

THE YCARS TRANSMITTER



Ham Radio News, Events and Information

YCARS Club House - 2051 Squire Rd. Rock Hill, SC 29732 – Mailing Address YCARS PO Box 4141 C.R.S., Rock Hill, SC 29732

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October 2021 Club Activities

- Every Wednesday 18:00 local – Club open House
- Saturday Oct 2 – Rock hill Hamfest 8:00 Newkirk Baptist
- Thursday, Oct 7nd- Radio Room Operating Night 18:00-20:00
- Thursday, Oct 14 – Business Meeting – Clubhouse/Teams 19:30
- Friday Oct 15 – Monthly Simplex Net – 21:00
- Sat/Sun Oct 16-17 Support Your Parks- Chester State Park
- Thursday Oct. 21 – ARES Meeting Teams and Clubhouse 19:30
- Thursday Oct 28 – 18:30 Presentation Night – DX Commander – ZOOM 100% virtual**

2021 YCARS Officers

- PRESIDENT – W3SPC
STEVE CZAIKOWSKI
- VICE PRESIDENT –
KM4WLS PHILIP
CHANDLER
- TREASURER – K4DQP
DARCY PACH
- SECRETARY – KN4KCD
RON PRYOR
- CUSTODIAN – KD4RNP
WAYNE REEVES
- TRUSTEE – NJ4Z
JOHN GENDRON

YCARS Net Schedule

- 2 Meter Morning Net
Weekdays Mon-Fri
11:00 K4YTZ Repeater
147.030MHz (-) pl 88.5
- 2 Meter Evening Net
Weekdays Mon-Sun
20:30 K4YTZ Repeater
147.030MHz (-) pl 88.5
- ARES 2 Meter Weekly
Net Mondays 19:30
K4YTZ Repeater
147.030MHz (-) pl 88.5
- Monthly Simplex Net –
2nd Friday of the month
21:15

Welcome to the YCARS TRANSMITTER

Vol.1 No.7 July 2021

Hello everyone,

It's October and you all know what that means... THE ROCK HILL HAMFEST!!!!!! The only Problem is it comes and goes so fast! A full report will be provided in the November News Letter.

This month, YCARS gets to do a bit more celebrating, TEAM K4YTZ brings home some more hardware. The First Place Plaque from the 2020 SC QSO Party. This team really is rolling.

We get to Welcome our SPECIAL GUEST for the October Presentation Meeting this Month – The DX Commander himself – Callum McCormick, M0MCX all the way for the UK.

In From the Hamshack – NJ4Z muses about the epic battle of Marconi vs. Tesla and the war for Radio.

Joe, W8DKR gives us a lesson on Complex Numbers, which we use all the time when talking about the impedance of our antenna systems, in this month's Octogenarian Observations column.

YCARS' Wellness, Happiness and Inclusion committee updates the club on some new initiatives and teams being formed to provide more engagement for our members.

Steve, W3SPC tackles an often-asked question regarding the which PC to have in your shack in this month's "Ask an Elmer" feature. It is amazing how often this question comes up.

And as always, we have the Boneyard, YCARS AWARE and Wall of Arrogance columns as well as, a welcome to new club members.

Please consider writing an article for the newsletter, as the saying goes, "Many Hands Make Light Work,"

We would also like to thank those who contributed this month to the Transmitter.

Until next month

73

The Transmitter Staff

October 2021 Contest Calendar

10/2 – Oceania DX -
SSB Contest 08:00UTC

10/2 – CA QSO Party
Contest 16:00UTC

10/9 – NV QSO Party
03:00 UTC

10/9 – Oceania DX -
CW Contest 08:00UTC

10/9 – AZ QSO Party
15:00 UTC

10/9 – PA QSO Party –
16:00 UTC

10/9 – SD QSO Party –
18:00 UTC

10/16 – NY QSO Party
– 14:00 UTC

10/16 – POTA Support
Your Parks – Fall 00:00
UTC

10/17 – IL QSO Party –
17:00 UTC

10/30 – CQ WW – SSB
– 00:00 UTC



From NJ4Z's Hamshack

Musings from the Editor

It is certainly hard to believe that the 69th Rock Hill Hamfest is here, and that it has been two years since the last Hamfest, YCARS has hosted. I am looking forward to the Hamfest and have great hopes for a successful event.

While I was preparing for this month's Transmitter, I was struggling to come up with a topic to muse on for this column. Then I happened upon the History Channel's documentary series "The Machines That Built America." What a wonderful series, taking us through the history of so many inventions that have changed and improved our lives. It also chronicles the inventors and their struggles, competition, success and failures. The series tackles the Airplane, Tractors, Television, Motorcycles, Telephones, Power Tools, Home Appliances and Radio. I find it a bit amazing that Television is addressed before Radio, but hey, I think the saved the better for last. Outside of maybe the Microchip, Radio may be the single most important invention in the modern history of man. When you think about how much of our lives involves radio waves, it is almost ubiquitous. Our cell phones, wireless internet connections, television, terrestrial and satellite broadcast radio, radar, microwave ovens, wireless surveillance cameras, GPS, precision munitions, Bluetooth, RFID, ship to shore, ship to ship, aircraft, public safety, satellite and spacecraft communications, all dependent on Radio Waves.

Marconi and Tesla had an epic battle, to develop two-way radio communication, Marconi is credited with the invention. In reality Nicola Tesla got hosed, but that is a story for another day. We owe much of our modern society to both Marconi and Tesla, but as in most cases their work was a continuation of the work of many others. Scientists like Henrich Hertz, James Maxwell, Alessandro Volta, Hans Orsled, Andre-Marie Ampere, Michael Faraday and Joseph Henry developed much of the theory that Tesla and Marconi used to develop wireless communications. If you get the opportunity to watch this series, please do. It is amazing to see all the changes brought about by a few people willing to take a risk.

We too as Licensed Amateur Radio Operators are scientists. We push the envelope, test theory and advance the science of Radio Communications, or at least we should be. People like Joe Taylor K1JT at Princeton University and his work with weak signal propagation has changed radio communications and the Amateur Radio Hobby. It is our duty to carry on the spirit of these great people; experiment to improve this hobby so when we leave this hobby. We leave the hobby and the world a better place for having been in it.

So, until next month, stay passionate about Amateur Radio... 73 - NJ4Z out

John Gendron, NJ4Z - Editor, YCARS Transmitter

Octogenarian Observations with Joe W8DKR

Think of complex numbers of having two parts, one real (resistive) and the other reactive (capacitance or inductance). Using Cartesian Coordinates (imagine a compass) the resistive part is plotted East, capacitive reactance is plotted South and the inductive reactance is plotted North. All of the units are in ohms.

(As a review, the capacitive and inductive reactance change with frequency)

To show the direction we use "j", a +j means +90 degrees and a -j means -90 degrees. If you had taken some math courses, you will find the term "i" used which is the same as "j". Engineers could not use "i" because it is used for current. For example, 24 j45 means 24 resistive ohms 45 inductive reactance ohms. Likewise, 24 -j45 means 24 resistive ohms and 56 capacitive reactance ohms.

Mathematicians use the symbol "i" instead of "j" and they put "i" at the end of the complex number for example 24 -45i. In math textbooks "j" or "i" has a value of the square root of -1. In problems with reactance all you need to know is 'j' represents a 90 degree rotation.

https://en.wikipedia.org/wiki/Complex_number

YCARS
YORK COUNTY AMATEUR RADIO SOCIETY

**Wellness,
Happiness, &
Inclusion**

Our Wellness, Happiness and Inclusion (WHI) committee is hard at work for the YCARS family.

WHI would like to remind everyone that all of the recent QSL cards that K4Y TZ has received, have been uploaded to the QSL Card Photos folder on the YCARS Sharepoint, under the WHI Committee's Documents section. If you have any questions or need help accessing the folder, please contact Hillary @ AB1CD@ycars.org

WHI and the Facilities Committee will be jointly forming the Clubhouse Improvement Team. If you are interested in helping make improvements to the clubhouse, please email Hillary @ AB1CD@ycars.org Our first meeting's date and time will be announced in the October business meeting.

WHI will be forming the Social Team. The Social Team will be responsible for planning and executing all of YCARS social events. Our meeting will be on Wednesday October 13th from 3:00pm to 4:00pm on MS Teams. If you are interested in joining the Social Team, please email Hillary @ AB1CD@ycars.org

"Ask an Elmer"

Ham Radio Advice and Answers

This column will be a forum to ask questions and seek knowledge of amateur radio... we are looking for someone to help answer these questions for members, if you would like to volunteer to help answer or have a question, please email NJ4Z@ycars.com –

Steve Czaikowski – W3SPC,

A number of folks ask me "what laptop do you generally recommend?", likely because I have supported a ton of different models from just about every manufacturer over the past 20+ years. I'm also a tech enthusiast.

Generally, for reliability, value for the dollar, serviceability, component quality, build quality, and a bunch of other reasons, my almost immediate response has been "Lenovo."

Hams should rejoice for a new laptop company that is launching right now. The company is called Framework. This is a company who is 100% committed to quality, serviceability, upgradability, and most importantly - supports Right to Repair. I'm willing to bet they are the only laptop manufacturer on the planet today who, if you ask, will send you actual schematics for any of the products they sell...

I have zero financial interest in the company at all, but I absolutely support the vision and spirit of the company. I am going to most definitely seriously consider buying a Framework the next time I'm in the market for a new laptop.

THE YCARS BONEYARD

A place to sell, trade or find Ham related Equipment

KM4KGH – 'the Bear' is offering a Wouxun KG-UV899 Dual Band HT for \$60.00, Radioddity GD-77 DMR Dual Band Hand Held for \$60.00 and TYT- TH-9800 Quad Band 70cm/2m/6m/10m FM mobile for \$185.00 Call 803-372-8487

W3PAL – Andre – FTDX3000d for sale. I want to offer this for club members first, before I advertise it elsewhere. The radio is in excellent condition. Non-smoking shack. Everything works as it should. The radio has an optional 300 Hz roofing filter (\$200 value) and a Voice Recorder board (\$70 value). Original box, manuals are included. Asking \$1,250 Andre, W3PAL (704) 231-4095 aeivanov@comporium.net

K4Y TZ – the club has several items for sale – please see [YCARS Boneyard – Page 1 – K4Y TZ – YCARS](#) for details.

YCARS News and Updates

Be YCARS Aware

October 2021 – Presentation Meeting - Special Guest – Lord Callum McCormick, M0MCX – Founder of DX Commander Antenna and YouTube Channel.

On Oct 28, 2021 at **18:30 (22:30UTC)**, YCARS is proud to welcome M0MCX- Callum McCormick to provide a presentation to our club. **Please not the change in time** – to accommodate the time difference between the UK and the US we have shifted the meeting back one hour to 18:30 local. The meeting will be 100% virtual on the ZOOM platform. Invitation for the meeting will go out the week before via e-mail.



DX COMMANDER

For those few that are unfamiliar with Callum, he is the founder and owner of DX Commander antennas. He also runs one of the most successful Ham Radio Focused YouTube Channels – also named DX Commander. [DX Commander - YouTube](#). Callum is also a very successful entrepreneur in IT and recruitment. He is also a very accomplished drummer.

Callum has been very generous with his support of YCARS with multiple donations of antenna and equipment to the club for our Hamfests.

TEAM K4YTZ – Brings Home More Hardware

The York County Amateur Society contest team finished 1st in the Multi-Op category for the 2020 SC QSO Party. It took a while to get the results, but K4YTZ put up an impressive 149,292 points to win. Congrats to all our operators who participated.





TEAM K4YTZ – Parks on the Air – 2021 Fall “Support Your Parks” Weekend Oct. 16-17

Team K4YTZ will be participating in the 2021 Fall “support Your Parks Weekend” on October 16 and 17 from Chester State Park. Shelter #1 is reserved for both days. Vicki Carnes, W4NQX will be heading up Team K4YTZ for this Event.

York County ARES – November Exercise

The York County Amateur Radio Emergency Services group will be holding an exercise in November more details in upcoming Oct 21st (19:30) ARES meeting.



NEW YCARS MEMBERS
WELCOME TO THE
FAMILY

New members from
September 2021

David Biggers – K1DVB

Theo Moore – KO4SPB

YTD new members for 2021 -34

YCARS August Net Report:

York Co. ARS 2M Nets 47 nets with 910 check- ins
York Co. ARES Nets 4 nets with 47 check-ins

Local Hamfest Updates:

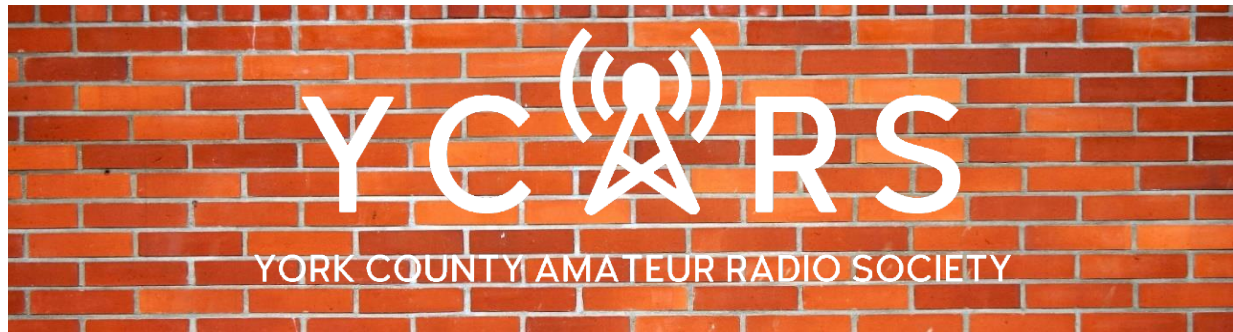
The Carolina Amateur Radio Emergency Services Club is holding the Gaffney (SC) Hamfest on Saturday, Oct. 23, 2021 at the South Side Baptist Church, 204 W. O’Neal St. Gaffney, SC. 08:00-15:00



YCARS SKYWARN Recognition Day:

YCARS will be hosting Skywarn Recognition Day 2021 at our facility. 12/04/2021 from 0000z to 2400z. This will be a Chili Cookoff and radio contesting event. Working with NWS to secure a virtual office tour and presentation. We will be inviting GSP Regional Skywarn and any other statewide partners to enjoy some YCARS hospitality and fellowship.

YCARS Leadership Elections: We have leadership elections coming up in December – we are looking for officer nominations for the upcoming year if you would like to run and have been a member for a year or have a nomination for a member who would be a good officer, please let us know at the October business meeting



WALL OF ARROGANCE

K4Y TZ – 2020 SC QSO Party Multi-OP Champions

K4Y TZ – Parks on the Air – Kilo Award – Great Smokey Mountain National Park

K4DQP - Rafflesia Flower Hunter - Working 900 different unique parks

K4DQP - Late Shift Hunter: Making (200) QSOs between 0000z and 1200z

K4DQP - ARRL 2021 DX Phone Contest - Single Operator Unlimited, Low Power, 4th Place SC Division, 9th Place Roanoke Division

YCARS is proud to recognize the achievements and awards earned by club members this month.

If you have earned a Ham Radio Award you wish to share with the YCARS family please let us know.

The York County Amateur Radio Society

www.YCARS.org

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