

# AARC Bulletin



Amateur Radio News  
For AARC Members

Albemarle Amateur Radio Club ~ Charlottesville / Albemarle County, Virginia

Volume 2000, Issue 2

February 2000

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## Meeting Notice

The next regular AARC meeting will be held on February 8 at 7:30 PM, at the NRAO building at UVA. Harry, W2HD, will give a talk on his views for the future of ham radio.

## Novice-Tech Class!

The AARC Novice-Technician License Class begins Wednesday, Feb 2<sup>nd</sup> and continues for 10 weeks until April 5th.

Class times: 6:30 until 9:00 PM

A VE session is scheduled for Saturday, April 8<sup>th</sup>.

### Contacts:

Harry Dannals - 804-974-7388 or Joe Fritz - 804-973-1738 (Albemarle County)

Bill Bearden - 540-337-5179 (Augusta County)

5. No progress to date on the wire antenna.

The FCC has released its Report and Order. Now that the bureaucrats have spoken, it is up to each of us to work for the future of the hobby. The other day as I was cleaning up the shack, I came across a copy of CQ Magazine from March 1951. The cover story was "FCC Announces Novice License". Up until that time there were three classes of licenses, Class A, B and C. The ruling changed their names to Advanced, General and Conditional. The ruling that announced the Novice Class also created Technician and Extra Class.

In the 1950's to renew your Amateur license you had to submit "Proof-of-Use". The ruling shifted this requirement to operating time from a required number of contacts. In addition all renewal applicants had to include a statement that they could send and receive code at a speed not less than that required for the class of license being renewed. The novice license in 1951 was good for a term of one year and could not be renewed.

## Notice on Dues!

If you have not paid your dues by the mailing of the March issue, you will no longer receive the AARC Bulletin.

## The President Speaks

*Bob, K4DU*

February, my goodness time goes by quickly! For those of you keeping score:

1. I got the TenTec kit and have started to put it together in my free time. The first board is assembled and I am ready to move to the next phase.

2. The beams were removed from the tower with help from Elmer, Ernie, Dave and my son Jason.

3. I have beams for 50, 144, 220 & 440 and hope to have them up by the time you read this.

4. The new HF beam is on order.

The purpose of the changes was to attract more people to the hobby. If the cover of that issue of CQ is any indication, they were going for young people. The cover shows a young boy with headphones copying code. The purpose of the current changes is the same. The commandment is to grow or die. Personally, I think these changes are good. It is up to us to attract new folks into the hobby. I propose that everyone in the club should recruit a new ham to the hobby. If we want to keep our frequencies we have to build a larger constituency. Each one reaches one!

A bit of housekeeping: last month I urged you to send your comments to me via e-mail. I made a mistake in the address. Send your e-mails to k4du@arrl.net. Thanks to Mr. Wilson of Richmond for pointing out my mistake.

## Peep From The Veep

Dick, W4BZW

I hope that everyone had a very happy and joyous Holiday Season and a smooth Y2K transition. The most serious problems heard about on the area repeater circuits were some old computers that did not roll-over correctly to the new century but were back in service after a manual reset.

The start of a new millennium is viewed by many as a special type of new beginning, somewhat akin to one of life's passages. Amateur Radio can also be thought of in this context. It was born in the last century and is beginning this new century and millennium with a new license structure and emerging challenges not anticipated just a few years ago. The first regular club meeting of the new year is an appropriate time for us to pause and take a look at the future of Amateur Radio. We are fortunate to have among our membership someone who has many years of experience with amateur radio both as an active ham and as a leader of two important amateur radio organizations. Harry Dannals, W2HD, served for 10 years as President of ARRL and for 5 years as President of the QCWA. Harry has agreed to give us his perspective on the future of amateur radio and will present a talk titled **Where Are We Going?** at the February meeting of the AARC. I am sure that you will not want to miss this talk. I hope to see you there.

## Will Another Shoe Drop?

Harry, W2HD

On 30 December 1999, the Federal Communications Commission issued the new regulations covering the restructuring of the Amateur Radio Service. Many pages have already been written concerning the new system, which provides for a single Morse code exam at 5 words per minute and three classes of license instead of the present six. Thus, effective on 15 April of this year, we will have a Technician Class, General Class and Extra Class. Gone will be the Novice and Advanced Classes. There are many details concerning the new rules and they will be discussed at AARC meetings.

However, this particular article concerns the second shoe, which it is anticipated will drop sometime within a year or so. Looking first at the present Novice bands, there should be a great change in occupancy. First of all, no new Novice licenses will be issued. Secondly, many Novices, already credited with the 5-wpm certificate will probably go for a higher grade of license with only a written examination or two in the road ahead. The FCC addressed the Novice bands with a statement using the words that no "refarming" (their statement) of these frequencies will be undertaken. However, can this decision last very long when overall numbers of Novices will be decreasing? I doubt it and you can bet that those who usually petition for rulemaking changes will be petitioning!

Secondly the number of new Generals and Extras will be squeezing into those parts of the bands where only Advanced and Extras presently live.

You can be sure that these bands will become rather crowded, especially the phone sub-bands.

And, of course, much of the discussion about restructuring centers about the slower code speed for General and Extra Classes... only 5-wpm! Some dyed-in-

the-wool C.W. Hams have said many times over that 5-wpm "IS" no code! I have a badge that states that point! The question can be raised about the present C.W. sub-bands. With the World shifting to a reduction in C.W. need and license requirements, can these rather large segments of our bands remain as they are? I truly doubt it and I enjoy CW very much. Fortunately for me, I have used C.W. for more than sixty years and it is like a second very familiar language. However, that love for the mode must be tempered with an observation of the real world! Morse code will be in use for decades to come! It is still one of the most efficient communication methods and can be very valuable in emergencies when you can communicate by scratching two wires together and creating a spark!

Nevertheless, with the statements made in the above paragraphs, it should be readily apparent that somewhere down the road that other shoe will drop and we will see another FCC "restructuring" order. Just as we note whenever a change is announced, there will be a gnashing of teeth, an expletive or two, but the World will still be spinning on its axis and Amateur Radio will be alive and very well, I'm sure. A fellow engineer once said to me that nothing is new but change. He was right. Are you ready for that next shoe to drop?

## FrostFest Report

Ron, K4RKA

The AARC attended the Richmond Frostfest on January 16, 2000 with two tables stuck away in the front corner of the building where all the computer stuff normally is. A big computer show at the Fairgrounds apparently drew most of the computer dealers this time so it actually seemed like a hamfest with only a smattering of computer items (and, of course, the occasional jewelry). Our two tables kept a pretty steady flow of lookers and enough buyers to keep us from falling asleep. The Pattison clan

provided most of the manning and had the biggest items. I hope they sold a lot. Two different former members picked the first of January to make some donations to the AARC, fortunately before the hamfest. Bud Beazell, KB4JNI, picked up some interesting items from WA6HRY for commission sales, and WA4LNY donated several nice items.

Fortunately for me, most of the HEAVY items sold locally, leaving me room for some of my stuff. Nancy, WB4RBW and I were joined by WD4PKS and his friend for a pleasant ride to Richmond at what some people would consider mid-morning, arriving about 9:15. We only had to stand in line for tickets a few minutes. It took us longer to find the table but we eventually connected. Fortunately Bob, K4DU, was listening on the club "hamfest frequency" of 146.925. Table watchers/sellers included Ron, K4RKA, Nancy, WB4RBW, Rick, KO4WQ, and Sharon, KO4OC in addition to the Pattison clan. Bud, KB4JNI, Will, KJ4XZ, and Mike, AC4ZQ, provided some sales materials and may have attended the table at some point. If others either watched the tables or provided materials, I apologize for leaving you out, but the above were all I noticed. Counting the pre-hamfest sales, each participating group which I represented sold around \$100 worth, except for Lewis who came in at \$1 but he spent more than he usually does, so that probably balances. The weather was very nice as opposed to the day while I am writing this with 4 inches of that white stuff on the ground and more falling. Hope to see more of you at Vienna, Goochland, Manassas, Berryville, etc. 73, Ron

## Contest - New Name for the Bulletin!

Bob, K4UVT

Have your creative juices been flowing well lately? Although appropriate, the name "AARC Bulletin" seems a little drab

and not terribly exciting. I have edited or been associated with club newsletters in the past with such interesting names as *The Short Circuit* and *Zero Beat*. I think we also should have a unique and easy to remember title for our bulletin.

Therefore, the AARC has decided to sponsor a contest for all AARC members to come up with a good amateur radio related title for our bulletin. The contest starts as of now and will continue for about a month. If possible, I would like to start using the new title with the April 2000 issue. If you're very creative and can supply any original artwork or graphics to go with the title, so much the better! Let's not step on any toes by "borrowing" a title from another newsletter if we can help it. The AARC publications committee will judge all entries on the basis of originality and how appropriate it is to our club. You may submit your entry to me or to any club officer.

The person submitting the best title will win a copy of the *2000 ARRL Handbook*, compliments of the AARC. So, put on your thinking caps and be creative – you may be our winner!

## Some Thoughts on The New Amateur Radio Restructuring

Leroy, WA4MHP

I am sure by now there have been some major discussions about the amateur license restructuring that occurs April 15, 2000. The following only describes my feelings and is based on some of the articles that I have read from wireless market journals and magazines. I have been an amateur for almost 25 years and I earn my living from the wireless and telecommunications market.

In this day and age of the government trying to have the most control, trying to make the most money whenever possible, and installing checks and balances to keep the dishonest and

honest as honest as possible, I have great respect in how the FCC has handled the amateur community.

Over the last twenty-five years, the FCC has turned over a tremendous amount of responsibility to the amateur community, such as the VE system and frequency monitors. The FCC and FEMA, in return, have the best emergency communications that one could ever think of. Fast response, wide range of communications modes, and, best of all, minimal investment for the federal, state, and local governments. The only thing the amateur service asks for in return is the use of the allocated frequencies for hobby uses when they are not needed for emergency reasons.

With all of the wireless communications coming on line, the FCC is under great pressure to sell as much bandwidth to these companies because of the income that it would bring the government. In the past, with the FCC turning over the testing and self-regulation to the amateur community, the FCC has kept the budget in line to prevent the higher authorities from pulling the plug on parts of the amateur service. Some years ago, the No-Code Tech was introduced to hopefully get more people interested in amateur radio and increase the ranks. The restructuring that occurs in April is very similar to the No-Code Tech changes that occurred sometime ago.

I believe in order for the amateur service to maintain the frequency spectrum it presently enjoys and continue to serve the public with emergency communications, the amateur population needs to grow at an aggressive rate. If not, the FCC will be forced by a higher authority to turn over the VHF and UHF frequencies to private investment groups or PIGS as they are called now. I firmly believe that the FCC is doing everything possible to protect the amateur community and wants to see more people in the amateur service. An increase in the amateur radio population may in turn may give the FCC more tangible data to show the worth of amateur radio.

The restructuring is our opportunity to advertise the amateur service and get more people interested. We still require our amateur community to have knowledge of the amateur service and, as far as the written exams go, there is very little change. There will only be three written exams. However, they will most likely use question pools similar to the ones the previous 5 exams used.

The big change is in the code requirements; only one 5 words per minute code test will be required to advance beyond Technician Class. How many people have worked to achieve 13 or 20 words per minute only to take the test and never use the mode again? How many people gave up on trying to advance because of the code requirement?

The real question in my mind is how do we sell people on joining the amateur radio community? Newspaper ads for club meetings and field day events, or going to sciences classes in schools, or having amateur radio displays in local libraries, schools, community centers, seniors centers, and restaurants, or having a radio day for kids in the hospital, or going to Boy, Cub or Girl Scout meetings, or having special programs at community or seniors centers, or even taking Boy Scouts on t-hunts would be great ways to inform the public of amateur radio. I am sure that there are even more ways to get the word out. Any ideas?

## Another Opinion on Restructuring

Patrick Wilson, K4OW

You know, after hearing about the restructuring of the Amateur Radio Service licenses, I was a little taken aback at the drastic changes that would be going into effect in April 2000.

Now that I have been able to think about it a little longer and mull over the potential consequences, I have come to a decision and I would like to share it with others in the ham community.

The real concern about the continuation of our complex hobby should not be about whether or not a single operating mode is one of the elements we consider in testing prospective new licensees, but should be about the lack of mentoring for new hams. Mentoring in correct operating procedures and helping develop skills and abilities that will further the service and lead us into the future. This mentoring may take the shape of how to operate on two meters, how to operate on HF voice, how to operate using CW, how to do RTTY and even PACKET. But it should never be about trying to force a specific mode of operation. Rather, show all the different ways to communicate with each other and allow the natural progression or attraction to specific modes take place. Mentor someone in the art of kit building, show him or her how to use an oscilloscope, teach someone to use an antenna analyzer or show someone how to solder (an art unto itself, when done properly).

Code is not the all and everything some of us would like to believe and reducing testing speed will not cause the death of anything. Code was the beginning of ham radio and should be revered for that, but not idolized. I will continue to use it almost exclusively, because I gravitated to it, not because I had to learn it to get a license and it was HARD for me, more than you can imagine.

I hope I become a better mentor and Elmer for those who take the time to pass the exams and become licensed Amateur operators and join this wonderful village of hams. I hope I can convince some of them to join ARES or RACES, operate CW and Packet, and HF voice and RTTY and all those other things, but I hope I can do it without disparaging those who don't appreciate the particular modes I like best.

What the changes do to our Amateur Radio Service is up to us. So keep that in mind when you start becoming bitter and negative in your thinking.

The changes won't kill CW, Ham Radio, or anything else, but our attitude and

lack of enthusiasm can, if we aren't careful.

Thanks for reading and I wish us all luck as we move into the future.

## K4RK - A Silent Key

Harry, W2HD

On Saturday, 8 January, Bob Kelsey, K4RK, an AARC member became a Silent Key and the Amateur Radio community, including our club, lost a Gentleman among gentlemen. I first met Bob on the air several years ago when he was using his previous call, WB4CLN. He later obtained his "initial" call letters when the special call sign program went into effect.

Bob was easy to chat with and always showed an interest in the person on the other end of the circuit. It was easy to enjoy a contact with K4RK. His home was destroyed by fire a year or so before we first contacted and he was planning his new Ham station as we chatted. It wasn't too long before I had the opportunity to help plan his tower and antenna location and assist in equipment selection. He was so appreciative of any help and you felt a part of whatever he was doing.

I already miss K4RK and there are several others who feel the same way.

The funeral services were held on a beautiful Wednesday afternoon, the 12th, and AARC was represented by several members including W2EIU, W2HTJ, W3DX and KO4WQ. 73 to a fine Radio Amateur and good friend.

## Antennas and Maps

Jim, W4CAD

OK... so you want to set up you new beam antenna (VHF/UHF or HF)... and you want your beam to point in the same direction with respect that you have chosen on your map. So, how do you orient your antenna to your maps?

In your shack, you will be using "flat" maps ... maps of your county, state, country, or the world. Since ALL "flat" maps are oriented towards TRUE

NORTH, and *NOT* "magnetic north", then you will also want to orient your antenna towards TRUE NORTH.

Flat maps are generally "conic" section projections, whether polyconic or Mercator. They show a "distorted" landmass, but most importantly, they show reasonably parallel lines (meridians) pointing to TRUE NORTH. The meridians on our maps do *NOT* point to magnetic north. So it should be clear that we want our antennas to point to TRUE NORTH, as opposed to "magnetic north" to EXACTLY correlate with our maps. But to set our antennas to point to TRUE NORTH, we may first have to point them toward magnetic north... and from there make the necessary corrections to point them towards TRUE NORTH.

There are TWO north directions: one is TRUE NORTH (the NORTH POLE and NORTH STAR), and the other is "magnetic north"... the direction in which a compass points. These two "norths" are NOT located in the same place!

There is a real location on earth called the "magnetic north pole". This point is located far away from the "TRUE NORTH Pole"... in fact, it is 1300 miles south of the TRUE NORTH pole... it is a "general" location and you will find it at latitude 71 degrees north and longitude 96 degrees west. This puts the location of the "magnetic North Pole" in extreme northern Canada... up close to the Arctic circle, but still more than a thousand miles south of the TRUE NORTH Pole. This "magnetic abnormality" location is the direction in which our compasses point. If we drew a straight line between Charlottesville and the TRUE NORTH Pole, then the "magnetic" north pole would be located west (to the left) of our line by the "magnetic variance" angle of 6 degrees.

Think of "magnetic north" as a "vaguely" located place where we use a compass to "generally" locate ourselves. TRUE NORTH is an EXACT and much more accurate location... specifically, at the axis of earth rotation which we call the NORTH POLE.

The TRUE NORTH Pole is the exact point where the axis of spin of the earth pierces the earth (the North Pole) and continues thru to the South Pole. The North Pole represents TRUE NORTH. If

you are standing on the North Pole, then ANY direction in which you look will always be south. An extension of the north polar axis would also reach out into space and touch the North Star, which is located FAR above the horizon.

If the NORTH STAR were on the horizon, then it would be easy to just sight down your boom and point your new beam at the North Star. But the NORTH STAR is NOT on the horizon; it is well up above the level horizon. Trying to sight down your level boom and align it with TRUE NORTH is difficult if not impossible. So, how do you align your antenna boom towards TRUE NORTH?

First (in your shack), set your rotator needle on 0 degrees. Then climb your tower, lean out behind the antenna, and using your compass, loosely align your antenna to magnetic north. Then, when you are sure that your antenna is EXACTLY aligned with magnetic north, continue to rotate the antenna mast towards the "east of north" (to your right) an amount equal to your local "magnetic variance" angle, which is approximately 6 degrees in the northern Virginia area. Now, your antenna will be pointing EXACTLY to TRUE NORTH and will correlate EXACTLY with the flat maps in your shack. To confirm your antenna orientation, take a sighting on it using your compass, from the ground and at least 50 yards back from it. The boom should point 6 degrees east of magnetic north by your compass reading. Now, you are ready to drill thru your rotator clamp, and thence, thru your mast, and run a stainless steel bolt thru them to permanently lock-in your antenna orientation.

If your beam antenna is already installed, and sighted in with a compass which set it pointing towards "magnetic north", then just loosen the mast clamp and rotate the antenna towards the east (to your right) about 6 degrees. Then re-clamp the mast and you will be pointing EXACTLY to TRUE NORTH. Now you can exactly correlate your antenna pointing to your map meridians.

Some interesting web sites on latitude, longitude and maps are:

<http://tiger.census.gov/cgi-bin/mapsurfer/>

<http://www.juggling.org/bin/un.cgi/map-find>

(Latitude/longitude for your QTH... slow, but GOOD)

<http://www.arrl.org/locate/qrid.htm>  
(Find your Maidenhead "Grid Square")

<http://www.indo.com/distance/>  
(distance between cities, places, etc)

<http://www-nmd.usgs.gov/www/gnis/gnisform.html>

<http://www.mapstore.com/mqms/usgs/>

<http://www-nmd.usgs.gov/>

<http://terraserver.microsoft.com/>  
(find an aerial photo of your QTH)

[http://www.lib.utexas.edu/libs/PCL/Map\\_collection/map\\_sites/map\\_sites.html](http://www.lib.utexas.edu/libs/PCL/Map_collection/map_sites/map_sites.html)

[http://www.caer.r.uiowa.edu/servers/server\\_s\\_references.html](http://www.caer.r.uiowa.edu/servers/server_s_references.html)

<http://www.topodepot.com>

## Club Business

### AARC Board Minutes Jan. 4, 2000 (Held at Harry's (W2HD) house.)

Board Members Present: Bob, K4DU; Dick, W4BZW; Sharon, KO4OC; Joe, KD4RWX; Elmer, KF4UCI; Jimmy, K4JMY; Mike, AC4ZQ

K4DU: Questions and considerations:  
Sharon and Joe are to put together a financial report that covers 3 years.

What about old members? What about hidden members - Make a list.

Work on a publicity strategy.

Recruit to Club - to Hobby.

Between now and the Feb. Board meeting, ponder what is the impact of the Restructuring

Check on the AARC Special Service Club status.

Bob, K4UVT: As the new Editor of the Newsletter, he is interested in renaming the AARC Bulletin. Dick (W4BZW) moved to set up a contest to rename the newsletter. The motion was approved. Publication Committee is to set up guidelines.

**Mike (AC4ZQ):**

Mentioned that the motherboard on the PBBS has been fixed. 440 Repeater is off frequency and is being tweaked. The PBBS of AC4ZQ is doing most of the packet work.

Dick is to check with Buck Rogers (K4ABT) concerning a program presentation on packet. Also, Chuck (W4SM) about a possible program.

Permission has been granted to raise the elevation of the 440 repeater's antenna. Plans are to replace the fan in the 146.925 repeater. 220 cans are still in the process of being built.

Jimmy (K4JMY): wished to propose a person for Chair of Technical Committee. It must wait until the President has made his appointments (recommendations).

Discussion on a special project was given. Topic to be brought forth at a later date due to the nature of the issues.

Elmer (KF4UCI): Elmer has a commercial repeater that he may very well make available to the Club. It is a work in progress. Stay tuned on this issue.

Next meeting: Consideration of Insurance, equipment and inventory.

Volunteer for Chair of Education Committee (Bill, KC4TQF); for Chair of Publication Committee (Joe, KD4RWX). Formal Committee Appointments likely at the Feb. meeting.

**Regular Meeting Jan. 9, 2000:**

The regular meeting was the Winter Dinner at Old Country Buffet. While no formal business was conducted, several certificates of appreciation were distributed. Dave Damon (K4DND) presented certificates to those who checked in to the NPEN 50 or more of the time. (List not provided.) Joe Fritz presented the following certificates:

**Public Service:**

Dave Damon (K4DND) Honor Roll 60 events; Phil Lawrence (W4DGN) Honor Roll 55 events; Miles Gentry (N4YEQ) 40

events; Mella Sardi (W2HTJ) 30 events; Marty Mait (KF4FRO) 15 events; Grayson Dowell (KF4FYI) 10 events

**Presidents Award:**

Joe Giovanelli (W2PVY)

**Presidential Service:** Don Bush (KE4DDR)

**Vice Presidential Service:** Jessie Preston (KE4OID)

**Director Service:** Rick Berman (KO4WQ); Hein Hvatum (N4FWA); Dave Damon (K4DND); Ann Condrey (W0ANN)

**Ham(s) of the Year:**

Elmer Scott (KF4UCI)

Jimmy Walker (K4JMY)

Grayson Dowell (KF4FYI)

*Submitted by Joseph D. Fritz, Secretary*

## Band Plan of the Month - 6 Meters

*Courtesy of ARRL Web Site*

I hope to present the band plan for one amateur band each month as a handy reference on band limits and allowed modes in each band segment. It is generally a good idea to adhere to the allowed modes as they are defined. For instance, it is considered VERY poor operating technique to use CW in a band segment generally reserved for voice communications, and vice versa.

The following is the band plan for 6 meters as found on the ARRL Web site.

Freq (MHz)	Assigned Modes
50.0-50.1	CW, beacons
50.060-50.080	beacon subband
50.1-50.3	SSB, CW
50.10-50.125	DX window
50.125	SSB calling
50.3-50.6	All modes

50.6-50.8	Non-voice communications
50.62	Digital (packet) calling
50.8-51.0	Radio remote control (20-kHz channels)
51.0-51.1	Pacific DX window
51.12-51.48	Repeater inputs (19 channels)
51.12-51.18	Digital repeater inputs
51.62-51.98	Repeater outputs (19 channels)
51.62-51.68	Digital repeater outputs
52.0-52.48	Repeater inputs (except as noted; 23 channels)
52.02, 52.04	FM simplex
52.2	TEST PAIR (input)
52.5-52.98	Repeater output (except as noted; 23 channels)
52.525	Primary FM simplex
52.54	Secondary FM simplex
52.7	TEST PAIR (output)
53.0-53.48	Repeater inputs (except as noted; 19 channels)
53.0	Remote base FM simplex
53.02	Simplex
53.1, 53.2, 53.3, 53.4	Radio remote control
53.5-53.98	Repeater outputs (except as noted; 19 channels)
53.5, 53.6, 53.7, 53.8	Radio remote control
53.52-53.9	Simplex

## AARC Classified Ads

This list contains FOR SALE or WANT listings for the last 30 days or so. 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: Current month/week sale listings may be found on the **WA4TFZ bulletin board on 145.03 MHz**, the oldest continuous bulletin board in the state of Virginia. You can also find this list plus more on the internet at the WA4TFZ/AARC club page maintained by KD4RWX at [members.aol.com/wa4tfz/aarc](http://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](mailto:k4uvt@yahoo.com)

**Please let K4RKA know when items can be deleted from this file. Updated 12/20/99**

5/27/99 COMPUTER FOR SALE	80586 133 MHz computer with 16 meg RAM, cd, svga monitor, sound - \$200. If interested, contact Grayson, KF4FYI at 293-4885.
6/17/99 FOR SALE: 2M & 220 MHz ANTENNAS	KF4FRO is offering for sale a 2 meter Ringo Ranger II with a 220 MHz Ringo Ranger thrown in.
6/17/99 FOR SALE: KENWOOD QUICK CHARGERS	Elmer, KF4UCI, is offering for sale two Kenwood KSC14 quick chargers.
7/1/99 WANTED: HF TRANSCEIVER	Bill, KF4EFY, wants to buy either a good quality general coverage receiver or a transceiver with general coverage receiver. Call him at 977-1424 or send email to <a href="mailto:WAP01@cho.litton-marine.com">WAP01@cho.litton-marine.com</a>
7/1/99 WANTED: RADIATION DETECTOR	Grayson, KF4FYI, wants a meter type radiation detector. Call 293-4885.
7/1/99 FOR SALE: ICOM HAND MIKE	K4JMY would like to sell an ICOM HM36 hand mike. Came with ICOM 746 transceiver. Call 973-5589
7/1/99 FOR SALE: HF BEAM	Rick, KO4WQ, would like to sell a Mosley TA33jr, three-element triband beam. Call him at 804 823-1128
1/20/00 WANTED: R-390/390A or SP-600 RECEIVER	Carter Elliott, WD4AYS would like to find a R-390/390A or SP-600 receiver. Call him at 804 979-7383

## Hamfests of Some Note

February 27,  
Annandale, VA

### Vienna Wireless Society

#### WINTERFEST

Northern Virginia Community College, 8333 Little River Turnpike (Route 236), Annandale, VA. Frostbite Tailgate opens 6 AM (first-come basis). Indoor area opens 7 AM. Admission \$5, tailgate space \$10 including admission, indoor tables available at extra cost. ARRL VE exams at 8 AM. Talk-in on 146.91(-) & 146.685(-). Info: Mike Toia, K3MT (703) 757-7021 or on the Web at <http://users.erols.com/k3mt/vws/wf/hamfest.htm> E-mail: [wkke4pms@valley.com](mailto:wkke4pms@valley.com)

## VE Session Schedule - 2000

February 12 Richmond  (ARRL/VEC) Richmond ARC/RAVE	Pat Wilson (804) 932-9424 9 am <b>(Advance Registration Required - No walk-ins; please call)</b> Location: J. Sargeant Reynolds Comm. College 1651 E Parham Rd Bldg B, Room 201 RICHMOND, VA 23228
February 13 Bedford  (ARRL/VEC) Bedford ARC	Judy Friel (804) 525-6142 2 PM (Walk-ins please call) Location: Bedford Central Library 321 N Bridge St. Bedford, VA 24523
February 20 Roanoke  (ARRL/VEC) Roanoke VE Team	Terrance Vlug (540) 890-6782 2 PM (Walk-ins please call) Location: American Red Cross 352 Church Ave. SW Roanoke, VA 24016
March 11 Madison  (ARRL/VEC) Madison County VE Team	John T. Berry (540) 543-2850 9 AM (Walk-ins allowed) Location: War Memorial Bldg Upstairs Auditorium Main Street Madison, VA 22727

## FCC Database Updates

### New Calls!

KG4FYF	Technician Plus – Howard Gay. Howard is a colleague and friend of your editor at the office. He is a very enthusiastic addition to the amateur community.
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### Upgrades

	None reported
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## Birthdays This Month

Feb 6	W3OF	Bill
Feb 9	AC4XV	Jay
Feb 9	KF4FRN	Roe
Feb 20	KO4WQ	Rick
Feb 20	KB6RM	Rose-Marie
Feb 28	KO4OC	Sharon

**Albemarle Amateur Radio Club****P.O. Box 6833****Charlottesville, VA 22906**<http://members.aol.com/wa4tfz/aarc/default2.html>**AARC BULLETIN**  
**Vol 2000 No. 2**  
**February 2000****ISSUE DEADLINE - 23<sup>rd</sup> of each month****Contact Information**

Daniel R. (Bob) Dorsey, Jr. K4UVT

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(804) 990-2659

K4uvt@yahoo.com or bdorsey@cstone.net

TO CORRECT LABEL INFORMATION CALL PHONE 973-1738: Your license expires Oct 31, 2004 D Y A  
KA4JJG G 2000 CURRENT MEMBER**Michael F. Rein**

109 Sturbridge Rd.

Charlottesville VA 22901

**\*\*\* Next Club Meeting \*\*\*****February 8 - 7:30 PM****NRAO Bldg - UVA****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****WA4TFZ REPEATERS****INPUT/OUTPUT      Tone Access (If needed)**

146.160/146.760 88.5 Hz

(If tone is enabled, you can turn the tone off and back on temporarily by:

Temporary Tone OFF DTMF 325\*

Remove Temporary Tone OFF DTMF 326\*

Time DTMF 10\*

Tone Status of Repeater DTMF 700\*

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

**AARC CALENDAR OF EVENTS**

DATE	EVENT
February 8	Meeting
March 14	Meeting
April 11	Meeting
May 9	Meeting
June 13	Meeting

**AARC - PUBLIC SERVICE SCHEDULE**

DATE	EVENT
TBA	Heart Walk
TBA	Montpelier Horse Races

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.