

Ham Chatter



Volume 53 Issue 8

An Official BARC, W4AMC, Publication

August 2019

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Email: hamchatter @ w4amc.com

Carl Lineberger, exWA4TEP, SK



Carl Driscoll Lineberger, age 84, died Saturday July 6, 2019. The funeral service will be held Tuesday, July 9, at 11:00 A.M. at the Farmville Funeral Home Chapel by Rev. Claude Wilson and Rev. Ralph Brown. Carl was preceded in death by a son, Howard Driscoll Lineberger. He is survived by his wife, Christine Bryan Taylor Lineberger of the home; daughter, Frankie Lynn Tucker and husband, Howard of Raleigh; son, Michael Bryan Taylor of Fountain; and grandson, Bryan Jackson Tucker and wife, Mary Beth. - *From Farmville Funeral Home*

Carl was a good friend.

I first met Carl Lineberger in September 1953 when I entered Gaston Technical Institute in Gastonia, NC. There were about 30 students in the electronics class and Carl was the only one from Gastonia. He did not have an Amateur Radio license at that time. There were three hams in the class, Bill Covington, W4TES, Paul Horton, W4TEW and me. We had talked to each other on 75 meter phone and found out we were going to the same school.

After school, I was working at WNCT-TV and Bill got a job at the Wilson radio station. A couple of months later, he came over to the WGTC radio station in Greenville as Chief Engineer. Shortly after, Bill needed another engineer at the station and asked if I knew of anyone that might be interested. I said that Carl might be available. Bill called him and Carl moved to Greenville. Shortly after that, Bill, Carl and I along

with a WGTC announcer who was enrolled in ECC rented a house in Greenville. It worked out for us for about ten months until two of us left for other jobs elsewhere. I went to WITN-TV about 5 weeks before we went on the air.

Hank Tribley, W4JVP, WNCT-TV Chief Engineer asked if I knew of anyone that could take my place. I mentioned Carl and he was hired. Hank asked me if I could stay on for a few weeks to help train Carl while I was still working days at WITN installing equipment. So for almost three weeks, I worked with Carl between 6 and 11:30 PM until my last day at WNCT.

Years later, Carl went to work at the VOA. Bill, W4TES, had been working for the VOA for a while.

Later, Carl got his Amateur Radio license and WA4TEP. He was very active in the area and had a repeater in Beaufort County.

I understand that Carl lost a lot in the Hurricane Floyd flood in 1999. In

*** New Location ***

Next Meeting August 13, 2019

The Brightleaf Amateur Radio Club will have its next regular meeting at 7 PM, Tuesday, August 13, on Charles Blvd in Greenville. **The meeting location is: Room 1511 in ECU Greenville Center - 2200 Charles Blvd. Enter the building on the side closest to Charles Blvd. and immediately Go Left into the double doors. Inside here - Turn Right immediately into Room 1511 this is the Conference Room bearing Left. (This building is just North of the State Employees' Credit Union).**

Program: David Sourdis, K1KK/HK1A, will present an overview of the antenna modeling program 4NEC2 developed by Arie Voors. 4NEC2 can be downloaded from the 4nec2 antenna modeler and optimizer website. If you have a laptop bring it with you to the BARC meeting loaded with 4NEC2. Try it before the meeting and have fun with it. All members, families and guests are invited to attend.

Board Meeting - August 27, 2019

The next board meeting will be Tuesday, August 27, at 7:00 PM at the Offices of Monday & Monday, (CPA), Suite D, East Victoria Court. All members invited.

2000 at the Kinston hamfest, I was going out to put some goodies in the car and saw Carl just coming in. Someone gave him an extra ticket so Carl would not have to buy one. When the prizes were awarded, Carl won first prize, an Icom 706 transceiver. He said it would replace some of his flooded station. I hadn't seen him in a few years but never forgot him. Rest in peace Carl. - W4YDY

President's Corner— Dave Wood, W4EJ



Dave Wood, W4EJ

It's hard to believe August is upon us. One piece of really good news is that we were able to sell our used radios and obtain the funds required to buy three new Icom IC-7300's for our communication van. Since we are purchasing multiple radios, we are shopping around for quantity pricing.

Additionally, four club members have expressed interest in hopping on our purchase to also gain a discount. Currently, we have seven radios to purchase. I wanted to make sure that all club members had a chance for the discount. So, if you are interested please **email me immediately** to get on the list. One prominent dealer has offered us a \$40.00 per radio discount over the Icom \$100.00

mail in rebate on the IC-7300. If you run the numbers, a new 7300 sells for \$1099.00 minus the mail in rebate of \$100.00, and then minus the \$40.00 discount per unit for the club. The final total is \$959.95. per unit. So if you are interested, be prepared to pay \$1059.95 at the next club meeting to lock down your purchase. Icom will then process the \$100 mail in rebate and send you a refund check. I will be working next week to get even better pricing, so the figures above are worse case.

The meeting this month will again be at the new location on Charles Blvd. David Sordus, K1KK, will be giving a presentation on Antenna Modeling Software, so it should be really interesting. See you there, and don't forget the informal get together at Sam Jones BBQ at 6pm. 73, Dave, W4EJ

New BARC Treasurer

Jeff Meyer, K4DKW, has resigned as BARC Treasurer because he has moved to Ohio. Jim Lowe, KN4GWZ, has stepped up the finish out 2019. His email address is treasurer@w4amc.com. Thanks Jeff for you outstanding service to BARC and thanks Jim for volunteering to finish out 2019.



Jim Lowe, KN4GWZ



Happy Birthday

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

08-01 KG4GVJ Mark Raysin
 08-19 KS4YF Paul Fletcher
 08-20 KV4CN Dave LeMoine
 08-25 K4GOE Al Mullis

Please let me know of any additions or corrections. hamchatter@w4amc.com

Well Wishes

Thoughts and Prayers go out to the following:

John McCoy, K4KBB
 Doug Ferris, K4ROK



Please inform Peter Van Houten, N4PVH, of any changes.

Next VE Session

Exams will be held on Tuesday, August 20, 2018 at VFW Post 7032 on 1108 Mumford Road in Greenville, NC. Exams will start promptly at 6:30 PM. For more info email Gary, **KK4GC**, at w4amc.com. (remove spaces) Study material at <http://www.arrl.org/coursestraining>. Walk-ins welcome.

Please bring the following required:

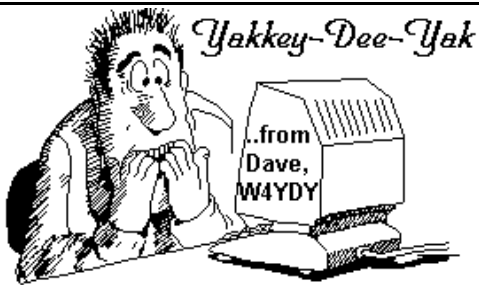
- Photo ID (drivers license)
- Original Amateur Radio License
- Copy of Amateur Radio License
- Original CSCE's
- Copy of CSCE
- Test fee is \$15.00 .
- Proof of Tech Plus if before 3/21/87 and doing paper upgrade to General.
- SS Number will be needed if you don't have an FRN number. *

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

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Apollo 11

Most anyone that was around 50 years ago remembers where they were when Neil Armstrong stepped on the moon on July 20, 1969. There were a lot of celebrations on TV last month. I watched some of the documentaries about the problems the thousands had to overcome. It's amazing now to see the computers used would not perform many tasks as computers of today. Personal computers came along several years later.

I was near the end of a twelve week course at the FAA Academy in Oklahoma City and my family was there in an apartment with me the last few weeks of the school. In July 1969, the pool was really nice when the Oklahoma temperature was 107 for about a week.

I was in school so I didn't see Apollo 11 launch. When Apollo 11 landed on the moon that Sunday, we watched on our RCA 10 inch portable TV. When they stepped on the moon after 10 PM, we got Susan and Robin up so they could see history being made. The picture of the TV was made with my 35 mm slide camera in a room with low light.

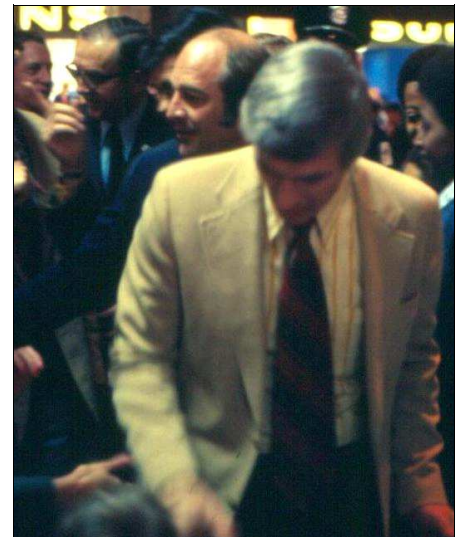


My school course was ending two days later on Tuesday. President Nixon declared a Federal holiday for Monday to celebrate the Moon landing. So I went to school on Tuesday and then we started back home to Raleigh on Wednesday. On Thursday, July 24, we stopped for gas in Tennessee. When I went in the station to pay for the gas, they had a TV there and I looked up and saw Apollo 11 under the parachutes coming down.

Apollo 17

In March 1973, Jesse Helms got the Apollo 17 astronauts to come to the North Hills shopping center in Raleigh. We lived only two blocks away so we got Susan out of school so she could see them. She has always been very interested in the space program. She went to Cape Canaveral a few times to see Space Shuttle launches. There was a temporary stage about three feet high and she was standing at the bottom of the steps. When the speeches were over, Commander Eugene Cernan, the last man to

leave the moon in the Apollo program, Command Module Pilot Ronald Evans and Lunar Module Pilot Harrison Schmitt, came down the stairs and Susan was the first person they shook hands with. In the picture below Cernan is shaking hands with Susan. You can just see the top of Susan's head by Cernan's hand. Behind Cernan is Evans, Schmitt and Jesse Helms all shaking hands with Susan. Susan told Jesse that her daddy use to work with him at WRAL-TV! I was director on his Sunday commentary programs that we taped on Friday. Moments later, my wife and I shook hands and spoke with all four of them as they were leaving. We just happened to be in the right place at the right time! - W4YDY



Astronauts at Raleigh North Hills

One Dead, One Injured in New Hampshire Ham Radio Tower Mishap



A tower dismantling turned tragic on Saturday, July 27, in Deerfield, New Hampshire, when two radio amateurs working some 40 feet up on the tower were carried to the ground when the structure collapsed. Joseph Areyzaga, K1JGA, 52, of Goffstown, New Hampshire, did not survive his injuries sustained in the fall, while the tower's owner, Michael Rancourt, K1EEE, 65, was seriously injured and remains hospitalized. Rancourt was taking down the tower in

preparation for selling his house, and the pair had nearly completed their work. They were tied into the tower and went down with it as it collapsed.

The tower, a tilt-over model said to be 40 to 50 feet, had been bolted to prevent it from tilting as it was being dismantled.

A law enforcement source said a number of people were at the site at the time for a social gathering as the tower was being taken down, and they witnessed the tragedy.

No official determination has

been made regarding the cause of the structural failure, but a radio amateur who visited the scene afterward observed that two of the tower's three legs were clearly compromised and split cleanly and the third leg bent, just above the fully intact tilt base.

The New Hampshire Amateur Radio tower-related fatality is the second such deadly incident in a little more than 6 weeks. In mid-June, a Pennsylvania radio amateur died when the tower he was installing collapsed as he was attempting to attach a guy line to the structure's bottom section. - via arrrl.org 07/31/2019

Centenarian Radio Amateur's Efforts Helped Pave the Way to the Moon



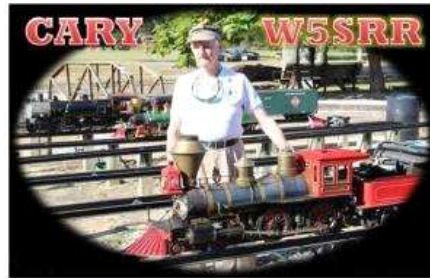
The Nashville Tennessean newspaper recently featured the story of a 104-year-old ARRL member who contributed to NASA's effort to put the first humans on the moon 50 years ago this month. Cary Nettles, **W5SRR**, of Columbia, Tennessee — who calls himself the nation's oldest rocket scientist still alive — was a NASA project manager and research engineer on rocket propulsion systems in the 1950s and 1960s.

While working on the Centaur second-stage rocket program, Nettles, a Louisiana State University engineering graduate, determined that rocket engine failures NASA was experiencing were a result of misdirected exhaust destroying the vehicles' engines. Nettles told the Tennessean he came up with an "exhaust pipe" that solved the problem. In May 1966, an Atlas-Centaur launcher propelled the first Surveyor lander toward

the moon. That year, NASA awarded Nettles and colleague Ed Jonash with its Distinguished Service Medal for "their superhuman effort in turning the troubled rocket into a reliable upper stage," according to a 2004 NASA publication, "Taming Liquid Hydrogen — The Centaur Upper Stage Rocket 1958 – 2002."

A Saturn V rocket with a liquid hydrogen-fueled second stage carried astronauts Neil Armstrong and Buzz Aldrin to their rendezvous with the surface of the moon on July 20, 1969. Nettles retired from NASA the following year.

Nettles got his Amateur Radio license in 1945 and remains active on 40 meters as well as on VHF and UHF repeaters. He is a member of the Maury



Amateur Radio Club. In addition to sustaining his interest in ham radio over the decades, Nettles is an enthusiast of "large-scale" steam trains, which he works on in his basement. Look for him Tuesdays at 1400 UTC on 7.215 MHz on the Steam Railroad Net.

In 2015, the year he turned 100, the ARRL Tennessee Section presented Nettles with its Elder Statesman Award. - *via arrl.org 07/18/2019*

NOTICE BARC MEMBERS EMAIL

Recently I sent email to BARC members only and I got one rejection with someone using BitBounce. Never heard of it before. They wanted 5 cents cryptocurrency fee to deliver the email or free if I knew the receiver. The address poshrozay@gmail.com is not in my address book so I don't know the person. I marked it as JUNK. ANYBODY using BitBounce will NOT be getting the BARC notices. I read that some using it are having trouble removing it from their email. Companies that tried it are losing customers. May be some kind of a scam! - W4YDY

ARRL Field Day 2019 Attracts Nearly 3,100 Entries



The 30-day deadline to submit ARRL Field Day entries via app upload and (timely postmarked) USPS mail is now past, and the ARRL Contest Branch reports 3,070 entries have been logged into the system. Last year saw 2,903 entries. ARRL Radiosport and Field Services Manager Bart Jahnke, **W9JJ**, said the total does not include entries postmarked by July 23 and still in transit. A number of entries still show a status of "PENDING." These include 280 incomplete entries that are missing the required list of call signs by band/mode (also known as a "Dupe Sheet"), or a Cabrillo file.

"This requirement is to ensure that claimed contact totals do not include duplicate contacts on the same band and mode," Jahnke said. "These entries, if not complete, may end up as check logs in the final listings."

An additional 191 entries are missing something other than Dupe Sheets. "These entries are complete," Jahnke explained. "Their scores at present are not benefitting from certain bonuses, for which documentation is still outstanding," he said. "Confirmation for entries submitted online using the web app include a link to update your entry. If ARRL generated the entry from paper, or if you are unable to update your entry, submit pending documentation via email, and the Contest Branch will update your entry, assuming that documentation/photos confirm the bonus points claimed."

Updates are permitted until August 23. After that, all entries as of that moment will be considered final. Results will appear in the December 2019 issue of QST. Jahnke encouraged groups to separately submit photos with captions for possible inclusion in QST. Individuals should be identified by names and call

signs, and any subject younger than 18 years old will require a signed publication release. Photos should have a minimum resolution of 250 kB. - *via arrl.org 07/24/2019*

BARC Email Addresses

The following W4AMC.Com email addresses are active.

President @ w4amc.com
Dave Wood, **W4EJ**

Treasurer @ w4amc.com
Jim Lowe, **KN4GWZ**

VE @ w4amc.com
Gary Coriell, **KK4GC**

Hamchatter @ w4amc.com
Dave Langley, **W4YDY**

BARC @ w4amc.com
Mike Monteith, **KM4OLT**

Sorry, no meeting minutes for July

FAA Reauthorization Act Language Serves to Exclude Vast Majority of Amateur Radio Towers

Language in the Federal Aviation Administration (FAA) Reauthorization Act of 2018 will exclude all but a small number of Amateur Radio towers from marking requirements. Thanks to action taken in 2017 and 2018 by ARRL, the bill's original language was amended to the extent that amateur towers, as well as residential towers used for over-the-air TV reception, were effectively exempted from marking requirements.

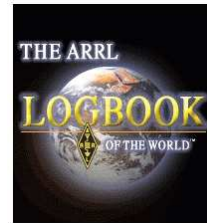
The topic was addressed at the annual "Ham Radio and the Law" forum at the Dayton Hamvention® this past May. Some key points from that presentation: (1) Towers covered by the rules are structures at least 50 feet tall that sup-



port an antenna and are located in a rural area or on farmland or immediately adjacent to such land. (2) According to the Act, the term "covered tower" does not include any structure that is adjacent to a house, barn, or other building, and "is within the curtilage of a farmstead or adjacent to another building or visible structure."

ARRL Regulatory Information Manager Dan Henderson, N1ND, explains that, while a few Amateur Radio towers will fall under the Act's marking requirements and will have to be registered, towers in residential yards or within farmland are specifically exempted. - *via arrl.org 07/12/2019*

Logbook of The World Adds FT4 for Digital Worked All States (WAS) Award Endorsements



ARRL's Logbook of The World has been updated to embrace FT4 contacts for the Digital Worked All States award — one of many digital WAS

Endorsements. This follows the WSJT-X Development Group's July "general availability" release of WSJT-X 2.1.0. No other endorsements are under consideration at this time.

LoTW users are currently able to upload all FT4 contacts they have made. While the FT4 Digital WAS Award Endorsement functions are now active, award processing and fulfilment remain pending the availability of the new endorsement sticker. Watch ARRL News for this and other updates. - *via arrl.org 07/24/2019*

Free HPM 150th Birthday Event Logging Software Now Available

Scott Davis, N3FJP, perhaps best known for the ARRL Field Day software that bears his call sign, has developed a free logging program for ARRL's Happy 150! Hiram Percy Maxim Birthday Celebration on-the-air event that gets under way on August 31 and runs for 9 days. Davis calls his software Hiram Percy Maxim Contest Log 1.0. Maxim, 1AW, who co-founded ARRL, was born on September 2, 1869.

"I've never created a program for a non-recurring event before, because the coding time required is too large," Davis said in a post to the N3FJP software user group. "I've made this exception because this is a really nice, simple rule set with the very popular field day-style exchange that has the added bonus in schedule flexibility of running for 9 days. The Hiram Percy Maxim celebration sure looks like a well-designed event that will be a

lot of fun for us all."

The Happy 150! event will begin at 0000 UTC on August 31 and continue until 2359 UTC on September 8. It is open to all radio amateurs. The goal is straightforward: Contact as many partici-

pating stations as possible. W1AW and all ARRL members will append "/150" to their call signs during this event (DX operators who are ARRL members may operate as <call sign>/150, if permitted by their country of license.) Participating

stations will exchange a signal report and ARRL/RAC Section. DX stations will send a signal report and "DX." All Amateur Radio bands but 60, 30, 17, and 12 meters are available. Permitted modes are CW, any voice mode, and digital.

Davis said Hiram Percy Maxim Contest Log 1.0 is full featured and "very easy and intuitive to use."

"If the Hiram Percy Maxim celebration is received as strongly as it appears, my hope is that ARRL will decide to make this an annual event," Davis allowed. "After all, birthdays come once a year, and we now have the infrastructure to continue in place." - *via arrl.org 07/31/2019*



Hiram Percy Maxim, 1AW, First President of the ARRL

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.**

FOR SALE:

TYT 7800 VHF/UHF MOBILE RIG-\$150.00 With programming software, and remote Head kit.

Little Tarheel II 80 thru 6 Mobile HF antenna--\$235.00, With 32 inch whip/switch, and control cable Tripod and Antenna mount

Little Tarheel II 80 thru 6 Mobile HF Antenna--\$200.00, With 32 inch whip/switch, and control cable. Email Bernie Nobles, **WA4MOK** <wa4mok@embarqmail.com

Classic Collins station FOR SALE

KWM-2 Transceiver, Serial # 149 - Winged Emblem. Original box, 3 "KWM-2" Instruction books, dated Aug 1959, Oct 1959, Apr 1960. One "KWM-2 and KWM-2A" Instruction book dated Feb 1969. Collins Service bulletins and modification, Collins cables, records Set of spare tubes and a spare relay. Electro-Voice microphone and stand. Heathkit Q Multiplier GD-125, used as peak and notch filter on KWM-2. \$550. One owner. See the station at <http://pages.suddenlink.net/w4ydy/>.



512F-2 Power Supply, Serial # 2200 - Winged Emblem. Original box. Parts list and schematic in KWM-2 instruction books. Replaced tubes and all of the electrolytic capacitors in May 2018. One owner. \$300. Both: KWM-2 & PS, \$750.

ROCK BOTTOM PRICES! Internet prices **higher!**

30L-1 PARTS: New plate transformer in OEM box. \$200. New fan \$60. Email w4ydy@arrl.net

BARC on FACEBOOK

<https://www.facebook.com/w4amc/>

Facebook and Group details

<http://www.w4amc.com/barcnews.html#BARC>

Commercial Ad Rates

1/8 page, Business Card Size

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Send ads to: **Ham Chatter,
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Help support *Ham Chatter* and the club. **Donations accepted!**

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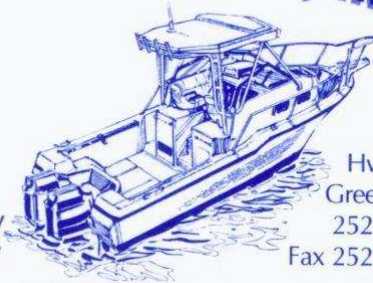
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Major WSJT-X Upgrade Boosts FT4 into “a Finished Protocol for HF Contesting”

The WSJT Development Group has announced the “general availability” release of WSJT-X version 2.1.0. This major upgrade formally introduces FT4 as a finished protocol for HF contesting. WSJT-X version 2.1.0 supplants any “release candidate” (beta)



versions, and users should discontinue using any beta versions of the software. The latest edition of the popular digital software suite also includes improvements and bug fixes in several areas, including FT8. The list includes:

- FT8 waveform generated with GMSK, and fully backward compatible
- User options for waterfall and spectrum display
- Contest logging
- Rig control
- User interface
- UDP messaging for inter-program communication
- Accessibility

The WSJT-X Development Group is providing a separate WSJT-X version 2.1.0 installation package for 64-bit Windows that offers significant improvements in decoding speed.

A detailed list of program changes since WSJT-X version 2.0.1 is included in the cumulative Release Notes. Upgrading from earlier versions of WSJT-X should be seamless, with no need to uninstall a previous version or to move any files.

Installation packages for Windows, Linux, and Macintosh are available.

WSJT-X is licensed under the terms of Version 3 of the GNU General Public License (GPL). “Development of this software is a cooperative project to which many Amateur Radio operators have contributed,” said Joe Taylor, K1JT, for the WSJT Development Group. “If you use our code, please have the courtesy to let us know about it. If you find

bugs or make improvements to the code, please report them to us in a timely fashion.”

Some users have reported a low audio level to the transmitter when using the 64-bit Windows version, which required greatly increasing the sound card playback device used to feed audio to the transmitter.

Visit the FT8/FT4/JT9: WSJT 2-Way Narrow Modes for Amateur Radio Facebook page for additional information. - *via arrl.org 07/16/2019*

RSGB Announces New FT4 Contests

The Radio Society of Great Britain Contest Committee has announced a series of contests using the new digital mode FT4. The three short-duration events on 80 meters (dial frequency 3575 kHz USB) are aimed at offering experience to FT4 newcomers.



“As this series is experimental, there are likely to be changes as we develop experience with this mode, so please check the rules prior to each event,” the announcement said. The objective is to score as many points as possible based on the distance between stations (subject to a maximum score per contact).

The contests will take place on Monday, September 2, 1900 – 1959

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 (20wpm)
- ♦3.573 2200 hours, slow speed (12-14 wpm), South Carolina/North Carolina
- National Traffic System**
- Eastern North Carolina Traffic Net (ENCTN) 146.685 (146.085 in) Mhz (PL 88.5) 2030E

Pitt County Repeater Association

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

BARC on FACEBOOK

<https://www.facebook.com/w4amc/>

Facebook and Group details

<http://www.w4amc.com/barcnews.html#BARC>

UTC; Monday, October 7, 1900 – 1959 UTC, and Monday, November 4, 2000 – 2059 UTC. Visit the RSGB Contest Committee website for details. The FT4 protocol is within the WSJT-X 2.1.0 suite and is available for download for several platforms. - *via arrl.org 07/26/2019*

BARC CALENDAR OF EVENTS

Aug 13 **Regular Meeting**
 Aug 20 **BARC VE Session**
 Aug 27 **Board Meeting**
 Aug 30/Sep 1 **Shelby Hamfest**
 Sep 10 **Regular Meeting**
 Sep 24 **Board Meeting**
 Sep 28/29 **CQ WW RTTY DX Contest**
 Oct 8 **Regular Meeting**
 Oct 13 **Maysville Hamfest**
 Oct 15 **BARC VE Session**
 Oct 26/27 **CQ WW SSB DX Contest**
 Oct 29 **Board Meeting**
 Nov 2/3 **ARRL CW Sweepstakes**
 Nov 12 **Regular Meeting**

Nov 16/17 **ARRL SSB Sweepstakes**
 Nov 23/24 **CQ WW CW DX Contest**
 Nov 24 **Benson Hamfest**
 Nov 26 **Board Meeting**
 Dec 7 **ARRL 160 Meter Contest**
 Dec 10 **BARC Christmas Party**
 Dec 14 **ARRL 10 Meter Contest**
 Dec 17 **BARC VE Session**
 Dec 31? **Board Meeting**

Regular Meeting - 2nd Tuesday @ 7:00 PM
Board Meeting - Last Tuesday @ 7:00 PM

Contest Calendar: All the rules.
<https://www.contestcalendar.com/weeklycont.php>

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



Next Meeting
August 13

August 2019

To:



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