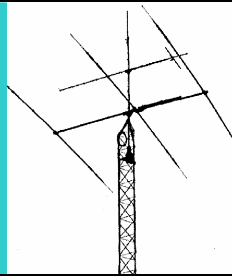


The AARC Beacon



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

Volume 2010, No. 3



March 2010

Inside this Issue

- 1 Meeting Notice
- 1 The President's Letter
- 2 Veep Peeps
- 2 Club Business
- 3 AARC Club Committees
- 4 Newly Licensed CERT Members
- 5 For Sale and Wanted...
- 6 ARRL Propagation de K7RA
- 6 Contest Highlights - Upcoming
- 6 ARRL VA Section Manager Election Results
- 7 AARC Public Service Schedule
- 7 Area Hamfests
- 7 FCC Database Updates
- 7 VE Session Schedule - 2009
- 7 AARC Club Officers
- 7 Contest Calendars
-
-
-

The President's Letter

Dave, K4DND

Greetings everyone, I trust that by the time you read this issue of the Beacon most of the snow will be gone. Ah well, one can always live in hope. Speaking of the Beacon, this will be the first issue in over 10 years that Bob W4RQ has not put together for us. So any errors, omissions and other flubs are my responsibility alone. I think I have everything correct but it could all go to pot at the 11th hour. Bob spent a great deal of time and effort coming up with a Word document template and so for the most part, it is merely a case of copy and paste. If anyone is interested in taking over this important AARC function, please let me know. I will be available to work with you in making the transition, and I am sure that we can get consults from Bob. The only requirements are high speed internet access and some familiarity with Microsoft Word.

It is such a pleasure to report to you, that as of the time I am writing this, the AARC membership stands at 109. I don't believe that the AARC has ever had a comparable membership number so early in the year. Thanks to everyone for getting your renewal in so promptly. The push has been to get everyone renewed so that Jim K4JEC could go ahead with printing the next directory. The 2010 AARC Membership Directory will be available for pickup at the March meeting, just another reason to attend. The program should be a lot of fun, having a chance to get your hands on a wide variety of handheld radios will be interesting to say the least. Thanks to Dennis K4THE for putting this program together.

The March meeting will not be held in the NRAO Auditorium, rather in the smaller conference room next door. The auditorium will be set up for an NRAO meeting and is therefore off limits to us that evening. So please don't go into the auditorium when you get there.

I was very disappointed to say the least, that the weather was so difficult at the time of FrostFest. I am now storing a large pile of boxes in my living room. These are full of treasures that I intended to get sell in Richmond. Oh well, maybe next year. The two downsides to not having FrostFest go as planned were 1.) the AARC lost the table reservation money we had paid, but which I consider as a donation to RATS, and 2.) what was potentially more

Meeting Notice

The next AARC meeting will be held on **March 9 at 7:30 PM at the NRAO Building on the UVA Grounds. The program will be a "Hands-on with Handhelds"!**

Be sure to attend and bring an HT!

catastrophic, we risked losing the potential free advertising for the Cruise-In. Fortunately for the AARC, Chris KG4AZN was able to get there and delivered the flyer copies for us. I am planning on stopping by the Vienna Winterfest, as is Skip WD4LT, and we both have copies of the flyer to distribute there.

Jim K4JEC and his committee are progressing well with Cruise-In planning, having just had the second well-attended meeting. Tasks have been discussed, responsibilities assigned and because of the extent and diversity of participation, many excellent ideas are being incorporated.

As many of you may know already, the election results for Section Manger of the Virginia Section have been tallied, and Carl Clements W4CAC was decisively reelected for another 2 year term. I just received an email from Carl, and he is planning on both attending the Cruise-In, as well as acting as one of our judges, so it will be a great opportunity for those of you who haven't, to meet him, and a good opportunity to discuss any concerns you have regarding the Virginia Section. Joe K4JJS the current Section Emergency Coordinator, has agreed to stay on for the next term and so I don't expect to see many changes on the ARES side of the Section.

Everyone mark your calendars, March 27 is the first Public Service event of 2010, the Bel Monte Endurance Run, followed on March 28 by the second Public Service Event of 2010. This is the 20th year of the Jefferson Cup Bike Races, each of which has been supported by the AARC. This event requires the participation of many amateurs and if you are not available for the entire day, you can help out in either the morning or the afternoon races. The course will be the same as last year, the "Kluge Loop" just east of Carter's Bridge. So check you calendars and see if you are available on either the 27th or 29th or perhaps both.

A final reminder, don't forget that the AARC Board of Directors meetings now start at 7PM with the general meeting following at 7:30PM. I hope to see many of you there.

Veep Peeps

Jim, K4JEC

I missed seeing everyone in February due to our meeting being cancelled because of the weather. I am looking forward to the first business meeting of the year on March 9. I am looking forward to the Handheld Radio workshop/roundtable. It will be fun and informative. I want to thank Dennis – K4THE for the work he has put into this program. You can thank him by showing up with your handheld in hand.

Plans for the Cruise-In are developing nicely and the word is getting out to the ham community in Virginia. We had flyers distributed at the Richmond Frost Fest

delivered by Chris – KG4AZN who went to take the Extra Exam. He passed and congratulations are in order. The Cruise-In has been featured on the home page of the Virginia ARES/RACES website for several weeks now and we have it featured on our website with an online registration form thanks to Kenneth – KJ4KIH. Flyers were emailed to all the clubs in Virginia that have email addresses and snail mailed to those that don't. I have announced it twice during the Virginia Fone Nets. If you have an opportunity to do so on any nets in which you participate, it would be appreciated. Every little bit helps.

If you plan to be at the Cruise-In in any capacity – worker or just as a participant – please go to the club website and register so we will have a head count for planning purposes. You don't need a mobile radio station in your vehicle to register. We just need a body count.

If you check the Awards List in the minutes, you will find how much club members participated in club activities last year. The success of a club can be predicted and measured by the level of participation from its members. We have a fantastic club when measured against other clubs in Virginia and it is a real honor to serve as your vice president because of the level of participation of this club. I am so proud of our club it is all I can talk about when visiting other clubs around the state.

Speaking of visiting and talking; I just discovered Skype – the international communications system featuring audio and video. I have had it on my computer for some time but never opened or tried it. I opened it and set it up to run on my computer in the office/ham shack. Harry – W2HD had mentioned it a number of times in his 2-mtr discussions so I looked him up and called. He helped me get it up and running. Pat and I had a very meaningful visit with Harry and it was just like sitting in his office face-to-face. My interest in particular is to communicate with my children around the country but I am happy to hear from any of my ham friends as well. My Skype name is jamesecrosby. If you catch me online, give me a call.

One last thought: I really need your help in scheduling programs to keep our meetings exciting, interesting and enlightening. Please help me out by suggesting program ideas with these guidelines in mind. Our programs must be non-political, non-controversial and directly related to ham radio activities. Of particular interest are new ham software/programs, new equipment, how to do it programs and training programs. With this in mind, please help me out and let me hear from you

Grab a friend, associate or spouse and bring them along – visitors and guests are always welcome and encouraged.

Club Business

Minutes of February 9, 2010

Submitted by Patsy – K4PMC – Secretary

March 2010

President Dave canceled the Board and Membership Meetings due to hazardous weather conditions and therefore no business was conducted.

The Awards presented during the January Awards Dinner are submitted as a report and attachment to the February minutes to commit them to record.

Here is the list of certificates presented to those present at the January Annual Awards Dinner. Recipients not present received their certificates by mail.

Board and Club Certificates of Appreciation

1. Harry W2HD Monday Night Info Net
2. Joe W2PVY Monday Night Info Net
3. Bob K4DU Trustee
4. Greg N4PGS Board Service
5. Dennis K4THE Board Service
6. Linda KI5LLB Board Service
7. Patsy K4PMC Board Service
8. Don N4UVA Board Service
9. Alan K9MBQ Secretary Service
10. Jim K4JEC VP
11. Ron K4RKA SERA Rep
12. Marge Thomas Local EM
13. Bob K4AQD Asst EM
14. Tom Hanson Exec Dir 911

NPEN Participation Certificates showing percentage of check-ins.

1. Joe W2PVY 95.8%
2. Jerome KI4DLA 91.7%
3. Harry W2HD 91.7%
4. Jim K4JEC 89.6%
5. Patsy K4PMC 87.5%
6. Vic N3DFS 83.3%
7. Stan K2SSB 70.8%
8. Kenneth KJ4KIH 50.0%
9. Jim K4BAV 45.8%
10. Bob AA3BM 43.8%
11. Don KE4DDR 43.8%
12. Ron K4RKA 43.8%

Other Certificates of Recognition

1. Jim K4CGY Skywarn
2. Jim K4CGY Field Day
3. Bill NOWP Field Day
4. Jim K4JEC Skywarn
5. Kenneth KJ4KIH Web
6. Bob W4RQ Beacon
7. Jim K4JEC HOTY

Public Service Certificates acknowledging total points earned

1. Jim K4BAV 10
2. Bruce AB3BB 10
3. Jim K4CGY 10
4. Don KE4DDR20

5. John KI4DJT 25
6. Dale KD4EAP 30
7. Gordon WW4GW 10
8. Lee K4ISW 10
9. Jim K4JEC 70
10. Bill AD6JV 5
11. Linda LI5LLB 70
12. Kenneth KJ4KIH 70
13. Alan K9MBQ 10
14. Manny K4MSR 20
15. Greg N4PGS 50
16. Patsy K4PMC 60
17. Joe W2PVY 10
18. Mike KI4RIX 20
19. Claude N3RXO 20
20. Stan K2SSB 25
21. Elmer KF4UCI 50
22. Jon KJ4RPW 40
23. Don N4UVA 5
24. Wes K4WLE 40
25. Bill NOWP 10
26. Ken KJ4HOE 5

Patsy Crosby – K4PMC, Secretary

AARC Club Committees

If you are not yet affiliated with one of the six standing committees of the AARC, take a look at the following and see which one best matches your personal interests.

Section 1: Technical Committee

A Technical Committee composed of a Chairperson, a Director, the Trustee and at least two other members shall be appointed by the Board at the January Board meeting. It shall be the duty of this committee to oversee and maintain all Club equipment, including any radio stations licensed in the Club's name. This committee will maintain an up-to-date inventory of all club radios, repeaters, antennas, test equipment and other electronic devices and related items (except Field Day equipment). A copy of this inventory will be provided to the Secretary at the October Annual Meeting each year. The committee's written report shall be submitted to the Club for its approval at the Annual Meeting in October.

Section 2: Fund Raising Committee

A Fund Raising Committee composed of a Chairperson, the Treasurer, and at least two other members shall be appointed by the Board at the January Board meeting. It shall be the duty of this committee to organize fund-raising events and perform any other fund-raising activities as directed by the Club. This committee will maintain an up-to-date inventory of all items held for fund raising. A copy of this inventory will be provided to the Secretary at the October Annual Meeting each year. The committee's written report shall be submitted to the Club for its approval at its Annual Meeting in October.

Section 3: Education Committee

An Education Committee composed of a Chairperson, a Director, and at least two other members shall be appointed by the Board at the January Board meeting. This committee shall be responsible for organizing Amateur Radio classes, fostering the further education of Club members and performing any other educational duties as directed by the Club. This committee will maintain an up-to-date inventory of all items held for education and training. A copy of this inventory will be provided to the Secretary at the October Annual Meeting each year. The committee's written report shall be submitted to the Club for its approval at its regular meeting in October.

Section 4: Public Relations Committee

A Public Relations Committee composed of a Chairperson, a Director, and at least two other members shall be appointed by the Board at the January Board meeting. This committee is responsible for Public Relations and releases pertaining hereto. It shall be the duty of this committee to publish a Club newsletter, a Club directory and assist any other Club officer or committee in the preparation and publishing of Club publications. This committee will maintain an up-to-date inventory of all items held for public relations. A copy of this inventory will be provided to the Secretary at the October Annual Meeting each year. The committee's written report shall be submitted to the Club for its approval at its Annual Meeting in October.

Section 5: Public Service Committee

A Public Service Committee composed of a Chairperson, a Director, and at least two other members shall be appointed by the Board at the January Board meeting. This committee shall be responsible for organizing volunteers for Public Service events, acting as a liaison with ARES and RACES organizations and performing any other duties as directed by the Club. This committee will maintain an up-to-date inventory of all items held for activities, including such things as Field Day antennas and supplies, banners, tents, shelters, etc. A copy of this inventory will be provided to the Secretary at the October Annual Meeting each year. The committee's written report shall be submitted to the Club for its approval at its Annual Meeting in October.

Section 6: Estate Committee

An Estate Committee composed of a Chairperson, a Director, the AARC Treasurer and at least two other members shall be appointed by the Board at the January meeting. This Committee shall act upon notification that an AARC member or local area non-member amateur becomes deceased (Silent Key). The charge to the committee is to assist the family of the Silent Key (with permission of the family or estate executor) in disposing of any amateur radio or related equipment to the best benefit of the family of the Silent Key. If the activity is undertaken by the Estate Committee, a complete inventory of such equipment should be made, with fair current market values assigned, and a subsequent full accounting made to the family or estate, following any action

taken with respect to disposal of the inventory. This committee will maintain an up-to-date inventory of all items received and being held for later transfer to the Fund Raising Committee. A copy of this inventory will be provided to the Secretary at the October Annual Meeting each year. The Committee's written report of yearly activity shall be submitted to the Club for its approval at the Annual Meeting in October of each year.

Newly Licensed CERT Members

From Dave K4DND

Saturday, February 13, Bill Phillips AD6JV, assisted by Jim Wilson K4BAV, met in a second session with newly licensed CERT members for a little more theory and a lot of practical hands on time. That meant getting each CERT member on the air to make a contact with Harry W2HD, who had a number of new callsigns to put in his log.



1 Bill AD6JV demos for John KJ4RPP



2 Dave Booth KJ4RPV talks to W2HD



3 Dawn KJ4RPT gets a QSO with W2HD



4 Now Gene KJ4RPR gets a turn

Bill, we appreciate the time and effort you put into this continuing education event for recent licensees. I am sure that they got a lot out of the two sessions by getting this "leg-up". Thanks also to Marge Thomas, Emergency Management Coordinator at the local 911 Center for making the facility available, and thanks to Jim K4BAV for providing the pictures.

Philco-37-620 console. Carter, WD4AYS, 434-566-8767, celllott14@aol.com

FOR SALE: ESTATE OF CASIMIR (CASEY) NORRISEY, K4MTX - - - updated 9/14/09
Contact Mary Ellen Norrisey Hodges at ME.Hodges@cox.net.

1. Heathkit HW-101 SSB Transceiver with Shure Microphone (\$110)
2. Heathkit Visual-Aural Signal Tracer (\$25)
3. Hallicrafters Sky Buddy Receiver Model S-19R (\$75)
4. Standard Electrical Product Co., Adjust-a-Volt (best offer)
5. RCA Senior VoltOhmyst (parts only, meter still good, can't calib. best offer)
6. VANCO CB SWR (SWR-6) Watt Meter (best offer)
7. 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 Jim K4CGY 434-296-3044. 8/28/09

For Sale and Wanted...

Tnx Ron, K4RKA

FOR SALE: Linear Amp: Ameritron AL-1500 - 1500W SSB and CW w/ a max of 65W drive. Has US Eimac 8877 (vs Russian) tube, QSK Board for full break-in CW, and recently factory upgraded power supply. Have all docs and original packing. Price: \$2050 Alan Swinger - K9MBQ; awswinger@earthlink.net; (434) 975-6237. posted 2/17/10

FOR SALE: Yaesu FRG-7 general coverage receiver. Clean with no damage. Works well on all bands. All lights, switches and controls function as they should. It has the fine tuning control (not an early model) but is missing the interior battery tray. Located in the Charlottesville area. Will make available for local inspection. \$300.00 Contact Jon jm604@hughes.net

WANTED: 2m beam. KB4JNK, ron at ron@ronmauer.net

FOR SALE: Heathkit model IP-27 TV post- marker/sweep generator with manual, \$25 Heathkit model IP-27 regulated LV power supply .5V to 50V @ 1.5A max. \$35 Contact Tom Rae, W4RAE at 434-978-2003 or ctrae38@embarqmail.com

WANTED: 11/25/09 Heath HP23A or HP23B power supply. Contact Ron, K4RKA@JUNO.COM or 434-973-3640

FOR SALE: 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,

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 Jim K4CGY 434-206-3044 8/28/09

FOR SALE: 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. \$199.00 Jim K4CGY 434-296-3044

FOR SALE: 4/30/09 Old tube console radios. Philco 620F (1937)- \$ 50. Zenith 7S682 (1940's)-\$100, Carter Elliott, WD4AYS, 434 566 8767 celllott14@aol.com

FOR SALE: Yaesu FT-950 w/ voice contest chip, stock mike and matching desk mike, Astron 35 Amp power supply, MFJ keyboard keyer, and MFJ 949C manual tuner, manual and box it was shipped in. I'm the original owner. Make an offer. Icom 751-A with CW narrow filter, external frequency entry keypad, matching Icom auto-tuner. Manuals included. I'm the original owner. Make an offer. Matthew Brill/KR4BG ex: KA4ONH, WD4JCC, WB2LAR matthew.brill@psysolutions.com 540-471-9789 (cell phone – leave a message). 5/1/09

ARRL Propagation de K7RA

ARRL Propagation Bulletin ARLP007

We've now observed sunspots continuously for the past 30 days, certainly a turnaround from the quiet conditions of the past few years. In fact, in ten weeks we have seen only three days with no sunspots, on December 25, January 6 and January 19. This is a little over 4% no-sunspot days, a nice contrast with all of 2009, with over 71% days with no sunspots.

Sunspot group 1049 emerged on Wednesday, and it is growing.

The minimum non-zero sunspot number is 11. This is because the numbers are derived from the number of sunspot groups, plus areas inside the groups. Each group counts for 10, so the minimum sunspot number is 11, and the minimum sunspot number for at least two sunspot groups is 22.

In 2009 only 87 days (23.8%) had sunspot numbers greater than 11, and 21 of those days were in December. Only 43 days (11.8%) had a sunspot number greater than 15 (14 of those in December), and only 26 days in 2009 had a sunspot number of 23 or more (none had 22).

Since the first of the year, average weekly sunspot numbers were 14.6, 26.4, 18.6, 28, 14.6, 43.3, and 38.7.

Contest Highlights - Upcoming

ARRL-Sponsored Contests

March 7-8	ARRL DX Phone Contest
-----------	------------------------------

Complete info, rules and log forms for these events can be found online at the ARRL Contest Calendar webpage.

Other Contests of Interest

Mar 13-14	Idaho QSO Party
Mar 14-15	Wisconsin QSO Party
March 14	NA RTTY Sprint
March 20	10-10 Mobile QSO Party
March 20	VA QSO Party
March 20	Oklahoma QSO Party
March 20	North Dakota QSO Party

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

ARRL VA Section Manager Election Results

In the only Section Manager race this winter, Carl Clements, W4CAC, was re-elected as the ARRL Virginia Section Manager. He received 855 votes; his opponent, Glen Sage, W4GHS, received 511 votes. Election ballots were counted at ARRL Headquarters. Clements, of Portsmouth, starts his new two year term of office on April 1, 2010.

AARC Public Service Schedule

March 27	Bel Monte Endurance Run
March 28	Jefferson Cup Bike Races

Area Hamfests

Date Feb 28, 2010	Vienna Wireless Hamfest
Location Annandale	viennawireless.org/winterfest.php

FCC Database Updates

New Calls

KJ4RPP	John Ball Jr
KJ4RPQ	Bob Templeman, Jr
KJ4RPR	Gene McClurken Jr
KJ4RPS	Carol Hunt
KJ4RPT	Dawn Sprouse
KJ4RPU	Mike Maldony
KJ4RPV	Dave Booth
KJ4RPW	Jon Scott

Upgrades

KG4AZN	Amateur Extra
--------	---------------

Vanity Calls

W4VK	Chris Bortz ex AG4J, ex N4CAB ex ??
AJ4UN	John Gallant

VE Session Schedule - 2009

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

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	Patsy Crosby	K4PMC	patsycrosby@comcast.net † (434) 989-2362
Treasurer	Don Eason Jr.	N4UVA	deason@comcast.net (434) 973-9119
Director	Jim Wilson	K4BAV	jwilsonphoto@earthlink.net (434) 245-7041
Director	Linda Beard	K15LLB	lindaskyone@embarqmail.com (434) 823-2107
Director	Greg Faust	N4PGS	n4pgs@arrl.net (434) 978-1962
Director	Bill Phillips	AD6JV	billp1048@earthlink.net (434) 872-0686
Director	Bob Pattison	K4DU	k4du@arrl.net (434) 985-4828
Director	Jim Owen	K4CGY	k4cgy@yahoo.com 434-296-3044

Contest Calendars

ARRL Contest Calendar 2009	ARRL sponsored contests
SM3CER Contest Service - Calendar 2009	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/>



THE AARC BEACON
Vol 2010 No. 3
March, 2010



© Copyright Albemarle Amateur Radio Club 2000-2009. Content in this newsletter may be used if proper credit is given to the AARC Beacon.

ISSUE DEADLINE - 25th of each month

Contact Information
Dave Damon K4DND
4521 Burnley Station Rd
Barboursville, VA 22923
434-973-5866
k4dnd@arri.net

Next Club Meeting : March 9 - 7:30 PM NRAO Bldg - UVA Grounds

CLUB MEETINGS and NETS

REGULAR Meeting: Second Tuesday of each month at 7:30 PM
BOD Meetings: Prior to regular meeting at 7:00 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** (MJ Hospital)
224.600 (-) 151.4 Hz Tone **KG4HOT**

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