.
 - Dave and the BoD approved providing free banquet tickets to Life Members and guests – a potential total of 10. The motion was made to the membership and was approved. Dave also moved and the membership approved inviting at no charge Dr Fred Lo, Director of NRAO, and Albemarle County EM, Director of 911 and Wayne Compagna.
 - Dave also noted that the BoD approved a \$100 donation to the Waynesboro repeater group for their continued support of AARC events.
 - **AARC plans to participate in the 7 Feb (Sat) Richmond Amateur Telecommunications Society (RATS) FROSTFEST at the Richmond Raceway complex**. Don (N4UVA) will send a check to reserve a booth and two tables. This is a fun Hamfest event – all are encouraged to attend.
 - Also coming on 22 Feb is the Vienna Wireless Winterfest – more to follow later.
 - Received reimbursement from Shenandoah Tower for the cost of one antenna that was damaged. Also received a \$100 donation from

K4JMY for donated equipment from the wife of a recently SK Ham.

Committee Reports follow.

- **Fundraising** – Linda (K15LLB) – absent
- **Activities** – Jay (K4AZV) absent – Frostfest on 7 Feb and Vienna Wireless Winterfest on 22 Feb as reported above.
- **Publications** – Jeffrey (N4LFJ) presented video of an interview/story done with Myles Henderson – weatherman for the TV Newsplex – regarding SKYWARN Recognition Day. The story was aired last weekend and featured AARC members.
- **Education** – Dennis (K4THE) is still seeking 1 or 2 additional volunteers to serve on the education committee. In addition, he is looking for persons interested in helping to conduct a short review course for preparing for the Technician exam. He has an ARRL instructor's manual with many class outlines and PowerPoint media to help out with instruction. If you renew your ARRL membership, you can get a free book, such as the Technician Course, which you could donate to the club.
- **Technical** – Gordon (WW4GW):
 - Noted that various antenna repairs and mods had been successfully accomplished
 - All repeaters are working well and linking is one of the next efforts to be undertaken
 - Battery backup for Heard's Mountain is also an imminent mod.

After the formal meeting, Mike (**K14RIX**) and Mark (**KJ4IEA**) presented a very informative pitch on commercial Digital Radio. For those who want more detail, I am sure that Mike can make his Viewgraphs available, and also there is an excellent testing and review done by K6STI at the following web site: <http://ham-radio.com/k6sti/xdr-f1hd.htm> Also of note, **Mike recently upgraded to Amateur Extra Class, and Mark is newly licensed as a Technician Class ham – congratulations to both!!**

There being no further business, the meeting was adjourned. The next meeting will be the **Annual Winter Dinner held January 13 at the Elk's Lodge at 6 PM.**

Alan Swinger – K9MBQ, Secretary

December Quiz Results

Ron K4RKA

Ron's December quiz received only one response – and it was correct!! Congratulations to Will KJ4XZ for his expertise!! The correct answers were 1-D, 2-C, 3-F, 4-B 5-A and 6-E.

An Affordable Hobby in an Age of Expense

By Lou Giovanetti, KB2DHG

Reprinted with permission from eHam.net, Dec. 30, 2008

I am a hobbyist; my hobbies range from vintage auto collecting, Auto Racing, and model building to Amateur Radio...

As the economy has gotten worse I have found that my hobbies have dwindled away ... **ALL but my Amateur Radio hobby.**

In this day of huge price tags and a sour economy, I can still afford Amateur Radio. Now, my station is filled with most everything a well stocked shack could have but I was thinking: If I had to start all over again just how much would it cost me to get back on the air?

The cheapest way I found was to shop the on-web auction sites. Here are the results of my findings...

Going on **eBay**, I watched a bid on a good (so the seller said) operating Kenwood TS 440 rig. The ending price was \$286.00. NOT BAD AT ALL! So I then searched for a power supply. I came across an ASTRON power supply and the final selling price for that was \$59.20 lets figure shipping for both came to \$70. The total cost of the purchase came to \$415.20. Building a simple dipole antenna using #12 wire and coax cost \$30; so for a total of \$445.20 YOU ARE ON THE AIR!

This is for a decent HF station. For the price of a new HT -- let's say \$200! -- you will be able to enjoy the hobby too. Bottom line with good shopping and ingenuity: Amateur Radio is really an affordable hobby to be involved in...

When I go racing my vintage race car the entry fee alone can cost as much as \$500.00, let alone the cost of fuel, getting to the track and all the rest of the expense of the upkeep of the car and tow vehicle.

As hobbies go Amateur Radio is still the most affordable hobby anyone can have. I have even known Ham's that built their own transceivers for pennies...

If I am never able to purchase another piece of equipment again, I will always be on the air!

Yes, you don't have to spend a million bucks on the new equipment of today. The market is full of good decent performing Amateur Radio gear!

As far as antennas go, building a dipole is so simple I just don't understand why anyone would buy one?

If you can read you can build a good antenna and hey, even a good transceiver can be built if you put your head to it!

AND THAT IS ALL PART OF THE FUN OF THIS HOBBY!

To me there is nothing more rewarding than making a contact from something I put together myself!

So, even though the economy is tough and money tight, as HAM's we are fortunate that we are not confined to our wallets. Money is NOT an issue when it comes to getting on the air!

My other hobbies had to be put on a shelf; THANK GOD I will always have my HAM RADIO!

73 my friends and I hope to meet you down the log ...

73 de Lou, KB2DHG

For Sale and Wanted...

Tnx Ron, K4RKA

Please notify K4RKA when an item has been sold or pulled from availability and can be deleted from this list.

Ten-Tec 6M Transverter. Provides 10W out and have used successfully w/ a TS-570. I have all documentation. Simple to use; tunes on the 20M band. Price - \$60. Happy to demo it for you. Contact info: Alan K9MBQ; 434-975-6237, email awslinger@earthlink.net

Scanners for Sale -- 2 Uniden 760 \$50.00 Each. 1 Radio Shack 95 Portable \$100.00. 1 Bearcat 240xt 40 channel \$25.00. 1 UHF-VHF Radio Shack 16 channel \$25.00. 1 Bearcat 240XL 20 channel 20.00. 1 Bearcat 200 16 channel \$15.00. 1 Uniden 100xt 100 channel 50.00. 1 Pro 2051 Radio Shack Desktop 1000 channel \$150.00. Thanks, Jerome, KI4DLA

Rotator cable - 125 ft of 8-conductor rotor cable. Bought new -- discovered I had more than a 100 ft run to the antenna and would need heavier duty cable. Call Bob W4RQ at (434) 990-2659 (home), (434) 980-7143 (office) or via email at w4rq@yahoo.com.

MFJ-4103 Power Supply for FT-817. New, never used in original packaging. Call Bob W4RQ at (434) 990-2659 (home), (434) 980-7143 (office) or via email at w4rq@yahoo.com.

Coleman Series 54 Generator; 4KW 120V/240V. Briggs & Stratton 8HP engine model 190432. Very clean and mounted on cart. Purchased about 1985 and used very little. Has new carburetor, plug, air filter, fuel lines, fuel filter & fuel cutoff valve. However I can't get it started. Has compression, fuel and I believe good spark. Maybe new carburetor just needs adjustment. I'm tired of pulling the rope! And anyway it won't run my heat pump. \$199.00 Jim K4CGY 434-296-3044

Radio and Electronic Test Equipment - FOR SALE

All equipment is in good working condition, but not guaranteed John Green, KX4P. **SAMPLE LIST:**

1 ALD-22 Aerovox, Decade Inductor, 0 to 0.1 Hy -

No manual -- \$10

1 ALD-32 Aerovox, Decade Inductor, 0 to 1.0 Hy - No manual \$10

1 ALD-42 Aerovox, Decade Inductor, 0 to 10 Hy - No manual \$10

1 10W-1000 Amplifier Research, Wideband

Amplifier, 1 to 1000 MHz, 10 Watt - Yes manual - \$150

1 1309 AT&T Home Telephone Answering Machine Yes manual \$2

MANY MORE ITEMS - TO SEE COMPLETE LIST PLEASE GO TO

<http://www.albemarleradio.org/members/swapfest.shtml>

WANTED: I'm looking for a **2m mobile radio, preferably small** (comparable in size to modern mobile rigs). **Can be commercial VHF as long as it can tune down to 144.39 MHz.** Contact Mike Benonis KI4RIX at mjb8h@virginia.edu or (703) 577-3788.

Propagation de K7RA

ARRL Propagation Bulletin ARLP001

2008 was a year of very low solar activity. Over forty percent of this year's propagation bulletins reported zero sunspots for their respective weeks. The average daily sunspot number for the year was 4.7, and in 2007 it was 12.8.

The yearly averages of daily sunspot numbers for 1999-2008 were 136.3, 173, 170.3, 176.6, 109.2, 68.6, 48.9, 26.1, 12.8 and 4.7.

Two years ago we wrote, "This is the first bulletin of 2007, the year we'll likely see the end of sunspot cycle 23, the beginning of cycle 24, and the minima between cycles".

One year ago in the first bulletin of 2008 we noted the same quote from the previous year, and wrote "Now a year later we might say the same about 2008".

This is probably still true for past year, because since early 2008 we saw cycle 24 spots, and what looks like a slow increase in activity toward the end of the year, although a week of sunspots at the end of December would have helped to sustain the upturn.

We've been looking at a three month moving average of sunspot numbers, and the average for October-December, centered on November, was 4.4, about the same as the number 4.5 centered on October.

December 2008

Here are the 3-month sunspot number averages since early 2007:

Jan 07	22.7
Feb 07	18.5
Mar 07	11.2
Apr 07	12.2
May 07	15.8
Jun 07	18.7
Jul 07	15.4
Aug 07	10.2
Sep 07	5.4
Oct 07	3.0
Nov 07	6.9
Dec 07	8.1
Jan 08	8.5
Feb 08	8.4
Mar 08	8.4
Apr 08	8.9
May 08	5.0
Jun 08	3.7
Jul 08	2.0
Aug 08	1.1
Sep 08	2.5
Oct 08	4.5
Nov 08	4.4

For those readers who track the solar cycle using Scott Craig's Solar Data Plotting Utility, there is a new data file on his website containing 20 years of data, from January 1, 1989 through December 31, 2008. The program can automatically suck up the data from the text of our bulletins. You can download the software for Windows and the update from the WA4TTK web site at <http://www.craigcentral.com/sol.asp>. The updated data file is available directly from <http://www.craigcentral.com/software/update.zip>.

Mike Hoteling, KD7IBE of Colville, Washington wrote "Just want to report some good propagation from northeastern Washington on 160 meters late at night. These quiet sunspot conditions offer some unique opportunities. QSO into Wyoming and Texas complete with QSL cards with the century club on 1892 kHz with 100 watts into a 75 meter dipole at 35 feet. Don't be afraid to give it a try."

Elwood Downey, WB0OEW of Socorro, New Mexico along with many other readers called attention to recent news from NASA that the ionosphere is now at lower elevation than in the past. I suppose this means that worldwide shortwave signals might not propagate as far. Read the article that Elwood sent at <http://tinyurl.com/3p2pcs>.

A number of readers, including Norm Priebe, W7ISD of Alexandria, Minnesota sent in links to articles about a big hole in earth's magnetic field. Read about it at http://science.nasa.gov/headlines/y2008/16dec_giantbreach.htm. The magnetosphere helps protect us from solar wind, so if these findings are correct, it wouldn't take strong space weather to trigger aurora.

The local newspaper in Homer, Alaska ran an article this week about aurora borealis, which often can be seen from Homer. Read it at <http://www.homertribune.com/article.php?aid=3733>.

Dave Deatrick, WA8OLD was mentioned in ARLP051 back in December, 2006, when he told about the fun he was having on 40 meters with a shortened dipole in a vee configuration at 30 feet. He wrote again on December 20, 2008 to report more fun from the far north of Michigan with the same antenna, and about 4.8 db more power (300 watts vs. 100 watts). He lives about a mile from the Canadian border at Sault Ste Marie, and writes "40 CW has been good lately, especially from about 1000 to 1200 GMT to Caribbean and South America. Just worked H6VA at 1155 this morning, December 20. Also was able to work an AH6 same time period during CQ WW CW test".

Sunspot numbers for December 25 through 31 were 0, 0, 0, 0, 0, 0, and 0 with a mean of 0. 10.7 cm flux was 69.3, 69.2, 69.4, 69.8, 69.8, 68.5, and 69.3 with a mean of 69.3. Estimated planetary A indices were 3, 1, 1, 2, 0, 1 and 10 with a mean of 2.6. Estimated mid-latitude A indices were 2, 2, 1, 1, 1, 1 and 8 with a mean of 2.3.

Contest Highlights - Upcoming

Bob, W4RQ

ARRL-Sponsored Contests

Jan 17-19	ARRL January VHF Sweepstakes
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Complete info, rules and log forms for these events can be found online at the ARRL Contest Calendar webpage.

Other Contests of Interest

Jan 10-11	Hunting Lions on the Air
Jan 24-25	Winter Field Day

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

None Reported

Area Hamfests

Date
Location

FCC Database Updates

New Calls

None Reported

Upgrades

KI4RIX

Vanity Calls

None Reported

VE Session Schedule - 2008

Date
Location

(ARRL VEC)

For exam sessions in Virginia outside the AARC area, check the [ARRL Exam Session Search](#) web page.

For Sale Items

For Sale

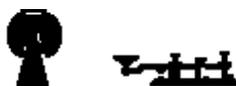
AARC Club Officers

President	Dave Damon	K4DND	k4dnd@arrl.net (434) 973-5866
Vice President	Jim Crosby	K4JEC	jecrosby@comcast.net (434) 987-2006
Secretary	Alan Swinger	K9MBQ	awswinger@earthlink.net (434) 975-6237
Treasurer	Don Eason	N4UVA	deason@comcast.net (434) 973-9119
Director	Dennis Mennerich	K4THE	k4the@arrl.net (434) 973-5407
Director	Linda Beard	KI5LLB	lindaskyone@earthlink.net (434) 823-2107
Director	Greg Faust	N4PGS	n4pgs@arrl.net (434) 978-1962
Director	Vacant		
Director	Jeffrey Seay	N4LFJ	n4lfj@yahoo.com

Contest Calendars

ARRL Contest Calendar 2008	ARRL sponsored contests
SM3CER Contest Service - Calendar 2008	Contests all over the world! Also has links to online rules for most contests
Contesting Online	Just about everything contests!

Albemarle Amateur Radio Club
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ISSUE DEADLINE - 25th 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 : January 13 - 6:00 PM Elks Lodge

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: Each Thursday at 8:00 PM
All Nets are held on the 146.760 repeater

AREA REPEATERS

146.760 (-) 151.4 Hz Tone **WA4TFZ**
146.925 (-) 151.4 Hz Tone **WA4TFZ**
224.760 (-) No Tone **WA4TFZ**
444.250 (+) 151.4 Hz Tone **WA4TFZ**
Other Area Repeaters
444.775 (+) 151.4 Hz Tone **KF4UCI**
442.075 (+) 151.4 Hz Tone **KF4UCI**
145.17 (-) 151.4 Hz Tone **W4FCO** (Fluvanna)
146.79 (-) 110.9 Hz Tone **WW4GW** (Buckingham)
145.450 (-) 151.4 Hz Tone **K4DND** (Martha Jefferson Hospital)
224.600 (-) 151.4 Hz Tone **KG4HOT**

AARC CALENDAR OF EVENTS

DATE	EVENT
January 13	Annual Winter Awards Dinner
February 10	Regular Club Meeting
March 10	Regular Club Meeting
April 14	Regular Club Meeting

AARC - PUBLIC SERVICE SCHEDULE

DATE	EVENT
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Membership application available in PDF format at http://www.albemarleradio.org/members/AARC_member_application.pdf