

Ham Chatter



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April 2009

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N4S Special Event Station set for Boy Scout Camporee on April 25



Murray, K4MHM, demonstrating Amateur Radio to Scouts at Camp Bonner North at the 2008 Camporee

The excitement of string and tin can telephones, crystal sets, hearing a ball game or a far away place on the radio was the magic of communication when I was young. I remember too trying to learn semaphore and the Morse code in cub scouts. Scouting is the very act of passing on skills of the past and having them enrich the life of the present. These are the skills of: survival, confidence and working together.

Amateur Radio can, and does, play a part in the experience of our young people. We have a chance to expose the wonders of Amateur Radio to approximately 1000 Scouts who will be at Camp Bonner North for their Camporee on April 25. A bit of your time getting the scouts on the air have allow them the experience of the magic of radio, and more to the point - Amateur Radio.

As big as Bonner Camp North is, we can be more than one station, at more than one location. Dave Langley, W4YDY, and I have had a great time the past few yeas with a station at the Camporee. Be a part of the Scout and Amateur Radio experience. Let me, Dave Langley or Dave LeMoine, KV4CN, know if you are going to join us. We will even have a special call sign N4S.

Directions

Camp Bonner North is located East of Washington, NC. These directions are from Washington starting at the intersection of US17 and US264.

From US 17, go 6.4 miles on US264, a four lane highway to NC32. At NC32, the four lane ends so stay in the right lane and turn right on NC32. Go 1.33 miles and turn left onto Harvey Road. At 1.1 miles, turn right into Camp Bonner North, a dirt road in the woods. There is a sign at the entrance. There is an open field on the right just before the Camp entrance. Go 0.44 miles and the shelter is on the right where N4S will be located. It will be the 2nd shelter on the right on the dirt road. Murray Merner, K4MHM (757-3429)

Editors Note: I first learned the Morse code when I was in the Boy Scouts and enjoyed the semaphore competition at Camporees at the Washington and Kinston airports! W4YDY

Next Meeting April 14

The Brightleaf Amateur Radio Club will have its next meeting on Tuesday, April 14 at 7:30 PM at VFW Post Home 7032 on 1108 Mumford Road in Greenville.

The program TBA. All members, families and guests are invited to attend.

The next board meeting will be April 28 at 7:30 PM at 631-B Dickinson Avenue - entrance at back of the building. All members invited.

Jack Kear, K4MI, SK

Jack Kear, K4MI, passed away February 24, 2009. He was a life member of the Brightleaf Amateur Radio Club and one of the founders of the club in 1967. One of there reason Jack gave for the selection of "Brightleaf" is because the tobacco companies would pay for the QSL cards. He was very active in the club until he moved to Pennsylvania about 6 year after his retirement from the VOA in 1990.

Jack served in the US Army during World War II in the Pacific and participated in the liberation of the Philippines. Before going to work with the VOA, he worked in broadcast radio and the Radio Voice of Gospel of the Lutheran Church in Ethiopia.

There is an article in the March 2000 Ham Chatter <<http://www.w4amc.com/hc/pdf/hc0003.pdf>> about Jack with many more details of his professional career and Amateur Radio activities.

BARC sends its condolences to his wife, Regina Catherine of Tyrone, PA and his family and friends.

President's Corner, Bob Moore, N4USB

Editors note: Bob is living it up in Europe this month. Been following him on APRS and he has been stopping a lot for refreshments in Nice, France and Amsterdam, Netherlands! He didn't have time to do his column! ☺

Pitt Community College Amateur Radio Station Following email received from Prentice Tyndall, N4VBH

Exciting news for the Pitt Community College Amateur Radio Station... The approval for the antenna is in!...with some limitations...

We cannot have anything (tower, antenna, etc.) attached to the main building where we are located. So, our tower will have to be supported alongside the shed at the rear of the building (about 40 to 50' away), or we will need to somehow acquire a self-supporting tower. Also, we cannot have any guy wires or other wires leaving the tower, except for the transmission lines back to the building. So, we basically get to erect a Rohn 25 tower of approximately 50' (or more, if we can get a self-supporting tower). I don't know of any antenna limitations other than those already mentioned that applies to the tower. Wire antennas are out, I'm sure, since guy wires are prohibited.

So, we will most likely have a small tower with either 1) an HF vertical antenna on top and VHF/UHF antenna

side-mounted, or 2) a compact tri-band beam on top with a VHF/UHF antenna just above that.

I am hoping to begin gathering necessary materials, antennas and equipment so that this project can be completed this summer, if not before. I already have some Rohn 25 sections, but will need a house bracket. A self-supporting tower of 60 to 80' would be nice! Anyone that can offer assistance is more than welcome. Simply contact me with your ideas...

PLEASE PASS ALONG TO INTERESTED PARTIES!

P.S. I have several students that are in the process of preparing for their Technician exam. Be watching (or listening) for them!

Thanks,
Prentice Tyndall
Instructor
Electronics Engineering Technology
Pitt Community College
(252) 493-7335
prentice@n4vbh.com or n4vbh@n4vbh.com



Happy Birthday

Brightleaf Amateur Radio Club members birthdays in **April**.

3	K4KBB	John McCoy
7	W1REB	Ray Black
12	W4HM	Walter Honea
16	KJ6WMV	Geraldine Sanchez
18	WB4PMQ	Macon Dail

Please let me know of any additions or corrections. - W4YDY

Well Wishes

Thoughts and Prayers go out to the following:

Charlie Wells, K4SKI
Geraldine Sanchez, KJ4DMV

Please inform Albert Sanchez, WA7FXB, albertsanchez@suddenlink.net of any changes.



Next VE Session

The next Brightleaf Amateur Radio Club VE session will be held on **April 17**. Exams will be held at St. Peter's School on 5th Street and will start promptly at 6:30 PM. Tom Parsons, **W4TEP**, 355-2815. w4tep@arrl.net. Please bring the following:

- ◆ Photo ID (drivers license)
- ◆ Original Amateur Radio License
- ◆ Copy of Amateur Radio License
- ◆ Original CSCE's
- ◆ Copy of CSCE
- ◆ Test fee is \$15.00 (\$1 increase in 2009)
- ◆ Proof of Tech Plus if before 3/21/87 and doing paper upgrade to General.

Be sure to bring ORIGINAL and COPIES of your Amateur Radio license and / or CSCE if upgrading.

NC ARES Internet

<http://www.ncarrl.org/ares/>

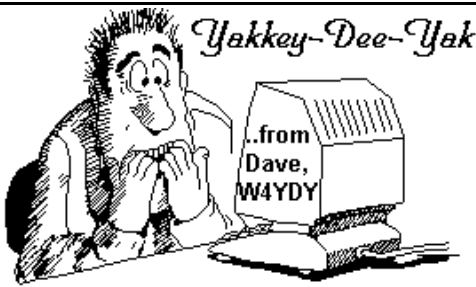


Hamfest Calendar on W4AMC.COM
<http://www.w4amc.com/hamfests.html>

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Yakkey-Dee-Yak

you can go online and renew your license in one day. Takes less than 4 minutes to go to the FCC Universal Licensing System (ULS), put in your login name and password, answer a couple of questions and you're done! The next day you are good for another 10 years. No waiting for weeks or months.

Burghardt Amateur Center in Watertown, SD has changed. Article from the ARRL Letter Online follows.

Burghardt to No Longer Sell Amateur Radio Equipment: On March 16, Jim Smith, W0MJY, owner of Burghardt Amateur Center in Watertown, South Dakota <<http://www.burghardt-amateur.com/>>, announced that the company will no longer sell Amateur Radio transceivers and accessories. The company, now called Burghardt Radio Repair, has canceled all backorders. In an e-mail, Smith blamed the current economic conditions for the change that forced the company "to re-evaluate our goals and direction. We will continue to provide radio repair service as it has become a very busy business. Our techni-

cians are very experienced and parts inventories are good. Thank you for your support in the past and we look forward to continuing our relationships through our servicing facility." Jim Smith's son, Mike Smith, KC0FTM, told the ARRL that even though the company has had to lay off employees in the past couple of months, "Burghardt will concentrate on service, just like we have been doing since 1973." Burghardt was founded in 1937 by Stan Burghardt, W0IT (SK), as Burghardt Radio Supply. He sold the company to Smith in 1982, remaining active in the company until January 2002. Burghardt passed away in 2004 at the age of 93.

Another story from the ARRL is about BPL and the Farm Recovery Act Bill. The FCC is suppose to develop a "comprehensive national broadband plan.". The ARRL has made an extensive comments about BPL problems that could come up. Page 5 of this newsletter has references to the Internet with a rundown of the Bill and the ARRL comments. Here we go again! - W4YDY

On the bottom of this page is an article about the last VE results in February. Sorry I didn't get it in the March HC. Note that the new call signs were assigned and posted on the FCC database on the Internet on the afternoon of the fourth day. It's not like the old days when there was a long wait for the mailman to bring the new license. I waited for 7 weeks and had almost forgot that I had taken the exam. Maybe it was because I was taking exams in high school and was too busy to think about Amateur Radio. Later, I understand that sometime in the 1970's, there were 3 or 4 month waits for new license and renewals. Maybe computers are faster. Now

February VE Session Results



Applicants taking the exams while VE Liaison Tom Parsons, W4TEP, left, works on paperwork. It was a full house!

Seven candidates were successful in passing Amateur Radio exams at the February 20 BARC VE session. They were Darren Sykes, **KJ4BUP**, Kinston, General and John Purifoy, **KC4LOQ**, Belhaven, Technician and General. Passing the Technician Class were Connie Sprouse, **KJ4JUD**, Belhaven, Walter Grimes, **KJ4JUF**, Washington, Jack Woods, **KJ4JUG**, Belhaven, Mike Billings, **KJ4JUH**, Greenville, and Paul Meyerer, **KJ4JUI**, Greenville. The new call signs and upgrades were posted on the FCC database and effective on February 24, 2009.

BARC congratulates all.

The VE's were VE Liaison Tom Parsons, **W4TEP**, Ted Bertrand, **KI4PWX**, Murray Merner, **K4MHM**, Richard Cox, **K4CRD**, Bob Moore, **N4USB**, Dave Langley, **W4YDY** and Linda Woods, **A14MY**. Thanks to Linda from Belhaven for her assistance.

The next regular VE session will be April 17, 2009.



VE's grading the exams. Left to right is Bob Moore, **N4USB**, Linda Woods, **A14MY**, Murray Merner, **K4MHM**, Ted Bertrand, **KI4PWX**, and Richard Cox, **K4CRD**.

The Vertical Antenna

The vertical antenna has often been described as equally ineffective in all directions, but new designs have increased the effectiveness of this much maligned signal launcher. Some attest to getting to Europe from their vehicles on a regular basis. Traps and tuners have been the mainstay of technology for the vertical. Now come even more technological advances to this antenna that many utilize today. Taking it one step further on old and new technology, the vertical rivals any other antenna. First, while the rotator has long been used to point the beam in the right direction, the rotator has been found to add to the signal strength of the vertical with air born radials. It seems that aiming the radials just right can affect the signal strength of the received signal. While the radials should not be radiating the signal, they see to guide the signal (much like the reflector of a beam) and provides an additive phase relationship to make it stronger in the desired direction. There is even a significant front-to-back ratio.

Second, it has long been known that the launch angle of the signal can affect the ability of it to go distances (i.e., inverted V). In most cases, and within common sense, the more the angle is to the horizon, the further the signal will go. This is because as the signal approaches the ionosphere, the more the angle it has, the further it will be reflected downward toward Earth. This being the case, when the

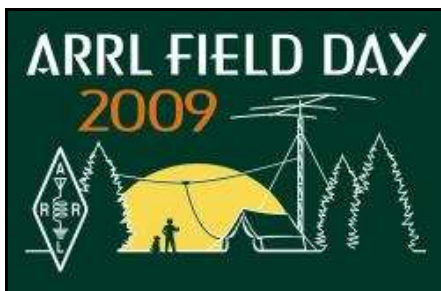
vertical is angled its signal too gets a better "bounce"

Third, and the most complex technique is what are referred to in this area of research as "Tilt and Twirl". It seems with the vertical antenna (again with elevated radials) angled and with a constant circular motion that is relative to the frequency; reception and transmission are improved greatly. (This is dangerous because of the moving radials, so be cautious.) It appears that the circular motion relative to the frequency, allows the vertical to "capture" a signal because it appears bigger to the signal and therefore give the impression of a much larger receiving area. With regard to transmission, the signal appears like a cyclone with tentacles and not only does it appear as horizontally and vertically polarized at the same time, the circular signal seems to wrap along the receiving antenna to actually have it received in many different locations on the antenna at the same time therefore multiplying the signal strength. The task of synchronizing the rpm of the antenna with the frequency is tricky; in effect, the frequency (RF in this case) can be considered the cycle on a wheel. So 7 MHz is also 7 million rpm, which is quite fast. In the same way we can have quarter wave dipoles we can reduce the speed of the rotation to a negative harmonic of the frequency. Reducing the rpm by a factor of 10K (in this case to 700 rpm) results is only a minor deterioration

of the transmitted and received signal and is still significantly better than a stationary, erect vertical. A reduction to 350 rpm (or a 20 K factor of reduction) is at the start of noticeable deterioration, but may be a more desirable speed.

The equipment to accomplish this methodology is not that unusual. One is a rotator to control the direction of the antenna. The second is a rotator to control the elevation or angle of the antenna. The third is to have a variable speed motor to turn the vertical. The control of the speed must be very precise in order to get a good match with the RF. The rotation also requires a special arrangement of the coax attached to the antenna since it must always be in constant contact despite the fact that the antenna is turning. There are some being used now but are proprietary (they are made by and for specific antenna companies), the Internet does have some build-it-yourself plans.

With the strength of our signal being in the 100th of a watt by the time it gets to our antenna, we need all the benefits of technology and science to transmit and receive the signal. This improvement in the vertical antenna may be all we need to extend our ability to communicate even better. The one disadvantage of these technological advances is that they only work on April 1 at which time it can be used in conjunction with the laser antenna. - *K4MHM*



The rumor is true that I have agreed to chair Field Day 2009. It is not true that my arm was in a sling for three weeks afterwards.

This years Field Day operations will commence at 2:00 pm on Saturday June 27 and conclude no later than 2:00 pm on Sunday June 28.

Although we don't know what the

weather will be next week, we do know that on our main day of activity (June 27) it will be hot and rain at some point during the afternoon or evening.

This year I don't expect any major changes in the organization of this event. There are always ways to improve on what we do. This is where you come in. If you have something that you have observed from prior Field Days that you think could be done differently to improve the event, please let me know. Any and all ideas are appreciated and will be taken into consideration.

Keep in mind that this event is not about me, it is for the group as a whole. I would like to see each person who is a member of BARC or PCEC out at the Field Day site and participate in this event

in every way that they want to.

This event will be discussed at each of the club meetings until the event at the end of June. There will also be opportunities to discuss it on the weekly Monday night Pitt County Emergency Communications net.

Questions, comments, suggestions and complaints may be submitted to me at kg4czv@gmail.com. If you are not a member of Pitt County Emergency Communications, and would like to be, please let me know and I will send you an application to fill out. Thanks to all of you who participate and volunteer your time to serve our community and advance the cause and reputation of amateur radio.

73, Dave Pulver, KG4CZV

ARRL comments on FCC's proposed establishment of Rural Broadband Plan


On March 10, 2009, the FCC invited comments via a Public Notice <http://hraunfoss.fcc.gov/edocs_public/attachmatch/DA-09-561A1.pdf> concerning the establishment of a comprehensive rural broadband strategy as part of the Department of Agriculture's Food, Conservation and Energy Act of 2008, commonly known as the 2008 Farm Bill. Per the American Recovery and Reinvestment Act of 2009 (Recovery Act), Congress required the FCC to develop a "comprehensive national broadband plan." According to the FCC, they, Congress, and the Secretary of Agriculture "have repeatedly recognized the importance of ensuring access to advanced telecommunications and information services to all Americans, with a special focus on rural and hard-to-serve areas." Go to <http://www.arrl.org/news/stories/2009/03/28/10731/?nc=1> to read the report.

Ham Ads

Ham Ads will be run, free of charge in Ham Chatter for three months for each renewal. Ads must be received by the last week of the month to be included in the following issue. Send ads to: **Ham Chatter, PO Box 8387, Greenville, NC 27835, ATTN: Dave Langley** or email to: barc@w4amc.com (no spaces)

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BARC Meeting Minutes - March 2009

BARC Meeting Minutes – March 10,, 2009

Call to Order: President Bob Moore, N4USB, called the meeting to order at 7:30 pm

Introductions: There were 30 members present and listed in the roll book.

Minutes: Minutes of the February 10, 2009 member meeting were approved as published in the Ham Chatter

Secretary's Report: no report

Treasurer's Report: Bonnie Pulver, KG4CZW, gave the report. Further information is available to members upon request.

Health and welfare: no report

Ham chatter: Dave Langley, W4YDY, will change the web site password for access to member rosters at the beginning of April. Members will be notified via e-mail of the new password.

Public Information: no report

Volunteer Examiners: Tom Parsons, W4TEP, reported that those passing the last tests are published along with their new call signs in the Ham Chatter.

Equipment: no report

State ARES: Bernie Nobles, WA4MOK, reported that the date for the States ARES meeting has been difficult to set due to the amount of activities in April and May. A possible date is June 6. Evacuation centers had been opened in **Cleveland County** during the last snowstorm. A 2 channel Motorola has been donated to the Eastern Branch.

Pitt County ARES: Ted Bertrand, K14PWX, discussed the upcoming Coastal Carolina Search Team exercise on Sunday, April 26. BARC volunteers will be providing communications for the tracking teams. The exercise will begin at 10am at the Bell Arthur Fire Station.

Bonnie Pulver, KG4CZW, announced the MS Walk on Saturday, May 2 on the ECU Campus in Greenville. It will start and finish at the football stadium. At least 6 operators are needed. This is an exercise where tactical call signs and emergency power will be practiced.

Dave Pulver, KG4CZV, has volunteered to be the 2009 Field Day coordinator. Anyone wishing to volunteer or having ideas on improving past Field Days please contact him.

Old Business: none

New Business: Bob Moore, N4USB, announced that 3 new committees were created at the past board meeting.

1. Public Service which is a single point interface with the public
2. Historian
3. Training and Education

Pat Williams, KG4NSC, has volunteered to head the Public Service and the Historian committees. The chair position for Training and Education is still open.

The membership voted and passed that the meetings will be started with the Pledge of Allegiance.

Discussion ensued on a raffle this year. Members voted on raffling a GPS station and having the drawing on Field Day.

The Dogwood Festival was discussed and agreed that BARC will not participate this year. Instead, the efforts of BARC members are requested to participate in a Special Event station with the Boy Scouts. A station with the reserved call sign of N4S will be set up at Camp Bonner North. The Radio merit badge has been updated and the new requirements were published in the last Ham Chatter.

The Special Olympics is asking for volunteer groups to run activities at their April 1 event. If you are interested, please contact Pat Williams, KG4NSC.

Announcements: Bob Moore, N4USB, announced a flier that he received on a Ham Radio Cruise in February 2010.

He also showed a dust cover for his radio that had his call sign embroidered on it. Price lists and business cards of the company who sells these were made available.

Byron Highland, K4BMH, announced the Down East Hamfest, in Kinston, on Sunday, April 5. He had tickets available.

50/50 Drawing Winner: Bernie Nobles, WA4MOK, \$ 29.50

Program: Dave Langley, W4YDY, discussed sending and receiving QSL cards. An informative video by Walter Cronkite was shown discussing Ham radios.

Adjourn: The meeting was adjourned at 8:55 pm

Respectfully Submitted:

Bonnie Pulver, KG4CZW

BARC Board Minutes - March 2009

Brightleaf Amateur Radio Club

Board Meeting Minutes 03/31/09

First Vice President Al Sanchez, WA7FXB, called the meeting to order at 7:30 p.m.

Board Members Present: Ted Bertrand, K14PWX, John Prokop, N8MPX, Dave Pulver, KG4CZV, Bonnie Pulver, KG4CZW

Others in Attendance: Dave Langley, W4YDY, Taylor Millar, W4WTM, Pat Williams, KG4NSC

Minutes: Approved as published in Ham Chatter

Secretary's Report: no report

Treasurer's Report: Report was made, which is available to members upon request.

Health and welfare: Gerrie Sanchez had foot surgery and is recovering well.

Equipment: no report

Ham Chatter: Dave Langley, W4YDY, reported that the thickness of the paper for use in the Ham Chatter has increased and therefore will require more postage. It is actually cheaper to use the extra postage than to purchase a ream of paper, because most of our members are receiving the Ham Chatter via

(Continued on page 7)

BARC Board Minutes - March 2009

(Continued from page 6)
email.

Publicity: no report

New Members Presented: none presented

Programs: Ted Bertrand, KI4PWX, reported that the April program will be Memories of Past Field Days which will include 2 videos. The June meeting will be preparation for Field Day.

VE: The next VE session is on April 17 at St. Peter's School.

PITT COUNTY ARES: Dave Pulver, KG4CZV, reported that on Sunday, April 26, there will be an exercise with the Coastal Carolina Search Team in Bell Arthur. ARES will provide communications during the Search and Rescue exercise. Ted Bertrand, KI4PWX, is chairing this committee.

Saturday, May 2, is the MS walk. ARES will provide operators to man the rest stops, home base, to walk with the last walker and to drive the course in case of accidents. Those interested need to Contact Dave. Members will meet at 9:15 am, with the walk officially beginning at 10:00 am. The walk is usually finished around 11:45 am. Refreshments are provided.

Old Business: A Camporee East of Washington at Camp Bonner North with the Boy Scouts of America will be held on April 25. BARC will participate.

New Business: Dave Pulver, KG4CZV, is looking for input as to suggestions for changes for this year's field day. Suggestions made by those present included organizing by tasks instead of teams; cater the dinner; and recruit more CW operators.

Announcements: Upcoming Hamfests are April 5 in Kinston and April 11 in Raleigh. The meeting was adjourned at 8:16 pm.

Respectfully Submitted:

Bonnie Pulver, KG4CZW

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email barc@w4amc.com

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NETS

VHF

- ◆ BARC Net, Mondays, 2000 on 147.09 MHz, W4GDF Repeater.
- ◆ Pitt County Emergency Communications Net, Mondays, 2100 on 147.09 MHz. (131.8 Hz Tone)
- ◆ Kinston Amateur Radio Society Net, 1,3,4 Tuesdays, 2000 hrs. on 145.47 MHz., W4OIX repeater in Kinston.
- ◆ Eastern North Carolina Traffic Net, Every night, 2030 on 146.685 MHz.

HF

- ◆ Tar Heel Emergency Communications Net on 3923 kHz Nightly 1930.

FULL LIST BACK NEXT MONTH

Pitt County Emergency Communications

The next few months will be quite busy for Pitt County Emergency Communications (PCEC). There are a couple of field practice opportunities, a general meeting and Field Day.

First, the next PCEC general meeting will be held sometime in May on either a Wednesday or Thursday night. When the date, time and place of the meeting are set, they will be announced on the Monday night net, via e-mail to current PCEC members, in Ham Chatter and the on web at www.w4amc.com. The last meeting was held February 4, 2009. If you would like a copy of the minutes from that meeting, please send me an e-mail request.

There are two opportunities to exercise your field equipment before the May issue of Ham Chatter is published. Both of these opportunities will allow operators to use their field equipment in emergency conditions. This will allow them to make sure the equipment is working properly. Tactical call signs and directed nets will also be used. Practice under these conditions will be good practice for when we will have to use the same pro-

cedures when activated by Pitt County Emergency Management.

1) Coastal Carolina Search Team.

The Coastal Carolina Search Team will be conducting an exercise in the area around the Bell Arthur Fire Station beginning at 10:00 am on Sunday, April 26, 2009. Operators will be needed to perform two tasks: (1) operate a base station from the fire station; (2) operate in the field with the search teams. Amateur radio operators will accompany each search team and provide communications back to the base during the search for mock victims.

This exercise will be held rain or shine. Last year, when PCEC participated in a similar exercise, it rained over two inches during the exercise. Therefore, operators going into the field should be prepared for all conditions and all types of terrain.

If you are interested in participat-

ing in this exercise, please contact Ted Bertrand at bertrandf@ecu.edu or Dave Pulver at kg4czv@gmail.com.

2) MS Walk

Participants in this charity event walk a course starting at the Dowdy-Ficklen Football Stadium and winding a path through the ECU campus and finishing back at the stadium.

Operators will be needed to operate a base station at the stadium, three rest stops on the route, walk with the last walker in the event and drive a SAG vehicle to drive the course and help where needed.

This event will be held rain or shine. Participating operators should arrive at Dowdy-Ficklen Stadium at 9:00 am and be prepared for all conditions.

If you are interested in participating, please contact Dave Pulver at kg4czv@gmail.com

BARC CALENDAR OF EVENTS

Apr 11..... RARSfest, Raleigh, NC
 Apr 14 **Regular Meeting**
 Apr 17 BARC VE Session
 Apr 28 **Board Meeting**
 Apr 30 **Ham Chatter Deadline**
 May 12..... **Regular Meeting**
 May 26..... **Board Meeting**
 May 30/31 CQWW WPX CW Contest
 Jun 9 **Regular Meeting**
 Jun 12 BARC VE Session

Jun 27/28..... **ARRL Field Day**
 Jun 30 **Board Meeting**
 Jul 11/12..... IARU HF World Championship
 Jul 14 **Regular Meeting**
 Jul 18 Cary Swapfest
 Jul 18/19..... CQWW VHF Contest
 July 28 **Board Meeting**
 Aug 11 **Regular Meeting**
 Aug 14 BARC VE Session
 Aug 25 **Board Meeting**

Regular Meeting - 2nd Tuesday @ 7:30 PM
Board Meeting - Last Tuesday @ 7:30 PM

BARC 2 METER NET - MONDAY NIGHTS AT 8:00 PM - 147.09 W4GDF REPEATER - 131.8 Tone
 PCEC 2 METER NET - MONDAY NIGHTS AT 9:00 PM - 147.09 W4GDF REPEATER - 131.8 Tone
 BRIGHTLEAF AMATEUR RADIO CLUB STATIONS

W 1 V O A - W 4 A M C - W 4 U H S



Next Meeting
April 14

April 2009

To:



Ham Chatter
 Brightleaf Amateur Radio Club
 PO Box 8387
 Greenville, NC 27835