



THE RICHMOND HAM

Published Monthly by the Richmond Amateur Radio Club

P.O. Box 35279, Richmond, Virginia 23235

November 2022

THE RICHMOND AMATEUR RADIO CLUB RARC Meeting Virtually Happening and in person!

Our monthly meeting on Friday November 11th, 2022, 7:00PM, at the Bon Air United Methodist Church, 1645 Buford Road, and also a virtual one. The Zoom meeting will start at 7:00pm.

Upon joining the meeting you will be muted. You may exchange greetings with members through the chat feature (keyboard).

Cell phone and tablet users please use Landscape orientation for better imaging.

Kenneth Leidner is inviting you to a scheduled Zoom meeting.

Topic: RARC Monthly Meeting - Virtual

Time:

November 11th, 2022 07:00 PM Eastern Time (US and Canada).

Every month on the Second Fri.

Please download and import the following iCalendar (.ics) files to your calendar system.

Monthly:

https://us02web.zoom.us/meeting/tZwoduGoqzMvEtBdpM3wG1LJ7Ro1ZcdB0qf1/ics?icsToken=98tyKuGgqzoiGtGdtRGDRpw-GYj4WfTwmFxyj7d_mA_IUDd0My_cYdBNY4h8FPqA

Join Zoom Meeting

<https://us02web.zoom.us/j/88518058584>

Meeting ID: 885 1805 8584

One tap mobile

+13017158592,,88518058584# US

(Germantown)

+13126266799,,88518058584# US (Chicago)

Dial by your location

+1 301 715 8592 US (Germantown, MD)

Meeting ID: 885 1805 8584

Find your local number: <https://us02web.zoom.us/j/88518058584>

Ken Leidner , WV0L

Richmond Amateur Radio Club Meeting Minutes

October 14, 2022

The regular meeting of the Richmond Amateur Radio Club was called to order at 19:06 on October 14th, 2022 on Zoom and in-person by President John DeMajo, (K5HTZ).

Members Present: Check-ins on Zoom and in-person at the Church

Last month's Minutes: Approved unanimously.

Treasurer's Report:

1) Ken Leidner, (WV0L) gave the Treasurer's Report. We had an ending balance of \$19,218.12. The Report was approved unanimously by voice vote.

2) 3 new membership applications: Daniel Seal, KO4JGH, William Knab, K4NAE and Wayne Scarberry, K9WVU; Approved unanimously.

Fall Classes and Club Station

1) No exam classes this semester.

2) Club Station will be offline while the church roofs are replaced. Members will be notified when the outages are scheduled.

Ken Leidner mentioned that Zoom has issued a new encryption key for Linux users that is available on the Zoom website.

Election of Officers: Jim Bates, K8OI coordinated the voting for the new slate of officers on Zoom and those in person. All positions were uncontested except for Vice President. Final tally saw Darrell Basinger, WW4F as our new VP. Congrats Darrell!

The business meeting was adjourned at 19:31 with a presentation on the club's remote station by Bruce Mac Alister, W4BRU.

Meeting Adjourned at 20:15.

The next general meeting: November 11th, 2022.

Meeting minutes submitted by A.Hamel, WA1UQO

From The Prez

Greetings fellow RARC members. My name is Richard (Rick) Waller , KA4OHM and I am the president-elect of RARC. I want to thank my predecessor, John DeMajo, k5htz, for his outstanding efforts at keeping the club going during these last 3 pandemic years. John did this despite facing major personal health challenges. I look forward to working with John as a director. Since I was unopposed for president I didn't submit a biography. For those who don't know me , here is a brief account. I first became interested in radio at age 6. My earliest activities included AM broadcast band dxing and short wave listening. I first became acquainted with amateur radio by hearing hams on 75 meter AM phone. Later I got into CB, police/ fire scanning and low power broadcasting. During my first job out of school I met a ham mentor who helped me get my novice ticket in 1980. I currently hold an amateur extra class license. My personal interests in ham radio include casual HF SSB dxing, QRP/ portable, VHF weak signal, satellites, building antennas and radio propagation. I've done just about everything in ham radio at least once except very low frequency and microwave. I hope to explore those extremes of our frequency allocations in the future. I am a ham because I love radio and, in my opinion, amateur radio is the best way to have fun with radio. As president I plan to emphasize operating and having fun with radio. Questions, comments and suggestions about how to improve the club experience are welcome.

73, Rick KA4OHM

RARC VE News

We have two different groups that provide testing.

1. One is free, but only offers testing sessions on the second Saturday of odd months except June (Field Day) replaces July. **The next session will be on Saturday November 12th.**
2. The other one cost \$15.00, but offers testing sessions on the 1st Saturday of every month.
 1. RARC offers Free VE Testing Sessions on the second Saturday of odd months except June (Field Day) replaces July. Currently all testing starts at 10:00 AM and is at: Chesterfield Library Bon Air Branch 9103 Rattlesnake Rd North Chesterfield, VA 23235. Pre-registration Required. Walk-ins Accepted. Pre-Registration required for Techs and for special needs applicants. Anyone taking the Tech exam needs a FRN from the FCC (Google obtaining a FCC FRN) and bring that info to the session. If you have questions about a session, please see our website, www.rarclub.net or contact Allan, WA3J, at 804-399-8724, or ve@rarclub.net

2. KC4TS Cats Vet (Cats Volunteer Examination Team) offers VE Testing Sessions that cost \$15.00 on the 1st Saturday of every month. Currently all testing starts at 10:00 AM and is at: Gospel Light Church 2109 Anderson Hey Powhatan VA. Check-in is between 10am and 12pm and we stay as long as needed to finish all the exams. Walk-in candidates are welcome! You just need a valid ID, an individual FCC FRN, and the testing fee of \$15 which goes directly to the ARRL (cash or check made payable to "ARRL VEC"). We can provide pencils and a very simple calculator or you can bring your own. See <http://kc4ts.org/> for more information.

Club Info...

RARC meets on the second Friday of each month at 7:00 PM, at the Bon Air United Methodist Church, 1645 Buford Road.

We offer 10-week license prep classes in September and March with exams following. Members provide VE testing sessions on odd-months during the year.

Join the Richmond Amateur Radio Club.

You don't have to have a ham license, just have a genuine interest in the hobby.

Annual Dues are:

80 and over	\$0
Regular Membership	\$22.00

Lots of information about the Club and our activities is available on our website, www.rarclub.net.

Nets

RARC has the first and only D-STAR digital repeater in the area: 147.255 (+ 600), 443.7125 (+ 5) and 1284.0000 (-20). In addition to our Wednesday local D Star net (below), we link Module C (VHF) to REF 062A for the National Capital Region D Star Net on Wednesday nights at 9pm. On Tuesday nights at 9pm, we link Module C (VHF) to REF 054C for the North Carolina D Star Net.

The RARC D Star Net meets on Wednesday nights at 8:00pm and is accessible on our three D Star modules, all of which will be linked together via REF 062D. So if you are in RF range of the repeater, you can join the net on any of the three RF modules and be heard by everyone.

If you participate in the net via DVAP, DV Dongle or a Hotspot (such as Pi Star), you should link your device to REF 062D rather than to any of our modules which will allow you to be heard by everyone.

Any questions, contact Win - W4WIN at wingrant@gmail.com

Sunday	7:00 pm	50.135	USB
	7:30 pm	52.525	FM
Wednesday	7:00 pm	28.475	USB
	8:00 pm	147.255	D-Star Rptr
	8:15 pm	145.730	Packet

Show and Tell!

If you have an item, idea, latest and greatest, or whatever gizmo; please bring it to the RARC meeting. We have a table (usually) set up near the front where you can place your item and share/discuss it with others as they arrive. We also have a section of the agenda set aside for members to discuss their "Show and Tell" item(s). No need to be tentative; we are INTERESTED in what you are doing, how you are doing it and, in true Ham fashion, how much it costs!

Who Was Wes Schum?

In the 1940's the principal mode of voice communications, as used by amateur, commercial and military radio services, was Amplitude Modulation (AM).

At the conclusion of World War II, great numbers of servicemen who were exposed, for likely the first time, to two-way radio communications were bitten by the radio "bug" and flocked to the Amateur Radio Service. The large numbers of operators, coupled with the limited frequency resources available to amateurs, led to near intolerable levels of AM voice interference.

Many, in their backyard workshops, looked for ways to cram more voice signals into the fixed amount of spectrum (sounds familiar, doesn't it!). A few investigated single sideband, suppressed carrier technology and by 1951 several test stations were operational on the new mode.

Central Electronics is generally credited with giving the initial push that got amateur single-sideband off the workbench and into the ham shack. The Company's first commercial product, the Central Electronics 10A was formally released in September 1952. Central's 10-A took Don Norgaard's "Single Sideband Junior" exciter concept (originally featured in General Electric's Ham Notes) and made it into a viable system. The 10-A used the heterodyne scheme whereby the single-sideband signal was first generated at 9MHz and later mixed, using either crystals or an external VFO, to the desired output frequency.

Effectively, the 10-A used the heterodyne principal in a manner typical for high performance receivers of that time and was the first amateur transmitter to utilize a mixing scheme. The result was a stable, low cost single sideband exciter which was within the financial grasp of virtually any amateur.

Central's founder, Wes Schum, W9DYV, was a major influence in the single-sideband movement. His combination of excellent engineering skills, the ability to explain complex topics in easily understood terms,

his unstoppable spirit and light-hearted personality were then, and remain today, unmatched.

Central continued to manufacture a line of high quality products, which culminated with the Company's 100V and 200V transmitters. Designed by Schum and his lead engineer Joe Batchelor, these transmitters were decades ahead of their competitors.

Central became, in late 1958, a subsidiary of Zenith Electronics and continued transmitter production until 1962 when the Company was suddenly, and unexpectedly, deactivated.

For collectors, the 100V and 200V represents the highest standard of vacuum tube transmitters ever made. They offer, today, robust reliability, excellent audio quality and command a place in any serious radio equipment collection.

A total of fifteen hundred 100Vs and five hundred 200Vs were manufactured. Due to their limited product and relatively high price (\$800 in 1959) few were ever scrapped and most survive, today.

Thanks to CE-Multiphase



200V Transmitter



The SWAP SHOP

Club members may list their wares in the newsletter. Send descriptive information to Armand at wa1uqo@arri.net, or call me at 508-838-8353. The Swap Shop is presented in the newsletter as a benefit to our members. RARC takes no responsibility for items sold or traded in this newsletter. The ad will appear three times unless extended. Interested parties will contact you directly. **You must be an RARC member to place an ad.**

Thought For The Day

I learn from the mistakes of people who took my advice.

Rick Waller	KA4OHM	President	(804) 971-5815	president@rarclub.net
Darrell Basinger	WW4F	Vice President	(804) 672-7928	vicepresident@rarclub.net
Dave Robinson	KJ4LHP	Secretary		
Ken Leidner	WV0L	Treasurer		

