

# Ham Chatter



Volume 47 Issue 7

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July 2013

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## BARC Activities at the ARRL 2013 Field Day **Next Meeting** **July 9, 2013**

Even with some rain, the attendance at the BARC Field Day was more than double 2012. The pictures show the shelters and the **KG4WEZ** RV next to the 17 element log periodic antenna at the old VOA Site C. Too bad it can't be used for Field Day in the "A" category! One end of a Field Day antenna was tied off on the tower.

BARC President Richard Campbell, **W4JNC**, is at one of the operating positions in the second picture. Below is John McCoy, **K4KBB**, and Bill Morine, **N2COP**, North Carolina ARRL Section Manager. - (*KG4WEZ photos*)

There were 124 CW contacts, 27 digital contacts and 428 SSB contact made by operators.

Some of the attendees were Steve Goodman, **W4UCA**, Paul, **KS4YF**, and Maryanne Fletcher, Richard Campbell, **W4JNC**, Thomas Styron, **KB7L**, Josh Steele, **KB3VKH**, Gerry Clayton, **K4IDD**, John McCoy, **K4KBB**, Peter, **KG4WEZ**, and Ilene Van Houten, Doug Ferris, **K4ROK**, Bill Dawson, **WA4SLC**, Ervs, **KK4HHY**, and Yumi Davis and two sons, Terry Monday, **K4ZYD**, Billy Elks, **KC4HHW**, Joe Jeansonne, **KB4JOE**, (from Pitt Community College), Brad Brechtelsbauer, **KG4ZVM**, John Grant, **AF4MY**, new ham Steve Horne, II, **KV4OX**, Bill Morine, **N2COP**, North Carolina ARRL Section Manager, and Susan Langley-Jones, **WA4AKB**, ARRL NC Section webmaster.



*The Brightleaf Amateur Radio Club will have its regular meeting on Tuesday, July, 9 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 July 30 at 7:30 PM at VFW Post Home 7032 on 1108 Mumford Road in Greenville. All members invited.*

### June BARC VE Session Results

All six applicants passed the Technician Class exams or more at the June 18 BARC VE session. One passed the Technician and General and another passed the Technician, General and Amateur Extra Class exams. The FCC assigned the new call signs on June 25, 2013.

Steve Horne, II, **KV4OX**, Greenville, passed the Technician, General and Amateur Extra Class exams and was assigned a Group B call sign. Matthew Rucker, **KK4SFH**, Ayden, passed the Technician and General exams. William Rucker, **KK4SFF**, Ayden, Lewanna Locke, **KK4SFG**, Greenville, Joseph Towell, **KK4SFE**, Tarboro, and Julia White, Gaston, **KK4SFD**, all passed the Technician. Julia is 13 years old and her parents were really happy for her. They had a long ride from up near the Virginia state line.

The VE's that attended were Acting VE Liaison Thomas Styron, **KB7L**, Dan Wallace, **K4HMY**, Tom McLaughlin, **KE4NQP**, James Lewis, **AK4MU**, Gerry Clayton, **K4IDD**, and Dave Langley, **W4YDY**.

The next regular VE session is scheduled for August 20, 2013.

### The CY0P DXpedition Update

The CY0P DXpedition team is pleased to announce that our website is up and operational. This site should be familiar as it is the same as we have used on the previous Sable DXpeditions.

<[www.cy0dxpedition.com](http://www.cy0dxpedition.com)> Updates will be posted as needed.



**Rick, AI5P**

**R i c k** Harris, AI5P, has been added to the team. He has operated in over 70 countries and last year, he finished transmitting from all 3077 countries in the United States. He received Award # 14.

The team just purchased a large quantity of freeze-dried meals for the DXpedition. In addition, the team added a new, five-element 10-meter yagi to the antenna inventory. This antenna will be assembled and tested before shipment to Halifax, Nova Scotia. The team is making a strong commitment to working as many Asian and Pacific area DX'ers as possible. Thanks. Murray Adams, WA4DAN, Gary Bartlett, VE1RGB, Rick Harris, AI5P.



**Happy Birthday**

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

- 8 KB3VKH Joshua Steele
- 12 KG4CZW Bonnie Pulver
- 13 N4PKW Rod Thompson
- 13 K4SKI Charlie Wells
- 24 WA4MOK Bernie Nobles
- 29 W4YDY Dave Langley

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

### The End of the Commercial Telegraph? Please QRS

Worldwide news media for several days have been proclaiming the impending demise of telegram in India next month. Unfortunately various reporters and news outlets seem to have conflated the words "telegram" and "telegraph," with the result that many Morse code enthusiasts in the ham radio community have begun lamenting the occasion as the end of an era and perhaps even as another nail in CW's coffin. Here's what's really happening. Citing mounting financial losses, India's state-owned telecommunications outfit, Bharat Sanchar Nigam Limited (BSNL), is ending its telegram service in mid-July, but other telegram services in India will continue. Just the state-run service is calling it quits. It's been many years since telegraphy was used to convey the content of a telegram in India. Today, telegrams at BSNL are routed to their destinations via the Web using computer software — essentially as e-mail. Apparently for nostalgia's sake, however, when the last BSNL telegram in India is sent on July 15, the service will employ technology similar to that first used by the service when it began operation in 1850. British inventor and physician William O'Shaughnessy introduced telegram service in India that year, but he used a telegraphy code different from Morse's to send the message. - *via ARRL.ORG*



### Well Wishes

Thoughts and Prayers go out to the following:

**Charlie Wells, K4SKI**

**Tom Parsons, W4TEP**

**Stan Barney, KJ4GDR**



Please inform **John McCoy, K4KBB, k4kbb** @ [earthlink.net](mailto:earthlink.net) of any changes.

### Next VE Session

The next Brightleaf Amateur Radio Club VE session will be held **Tuesday, August 20** at the VFW Post Home 7032 on 1108 Mumford Road and will start promptly at 6:30 PM. Ted Bertrand, **KI4PWX**, 756-3734. [bertrandf@ecu.edu](mailto:bertrandf@ecu.edu). Please bring the following **required**:

- ◆ **Photo ID** (drivers license)
- ◆ **Original** Amateur Radio License
- ◆ **Copy** of Amateur Radio License
- ◆ **Original** CSCE's
- ◆ **Copy** of CSCE
- ◆ Test fee is \$15.00 .
- ◆ Proof of Tech Plus if before 3/21/87 and doing paper upgrade to General.
- ◆ SS Number will be needed if you don't have an FRN number.

Go to <<http://www.w4amc.com/barcinfo.html#VE>> for more information.

### NC ARES Internet

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

**Pitt County ARES**

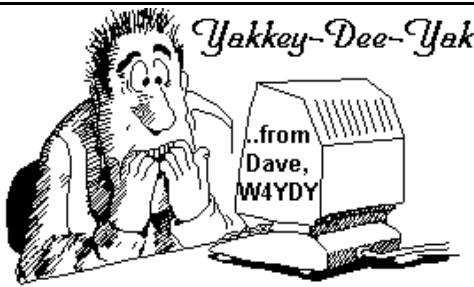
<http://www.pittares.com/>



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*Yakkey-Dee-Yak*

the 13 Colonies Special Event. A picture of the award can be seen at the special event web site <<http://www.13colonies.info/TopOp.htm>>.

I'm sure that the BARC members would like to have one of the regular certificates. To qualify for one, all you have to do is work at least one special event station. Complete details are on their web site.

The 13 Colonies Special Event is running the first week of July. One of the awards given for the top operator is a Memorial Award given in memory of Paul W. Copeland, **K4KCS** (SK), former BARC member. Starting with 2012's special event, an award plaque was instituted, for Colony Operators only, in his memory.

Paul passed away August 2011. A couple of articles about Paul is in the September 2011 issue of Ham Chatter <<http://www.w4amc.com/hc/pdf/hc1109>>. pdf. Paul was one of the event operators in

From the reports I received, looks like everyone that participated at the BARC Field Day had a good time. There were some there that experienced their first Field Day and hopefully they will be there again next year and do some more operating. - **W4YDY**



### 13 Colonies Special Event

The annual 13 Colonies Special Event will take place during the first week of July, with participating 13 colonies' stations on the air from 1300 UTC July 1 until 0400 UTC July 6. Event sponsors say at least two special event stations will operate from each colony state. The theme for 2014 is "Banners of the Revolution," and the certificate — available to all participants regardless of the number of stations worked — will reflect that theme. Those working all 13 colonies qualify for a "Clean Sweep" certificate designation, and a special endorsement will be attached for stations working WM3PEN in Philadelphia. The suggested exchange is call sign, name, signal report and state/province/country. The event's sponsors report that more than 62,000 contacts were logged in last year's 13 Colonies Special Event. More information is available on the Web at <<http://www.13colonies.info/>>.



Paul Fletcher, KS4YF and John Grant, AF4MY



Gerry Clayton, K4IDD



Three stations plus GOTA (Get On The Air)



Two new engine generators - (KG4WEZ photos)

BARC  
Field  
Day

## Q & A with NHC - Julio Ripoll



Julio Ripoll  
Assistant Coordinator of Amateur Radio  
(WX4NHC)  
National Hurricane Center

By Dennis Feltgen  
Public Affairs Officer  
NOAA Communications & External Affairs  
National Hurricane Center

### **I am betting that most folks don't know there is a ham radio station at the National Hurricane Center.**

That's true, unless you're an amateur radio operator. We're here since 1980. It began when (NHC Director) Dr. Neal Frank asked us to put up a station at NHC to talk to the Caribbean Islands because they'd lose communications.

### **Was the intent to establish communications during a hurricane or to gain additional information?**

He wanted to be able to talk the islands when they lost their landlines and teletypes. When the islands were affected and local airport or Meteorology stations were closed down just before a hurricane, NHC would have no information coming back. So we filled in that link that would go down during hurricanes. We began with the Caribbean Islands, and then expanded to all of the Atlantic and Gulf and as far as the East Pacific.

### **You must be very proud of this.**

My entire group is very proud. They are all volunteers; some have been with us for more than 30 years.

### **Is it a basic requirement for a ham to be a bit of a weather fanatic?**

No, it's not. We have expanded from using only ham radio. When the Internet came on

line, we established a website where you can fill in a weather report and send it directly to us at NHC. So, you don't have to be a ham radio operator to send in your surface or eyewitness reports.

### **How did you become a ham?**

It was in high school. My then future father-in-law had a shortwave radio receiver. One day he was listening to some broadcast stations, and I started fooling around with the dials and happened to come across some people talking from the Midwest down to Florida. And I thought wow - these people are talking with each other on a radio! Then I found out there was a ham radio class at my high school, this is back in 1977. From that point on, I just got into all of the aspects of ham radio communications. I was hooked.

### **What was the first hurricane experience for you?**

We had Hurricane David in 1979 brushing South Florida. I wasn't involved in a lot of public service back then, but the Red Cross asked if I could use my ham radio to do a damage survey. So I got involved in what was then called "civil defense". We got in the car, drove around, and relayed damage reports over ham radio to the local EOC. It was the next year that NHC contacted me.

### **You were perfect for the job!**

I was a student at the University of Miami across the street from where the hurricane center was located at the time. Dr. Neal Frank said I was the ideal candidate — I live next door at the UM dorms and I have a ham radio station. I was the president of the UM Ham Radio Club. So I would borrow the radio from the UM club station, put it in a cardboard box, walk across the street and set it up at one of the Hurricane Specialist's desk. Most ham radio operators understand how to use what they call "go kits". They put portable radios together with batteries and wire antennas to use during an emergency.

### **The technology between 1980 and 2013 has to be like night and day.**

The core aspect of ham radio is the same that's it's been for the past 100 years. We bounce high-frequency radio waves off of the ionosphere back down to the earth, like a shining a flashlight into a mirror. But now, some of our radios are integrated

with, and connected to, the Internet. We can go from a radio in a car to a repeater that has higher power and a big antenna, and then the audio goes through the Internet and comes back over the radio on the other end so that we can get the report over a computer or another radio.

### **When does the ham radio team spin up operations?**

Whenever there is hurricane threatening landfall within 300 miles of land.

### **What's the most unusual situation you've had at NHC as a ham?**

I would say Hurricane Georges in 1998. It had come off of the coast of Haiti at night, gong over the pass to the east of Cuba. At that time, Cuba did not allow air reconnaissance to go over the island. The satellite imagery showed that Georges' eye had clouded over, and we did not have any reliable meteorological surface data to know where the center of the hurricane was at that time. Hurricane specialist Lixion Avila came into the radio room and said he wanted a ham on the most eastern point of Cuba. That was a pretty tall order, but I got on the radio frequency they were using for the local civil defense there, announced we were from the hurricane center, and looking for someone on the easternmost point. And lo and behold, there as a ham in Punto Este on the most eastern point of Cuba! I asked him for a weather report, and you could hear the emotion in his voice. He said he was standing on a chair with two feet of water in his house, and as his signal faded, you could hear him shout into the mic on his last transmission "del sur, del sur"! — the wind was from the south. Lixion ran out of the room, now able to fix the point of the hurricane over Cuba, and it shifted the entire track north, all thanks to that ham radio report.

### **When you not being a ham, what is your day job?**


I am an architect specializing in health care design. For the past 19 years, I have been one of the architects for the University of Miami's School of Medicine and for the Bascom Palmer Eye Institute. One of my specialties is ophthalmology design. - via <http://www.nhc.noaa.gov>

# 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)  
*NOTE: Commercial rates on page 7.*

**For Sale: Reduced Price!** Kenwood TS-850 transceiver with: internal tuner, CW filters, mike, manual, power wire and box: \$650.00  
Murray, **K4MHM**: mmmm0320@gmail.com

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Mike Langley  
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## Ham Ads are free for individuals.

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# BARC Meeting Minutes - June 2013

BARC Meeting Minutes

**Date:** 6.11.13

**Call to Order:** 7:30 pm

There were 20 persons present as recorded in the sign in book.

**Minutes:** Approved as published in Ham Chatter.

**Secretary's Report:** Ted Bertrand, **KI4PWX**, had nothing to report.

**Treasurer's Report:** Gerry Clayton, **K4IDD**, gave the report.

**Equipment:** Ted Bertrand, **KI4PWX**, had nothing to report. BARC is looking for a new equipment manager. Contact Richard Campbell, **W4JNC**, if interested.

**VE:** Ted Bertrand, **KI4PWX**, reported that the next VE session will be June 18 at 6:30 pm at the VFW Post on Mumford Road. See [w4amc.com](http://w4amc.com) for detail.

**Health and Welfare:** John McCoy, **K4KBB**, had nothing to report.

**Ham Chatter:** Dave Langley, **W4YDY**, had nothing to report.

**Publicity:** Taylor Miller, **W4WTM**, reported that announcements for the club meeting and VE session would run in the Daily Reflector.

**Pitt County ARES:** Bill Dawson, **WA4SLC**, reminded all that hurricane season was upon us and consider helping out with ARES should the need arise.

**Public Service:** Nothing reported

**Future Programs:** Nothing reported

**Old Business:** None

**New Business:** The membership approved the purchase of two 2000 watt portable generators for use at Field Day, other events and emergencies. This is part of an effort by the club to become self-sufficient in terms of equipment and other materials to host Field Day and other events.

**Announcements:** None

**50/50 Drawing Winner:** John McCoy, **K4KBB**

**Program:** Discussion of the Field Day Planning was lead by Richard Campbell, **W4JNC**.

**Adjournment:** 8:30 pm  
Respectfully Submitted by

*Ted Bertrand, KI4PWX*

# BARC Board Minutes - June 2013

June 25 2013 BARC Board Meeting

**Call to Order:** 6 members were present. Richard Campbell, **W4JNC\***, Thomas Styron, **KB7L\***, Byron Highland, **K4BMH\***, John McCoy, **K4KBB\***, Gerry Clayton, **K4IDD\***, and Dave Langley, **W4YDY**. \*Board members.

**Secretaries Report:** Secretary was absent no report given.

**Treasurer's Report:** Gerry Clayton, **K4IDD**, reported that the 2 Yamaha Generators and the 5' foot folding tables had been paid for.

**Equipment Report:** John McCoy, **K4KBB**, will check on purchasing a gas can for the Yamaha Generators. The club also needs computer cables for Field Day no action taken on this item.

**VE Session:** Dave Langley, **W4YDY**, reported that six people all non hams passed their exams 4 Tech 1 General and 1 Extra coming from June 18 session. Next VE Session August 20 2013 @ VFW Hut 6:30 PM.

**Health and Welfare:** John McCoy, **K4KBB**, had nothing to report.

**Ham Chatter:** Dave Langley, **W4YDY**, had nothing to report.

**Publicity:** Dave Langley, **W4YDY**, on behalf of Taylor Miller, **W4WTM** reported that the Announcement for the next club meeting would be in the Daily Reflector the Sunday before the meeting on Tuesday.

**Future Programs:** TBA

**Old Business:** No old business to report.

**New Business:** Thomas Styron, **KB7L**, reported that the operators tables are started to come apart and the club might want to look it to replaced them Thomas also suggest that we put Pulleys on both towers at Site C to raise and lower antennas. We should discuss these items at the next regular club meeting.

Respectfully submitted by

*Richard Campbell, W4JNC*

## IARU Monitors Report Intruders on Several HF Bands

The International Amateur Radio Union Monitoring System (IARUMS) continues to observe and log unauthorized operations that intrude on Amateur Radio allocations. For example, the May 2013 IARUMS Region 1 (Europe) Newsletter reports an over-the-horizon (OTH) radar operating in Iran daily on 10 meters (26 to 30 MHz), transmitting bursts with 307 and 870 sweeps per second, 60 kHz wide and often jumping, covering 700 kHz and more. IARUMS Region 3 (Oceania) volunteers also have reported hearing the OTH interference from Iran. Regulatory agencies in Switzerland and Germany have filed complaints without effect. IARUMS volunteers in Region 1 also report daily BPSK military traffic from

Ukraine on 15 meters (21,058, 21,060 and 21,062 kHz). German authorities have formally complained. DGØJBJ reports having observed 11 OTH radars on 20 meters, 65 OTH radars on 15 meters and 30 OTH radars on 10 meters — not including the OTH radars from Iran. Other reported intruders include a Russia Air Force signal on 3531.0 kHz, identifying as REA4 (A1A) at 2040 UTC. IARUMS Region 3 volunteers further report ongoing “illegal use of 10 meters for local short-range communications in a number of Asian countries.” Radio amateurs in IARU Region 2 (the Americas) may report suspected intruders on exclusive Amateur Radio allocations to the ARRL. - *via ARRL.ORG.*

## Commercial Ad Rates

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**ATTN: Dave Langley, W4YDY** or  
email [barc@w4amc.com](mailto:barc@w4amc.com)

Help support *Ham Chatter* and the club.

**Donations accepted!**

## NETS

### VHF

- ◆ BARC Net, Mondays, 2000 on 147.09 MHz, W4GDF Repeater.
- ◆ Pitt County Emergency Communications Net, Mondays, 2030 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.
- ◆ Wilson Amateur Radio Club Net, Thursdays @ 2000 on 146.76 MHz.
- ◆ Piedmont Coastal Traffic Net, Nightly 2030 on 146.88 MHz.
- ◆ Newport WFO SKYWARN Net, Tuesday, 2100 on 145.21 MHz
- ◆ Carteret County ARS (CCARS) Emergency Net, Tuesdays, 1930 on the Newport 145.45 (-) MHz.
- ◆ Coastal Emergency Linking Net, Wednesday, 2100 ET on Ahoskie 145.13, Buxton 145.15, Columbia 146.835 & 443.30, Elizabeth City 146.655, Greenville, 145.35, Hertford 147.33, Williamston 145.41 & 444.25

### HF

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

### NTS CW Nets

- ◆ 3.571 2000 hours, slow speed (5-8 wpm) Carolinas Slow Net
- ◆ 3.573 1900 hours, high speed (20 wpm)
- ◆ 3.573 2200 hours, slow speed (12-14 wpm), South Carolina/North Carolina

### Pitt County Repeater Association

<http://www.pcra.us/>

## FCC Targets Online Retailer in Citation



June 7, 2013 — The FCC this week cited an Omaha, Nebraska-based online retailer for marketing unauthorized RF devices — including 10 and 12 meter amplifiers capable of putting out up to 8200 W — in violation of FCC rules. An FCC Citation and Order dated June 6 orders Enterprise Group Inc, doing business as ePowerAmps, to immediately stop advertising, marketing and selling “all unauthorized radio frequency devices, specifically modified Citizens Band (CB) radios and non-certified radio frequency (RF) amplifiers for use in the 10-12 meter bands.” The FCC said continuing to engage in such conduct could subject the retailer to substantial fines and seizure of equipment.

Responding to the citation’s release, ARRL CEO David Sumner, K1ZZ, said it’s reassuring to see evidence of the FCC’s continuing commitment to enforcement relating to Amateur Radio. “It is gratifying to see the Commission’s Enforcement Bureau taking action against flagrant violators,” he commented. The Amateur Radio community has long complained about interference, mainly on 10 meters, from unlicensed CBers and and so-called “HFers.” The FCC once banned the sale of amplifiers capable of operating above 24 MHz, a move that some considered misguided and punitive to Amateur Radio licensees.

The FCC C&O described ePowerAmps as “an online retailer of CB and amateur radios, linear amplifiers, and radio accessories, which specializes in the ‘customization of radios.’” Responding in April to a complaint, an agent from the Commission’s Kansas City office observed on ePowerAmps’ website “illegally modified CB radios being offered for sale in the United States.” The FCC said the retailer also offered offer various modifications and upgrades for 35 makes and models of FCC-certified CB radios. These included swapping out the original final amplifier for a higher-powered replacement. Other mods expanded the authorized frequency range of a CB to include what it called the “26 MHz range and the upper 27 MHz range.” Linear amplifiers offered for sale varied between 120 W and 8200 W and ranged in price from around \$140 to nearly \$2600, the Commission said, adding none of the 50 linears offered for sale appear to have FCC certification.

The FCC called on ePowerAmps to confirm “in writing” that it has stopped marketing unauthorized RF devices and to provide certain information to the commission within 30 days of the C&O. The information request, contained in a non-public appendix to the C&O, seeks to determine ePowerAmps’ “external RF power amplifier suppliers and sales, as well as the disposition of its illegal inventory,” the Commission said. The FCC gave the retailer 30 days to respond to the C&O and even to challenge the FCC’s findings. - *via ARRL.ORG.*

# BARC CALENDAR OF EVENTS

Jul 9 . . . . .	<b>Regular Meeting</b>	Sept 28/29 . . . . .	CQ WW RTTY Contest
Jul 13/14. . . . .	IARU HF World Championship	Oct 8. . . . .	<b>Regular Meeting</b>
Jul 20 . . . . .	<b>Cary Hamfest*</b>	Oct 13. . . . .	<b>Maysville Hamfest*</b>
Jul 20/21. . . . .	CQ WW VHF Contest	Oct 15. . . . .	BARC <b>VE</b> Session – <b>TUESDAY</b>
Jul 30 . . . . .	<b>Board Meeting</b>	Oct 26/27 . . . . .	CQ WW SSB DX Contest
Aug 3 . . . . .	<b>HAM CHATTER DEADLINE</b>	Oct 29. . . . .	<b>Board Meeting</b>
Aug 13 . . . . .	<b>Regular Meeting</b>	Nov 2 . . . . .	<b>HAM CHATTER DEADLINE</b>
Aug 20 . . . . .	BARC <b>VE</b> Session – <b>TUESDAY</b>	Nov 2/3. . . . .	ARRL CW Sweepstakes
Aug 27 . . . . .	<b>Board Meeting</b>	Nov 12 . . . . .	<b>Regular Meeting</b>
Aug 31 . . . . .	<b>HAM CHATTER DEADLINE</b>	Nov 16/17. . . . .	ARRL SSB Sweepstakes
Aug 31/Sep 1 . . . . .	<b>Shelby Hamfest*</b>	Nov 17 . . . . .	<b>JARSFEST</b> - Benson*
Sep 10 . . . . .	<b>Regular Meeting</b>	Nov 23/24. . . . .	CQ WW CW DX Contest
Sep 14 . . . . .	<b>Virginia Beach Hamfest*</b>	Nov 26 . . . . .	<b>Board Meeting</b>
Sep 14/15. . . . .	ARRL Sept. VHF Contest		
Sep 24. . . . .	<b>Board Meeting</b>		
Sept 28. . . . .	<b>HAM CHATTER DEADLINE</b>		

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

BARC 2 METER NET - MONDAY NIGHTS AT 8:00 PM - 147.09 W4GDF REPEATER - 131.8 Tone  
PCEC 2 METER NET - MONDAY NIGHTS AT 8:30 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**



**July 2013  
Next Meeting  
July 9**

To:



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