

# Ham Chatter



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August 2016

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## Editorial: Radiosport vs. Pokémon GO™

Though it has only been 2 weeks since Pokémon GO™ was introduced, it is already a social phenomenon. The augmented-reality video game, developed by Niantic for your smartphone, has received praise for luring gamers outside of their homes and into the streets to play. Maybe you count yourself among the players. Or maybe you are feeling a little left out because you are not playing the game, or have vowed never to play the game, or (not admittedly) don't get it. Well, if you are an Amateur Radio operator (or "ham"), this Pokémon GO article is for you!

It should come as no surprise that ham radio operators are drawing comparisons between Pokémon GO and Amateur Radiosport. If you have not been following the Pokémon GO hype, though, you are going to need a small amount of background about the game. Playing requires downloading the free Pokémon GO app for your iOS or Android device. Players are called "Trainers," and walk around their neighborhoods using their smartphones to discover and capture small creatures, called Pokémons. The app's integration with Google Maps data makes real-life associations with your surrounding environment. Trainers (players) visit PokéStops, which are local landmarks, to stock up on virtual supplies needed to play the game. Achievements are earned by advancing levels, by earning badges, and through team challenges at virtual Pokémon Gyms.

All of this happens while walking around with your head in your smartphone screen, which is a skill already mastered by most

smartphone users. Okay, now you know enough about Pokémon GO to sound like an expert at the office water cooler.

Now let's compare the video game to ham radio. Hams operate their radio equipment from fixed and portable locations; from home and on-the-go. While ham radio itself is not a game, it is fun. In the findings of a study completed by Readex Research for ARRL in 2015, the most cited reason for becoming involved with Amateur Radio is "fun." Survey respondents could choose multiple reasons for becoming a ham, and the runners up included, "to expand interests in electronics, communications, or other technologies," and "to support communications during disasters and other emergencies." So, in a nutshell, people become ham radio operators to advance their interests in (1) technology, (2) public service, and (3) to have fun!

One particular interest area in ham radio is Amateur Radiosport — an overarching term for on-air ham radio contests and operating events that will earn you various achievements and awards. Take, for instance, ARRL's year-long National Parks on the Air (NPOTA) operating event, which celebrates the centennial of the US National Park Service. NPOTA encourages hams to operate their portable radios from official park locations. Hams who are park "Activators" are sought by park "Chasers," who are other hams trying to make radio contact with activated parks. Sounds vaguely familiar, huh? Pokémon GO has trainers chasing and capturing Pokémons; and NPOTA has chasers collecting national park activations.

Read the rest of the article on ARRL.com (<http://bit.ly/2aSWK7s>)

## Next Meeting Aug 9, 2016

The Brightleaf Amateur Radio Club will have its next meeting on Tuesday, August 9 at 7:30 PM at VFW Post Home 7032 on 1108 Mumford Road in Greenville. The program will be by **Mike Monteith, KM4OLT**, BARC Webmaster. He will have an overview about the new online Discussion Forum and updates about the new W4AMC.COM web site.

All members, families and guests are invited to attend.



## BARC Board Meeting

**The next board meeting will be Tuesday, Aug 9th at 7:30 PM at the Offices of Monday & Monday, (CPA), Suite D, East Victoria Court. All members invited.**

## Hurricane Watch Net to Activate

The Hurricane Watch Net (HWN) will activate Wednesday, August 3, at 1500 UTC in response to Tropical Storm Earl, which is forecast to become a hurricane later today. As of 1200 UTC, Earl was located 120 miles east of Roatan, Honduras, and about 265 east-southeast of Belize City, Belize, with sustained winds of 70 mph. Watches and warnings are in effect.

Due to poor propagation on 20 meters due to an ongoing geomagnetic storm, the Hurricane Watch Net will operate simultaneously on both its primary frequency of 14.325 MHz and its backup frequency of 7.268 MHz until Earl is no longer a threat.

IARU Region 2 Area C Emergency Coordinator Area C Arnie Coro, CO2KK, has requested that radio amateur keep free the following fre-



## Happy Birthday

Brightleaf Amateur Radio Club members birthdays in August.

5	KM4JEG	Robert Freuler
15	KB4JOE	Joseph Jeansonne
17	W4WTM	Taylor Millar
18	WA4BJP	Bobby Pace
19	KS4YF	Paul Fletcher
20	KV4CN	David LeMoine
25	K4GOE	Al Mullis
26	KM4DXX	Jay Oswald
26	N2BVN	Elizabetha Schultz

## Well Wishes

Thoughts and Prayers go out to the following:

Charlie Wells, K4SKI

Please inform Gerry Clayton, K4IDD, gclayton4 @ suddenlink.net of any changes.



## Next VE Session

The next Brightleaf Amateur Radio Club VE session will be held **Tuesday, Aug 16, 2016** at the VFW Post Home 7032 on 1108 Mumford Road and will start promptly at 6:30 PM. Email Steve Horne II, KB5B, VE Liaison at [ve @ w4amc.com](mailto:ve @ w4amc.com). Walk-ins welcome. 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. \*

\* More info at <<http://www.w4amc.com/barcinfo.html#VE>>.

## NC ARES Internet

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

**Pitt County ARES**

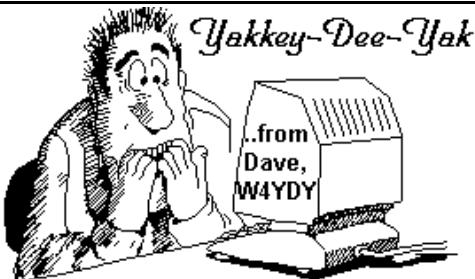
EC needed!



## In This Issue

<b>Pokémon GO</b>	1
<b>Hurricane Watch Net</b>	2
<b>Yakkey-Dee-Yak from Dave</b>	3
<b>President's Corner</b>	4
<b>\$25,000 Fine</b>	6
<b>Space Jam</b>	8
<b>Meeting Minutes</b>	8
<b>Jamming Intruders</b>	9

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## EMAIL ADDRESSES?

Each month when I send email to members, some of them bounce back as bad emails or your mailbox is full. If you are on the roster and have an email address listed, you should receive an email from me at least once a month. If you don't, please check the roster to be sure the correct email address is listed.

## WHAT'S NEW!

When the BARC web page ([w4amc.com](http://w4amc.com)) is updated, the update is listed on the What's New page with the latest update at the top of the list. All pages updated are listed and usually the reason for the update is included.

## 2017 BARC Officers

It's time for new officers to be nominated for 2017. Please step up and volunteer for a position you might be interested in. No one stepped up last year for the treasurer position so Jeff, **K4DKW**, has been doing double duty and club president and treasurer. Terms are for a maximum of two years. You will gain much satisfaction by learning more about Amateur Radio and working with the members of the club.

There are other positions that are not elected but appointed and terms are not fixed. I can attest to that - 18 years as Ham Chatter editor and web site editor since 1996. Mike Monteith, **KM4OLT**, is in the

process of designing a new web site and he will be talking about some of the features at the August meeting. Go to <http://w4amc.com/Joomla/> for a preview.

## Computer Crash!!

If you have never had a computer crash and lost some data, you are lucky because in time something will happen that is not good. I've had a few but with backups, I can usually get 95 to 99 percent of my data back. When a hard drive fails, it just takes a few days to get all the programs loaded on the new hard drive again and matched up with the data. The computer I use for the BARC roster and keeping up with the membership had a hard drive failure so I had to start over with a new hard drive. It was also used for Ham Chatter when I was editor and still used for the [w4amc.com](http://w4amc.com) web site for updates until Mike,

**KM4OLT**, finishes with his design of the new site. The under construction site can be seen at [w4amc.com/Joomla/](http://w4amc.com/Joomla/). Guess the computer did pretty good because it is 10 years old. It still has the Windows XP operating system so it took a little time getting all the updates installed, many from the Internet.

The programs I used for Ham Chatter and still use for web editing are over 15 years old and will not work on the newer Windows systems. Microsoft made sure they wouldn't work with new Window operating systems so they could sell new versions for big bucks and make more

money.

My backup on the XP computer was about 6 months old but the only data I will have to update is the one I use for the BARC membership. I just have to add the new members that joined the club since January. The correct list is on the latest roster, but I will be emailing those members to get their birthday, month and day only for Ham Chatter. Don't need the year. I do remember a couple but not all. As stated at the beginning of this column, please check the roster and confirm that your information is correct.

1001001, Dave, **W4YDY**

## New Email addresses at @w4amc.com

New email addresses using the **w4amc.com** domain have been added by Mike Monteith, **KM4OLT**, web site editor.

Dave Langley, **W4YDY**, VE Liaison can be reached by using **ve @w4amc.com**.

Joe Jeansonne, **KB4JOE**, Ham Chatter editor can be reached by using **hamchatter @w4amc.com**. The old **barc @w4amc.com** now goes to Mike Monteith, **KM4OLT**.

It did go to **W4YDY** when he was web site editor. The **president @w4amc.com** still goes to Jeff, **K4DKW**. (Remove the space before the @ sign in the addresses.)

## President's Corner—Jeffrey Meyer

August 2016 Greetings from the Prez/Treaz.

Many of us have been busy working behind the scenes to do the following, in between everything else, of course including the following:

### 1. \*\*\*VITALLY IMPORTANT AUGUST 6, 2016\*\*\*

I have been working with Peter to develop a closer working relationship with The Oakwood School. Getting their ham station fully operational, sponsoring the Oakwood School N4OAK Radio Club, as well as using their facilities for classes, training and as a local flagship station are important to help grow both of our clubs (especially since some of us are new hams, don't have a station to use and could really use an Elmer, etc.). From my perspective, it's really a win-win and an opportunity that we really shouldn't pass up.

To get the flagship N4OAK station up and running, we have **tentatively** scheduled up a "all-hands-on-deck day for August 6, 2016 at the Oakwood School, for club members to help both inventory and test the existing equipment, label & test all the feedlines, fix the antenna situation and potentially add a dipole to the mix. It's very important to have this station fully operational, before the school year starts, to enable and schedule an open house for both clubs, generate mutual club interest, facilitate/schedule classes and coordinate advance publicity.

**Please keep this date open**, so we can hit the ground running. The more that help, the easier for all and the more we accomplish! If the date has to change, we'll let you know.

2. Peter has been cleaning, testing and modifying the **ARES trailer**, so we can take our trailer station on the road to do ham radio portable/remote demonstrations. There will be some discussion at the August meeting about some needed power upgrades (batteries, power poles, power distribution panel, etc.), painting of the roof with reflective paint, etc. Kudos to **Peter** working on this in the real oppressive Summer heat (107-112 degree heat index)!  
Ugh.....

3. **Mike Monteith** has transitioned the website from **Dave Pulver** and been upgrading it as well too. Getting the website moved and the modifications he's made are pretty amazing. He will be talking about that and the online discussion forum, as the program for the August meeting. I mentioned to him that it would be nice to have a method for club members to interact outside the club

## President's Corner—Jeffrey Meyer

meetings such as a forum for broadcasting needs for help, topics for club members so we could share our expertise, help each other and get closer as a group. Check it out the website before the meeting. **We want to hear from you and make it an even better club asset!**

4. I've personally reached out to the **Boy outs, Girl Scouts, Go Science, A Time for Science and Handihams** to gauge any interest in getting together to gauge local groups for ham radio demos in the upcoming months.
5. **Terry** (and others) are planning to offer **Tech classes** again, during the five Saturdays in October (1<sup>st</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup> & 29<sup>th</sup>) with the location yet to be finalized. (Oakwood or the Library, not absolutely sure yet)
6. Officer changes: **Pat Williams** has generously offered to serve the BA officer for both Publicity and Public Service. We're glad he stepped forward!
7. I'm still building the **club radio library**. If you have any good ham related books and you're willing to part with them, scoot 'em to me.
8. We also need to start looking to decide on the **BARC officers for 2017**. If you are interested, please let us know as those need to be finalized soon.

### \* \* \* \* \* **SPECIAL NOTE TWO** \* \* \* \* \*

If you have any personal or professional contacts with the local school teachers (STEM teachers especially), Boy or Girl Scouts, visually or hearing Impaired individuals/clubs, etc. please share them with me via e-mail [jeffreymeyer55@gmail.com](mailto:jeffreymeyer55@gmail.com). Any contact you have could be an eventual BARC outreach opportunity.

My plans are to hit the road with the ARES trailer and bring ham radio to classrooms, clubs, jamborees and to the visually/hearing impaired, in order to expose them to ham radio, expand their horizons and invite them to become members.

No group is too small or too large to become "Radio Active"!

## FCC Levies \$25,000 Fine on California Radio Amateur for Deliberate Interference

The FCC has imposed a \$25,000 fine on William F. Crowell, W6WBJ (ex-N6AYJ), of Diamond Spring, California, for intentionally interfering with the transmissions of other radio amateurs and transmitting prohibited communications, including music. The penalty represents the full amount proposed in a December 2015 Notice of Apparent Liability for Forfeiture (NAL), and, the FCC said in a lengthy August 2 Forfeiture Order (FO), "is based on the full base forfeiture amount as well as an upward adjustment reflecting Mr Crowell's decision to continue his misconduct after being warned that his actions violated the Communications Act and the Commission's rules."

"Mr Crowell does not deny that he made the transmissions that prompted the NAL in this proceeding, but argues, in large part, that those transmissions were protected by the First Amendment of the Constitution," the Forfeiture Order said. In his responses to the NAL, Crowell not only argued that the enforcement action was directed at the content of his transmissions, which were protected by the Constitution, but were justified on the basis of other operators' actions. "Alternatively, Mr Crowell maintains that someone else caused the interference or transmitted pro-

hibited communications at issue in this proceeding," the FCC said.

The FCC demurred. "It is well-established that regulation of radio in general does not violate the First Amendment or [the Communications Act]," the Commission's Forfeiture Order said, "and courts have made clear that this conclusion applies to the Amateur Service as well."

Prompting the December 2015 NAL were complaints by members of the Western Amateur Radio Friendship Association (WARFA), which conducts nets three times a week on 75 meters. Crowell had argued that the WARFA Net monopolized the frequency and refused to let him check in.

The Enforcement Bureau recounted that its agents and the High Frequency Direction Finding (HFDF) Center monitored Crowell's transmissions during the WARFA Net on 3908 kHz on August 25 and August 27, 2015. The agents and the HFDF Center observed Crowell's Amateur Radio station "intentionally interfering with other amateur licensees by transmitting on top of other amateurs, and repeatedly interrupting amateurs using noises on the WARFA net, recordings and music, so as to not allow them to transmit on 3908 kHz," the Forfeiture Order said.

"Specifically, between 7:45 PM and 9:45 PM PDT, on both August 25 and August 27," the FO continued, "the Agents and the HFDF Center observed at least a dozen instances, lasting from 30 seconds to at least 4 minutes each, of Mr Crowell intentionally transmitting on top of and repeatedly interrupting amateurs on the WARFA net."

The Enforcement Bureau concluded that Crowell "willfully and repeatedly" violated the Communications Act and FCC rules "by intentionally causing interference to other Amateur Radio operators and transmitting prohibited communications, including music." The Bureau said that after reviewing Crowell's arguments, it found no reason to cancel, withdraw, or reduce the penalty it had proposed last December. Crowell has a long-standing relationship with the FCC Enforcement Bureau. In 2008 the FCC designated his license renewal application for hearing, alleging that he had caused intentional interference, interrupted others' communications, transmitted music, and made one-way transmissions, including some containing "indecent language," the FCC said. His license, which expired in 2007, has not been renewed, but Crowell may continue to operate while his application is pending.

- via ARRL (<http://bit.ly/2aSIBHx>)

## June 2016 BARC VE Session Results

On the June 21, 2016 BARC VE session, four candidates passed Amateur Radio exams. Megan Duley, Alexandria, VA, William Gunther, Midway Park, NC and Jonathon Collins, Nashville, NC, passed Element 2 to earn the Technician license. Their new call signs will be posted here when the FCC grants them. James Murdock, **WD6EEY**, Wakefield, VA, passed

Element 4 to upgrade to the Amateur Extra Class license. BARC congratulates all for their accomplishment.

The VE's that attended were Acting VE Liaison Dave Langley, **W4YDY**, Morris Lewis, **AK4MU**, Dan Wallace, **K4HMW**, and Thomas Styron, **KB7L.. FCC Support (877) 480-3201Â FREE**

The next regular  
BARC VE session is  
scheduled for  
**August 16, 2016.**

# 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: Joe Jeanonne** or email to: hamchatter @ w4amc.com(no spaces)

**For Sale: Icom 7000, with a 7 inch video display, including box. \$875. Bernie, WA4MOK. Ph 252-531-4112 or wa4mok@embarqmail.com.**

**For Sale: Icom 756PROII including switching 30A power supply with cables. No mic. \$1090. Dave, W4YDY. Ph 252-341-1733 or w4ydy@arrl.net**

**MARK'S MARINE, INC.**



Mark Langley  
Mike Langley  
**KD4MTT**

Hwy. 33 East  
Greenville, NC  
252 758-3309  
Fax 252 758-1396

**For Sale: Yaesu VR-5000 All Mode Communications Receiver. \$300. Covers 0.1 to 3000 MHz. Yaesu price was \$995. Contact Vern at Batteries Plus Bulbs for more info. 252-353-8143 or bp167@batteriesplus.net.**

**For Sale: Ten Tech Argonaut with P/S  
Call Scott Worley, KA4DMW,  
for details @ 252 752 67881405  
Brownlea Dr., Greenville, NC 27858**

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## Space Jam 10 in Illinois will Again Host ARISS Contact

Space Jam 10 STEM merit badge workshop participants gathered in Rantoul, Illinois, August 5-7, will be treated to an Amateur Space Jam is open to all interested youth. Boy Scouts and Girl Scouts “Talking to the astronauts educational contact with ISS crew member and NASA astronaut Kate Rubins, KG5FYJ. The that Scouting teaches pio- neering skills like camping via IK1SLD, and Rubins and wilderness survival, will use the ISS call sign the new pioneers and wil-

OR4ISS. Wilderness are in outer space - via ARRL (<http://bit.ly/2aSSaql>)

The annual Space Jam has contact will be a telebridge provided a venue for previous ARISS contacts. The annual Space Jam has contact will be a telebridge provided a venue for previous ARISS contacts.

The annual Space Jam has contact will be a telebridge provided a venue for previous ARISS contacts. The annual Space Jam has contact will be a telebridge provided a venue for previous ARISS contacts.

The contact has been set and we are working hard

## BARC Board Meeting Minutes—July 2016

7/26/2016

Oakwood School as a base of operations. If we can work on the weekend of Aug 6, we can get everyone to school and college kids. The next program will be presented by Mike, KM4OLT, who will give a progress report on the W4AMC

Nominations for Officers for 2017 is on the agenda for the next meeting, Aug 9.

K4ZYD, would like to have classes on 5 weeks in October. Saturday tem working locally starting with a office hours at Oakwood of 10-2 so listing of all those who are qualified kids could get hands- on experience to be a VE.

The meeting adjourned by 9:30. Re- spectfully submitted, Bob Hanrahan, AF4QY

We would like to ask John Cole from the NOAA station and Na-

## Jammer Jams Intruder as Amateur Band Encroachments Continue

A station believed to be that of a radio amateur in the Wittenberg, Germany, area attempted to use CW to jam a Russian Navy FSK (F1B) signal intruding on 14.192 MHz, according to the International Amateur Radio Union Region 1 (IARU-R1) Monitoring System (IARUMS). The June IARUMS newsletter said the signal has been spotted for more than a decade now.

"Absolutely not helpful," was the reaction of Wolf Hadel, DK2OM, IARUMS co-coordinator and the newsletter's editor, to the vigilante jamming. According to Hadel, the Russian FSK signal parameters are 50 and 75 baud, 200 and 500 Hz shift, "sometimes only idling."

The newsletter reported that the Polish military continues to transmit on 6998.5 kHz using both automatic link establishment (ALE) digital and USB voice traffic, affecting the very low end of 40 meters at approximately 0700 UTC. German telecoms regulator Bundesnetzagentur (BNetzA) sent an official complaint to Polish telecoms authorities in February.

Broadcaster "Sound of Hope" from Taiwan continues to be jammed by a much stronger signal from China on 18.080 MHz each morning at about 0600 and later. Broadcast transmissions in this band are illegal, and BNetzA has complained. The agency also has complained formally about intruding spurious transmissions daily from a broadcaster in Iran on 7205 kHz, extending down to

7195 kHz and up to 7215 kHz.

Illegal fishery traffic, much of it from Spain, Portugal, the UK, and Morocco has been observed on most bands "as usual," often in the CW subbands.

A possible over-the-horizon radar operating from Iran was reported transmitting daily on 28.960 MHz, covering about 50 kHz. "The sweep rates are much too high for long-range OTH radar," the newsletter observed. "It could be that the radar is used for short and medium distances."

An experimental high-frequency data plus voice link (HFD+VL) signal was reported on June 30 on 18.080 MHz by a radio amateur in Switzerland. The experimental transmissions are coming from the University of Las Palmas in Spain.

Pirates from the Philippines and Indonesia have been reported on several 40 meter frequencies as well as on other bands. Russian taxis, fisheries traffic, and citizens band operators also continue to intrude on 10 meters.

At Ham Radio 2016 in Friedrichshafen Germany, IARU Region 1 President Don Beattie, G3BJ, presented Hadel with the Region 1 Medal in recognition of his "ongoing exceptional leadership" of the IARUMS. "Being the leader of an excellent team is a great honor," Hadel remarked.

-via ARRL (<http://bit.ly/2aSSo05>)

## NETS VHF/UHF

- ◆ BARC Net, Mondays, 2000 on 147.09 MHz, W4GDF Repeater.
- ◆ Newport SkyWarn Tues. nights 2100E Grifton-146.685-88.5 tone Newport-145.450..... IRLP 8561 links to Columbia Jacksonville-147.000- 88.5 tone Oriental-147.210-151.4 tone 444 Newport-444.825- 88.5 tone Swansboro-146.760- 88.5 tone
- ◆ Grantsboro-145 230 - 85.4 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.
- ◆ 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

## Greenville repeaters

**147.09/69 - 145.35/144.75**

**444.8/449.8**

**All use 131.8 tone**

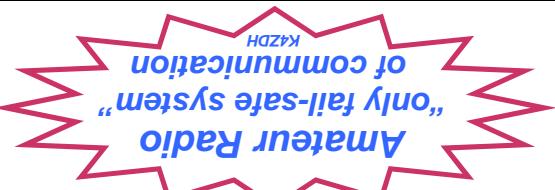
# **BARC**

## **CALENDAR OF EVENTS**

Aug 9 .....	Regular Meeting	Nov 29 .....	Board Meeting
Aug 16 .....	VE Exam	Dec 3-4 .....	ARRL 160 Meter Contest
Aug 30 .....	Board Meeting	Dec 10-11 .....	ARRL 10 Meter Contest
Sep 2/4 .....	Shelby Hamfest	<b>Dec 13 .....</b>	<b>BARC Christmas Party</b>
Sep 13 .....	Regular Meeting	Dec 20 .....	VE Exam
Sep 24/25 .....	CW WW RTTY DX Contest	Dec 27 .....	Board Meeting
Sep 26 .....	Board Meeting		
Oct 9 .....	Maysville Hamfest		Regular Meeting - 2nd Tuesday @ 7:30 PM
Oct 11 .....	Regular Meeting		Board Meeting - Last Tuesday
Oct 18 .....	VE Exam		
Oct 25 .....	Board Meeting		
Oct 29/30 .....	CQ WW SSB DX Contest		
Nov 5/6 .....	ARRL CW Sweepstakes		
Nov 8 .....	Regular Meeting		
Nov 19/20 .....	ARRL SSB Sweepstakes		
Nov 26/27 .....	CQ WW CW DX Contest		

**BARC 2 METER NET - MONDAY NIGHTS AT 8:00 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**



**AUG 2016**  
**Next Meeting**  
**Aug 9, 2016**

To:



Greenville, NC 27835

PO Box 8387

Brightleaf Amateur Radio Club  
Ham Charter