



THE RICHMOND HAM

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February 2020

THE RICHMOND AMATEUR RADIO CLUB will meet Friday, February 14th 2020, 7:00PM, at the Bon Air United Methodist Church, 1645 Buford Road.

Coming Events:

RARC VE testing session March 14th

This Month's Program:

5G – Coming for your phone, tablet, refrigerator

Faster and faster; we all – well at least our kids – want to connect with and watch everything on their phones and tablets without wires. And we want it to run fast. Then there are the appliance makers who want us to replace our appliances – TVs, refrigerator, stove, you name it – with the latest “smart” appliances.

5G is the latest, fastest wireless technology for phones, tablets, laptops, and now refrigerators, etc. It means “fifth generation” to replace both 4G-LTE and WiFi that we currently use.

Technically it's difficult and expensive to do. This lecture will cover what it is, where it came from, the challenges, and when to expect the first parts to arrive.

Bruce MacAlister, W4BRU

Richmond Amateur Radio Club Meeting Minutes

January 10, 2020

The regular meeting of the Richmond Amateur Radio Club was called to order at 19:00 on January 10th, 2020 at Bon Air United Methodist Church by President John DeMajo, (K5HTZ).

Members Present

All present signed RARC Log Book

Last month's Minutes – Approved unanimously.

Treasurer's Report

1) Ken Leidner, (WV0L) gave the Treasurer's Report. We had an ending balance of

\$12,559.76. The Report was approved unanimously.

2) Ken presented new membership applications: Joseph Marino, Jr. (KV4VN); Wanda Marino (KN4ZRV); Raymond Robins (KN4OJB) and Joseph Hart-Bowley. All were accepted unanimously by voice vote.

Committee Reports

1) Dr. Joe Palsa (K4WRY) reported that ARES Connect is growing, with over 200 members registered

2) Win Grant (W4WIN) reported that an amendment has been introduced to SB136 (Distracted Driving) to exempt licensed Hams.

3) .Show and Tell items were a Sony portable radio with an attached solar panel, and 2 different homebrew Mag Loops by Dan Brown, W4ERF

Adjournment: Motion to adjourn by David Robinson (KJ4LHP) and seconded by Bruce MacAlister (W4BRU). Meeting was adjourned by voice vote.

Program

A demonstration and construction of loop antennas by John De Majo, K5HTZ and Ken Zutavern, K4ZUT

The next general meeting will be held at 19:00 on February 14th, 2020 at Bon Air United Methodist Church.

Minutes respectfully submitted by:

David F. Robinson ,(KJ4LHP),

From The Prez

Well FrostFest has come and gone. This year's fest was one of the best that I can remember in my ten years of living in Virginia.

The RARC has once again been remembered in the distribution of a succession, that of Morris Goldberg. Morris was an active member in

years past, and he served as treasurer some twenty years ago. Be sure to watch the newsletter ads for some of the items that his daughter Rita generously donated to the club, and there will be items from this and other successions and donations that will be offered in our next yard sale which is planned for late spring.

The builders' group is about to embark on another project, this time a transceiver kit. Steve Boles is coordinating the orders for the kits for our members, and we will be meeting soon at the QTH of Ken, (K4ZUT) to assemble them. The builder's group has become one of my favorite activities with RARC, and I encourage anyone who likes to build things, or just meet in a relaxed atmosphere for some good information sharing, to attend one of Ken's meetings.

Finally, we still have a few openings for presentations at our Friday evening chapter meetings. If you have something you would like to present, please contact me and I will fit you in on one of the open nights.

73

John DeMajo K5HTZ

RARC VE News FCC EXAMS EVERY OTHER MONTH

RARC offers VE Testing Sessions on the second Saturday of odd months except June to cover Field Day instead of July.

The March testing session will be on the 14th at the Bon Air United Methodist Church, 9 AM.

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

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 \$20.00

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 now 1284.0000 (-20). In addition to our Wednesday local D Star net (below), we link the D Star VHF module for the National Capital Region D Star Net on Wednesday nights at 9pm. On Tuesday nights at 9pm, we link our VHF module to the North Carolina D Star Net, and on Sunday nights at 9pm to the South Eastern D Star Weather Net.

Beginning on March 5, 2014, the RARC D Star Net which meets on Wednesday nights at 8:00pm will be accessible on our three D Star modules, all of which will be linked.

You can use any of the three frequencies, 2 meters, 70 cm or 23 cm, and you should hear and be heard by everyone.

If you participate in the net via DVAP or DV Dongle, you must link your device to Ref 062D rather than to any of our modules. Since the W4FJ stack will all be linked to Ref 062D, anyone linked to that reflector will be connected to the net.

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

MRA

Interested in information or support of the **Metropolitan Repeater Association (MRA)?**

Call Ed, KG4SNK, at 804-513-1947. The sole business of the MRA is to own, operate and maintain the 145.430 repeater.

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!

Virginia QSO Party !

Never too early to plan ahead. The Virginia QSO Party will be on the weekend of March 21-22. Details can be found here,

https://www.qsl.net/sterling/VA_QSO_Party/2020_VQP/2020_VQP_Main.html

Undersea Expedition Planned to Retrieve Titanic's Radio Gear

The company with sole rights to salvage artifacts from the RMS *Titanic* has gone to court to gain permission to carry out a "surgical removal and retrieval" of the Marconi radio equipment on the ship, a *Washington Post* [article](#) reports. The *Titanic* sank in 1912 on its maiden voyage after striking an iceberg in the North Atlantic. As the radio room filled with water, radio operator Jack Phillips transmitted, "Come at once. We have struck a berg. It's a CQD, old man," and other frantic messages for help, using the spark transmitter on board. CQD was ultimately replaced with SOS — which Phillips also used — as the universal distress call. The passenger liner RMS *Carpathia* responded and rescued 705 of the passengers.

As might be expected, the deteriorating Marconi equipment is in poor shape after more than a century under water. The undersea retrieval would mark the first time an artifact was collected from within the *Titanic*, which many believe should remain undisturbed as the final resting place of some 1,500 victims of the maritime disaster, including Phillips. The wreck sits on the ocean floor some 2 1/2 miles beneath the surface, remaining undiscovered until 1985.

A just-signed treaty between the UK and the US grants both countries authority to allow or deny access to the wreck and to remove items found outside the vessel. "This momentous agreement with the United States to preserve the wreck means it will be treated with the sensitivity and respect owed to the final resting place of more than 1,500 lives," British Transport and Maritime Minister Nusrat Ghani said in a statement.

The request to enter the rapidly disintegrating wreck was filed in US District Court in Eastern Virginia by RMS *Titanic*, Inc. of Atlanta, which said that it hopes to restore the *Titanic* radio transmitter to operating condition, if it is allowed to go forward.

The company plans to use a manned submarine to reach the wreck and then deploy a remotely controlled sub that would perforate the hull and retrieve the radio equipment.

ARRL News 02/04/2020

FrostFest Well Represented!



The SWAP SHOP

Club members may list their wares in the newsletter. Send descriptive information to Armand at wa1ugo@arrl.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.***

Wanted: sub-miniature electron tubes military surplus of the types JAN-CK6418 and JAN-CK6206 or equivalent pentodes with 1.25 vdc filament voltage rating. Will buy or trade.
Contact Alex Sahhar KN4QGQ at agsahhar@gmail.com

For Sale: Cushcraft 70 centimeter FM Yagi antenna, model # A449-6S. 440 - 450 MHz, 6 element, app. 10 dBd gain, boom length 2.9 ft. Excellent condition as never used outside. With mounting hardware and instructions. \$20. Contact Marshall, N4XBP, at marshe73@verizon.net or (804) 339-7786

For Sale: Astron 12 amp power supply, Model # RS-12A. Near excellent condition. Works fine. \$20. Contact Marshall, N4XBP, at marshe73@verizon.net or (804) 339-7786

For Sale: Kenwood TS430s, PS430 power supply and AT250 antenna tuner for sale \$950 plus shipping in US. It passed all the tests, USB, LSB, CW & AM on the Ham bands. Bought new in the box, 1984. call Bruce Haynes at brucehaynes@comcast.net

Cushcraft A4S 20-15-10 Beam Antenna <https://www.cushcraftamateur.com/Product.php?productid=A-4S>. A4S is the true, high performance tribander for 2-15-10. Precisely tuned high-power traps, carefully selected element lengths, and proper spacing combine to make the A4S the preferred antenna for your HF work! This is the premium antenna with all the features that you want. High gain, low SWR, and wide bandwidth keep the contacts coming in. All U-bolts, clamps and hardware are stainless steel. A4S has pinned boom sections and formed aluminum brackets to keep elements straight in all conditions. Our solid construction keeps the A4S on the tower! The antenna is only 2-years old and is ready for immediate pick up at my QTH. I am asking \$450.00 . Please contact me at 804-730-0221 or e-mail me at kj4it.jw@gmail.com 73, Jerry KJ4IT

2225 Tektronix Analog Oscilloscope: The Model 2225 is a 50 MHz analog oscilloscope from Tektronix. Measure voltage or current signals over time in an electronic circuit or component to display amplitude, frequency and rise times, etc. Applications include troubleshooting, production test, and design. This scope comes with an operating manual, and 10:1 Scope Probe. I am asking \$275.00 . Please contact me at 804-730-0221 or e-mail me at kj4it.jw@gmail.com 73, Jerry KJ4IT

I am selling a GE MVS 40w 2 meter radio with APRS cable mod, Garmin marine GPS, TinyTrak3 interface module and home built MVS programmer / tinytrak programmer. This is a complete functioning system; just connect to an antenna, plug it into a cigarette lighter and it's on the air. It is currently programmed with my call sign; I could tell you how to reprogram it with yours. \$150. Call John Harlow @ 804 464 8248.

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The Richmond Amateur Radio Club has a set of original complete years of QST from 1925, 1927, 1928, 1929, 1930 and 1931, available for sale in ARRL binders, for \$25 per year. We also have a B&K 15Mhz oscilloscope for sale \$40. Proceeds of sales go directly into the RARC club treasury. These old issues of QST are priceless for anyone interested in the history of ham radio and are being offered for way below what QSTs are selling for on EBAY. Contact John DeMajo, K5HTZ (jdemajo@demajo.net) if interested.

Thought For The Day
You never learn anything by doing it right.

John DeMajo	K5HTZ	President	(504) 858-7689	jdemajo@demajo.net
Allan Johnson	WA3J	Vice President	(804) 318-6951	wa3j@arri.net
Dave Robinson	KJ4LHP	Secretary		
Ken Leidner	WV0L	Treasurer		



"DO YOU HAVE A NEW GIRLFRIEND? YOUR HEART KEEPS
SPELLING OUT K-I-M-B-E-R-L-E-Y IN MORSE CODE."