Amateur Radio News For Charlottesville and Albemarle County, Virginia

October 2000

Inside this Issue

Volume 2000, No. 10

The AARC

Beacon

Meeting Notice The President Speaks Peep From The Veep 2 It's Only A Repeater, Right? Proposed Slate of Officers for October Elections CO Veterans Mea Culpa... 3 Club Business 4 Frostfest 2001 Contest 5 **Email Address Change for Beacon Editor** 5 **AARC Classified Ads** Area Hamfests FCC Database Updates VE Session Schedule - 2000 **Birthdays This Month**

Meeting Notice

The next regular AARC meeting will be held on October 10 at the NRAO Building at UVA at 7:30 PM. Our guest speaker will be Jon Siverling from the ARRL Technical Relations Office in Washington, D.C. He will give us a presentation titled "Realignment of the 40-meter Band at the WRC-2003". . See you there!!

The President Speaks

Bob, K4DU

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In the course of life we are often faced with choices. When I was 12 years old my father told me to choose between having an English racing bicycle or a Lafayette Explore-Air receiver. I chose the receiver. It wasn't much of a receiver but it was the start of an adventure that continues to this day. I remember rushing through my homework so I could turn on that radio and spend the rest of the evening listening to signals from far away places. The sad fact is there probably aren't very many young people short wave listening these days.

Recently, I have made some career choices that in the short term will impact the amount of time I have to spend with this hobby that I love. For that reason I have decided that I cannot seek another term as your president. Life must have balance, but it must also have passion. We need more passion in our midst. The hobby needs people who will seek others to join and help them along the way.

I have enjoyed serving as your president. The club has come a long way since we met in the basement of the Charlottesville Court House. There is much work still to do. Let us carry forth with commitment, honor and good cheer!

Best regards & 73, Bob, K4DU

## Peep From The Veep

#### Dick, W4BZW

Fall is upon us and the HF bands are improving each day in spite of periods of unusually low solar activity for the peak of cycle 23. Now is a good time to do that antenna work to get ready for indoor operation during the winter months but if past performance is any indicator, many of us will wait for one of those cold and wet days, preferably with a little snow.

We are fortunate to have a quest speaker from the ARRL staff for the October meeting of the AARC. Jon Siverling from the League's Technical Relations Office in Washington, D.C. will give a presentation titled "Realignment of the 40-meter Band at the WRC-2003". Jon is primarily responsible for liaison with the Inter-American Telecommunications Commission (CITEL) and regularly attends their meetings in the Americas as a US delegate. His work covers both international and domestic spectrum matters. He is a subgroup coordinator for CITEL's Working Group to prepare for the next World Radio Communication Conference in 2003 (WRC-2003). This subgroup covers maritime mobile, amateur and amateur-satellite, and broadcasting services in MF and HF bands and includes 7 MHz harmonization.

Siverling is a graduate of Indiana University of Pennsylvania (IUP), where he earned a B.A. Degree in Spanish and International Studies (Latin America). Licensed since 1969, he currently holds an Advanced class Amateur Radio license WB3ERA.

Jon's trip to Charlottesville was arranged by N4HRO and I would like to thank Mike for inviting his friend to the October meeting of the AARC. Spectrum issues concern us all these days due to extreme pressure from the commercial sector and I am sure that Jon's comments will be of interest to us all. See you there!

73s, Dick

## It's Only A Repeater, Right?

## Harry, W2HD

No... not "only" a repeater... it's the voice of the owner, club or other responsible party. We, as members of the AARC are users of a bunch of repeaters... many of them belonging to the club. We also use other nearby systems because they are "open" and available for our use. What we have here in the Charlottesville, Albemarle County area is not necessarily what you will find throughout the country. In the early days of the repeater world, conditions were very much restricted. As time went by and repeaters became the way of 2-meter FM communication there were parts of the country that eased up on their restrictions, but this was, by no means 100% throughout the land.

2

We can take pride in the AARC system, supported by the dollars of members and the efforts of an excellent group of technically capable members. Our repeaters are "open" and available to all who are within range without "passing the hat." In many parts of repeater land you may initially use a repeater with a hearty welcome from owners or those whose dollars support the system. You may continue to enjoy some use of the repeater but it won't be long before you will be requested to join the club or donate to the repeater fund. I have known of situations where the repeater was "mysteriously" off the air when non-contributors attempted a contact. Explanations vary all over the board on such situations. Many argue on both sides of the coin.

For example, we have "use" taxes in many activities today. We are charged for the use of some tunnels, bridges and roadways. Many of these have extended far beyond the actual cost of the facility. Should we treat our repeaters that way? Personally, I would hate to see our repeater systems become nothing more than financial considerations. However, I have no problem with asking frequent users to join the AARC and combine the fun of the repeater use with the fun of chatting with club members.

Here again, we can experience the value of a repeater system. It's a club or community party line facility. Many of our members listen to (or monitor) the repeater systems until a familiar voice is heard and a "club family" conversation can begin. Many of our club members are part of a true family... husband and wife, father and son, mother and daughter... using the repeater as a means of conveying family info. Sure, today we have "cell phones" for that purpose, but repeaters were around long before their availability.

All in all, repeaters are not just an electronic system of communication. They are a viable resource for a club or group. They are something of which we can be proud. Those who have given their time so that these systems are available should be thanked for their efforts on behalf of the club. Just stop and think of the number of ways our repeaters have contributed to our Ham Radio enjoyment. You can't help but agree.

73, /s/ Harry, W2HD

# Proposed Slate of Officers for October Elections

The nominating committee presents this slate of officers and Directors for the AARC for the year 2001. The election will held on October 10th, at the Annual Meeting.

| President:                         | Stan Hazen, K2SSB          |  |
|------------------------------------|----------------------------|--|
| Vice-President: Vic Vickery, N3DFS |                            |  |
| Secretary:                         | Bow Owen, K4QKH            |  |
| Treasurer:                         | Ralph Traylor, K4CFE       |  |
| Directors:                         | (Only 5 are to be elected) |  |
| Mike Colburn, N4HRO                |                            |  |
| Mike Duvall, AC4ZQ                 |                            |  |

Greg Faust, N4PGS

Dick Mullikin, W4BZW

Bob Pattison, K4DU

Tom Rae, W4RAE

Elmer Scott, KF4UCI

Stephen Traylor, KF4ZGD

Additional nominations may be made from the floor at the appropriate time during the election process.

## CQ Veterans ...

Via Joe, KD4RWX

The Razorback Radio Club announces the inaugural Veterans Day QSO Party, 11-12 November 2000 to honor and celebrate the service of the men and women of the armed services of the United States of America.

Come join the celebration! Meet old friends on the air! Share war stories! Reflect on the tough times and the good times you had in uniform. Unfortunately, due to heavy commitments, our announcement missed the November QST deadline. So, it is vitally important that you help us spread the word. PLEASE pass the announcement to as many hams as you can. We are especially targeting veterans, of course, but non-veterans are most welcome. And what better way could there be for all of us to celebrate the honored service of our American veterans!

Full details are at the Razorback Radio Club web site (http://ourworld.compuserve.com/hompeages/k5xs), or by e-mail: <u>k5hog@aol.com</u>, or by mail from

Razorback Radio Club

1033 Marlboro Road

Lothian, Maryland 20711

**Date/Times**: 0001 UTC 11 November 2000 (Saturday) to 2359 UTC 12 November 2000 (Sunday) (Veterans Day Weekend)

**Frequencies**: Any legal operating frequency on the 160, 80/75, 40, 20, 15, and 10-meter bands is authorized, in addition to legal frequencies on any VHF/UHF band. Recommended meeting frequencies are those ending with "50" (e.g. 3550, 3950, 7050, 7250, 14050, 14250, etc.)

Modes: All legal modes.

**Valid Contacts**: One contact per station per band/mode combination.

**Exchange**: Stations will exchange callsign, signal report, QSO party serial number, and if a veteran, the branch of Service in which they served and year they entered military service. Non-veterans will exchange only callsign, signal report, and QSO party serial number. For example, if N3XNF, a US Air Force veteran who entered the service in 1953 worked KH7DN, a non-veteran, the exchange would be "KH7DN this is N3XNF, you are five by nine, number 214, Air Force 1953, over." "Roger, QSL number 214 1953. You are five by nine number 316. 73."

**Multipliers**: One multiplier for each year of entry in each different Service. Maximum approximate theoretical multiplier would be five Services times 65, or approximately 325.

Scoring: Number of contacts multiplied by multiplier.

**Awards**: Plaques to top Veteran finishers of each Service (Army, Navy, Air Force, Marines, and Coast Guard). Certificates to top finishers (regardless of veteran status or Service affiliation) from each state and country.

**Log Submissions**: Logs for award consideration must be received by the Razorback Radio Club not later than 30 November 2000. Logs may be e-mailed (ASCII only) to k5hog@aol.com or mailed to the club mail address noted above. Questions? Contact the club by e-mail or mail at the above address.

## Mea Culpa...

#### Bob, K4UVT

In the September issue of The Beacon, we had several excellent photos of AARC'ers enjoying the annual club picnic, held this year at Pen Park. Your editor inadvertently omitted giving proper credit to Rick, KO4WQ, who very generously provided us with these photos. My apologies, Rick! Attending:

## **Club Business**

AARC Board Minutes Sept. 5, 2000

Pres. Bob-K4DU Vice Pres. Dick-W4BZW Sect. Joe-KD4RWX Dir. Mike-N4HRO Dir Elmer-KF4UCI Dir. Mike-AC4ZQ Jimmy-K4JMY Absent: Pete-KC4UCK (injured).

Nominating Committee was discussed and several names were suggested. Appointments will be made at the regular meeting.

Elmer suggested that old members should be contacted about renewing, especially since the new repeater is back in operation. Bob expressed his sentiment for a special fund raising to help replenish the funds expended for the new repeater system. Bob asked if there was any interest in other repeaters, such as 6m? Mike, AC4ZQ suggested some linking might be possible.

Elmer suggested that it would be possible to relocate all of the Club's repeaters in one location again (The Marshall Manor site). He mentioned some possible locations for his personal 440 MHz repeater near Wintergreen and Buck's Elbow if we vacated that site. Joe asked why would we (the AARC) want to move the 440MHz repeater from such a great site as the Buck's Elbow location on the Blue Ridge?

Bob asked about other TNCs for the Club. A check with Tom, AD4AD would be in order. Mike, AC4ZQ indicated Tom had returned all but one to Greg, N4PGS.

Mention of the AARC Inventory was made. There is a need to distribute it.

Joe asked who determines where the current database is turned over to after he gives it up. No policy concerns this. Joe may make preparations for the transfer. Mike, N4HRO indicated that we could drop some of the tone listings from the newsletter listing. Joe will notify newsletter Editor.

Need to send out email to notify about Board meeting. It will be at 7 PM at JMRL Main location.

Dick indicated he needs some program suggestions.

Mention was made of Robert's Rules of Order and seeing that someone is familiar with them. Jimmy said all Board members should be familiar with the AARC Bylaws. Bob indicated that he might not be available for reelection due to business responsibilities.

#### Regular Meeting September 12, 2000

Bob, K4DU opened the meeting. A video was shown to the assembled Hams. It showed a visit to the new Marshall Manor repeater site. Some of the early activities were in progress: such as antenna placement and cutting of brush from around the area. Harry, W2HD made a motion to express the appreciation of the AARC to those who were responsible for getting and setting up the new repeater site. A second was heard and the motion passed.

Bob, K4DU presented a talk about the Dayton Hamvention.

The July and August Minutes were approved.

Four new members were voted in to membership:

Jonathan Moore, (no call as yet)

Roger Barron, W4EI

Richard Byam, KG4IJB and

Richard Crumley, W4YJR.

Bob, K4DU announced the names of the Nominating Committee:

Richard-KO4WQ

Greg-N4PGS

Ernie-W2EIU

Stan-K2SSB and

Bow-K4QKH.

Bow to correct his membership status.

Joe, KD4RWX read an amendment to the Bylaws which was proposed by Rick, KO4WQ. It will be made into a motion at the October meeting. The proposed change is as follows: "Those persons accepting nomination and election to the Board of Directors of the Albemarle Amateur Radio Club should accept the obligations of that directorship in that they will be expected to attend at least 66% of the meetings of the board of directors and of the club meetings of the AARC. As a director you are expected to help guide and shape the future of the AARC."

Bob, K4DU placed a list of items and cost on the front board as follows:

| Repeater  | \$1065.00 |
|-----------|-----------|
| Insurance | \$233.00  |
| Antenna   | \$179.00  |
| Hardline  | \$320.40  |

It was brought to the member's attention that the antenna represented an addition which was not covered by a previous motion and a suggestion about the possibility of this being an instance where items were purchased before approval.

Joe, W2PVY moved that we pay for the new antenna. Motion passed. The old antenna (which was relatively new) had conditions that made it not a good selection for the site (gain too good). It will be used in other club projects at some future time. Also, a minor repair had been made to the antenna.

Rick, KO4WQ asked a question about the insurance. Dave, K4DND presented concise reasons why the Club approved the insurance, including that the site owner required it.

Bob, KE4AQD noted the direction that the Civil Air Patrol is going concerning wide band and narrow band changes and wondered if anything of a similar nature was coming to Amateur Radio. The changes would require substantial increase in equipment.

Ron, K4RKA announced that the Antenna Analyzers were back from repair. They can be checked out using a controlled checkout procedure.

Motion for adjournment passed.

Submitted by Joseph D. Fritz, Secretary

## Frostfest 2001 Contest

#### Dear Fellow Hams:

Many of you are familiar with Frostfest, the amateur radio show held in January in Richmond, VA for the last 23 years. This year marks the first year that Frostfest has accepted an appointment by the ARRL as the Virginia Section Convention.

ARRL affiliated clubs, like yours, are so important to the amateur radio hobby -- providing Emergency communications where needed, training for all levels of amateurs through meeting presentations, classes, fox hunts, elmering, etc. and an opportunity for hams to get together and build relationships, exchange ideas, and expand the hobby.

In an effort to encourage your club members to attend Frostfest, and show the ARRL that the Virginia section has a strong group of active hams, the directors of Frostfest have proposed **a contest...** 

The club that has the most members present at Frostfest 2001, to be held Sunday, January 21st, 2001, at the Showplace in Richmond, will win a \$100 donation to your club treasury for any purpose you choose. To participate, simply instruct your members to be sure to fill in your club name on the ticket stub before they drop it in the door prize drawing container. At the end of the show, all stubs will be collected and then counted within a few days.

I will email each club to let you know which club won the prize. (Of course, the sponsoring club, Richmond Amateur Telecommunications Society (RATS) is not eligible for this contest!)

#### NEW THIS YEAR ... VIP Tickets

Your members can obtain VIP tickets **BEFORE DECEMBER 31, 2000**, that will allow them to enter the Frostfest 30 minutes before General Admittance through a separate entrance. No standing in line for tickets, and you'll get first crack at all the equipment to be found at Frostfest!

Your members can obtain VIP tickets several ways. They can go directly to http://www.frostfest.com and charge them to their credit card. They can mail a check and SASE to the address on the attached flyer. Or, if an officer of your club wants to call or email me, I will send a batch of tickets to the address in the call book so that you can sell them directly at meetings.

I can also provide you with a camera-ready insert for your club's next newsletter. Just drop me an email.

I hope your club will help us kick off this Virginia convention with a bang! If I can answer any questions, or if you have suggestions as to how we can improve the show, and make this one of the best ARRL Conventions possible, please feel free to give me a call, or email.

73 de Jim Clark, N3JJF

Frostfest Director

mailto:jim@compudata.net or (804) 743-5653

# Email Address Change for Beacon Editor

### Bob, K4UVT

Effective in the next week or so, I will be terminating my Internet and Email account at cstone.net. Sorry, but response time and access reliability have forced me to discontinue the services of this ISP. If you send email to me at the cstone.net address, it will most likely bounce. From this time forward, please send contributions for The Beacon to me at either <u>k4uvt@yahoo.com</u> (which is really the best bet!) or to <u>k4uvt@earthlink.net</u>. Mni tnx!!

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6

# AARC Classified Ads

All items must be related to amateur radio and must be surplus to the owners operation (i.e. no dealers or for profit). Price may be listed if desired. Note: Check also the WA4TFZ/AARC web page at members.aol.com/wa4tfz/aarc. Please note that all small letters must be used for this address. New ADS may be placed directly to the Editor: 804 990-2659 or via E-mail at k4uvt@yahoo.com Please let K4RKA know when items can be deleted from this file. Updated 5/26/00

| 9/23/00 FOR SALE:                      | US made Cetron 572B tubes, \$30 each.                                                |  |
|----------------------------------------|--------------------------------------------------------------------------------------|--|
| 572B TUBES                             | Will guarantee. Carter at 804 979 7383.                                              |  |
| 8/24/00 FOR SALE:                      | Ron, K4RKA, offers a MFJ CW filter                                                   |  |
| MFJ CW FILTER                          | CWF-2 for \$5, works ok, and a Ten Tec                                               |  |
| TEN-TEC KEYER                          | KR20-A keyer with paddles. Needs                                                     |  |
|                                        | work. \$10. 804 973-3640.                                                            |  |
| 8/24/00 FOR SALE:                      | 2m Kenwood 25w mobile transceiver                                                    |  |
| KENWOOD 2M                             | model TR-7930, including manual,                                                     |  |
| MOBILE                                 | mounting brackets and antennas.                                                      |  |
|                                        | Bruce Martin, N4MKW, 296-1184 or                                                     |  |
|                                        | bmartin@alum.mit.edu                                                                 |  |
| 8/24/00 FOR SALE:                      | Ron, K4RKA, offers a Swan 350 5-band                                                 |  |
| SWAN 350 5-BAND                        | HF Xcvr, tube type w/power supply                                                    |  |
| TRANSCEIVER                            | and manual, works ok, for \$50. Call 804                                             |  |
|                                        | 973-3640.                                                                            |  |
| 8/17/00 WANTED:                        | Tom, W4RAE, is looking for 2 number 80                                               |  |
| RECTIFIER TUBES                        | rectifier tubes. 804 978-2003.                                                       |  |
| 8/24/00 WANTED:                        | John, KR4ZWG, is looking for an Alinco                                               |  |
| ALINCO DUAL BAND                       | DJ580 HT or DR600 mobile, both dual                                                  |  |
| MOBILE or HT                           | band rigs. Call him in Blackstone at 804                                             |  |
|                                        | 292-7959.                                                                            |  |
| 8/10/00 FOR SALE:                      | Richard, K8EV, has a chrome D104 desk                                                |  |
| D104 DESK MIKE                         | mike w/ preamp. 804 973-3723.                                                        |  |
| 8/10/00 FOR SALE:                      | Ernie, W2EIU, has a Cushcraft R7                                                     |  |
| CUSHCRAFT R7                           | vertical antenna covering 10-40 meters.                                              |  |
| VERTICAL                               | Has been used on 80 meters with an                                                   |  |
|                                        | antenna tuner & does not require ground                                              |  |
|                                        | radials. 804 985-4180                                                                |  |
| 8/24/00 FOR SALE:<br>VINTAGE RECEIVERS | John, WA4IUN, offers some jewels for                                                 |  |
| VINTAGE RECEIVERS                      | old-timers - two receivers, an Atwater                                               |  |
|                                        | Kent model 35 (missing one tube) and a                                               |  |
|                                        | Zenith Transoceanic. 804 296-9016 or                                                 |  |
| 7/24/00 FOR SALE:                      | email at wa4ifx@juno.com.<br>Brown Brothers paddle, MFJ Versatuner                   |  |
| Paddle                                 |                                                                                      |  |
| MFJ Tuner                              | 2 Model 941D with 3 coax w/ 1 balanced<br>line input, including built-in swr bridge. |  |
| 2M HT                                  | Kenwood TR2600 2m HT - 10 memories,                                                  |  |
| Scanner                                | no tone board but Comspec has one that                                               |  |
| Transceiver                            | fits. Radio shack Pro34 scanner - covers                                             |  |
|                                        | 2m and 440MHz & up to 800 MHz, 10                                                    |  |
|                                        | banks w/ 20 memories each.                                                           |  |
|                                        | Oak Hills Research Sprint 2-80 meter                                                 |  |
|                                        | direct conversion Xcvr w/ built-in Curtis                                            |  |
|                                        | keyer. Joe, W2PVY at 804 589-1495.                                                   |  |
| 7/27/00 FOR SALE:                      | Dentron Clipperton QRO 1 KW amp.                                                     |  |
| DENTRON HF AMP                         | Covers 10-160 meters. Uses 4 572B                                                    |  |
|                                        | tubes. Call Bob, K4UVT, at 804 990                                                   |  |
|                                        | 2659 or Email atK4UVT@yahoo.com.                                                     |  |
|                                        |                                                                                      |  |

## Area Hamfests

FCC Database Updates

October 14 Stafford, VA

Stafford ARA

http://www.n4nw.org Contact: Richard Diddams, KF6UTH 33 Brush Everard Ct. Stafford, VA 22554 Phone: 540-657-8322 Email: rldiddams@earthlink.net

| Too buildbuse opdates |                                   |  |  |  |
|-----------------------|-----------------------------------|--|--|--|
|                       |                                   |  |  |  |
|                       | New Calls                         |  |  |  |
| None Received         |                                   |  |  |  |
|                       | Upgrades                          |  |  |  |
| None Received         |                                   |  |  |  |
|                       |                                   |  |  |  |
| VE Sessi              | on Schedule - 2000                |  |  |  |
|                       | on cenedate - Roord               |  |  |  |
| October 7             | Edward A. Forman (540) 439-0568   |  |  |  |
| Fredericksburg        | EFORMAN@EROLS.COM                 |  |  |  |
|                       | 9:30 AM (Walk-ins allowed)        |  |  |  |
| (W5YI VEC)            | PRE-REGISTRATION REQUESTED        |  |  |  |
| VDEN ARC              | Salem Church Library - MTG Rm B   |  |  |  |
|                       | 2607 Salem Church Rd              |  |  |  |
|                       | Fredericksburg, VA 22407          |  |  |  |
| October 14            | Pat Wilson W4PW@ARRL.NET or       |  |  |  |
| Richmond              | WWW.W4PW.ORG                      |  |  |  |
|                       | 9:00 AM (No walk-ins)             |  |  |  |
| (ARRL VEC)            | PRE-REGISTRATION REQUIRED         |  |  |  |
| RICHMOND ARC          | J Sargeant Reynolds Comm. College |  |  |  |
|                       |                                   |  |  |  |

| (ARRL VEC)<br>RICHMOND ARC<br>RAVE      | J Sargeant Reynolds Comm. College<br>1651 E. Parhaim Rd<br>Bldg B, Room 201<br>Richmond, VA 23228 |  |
|-----------------------------------------|---------------------------------------------------------------------------------------------------|--|
| *** NO SESSION ***<br>Madison           | John T. Berry (540) 543-2580<br>9:00 AM (Walk-ins allowed)                                        |  |
| (ARRL/VEC)<br>Madison County VE<br>Team | Location:<br>War Memorial Bldg, Upstairs Auditorium<br>Main Street<br>Madison, VA 22727           |  |

| Birthdays This Month |        |        |
|----------------------|--------|--------|
| Oct. 5               | N7IVV  | Brad   |
| Oct. 5               | KD4HBX | Steve  |
| Oct. 24              | AC4ZQ  | Mike   |
| Oct. 24              | KB4JNI | Bud    |
| Oct. 24              | KF4ZGD | Steven |
| Oct. 29              | WB4RBW | Nancy  |
| Oct. 29              | K4APM  | Linda  |

October 2000

Albemarle Amateur Radio Club P.O. Box 6833 Charlottesville, VA 22906 http://members.aol.com/wa4tfz/aarc/default2.html

> THE AARC BEACON Vol 2000 No 10 October 2000

ISSUE DEADLINE - 23<sup>rd</sup> of each month

Contact Information Daniel R. (Bob) Dorsey, Jr. K4UVT PO Box 977 Charlottesville, VA 22902-0977 (804) 990-2659 K4uvt@yahoo.com or k4uvt@earthlink.net

KA4JJD G 2000 Michael F. Rein 109 Sturbridge Rd. Charlottesville VA CURRENT MEMBER

22901

Cotober 10 - 7:30 PM NRAO Bldg + UMA Next Club Meeting \*\*\*

CLUB MEETINGS and NETS

REGULAR Meeting: Second Tuesday of each month at 7:30 PM

BOARD & TECHNICAL Meetings: First Tuesday of each month at 7:30 PM

Meetings are held at the National Radio Astronomy Observatory (NRAO) building on Edgemont Road (UVA)

LUNCHEON: Wednesdays -- Area hams gather at the Old Country Buffet (OCB) next to TOYS R US on Rte 29 North from 11 AM - 1 PM

Monday Night Information Net - Each Monday at 7:00 PM

YL Net: First Monday of each month at 8:30 PM

Northern Piedmont Emergency Net / Swap Net / Technical Session: Each Thursday at 8:00 PM

All Nets are held on the 146.760 repeater

#### AARC CALENDAR OF EVENTS

EVENT

DATE October 10 November 14 December 12

Regular Club Meeting - ELECTIONS!! **Regular Club Meeting** Regular Club Meeting

AREA REPEATERS

#### WA4TFZ **INPUT/OUTPUT** Tone Access (If needed) 88.5 Hz 146.160/146.760 146.325/146.925 88.5 Hz (if enabled) 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

Please sign up at meetings when the SIGN UP CLIPBOARD is passed around. You can also send an email to Greg (N4PGS) indicating your interest in working particular events.





