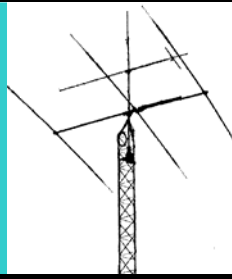


# The AARC Beacon



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

Volume 2010, No. 1



January 2010

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## Meeting Notice

The next AARC meeting will be held on **January 12 at 6:00 PM at the Elks Lodge at Pantops. This is the Annual Awards Dinner – lots of fun!!**

Sounds interesting – see you there!

## Dues are Due!!

Dues are now due for 2010!! **Rates have not changed since last year.** You may pay your dues at a club meeting or forward a new application form, which is available on the club website --- follow instructions on the form.

## The President's Letter

*Dave, K4DND*

Happy New Year to one and all!! I hope that the holidays have been a good time for you and your families. It seems like only yesterday that I was at the 911 Center for Y2K and standing by in the event of something bad happening. Turned out to be a significant non-event, and that was certainly OK with everyone there. But was that really 10 years ago? Give me a break! Maybe this decade will give us an inventive way to slow down the clock. One can always live in hope ☺.

**Speaking of 10 years, that is how long Bob W4RQ has been providing us with our fine AARC Beacon. Unfortunately, Bob is going to have to pass this task on to someone else as this will be his last issue.** Bob uses a Microsoft Word template for composing the Beacon, and if anyone would like to take on this important club activity, please let me know. **Bob has kindly offered to help the new editor get started** and since most of the heavy lifting has already been done, it should be relatively easy to make the transition.

**Coming on quickly is the first of what I hope will be 4 VE sessions per year. The date is January 9 and the location is the NRAO headquarters building where our**

## January 2010

**monthly meetings are held. The time is 9AM** and all you need if you want to upgrade is a copy of your license, \$15, pencils and perhaps a calculator. VE team members let me know if you are able to assist that day.

Then the following Tuesday, **January 12 is our annual Winter Dinner, held again this year at the Elks Lodge on Stony Point Rd, immediately south of Darden Towe Park. We plan to gather at 6PM for a social hour prior to the dinner at 7PM.** There will be a cash bar for those interested, and based on our experience of the past two years; this should be a fun get together.

As of this time, renewals stand at 46 so we have a way to go to get everyone renewed for 2010. **If you haven't done so already, please send in your membership form and dues as soon as possible.** Using time to ensure that current members are renewed for 2010, takes away from recruiting new members to the club, so do your part and get your dues in. Besides, Don N4UVA is still decorating his river hideaway and we don't want him to have to stint on the décor.....

**What's new in your shack?** Here, I have been using a MicroHam USB III interface and have been very impressed. It is a bit pricy but comes with a control cable specific for the rig you are going to use it with, so no more kludging cables. It connects to the computer by USB, but unfortunately, can't get power from the USB connection, it requires an external power source. But the good news is that it will handle all possible rig control tasks, the audio is all built into the box so no need to mess with another sound card for digital modes. It comes with a control program that allows you to set up how you want to configure the box for each digital mode program you use. All you then have to do is select the software that you will be using, and the program will configure the control for that software. Very slick and very easy.

I hope to see you at the January Winter dinner as we kick off 2010 for the Albemarle Amateur Radio Club.

*73 de K4DND*

## Veep Peeps

*Jim, K4JEC*

I hope you all had a Merry Christmas and will enjoy a great New Year.

Speaking of great and glorious, we have some very special events planned for 2010 and I ask that you put them on your new calendar for maximum participation. There is only one thing that makes a glorious event for AARC and that is **Member Participation.** Without your personal and special participation, the club slips into a mundane existence that serves no one.

Let's kick-off 2010 with a night out with the club where we can all sit down together and enjoy some good food, fellowship and fun where participation during the previous

year will be recognized and acknowledged. **This special night will begin at 6 p.m. at the Elks Lodge on January 12.** This is our regular meeting night so it should already be marked on your calendar as the second Tuesday of the month. The reservation deadline is January 5 – just seven days before.

The second very special event is planned for **May 1 when we will stage the very first Virginia Ham Cruise-In. Hams all across the country will be watching this event to determine if it should be replicated across the country as a primetime way to promote Amateur Radio.** This is a pacesetter and an opportunity for our club to initiate the cadence. Member participation will be the key to the success or failure of this event to reach its full potential. Will you be there and counted among the willing and able?

The third big event will be our **Summer Picnic and Auction.** Measured by any fact, this was our biggest success of 2009 – more fun, fellowship and good food coupled with an activity that was both exciting and rewarding. **This year it will be staged at the large pavilion in the Darden Towe Park and begin at 6 p.m. The pavilion has already been reserved for August 10 (the second Tuesday of the month).** Save your hobby bucks to purchase that goody you have always wanted and set aside a box in which you can put all the items you want to pass on to the next lucky ham in the auction. **This year the auction will be limited to amateur radio gear** and directly related items only because it ran way too long last year allowing us to barely escape the deadline for clearing out of the pavilion.

This list does not include all of the club's normal annual activities that also require maximum member participation.

Let's all work to make the year 2010 a great one for our club and our hobby of Amateur Radio always keeping in mind that new members are welcome and encouraged.

*73 de K4JEC*

## Club Business

### AARC Board Minutes – December 8, 2009

No formal meeting --- Club Social meeting.

*Patsy Crosby – K4PMC, Secretary*

### Regular Meeting – December 8, 2009

No formal meeting --- Club Social meeting.

*Patsy Crosby – K4PMC, Secretary*

## DX and Contesting With a Modest Station

Bob, W4RQ

I probably touched on this subject several years ago in a similar column. The basic premise is you do not need to have tons of aluminum in the air, the best transceivers and amps, etc. to successfully work some DX and tinker around in those contests that might interest you. You can do it with just a modest station. That does not mean you will nag each station on the first call and get a 59 +60 dB report. But you can work some --- even at solar sunspot minimum! Granred, it seems like we have been at solar minimum for quite a while. Cycle 24 has been slow to "get going", but it is beginning to show some signs of coming to life.

For most of the last 15 years or so, my antennas consisted of a vertical and/or Carolina window. Only a year ago was I able to finally put up a 40 foot tubular tower with a Sommer yagi on top --- not full size, but on an 18 foot boom. I have always used a transceiver with no more than 100 watts. In my 50+ years of operating, I have worked over 50,000 QSO's and worked 350+ countries --- most all with the setup described above.

I always enjoy chasing DX when it is there to work and working the major and most popular DX contests. The last several years --- with poor conditions --- I have begun to work in the state QSO parties. This is a good way to start working US counties --- and there are more than 3,000 of them! I have worked about 51 percent of USA counties --- maybe in several years I'll be near working them all!

If you do have a super-station and have a loud signal everywhere, then things are easy. Just get on, call one CQ and voila --- the world is calling YOU in great numbers. You could spend hours trying to work every one who is calling you. This particular technique is known as **running a pileup**.

But most of us are not that lucky. In casual operating in relatively un-crowded band conditions, it may be possible to work the station you are calling on the first try and have a nice long uninterrupted QSO. But for more serious DX'ing and contesting, you generally will have some competition trying to work a particular station. You may tune up and down the band and call those stations you happen to year. Especially in contests, this is referred to as the **search and pounce** method (illustrated below) --- find him, then jump on him at the proper interval.



### Search and Pounce Method – go get 'em!!

Search and pounce is my usual method, as my signal is usually not a "tower of power". It has served me well. In most contests you generally will work the station on the same frequency he is transmitting on. For larger pileups --- and especially in DXpeditions, you have too many people calling the station of interest. The DX station will then **run split** – he transmits on one QRG and listens either up or down from his frequency.

With a modest station, it may take a little while to work the desired station. But not always... With just 100 watts and a vert or window, I have been known --- on many occasions -- - to crack a humongous pileup fairly easily and work the station of interest. I then scratch my head and say "... I should not have been able to do that...". But I am not about to argue with success... At that point, I can then let rip with a loud " ...**Yessssss !! Hooray !!! I got him!!!** ...".



### Hooray --- I got him !!!

I must admit that there is often no greater satisfaction in a contest or DX pileup than beating out the "big guns" with my little pipsqueak station and signal.

So my suggestion is don't be timid --- **just jump on in & have fun**. You'll be surprised what you can do!!



**Jump on in and have some fun on the air!!**

Admittedly, for serious DX'ing and contesting, technique is important. We'll discuss successful techniques in a future article.

*73 de W4RQ*

## For Sale and Wanted...

*Tnx Ron, K4RKA*

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

**WANTED:** Heath HP23A or HP23B power supply. Contact Ron, K4RKA@JUNO.COM or 434-973-3640

### **ESTATE OF CASIMIR (CASEY) NORRISEY, K4MTX**

Contact Mary Ellen Norrisey Hodges at ME.Hodges@cox.net. In addition to the items below, there are several lots of vintage capacitors, resistors, vacuum tubes, etc. available for

purchase.

I will try to answer any questions you might have about any of the items for sale, and I can forward photos of each item, including interior views of most. Additionally, I am in Charlottesville about every other weekend and can arrange for you to view any items you might be interested in. I am willing to entertain reasonable offers on the items below that are listed with a specific price.

Heathkit HW-101 SSB Transceiver with Shure Microphone (\$110) --- (I have the dial from the transceiver that is missing in this photo)

Heathkit Visual-Aural Signal Tracer (\$25)

Hallicrafters Sky Buddy Receiver Model S-19R (plus 6-page manual, "Operating Alignment & Servicing Instructions," manual in poor condition) (\$75)

Standard Electrical Product Co., Adjust-a-Volt (best offer)

RCA Senior VoltOhmyst (best offer)

VANCO CB SWR (SWR-6) Watt Meter (best offer)

Homemade antenna tuner

### **FOR SALE: Hygain TH6-DX TriBand 10-15-20 meter**

**Beam:** Good Condition, but needs clean-up, new trap end caps (new kit included), new SS element clamps, and new bolts for element to boom mounts. Will need to purchase new boom to mast clamp for about \$40.00 from Hygain. \$155.00. Call Jim K4CGY at 434-296-3044.

### **FOR SALE: Rohn 45G 60 foot Tower:**

Two sections never used, four sections will need painting or hot dip galvanized (about \$250.00). One section has slight bent at one mounting sleeve, can be straightened or used as the concrete base section. Includes flat top plate with thrust bearing, two thrust brackets, rotor plate, 600 feet of 1/4" EHS guy wire (new), mounting bolts, three concrete anchors with three hole equalizer plates (new), sixteen 1/4" thimbles, six 1/2"x12" turnbuckles, 1/4" cable clamps and serving tool, six 1/4" big grips (used in place of the cable clamps). All new. \$1400.00. Call Jim K4CGY at 434-206-3044.

### **Scanners for Sale** -- 2 Uniden 760 \$50.00 Each. 1 Radio

Shack 95 Portable \$100.00. 1 Bearcat 240Xlt 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 100Xlt 100 channel 50.00. 1 Pro 2051 Radio Shack Desktop 1000 channel \$150.00. Thanks, Jerome, KI4DLA

### **Old tube radios and other goodies.**

Philco 620F (1937) - \$ 50. NC-300 - \$200, Scott RCH - \$250, Midwest 18 console - \$100, KLH 27 stereo receiver - \$60, HP-302A wave analyzer - \$100, HP- 606A signal gen - \$100, Feiler signal tracers - \$20 each, AK-20 - \$100, RCA WR-99a marker generator - \$40, RCA sig gen - \$15, small antique Weston ohmmeter - \$30, Airline 62-256 - \$10, BF Goodrich Mantola R661 - \$ 25, Philco- 40-140 - \$15, Philco-37-620 Console.

Call Carter Elliott, WD4AYS at 434 566 8767 or via email at celliott14@aol.com

**Items for Sale.** Listing for a friend. **Drake MN-2000** matching network. **Swan 1200-X** tube linear amplifier. **Heathkit SB-634** Station Console. **Ham-Key** straight key with black base. Call Bob W4RQ at (434) 990-2659 (home) or via email at [w4rq@yahoo.com](mailto: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

**ITEMS FOR SALE:** Please follow the below link for the sale page on QRZ:

<http://forums.qrz.com/showthread.php?p=1716639> .

No worries, I still have the handheld unit for local communications. Jeffrey, N4LFJ, 76 Holly Ridge Court #3 Evington, VA 24550, (434) 382-9527 or n4lfj@yahoo.com.

## ARRL Propagation de K7RA

*ARRL Propagation Bulletin ARLP054*

Here we are on the last day of the year, with finally some very positive indicators for Cycle 24. Except for Christmas day, since December 9 sunspots have been visible every day. Average daily sunspot numbers for the week December 24-30 were 12.9, an 18.5 point drop from the previous week, which was a 10.3 point rise from the previous week, December 10-16.

Average daily solar flux dropped from 82.8 to 76.2 from the December 17-23 reporting week, but the December 30 forecast from the U.S. Air Force predicts a solar flux value of 79 from December 31 to January 3, 80 for January 4-9, and 85 for January 10-18. They also predict a steady and stable planetary A index of five through February 13. Geophysical Institute Prague predicts quiet for the first week of January. You can get an update on the Air Force/NOAA prediction after 2100 UTC at, <http://www.swpc.noaa.gov/ftpmenu/forecasts/45DF.html>.

Since December 26 we've been blessed with new sunspot group 1039, which is now just past the zero degree meridian, referenced to Earth. This is the spot in the center of the solar image. This is the sixth new sunspot group to emerge in December.

After today we will know the three-month moving daily sunspot average centered on November, and it looks close to the average centered on August, 2007, which was 10.17. The moving average has not been above ten since then. The daily average for the month of December should be

close to 15.7, the highest monthly average since March, 2008.

A number of sharp-eyed readers caught the major gaffe in the last bulletin, when I dozed off and with my fingers on autopilot I typed Spring Equinox when I should have said Summer Solstice. Needless to say, Spring is not six months off. The Vernal (Spring) Equinox is only 79 days from today. Thanks to (in order of notification) N5UWY, WE5I, KW6G, KF7FIU, W3DM, N0LNO, and WA3VKG for noticing and not having too much fun at my expense.

Joe Reiser, W1JR, an exceptional low band DXer sent some comments about the solar minimum. I commented that the exceptionally quiet conditions are remarkable, and may partially make up for a lack of solar activity. At least we aren't bothered by large flares. Joe responded, "I really don't think the low bands are that improved over times when the sunspots were there. Yes, it was nice to work TX3A and K4M on 160 meters for new ones but I still can't get JT1CO to hear me! Sometimes JAs spot me on 160 meters but no JAs call me! Except for early last February when one morning I worked 7 JAs (!) in a row starting at my sunrise (!), I haven't seen any really great Asian openings. I guess I just have to hang in there. I did land VK9XX on 80 near our sunset for number 341 about a month ago. That was a real thrill as he was only working Europeans and somehow I broke the pile up."

Rod Vorndam, K9ROD of Rye, Colorado wrote last week: "The past couple of weeks have seen openings to Europe at sunrise on 20 meters. This Gray Line Effect has made for several strong contacts. I worked I2OHO (Italy), ON5CD (Belgium), HB9RDE (Switzerland), and received several others including OZ11KY (Denmark) and S51ZZZ (Slovenia). These are my first European contacts into the Western part of the US."

Mark Lunday, WD4ELG of Greensboro, North Carolina has a nice blog with observations on DX from his new QTH. Read it at <http://wd4elg.blogspot.com/>.

Mark wrote, on Christmas Day: "One thing I have noticed recently with the slight up tick in solar activity, is that 40 meters now reminds me of 20 meters during the solar peak. Even during daylight, there is DX open to somewhere on 40 in winter months. The exception is high noon. But mornings and late afternoons have LOTS of activity on 40."

"This afternoon, I copied HS0CZY/4 on 40 meters about an hour before my sunset. The last time I remember something like this was 1 January 2005 when I worked YB1A on 40 CW late in the afternoon."

"On Monday at 0100 local, I heard a fluttery signal RST 529, I copy JA7DLE, call him twice, he gets my call, BAM he is in the log. I have ONE JA QSO ALL-TIME on 80, and this is my SECOND EVER on 40. This is with a single vertical and 100 watts. What is neat about this is that it happens at 0100 local while I can hear EU stations 599 AND South Cook Islands DXpedition 559. So I am copying Pacific, JA, AND

Europe at the same time. When the Sun throws lemons, make your own DX/lemonade."

"I heard 4S7NE on 40 CW at 2030 local, just after his sunrise. I have tried to hear Nelson since I worked him on 17 meters back in 2005, but I have never heard him since. Amazing!" Thanks Mark.

Bob Doherty, K1VV of Lakeville, Massachusetts reminds us that tonight is Straight Key Night! Take a look at, <http://www.qrz.com/db/K1VV/1262178636> and scroll down.

Jose Nunes, CT1BOH of Lisbon, Portugal (see <http://www.qsl.net/ct1boh/index.htm>) sent some fascinating material that he posted to the cq-contest email list at [contesting.com](http://contesting.com), titled "Listen to what happens when a X4.0 Solar Flare hits your contest operation." He referred to K9LA's article, "Solar Flares at ZF2RR," which you can read at [http://mysite.verizon.net/k9la/Solar\\_Flares\\_at\\_ZF2RR.pdf](http://mysite.verizon.net/k9la/Solar_Flares_at_ZF2RR.pdf). Jose writes, "It just happens that while operating P40E during the 2000 CQWW CW Contest, I was recording the event. And I still remember the black-out that followed the big X4.0 Solar Flare. I thought it would be interesting to share the story and the audio clip of the impact of the solar flare."

"First take a look at the Goes X-ray Flux (5 minute data) on the 25 and 26 November 2002: [http://qsl.net/ct1boh/audio/20001127\\_xray.PNG](http://qsl.net/ct1boh/audio/20001127_xray.PNG). I marked with an arrow the big solar X4.0 flare that occurred at 16:38 on 26 November, Sunday of the contest. P40E was QRV on 21 MHz (21050 kHz). In the 40 minutes before the Solar Flare impacted P40E operation, 16:00 - 16:39, I had worked 107 QSOs at a rate of 160.5 QSOs per hour. In the 20 minutes after the Solar Flare impacted P40E operation 16:40 - 16:59 first there was a 7 minute black-out and then I managed to work 10 QSOs at a rate of 30 QSOs per hour."

"Very interesting is the surge of noise right after the Solar Flare until almost total black-out of the bands and during the 7 minute black-out. You will listen to a vanishing pile-up, to a dead band, and then the recovery of activity."

"You can check P40E log at <http://www.qsl.net/ct1boh/audio/flare.txt> to follow audio clip from 16:36z until 17:02z."

"Listen to the 26 minute audio clip at <http://www.qsl.net/ct1boh/audio/flare.wav> and note this was an SO2R operation so you should use headphones. You will listen on the left ear to radio 1 (RUN radio) on 21 MHz and right ear to radio 2 (S&P radio) on 28 MHz before the QSY to 10." Fascinating! Thanks so much, Jose.

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

For more information concerning radio propagation, see the ARRL Technical Information Service web page 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/>.

Instructions for starting or ending email distribution of this bulletin are at <http://www.arrl.org/w1aw.html#email>.

Sunspot numbers for December 24 through 30 were 11, 0, 13, 17, 17, 17, and 15 with a mean of 12.9. 10.7 cm flux was 77.1, 76, 75.9, 76.8, 75.8, 75.1, and 76.9 with a mean of 76.2. Estimated planetary A indices were 2, 2, 3, 2, 1, 0 and 0 with a mean of 1.4. Estimated mid-latitude A indices were 1, 3, 2, 1, 1, 0 and 0 with a mean of 1.1.

## Contest Highlights - Upcoming

Bob, W4RQ

### ARRL-Sponsored Contests

Jan 23-25	<b>ARRL January VHF Sweepstakes</b>
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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 9-10	<b>Hunting Lions on the Air</b>
Jan 29-31	<b>CQ WW 160 Meter Contest</b>
Jan 29-31	<b>REF French Contest</b>

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

73, Bob W4RQ



**Happy New Year 2010 !!**

## AARC Public Service Schedule

End of September	Great Eastern Endurance Run
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## Area Hamfests

Date	
Location	

## FCC Database Updates

### New Calls

AG4J	Chris Bortz – New vanity call
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### Upgrades

None Reported	
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### Vanity Calls

None Reported	
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## VE Session Schedule - 2009

<b>January 9</b> Charlottesville VA	<b>Sponsor:</b> Albemarle ARC <b>Time:</b> 9:00 AM (Walk-ins allowed) <b>Contact:</b> Dave Damon K4DND 434-973-5866 (H), 434-760-1932 (C) <b>Email:</b> k4dnd@arrl.net <b>VEC:</b> <a href="#">ARRL/VEC</a> <b>Location:</b> National Radio Astronomy Observatory, 520 Edgemont Road, Charlottesville, VA 22903
<b>Date</b> <b>Location</b> (ARRL VEC)	For exam sessions in Virginia outside the AARC area, check the <a href="#">ARRL Exam                  Session Search</a> web page.

## For Sale Items

For Sale	
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## AARC Club Officers

President	Dave Damon	K4DND	<a href="mailto:k4dnd@arrl.net">k4dnd@arrl.net</a> (434) 973-5866
Vice President	Jim Crosby	K4JEC	<a href="mailto:jecrosby@comcast.net">jecrosby@comcast.net</a> (434) 987-2006
Secretary	Patsy Crosby	K4PMC	<a href="mailto:patsycrosby@comcast.net">patsycrosby@comcast.net</a> † (434) 989-2362
Treasurer	Don Eason Jr.	N4UVA	<a href="mailto:deason@comcast.net">deason@comcast.net</a> (434) 973-9119
Director	Jim Wilson	K4BAV	<a href="mailto:jwilsonphoto@earthlink.net">jwilsonphoto@earthlink.net</a> (434) 245-7041
Director	Linda Beard	K15LLB	<a href="mailto:lindaskyone@embarqmail.com">lindaskyone@embarqmail.com</a> (434) 823-2107
Director	Greg Faust	N4PGS	<a href="mailto:n4pgs@arrl.net">n4pgs@arrl.net</a> (434) 978-1962
Director	Bill Phillips	AD6JV	<a href="mailto:billp1048@earthlink.net">billp1048@earthlink.net</a> (434) 872-0686
Director	Bob Pattison	K4DU	<a href="mailto:k4du@arrl.net">k4du@arrl.net</a> (434) 985-4828
Director	Jim Owen	K4CGY	<a href="mailto:k4cgy@yahoo.com">k4cgy@yahoo.com</a> 434-296-3044

## Contest Calendars

<a href="#">ARRL Contest Calendar 2009</a>	ARRL sponsored contests
<a href="#">SM3CER Contest Service - Calendar 2009</a>	Contests all over the world! Also has links to online rules for most contests
<a href="#">Contesting Online</a>	Just about everything contests!

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



**THE AARC BEACON**  
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ISSUE DEADLINE - 25th of each month

Contact Information  
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PO Box 530  
Ruckersville, VA 22968-0530  
(434) 990-2659  
[W4RQ@yahoo.com](mailto:W4RQ@yahoo.com)

**Next Club Meeting :** January 12 - 6:00 PM Elks Lodge - Pantops

**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**  
146.895 (-) 151.4 Hz Tone **WA4TFZ**  
224.760 (-) No Tone **WA4TFZ**  
444.000(+) 151.4 Hz 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 10	Annual Winter Dinner and Awards Ceremony
February 9	Regular Club Meeting
March 9	Regular Club Meeting

**AARC - PUBLIC SERVICE SCHEDULE**

DATE	EVENT
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