

# ACARC

## Azalea Coast Amateur Radio Club

November 2015  
Newsletter



### ACARC

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## NOW, "CLARITY ON PARITY" – THE VIDEO!

In August, the ARRL responded to the concerns expressed by community and neighborhood associations regarding HR 1301 and S 1685 Amateur Radio Parity Act of 2015 by publishing, "Clarity on Amateur Radio Parity." This document clarifies that the Bill would not result in new federal policy on outdoor amateur radio antennas and it would not require approval of large antenna towers by homeowner associations. For further information on the document, see

<http://www.arrl.org/files/file/Regulatory/Clarity%20on%20Parity.pdf>

Now, a new video has been produced, "The Amateur Radio Parity Act of 2015 – Separating Fact from Fiction", which reinforces the arguments discussed in the ARRL statement. ARRL President Kay Craigie, N3KN, said the video will be made available on Capitol Hill to make sure that Members of Congress have correct information, instead of misrepresentations. For further information on the video, see

<http://www.arrl.org/news/now-clarity-on-parity-the-video>



## Upcoming Important Events

- |                            |   |
|----------------------------|---|
| <b>Nov 7<sup>th</sup></b>  | Visiting Hams –<br>11:00AM<br>USS North Carolina            |
| <b>Nov 7<sup>th</sup></b>  | Barnes & Noble Mini-<br>Maker Fair – 7:00PM<br>B&N Mayfaire |
| <b>Nov 17<sup>th</sup></b> | ACARC Monthly<br>Meeting 7:00PM<br>CFCC North Campus        |

# Health and Wellness

By George Morse KM4DSI

A Sympathy Card from the Club went out to Charlie (K4UWH) and his wife Vivian for the loss of Vivian's mother on October 20th. We all were certainly sad to hear about her passing.

I called Karen (WA4CR) and asked how her Grandson Tavish was doing. She said he is still in the Children's Hospital and recuperating, he is making gradual progress and his condition is both treatable and curable. She told me Tavish's entire family says that they appreciate all the support they have received. Also Karen said that Tavish really enjoyed the Get Well card that Our Club sent him.

Please let me know if anyone, club member or member's family, is having a medical problem. I also send Special Get Well Cards.

Happy Veteran's Day !  
November 11

## November Birthdays

Bill – N2WG

I still need you all to send me your Birthday Month and Day, so I can get a AC4RC Card mailed to you. No year is necessary, mainly because you will show me how old I am ☺

Send me your info via Email  
morsegm@gmail.com

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## Local amateur Radio Clubs – A Historical View

By Allan Pellnat KX2H

1913 - Wilmington High School Scientific Club  
The building on Ann St. between 4th and 5th is currently known as the Tileston Center. It first appears in the city directory of 1902 as Wilmington High School. The plaque on the present day

building indicates that it was built in 1897. It is listed as WHS consistently up through 1921. In 1922 when today's New Hanover High School at 13th and Market was opened this building became the Ann Bradley Elementary School of City District 2.

As described in a Wilmington Dispatch article of 3/17/1914 the Wilmington High School Scientific Club held the amateur station call sign 4BS. This is just two years after amateur station licensing and government assignment of call signs began. 4BS is listed again in an April 1914 publication of call signs but not thereafter. This is the only reference to a High School radio club until 1923.

The licensed operators of 4BS mentioned in the 3/17/1914 article are Byron B. Schonwald, 4BL and Marion C. Avant, 4BA. Also mentioned are a Prof. Shaw and Superintendent Blair, Percy Canady the Secretary of the Scientific Club and another person only identified as Mr. Williams.

The city directories offer two possible student's names for the "Williams": Robert M., at 118 S. 4th St. the son of William A, who was Clerk of the County Board of Commissioners; or Lewis W. of Winter Park. Prof. Shaw is likely Herman Sumerall Shaw, Principal who resided at 218 S. 3rd St along with Herman F. Shaw, student, Miss Ruth F. Shaw and the Rev. William A. Shaw. Percy Canady is likely Percy L. Canady who appears in the 1917 and later directories employed as a bottler and residing at 720 S. 6th St.

The first U.S. Commerce Dept. list of amateur call signs dated July 1, 1913 does not show 4BS, 4BL or 4BA. The school station, 4BS and Marion C. Avant, 4BA are first listed in Supplement #3 to the original 7/1/1913 list. Byron Schonwald, 4BL is listed in Supplement #2.

While 4BS was certainly the earliest school centered amateur wireless station in North Carolina and the 4th call district representing the southeastern U.S. However it was not the first in the nation. The July 1, 1913 lists the following as the High Schools that could qualify as firsts:

1UP, Francis J. Trainor, Classical High School of Providence, RI

1WN, Edwin Bancroft Foote Boys Club, New Haven, CT

3GN, Board of Public Education, Philadelphia, PA

6YL, High School, Los Angeles, CA

9AQ, John A. Riner High School, Beloit, WA

1922 – The New Hanover Radio Club, 4DW & W4KG

New Hanover County High School, as it was then called, at 13th and Market Sts. opened its doors in 1922 replacing the Ann St. Wilmington High School. The New Hanover High School's library today maintains an archive of yearbooks dating back to 1925. On page 39 of the 1925 "Wildcat" appears the following:

*"The New Hanover Radio Club has been in existence since the opening of the new High School. The Board of Education installed a magnificent receiving and sending set, and much merriment and instruction has been secured by members. This year's officers are Charles Whaley, Raymond Smith and Arthur Peebles."*

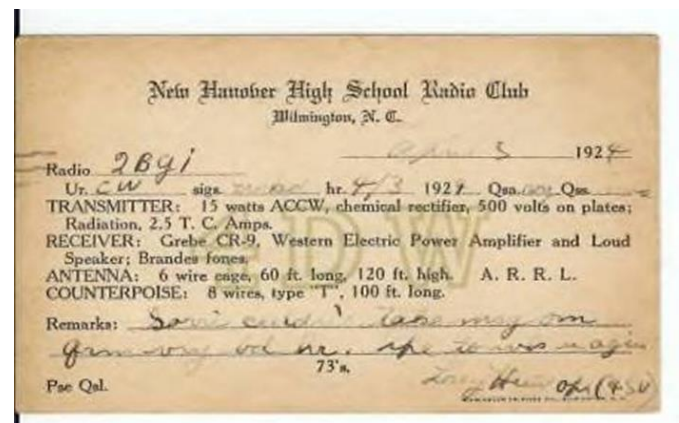
1925 club officers were Charles Whaley (4RW in 1924 and 1927), Raymond Smith (4VW in 1927) and Arthur Peebles (became W4CPT in 1934)." 4DW is listed in callbooks for 1923 through 1925 with a comment in the 1925 listing "Lacy Hunt" as supervisor of the station. No callbook listings appear after that until 1931 through 1934 when the club station is listed as W4KG with J. Edgar Morris a teacher as trustee. It does not appear that J. Edgar Morris held an amateur license or station call sign.

The 1924 Wilmington City Directory (WCD) identifies H. Lacy Hunt Jr. as a student living at 1419 Market St. with his father H. Lacy Hunt Sr. and sisters Rachael and Elizabeth (Betty). He is continuously listed as a student up through 1930.

In 1932 he is listed with no occupation shown and in 1934 as a Salesman. A QSL card for 4DW dated 4/5/1924 is signed "Lacy Hunt (4SU)" indicating that he perhaps shared operation of station 4SU owned by Luke French. I speculate that the Wilmington Amateur Radio Association reported in the April 13, 1923 Wilmington Star as starting at the High School on 13 April 1923 and the New Hanover High School Radio Club described in the 1925 NHHS Yearbook are one and the same organization. That is to say it consisted of both students and adults using the 4DW callsign.

A 1924 QSL card describes the station as:

"Transmitter: 15 Watts ACCW, chemical rectifier, 500 volts on plates; Radiation, 2.5 T.C. Amps. Receiver: Grebe CR9, Western Electric Power Amplifier and Loud Speaker; Brandes Fones. Antenna: 6 wire cage, 60 ft. long 120 ft high. Counterpoise: 8 wires, type '1', 100 ft. long." From this description of the antenna one would assume that it was on the roof of the building supported by towers.



15 Watts ACCW implies a CW tone of less than than T9 resulting from directly heated AC powered cathodes. The 2.5 T.C. Amps "Radiation" implies RF output power as measured by a Thermocouple RF Ammeter.



1927 New Hanover High School Yearbook Frontispiece. Note the two masts and cage antenna suspended at the east end of the building. Assuming that the second story windows are 8 feet high the masts would measure about 25 feet high.

Other likely student operators of this period were:

4CA - George Dudley Humphrey, Student, 402 N.4th St. (1922) (Sophomore Class in 1921)

4BX – Gordon S. Smith, Student, 107 No. 6th St. (1920-1927) (Sophomore Class in 1921)

4EC – Carl Schuster, 204 N. 3rd St.(1920-1922) (Junior Class in 1921)

4EW - Albert H. Davis, Student, 2012 Metts Ave (1922) (Freshman Class in 1921)

4HA – T. Aubry White, 415 Wrightsville Ave. (1922-1926) (Freshman Class in 1921)

4GK – Andrew J. Harriss, 309 Wrightsville, Ave (1923)

4RW – Charles D. Whaley, 245 Loop Rd. (1924)

4RZ – Hazard E. Reeves, 5 Church St (1924-1928)

4TQ – Richard Dobson, 416 Grace St. (1924-1925)

??? – Duvall Williams, (Junior Class in 1921)

??? – Carlyle Bloome, (Junior Class in 1921)

## WAARC Builders Group Notes for Session #4 (October 24, 2015)

A small group gathered today with several members having other commitments or on “sick leave.” So the table wasn’t completely full at Victoria’s restaurant but we did welcome Wally WA3RWP as a guest today who agreed to come and discuss the club’s project to support the Barnes & Noble “Maker Faire” scheduled for November 6-8th at the Williamsburg B&N. Here are some project update notes from the crowd at today’s session:

—Bill NR4C worked on his new 3-D printed surround for a six-position Power Pole adapter that will include a VERY small digital volt meter to monitor the 12VDC across three pass-thru circuits. This would be a great addition to anyone’s “Go-Kit” to allow several devices that require 12VDC to piggyback on a single supply and includes the ability to measure the supplied voltage. Bill used a piece of PCB to act as a center piece between the reversed Power Pole connectors to avoid having to use precisely measured large gauge wire to make the connections. Bill showed us an app on his iPhone that displays the computer aided design (CAD) file for his project; the app has the ability to rotate the object in three dimensions allowing you to view it from any direction. Although there are several commercial inline power monitors available Bill’s new design is quite unique and is just downright cool!

—Bob AJ4RS continued work on his homebrew lightning detector by drilling the holes in his project enclosure for the power switch, indicator bulb fixture and BNC antenna connector. Using a “step-drill bit” Bob was able to create holes that fit the components almost perfectly. Now with just a little bit of soldering on the NR4C designed printed circuit board and his new detector should be complete and ready for next year’s thunderstorm season.

—Chuck AI4WU finally managed to flash firmware into two new Ubiquiti Wi-Fi radios to use in support of ham radio emergency operations in a



“Broadband Hamnet” configuration. As you may recall Chuck’s two original units were unfortunately damaged by his first firmware update attempt during the last session. Since then he’s conferred with several other experimenters working on the same issue and his attempt today was successful using their procedures. “High-Speed Wireless Networking in the UHF and Microwave Bands” is a article in the November issue of QST beginning on page 33 that complements the recent article in CQ magazine discussing the Broadband Hamnet program. More fun and experimenting to follow!

—Wally WA3RWP updated the group on his work organizing the club’s support of the upcoming Barnes & Noble Maker Faire. Those present pledged to support the effort with displays and being there to man the booth and bring along examples of their homebrew efforts once arrangements are finalized. More to follow directly from Wally to both the club leadership and membership. The group agreed to forego the Builders Group session scheduled for November 7th in order to support the Maker Faire booth. We should all support Wally’s effort since getting young folks interested in ham radio is the only way we’re going to ensure the future of our hobby (too many of us old gray haired guys filling up the club meeting seats!).

Also in attendance were group mentor Chris KC4CMR and Will K4MI. Although the small group did their best to consume the supply of donuts they were unsuccessful - the remaining calorie busters were sent along to the Williamsburg EOC where the club contest group is participating in the CQ World Wide SSB Contest.

As we’re foregoing the November 7th session the final Builders Group get together will be on November 21st. Still time to melt some solder with the group or just stop by for a cup of coffee and a donut so please plan to join us for our fall finale.

73 - Dino KLOS

