



Win Grant, (W4WIN) reported that the computer purchased for the D-Star repeater was working well.

John DeMajo, (K5HTZ), asked for the clubs input into what should be done with the items in the clubs storage locker. After discussion a motion was passed to discontinue the use of the locker. The IC-7300 would be put up for auction to club members, the locker would be open on Oct 16th for 2 hours for interested parties to survey the contents and make offers for items and the remainder to be taken to Ken Leidner's for temporary storage until the next available opportunity for electronic recycle.

Adjournment at 07:21

Program: This evenings presentation was by Ken Silverman, (K2KW) on Vertical Antennas.

The next general meeting: November 12th, in person at the church and via ZOOM.

Respectfully submitted by Armand Hamel, (WA1UQO)

From The Prez

In QST this month, there were a number of interesting articles concerning grant awards for the purpose of engaging and educating youth in Amateur Radio. One such group, Amateur Radio Digital Communications (ARDC) was specifically mentioned in that the organization donated \$18,000 to an amateur radio club in northern Utah for just that purpose. I did a little research and ARDC regularly awards such grants. At one of our recent meetings, we heard from Nashua Radio Club, a club of the year award winner, that engaging youth is the future of Amateur Radio. Given our club's participation with the on-going middle school ISS contact project, and other recent projects in which we have participated, the Richmond Amateur Radio Club is in a perfect position to seek grant money for the extension of our outreach programs. In our recent classroom encounters with the students at Woodson Middle School, we actually had youngsters wanting to know when they could have a weekend license class so that they can test for their technician licenses.

As I see it, the window has finally opened to allow us to begin recruiting new hams from these younger age groups. We have both the proverbial "foot-in-the-door" to sell our service, and there seems to be funding available through grants and corporate participation if we just go after it. The only thing stopping us is participation. Building a first class educational program for youth, will take not only money, but will require volunteer time from members.

If we want this club to be a leader in the educational outreach, we will need volunteers to step up to the task of first applying for grants and then carrying out the programs that are being funded. The Woodson ISS program is going well, but it is being carried out by a small group from within the club. If we are to

broaden out outreach coverage, it will be necessary to engage all members, in some way, to do their part.

I also wanted to make the membership aware that recently, questions were brought up concerning the club's claim to have been founded in 1916. A previously appointed history committee had looked at this some years ago. With better access to research material now, we have assembled a new committee to research the data presented by the previous committee, and to determine if any new information has come to light. Hopefully, this will answer any questions regarding our founding.

As we enter the Thanksgiving and holiday seasons, best wishes to everyone, and get your turkeys early!

Thanks and 73,
John DeMajo

**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 November testing session will be on the 13th.
10:AM at Chesterfield Library Bon Air Branch
9103 Rattlesnake Rd, North Chesterfield.

Pre-registration Required.

Walk-ins Accepted.

Pre-Registration required for Techs and for special needs applicants. Also 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

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

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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!

RARC ELMER PROGRAM

Over the last few years, our license school and volunteer examiner programs have added many new hams to the ranks. When asked about the services they receive from the club, many new hams say that they need some further help in order to set up a station and to feel comfortable in communicating on the air.

To this end, it has been suggested that we place more emphasis on helping newly licensed hams gain the confidence and technical help that they need to get started. Suggestions have centered around the need for a formal Elmering program. In order to fulfill

that need, we would need a committee of volunteers who would be willing to help, on an as-needed basis, one or two new hams per Elmer. This would involve possibly a few Zoom sessions, and perhaps answering an occasional question. To assist new hams, and minimize the need for help by the Elmers, we will be designing a kit of material that will be issued to anyone who obtains a technician license through our programs. It will include items such as a script that could be followed when attempting to use repeaters, a chart of allowable frequencies and modes, an explanation of how to program a VHF/UHF radio, and most importantly a membership application to the RARC.

Along with the kits, we would like to establish a pool of persons who would be willing to assist these new hams while they are getting started. Any member who would be interested in helping in this way, please contact Bruce McAlister, W4BRU.

Ham Radio at Woodson Middle School Hopewell – Status

This is to bring club members up to date on our preparing the 6th grade science classes for the ARISS space station contact at the end of February 2022. Four of us have taught two classes for the 80 students. Sixth graders (11 to 13 years old) are a pretty feisty bunch!

The first class was about waves of energy that we illustrated by having them use paper cups and string to communicate with each other. With these kids it was pretty wild but they got to experience attenuation (finger on the string), shared channel (two strings and four cups connected), why you have to say "over" (switching from talk to listen with your eyes closed), etc. We illustrated air compression, visualization with sine waves, and different frequencies. The instructors were Ken Leidner, WV0L, Mike Owens, K4RKO, and me, W4BRU.

The second class was using dual-band HTs. The RARC has about 30 HTs that we use for Technician test-takers who become club members. We did HTs sending a formal message. You can imagine what a challenge that was with 6th graders! Unfortunately, We're teaching this raw with no practice on 6th graders so the first class is a little rough.

One technique I learned by the third class is to put whatever gear you want them to use in front of them and have us hams go from student to student, turn it on, and do some action that we instruct. They need discipline and it works best if delivered individually. They respond well often with questions.

We gave each student a dual-band HT to use. We explained that you have to have a license to use them

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and we had a little back-and-forth on what you have to have a license for, as in would you want your bus driver to not have a license. We told them they would be transmitting with our licenses under our control. We then divided them up into two teams, half went outside, half stayed in the room. We had each student send a formal message of their name and describe where they were for rescue. It kind of worked in a kind of chaotic way.

I showed some slides with diagrams about other "two way radios" like their Chromebooks, cell phones, CB radios, and ham radio. I'm especially proud of my Chromebook trick.

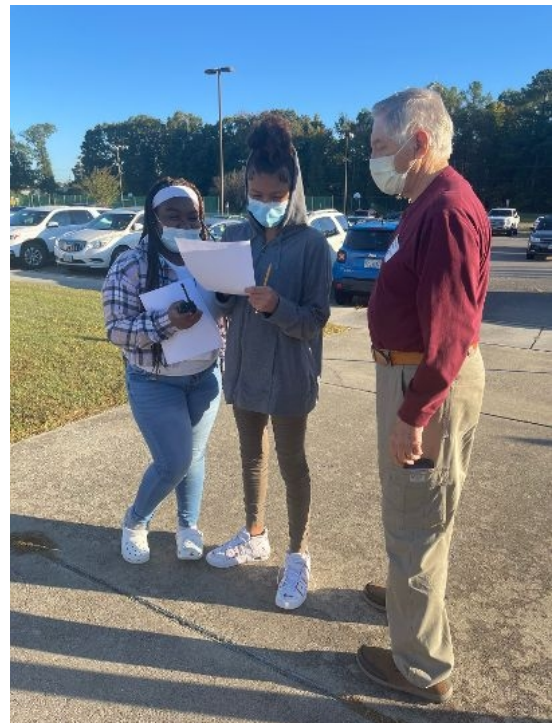
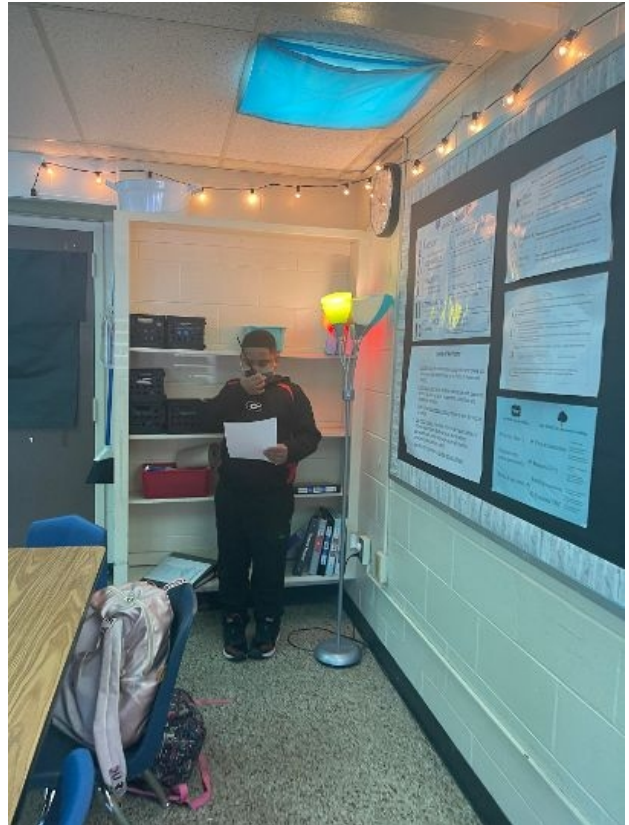
The teachers were John DeMajo, K5HTZ, Mike Owens, K4RKO, and me. The science teacher took pictures and a video of us teaching the second class, some of which are included here.

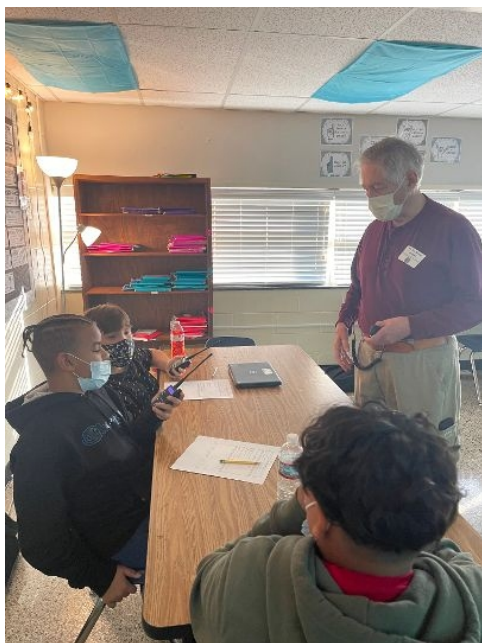
One of the classes has a group of especially inquisitive and interested students. A couple of them wanted to know how they could get their licenses. John said we could do it via Zoom and the teacher said winter break (aka, Christmas) would be the best. I'm going to find out who and how to contact the parents.

Our third class will be using keys to send Morse code. That has been very popular when we've had keys at the MakerFest. Rob Thomas, KC4NYK, is using his industrial designer skills and a well-equipped workshop to build 25 CW keys. A date has not been set but the science teacher said after Thanksgiving and before Christmas might be best.

The full RARC team supporting this effort are:

- John DeMajo, K5HTZ
- Thomas Flippin, KD4CMK
- Ken Leidner, WV0L
- Bruce MacAlister, W4BRU
- Mike Owens, K4RKO
- Robert Thomas, KC4NYK
- Lauren Ware, WD4FMG
- John Watkins-Pitchford, KX4QC
- Ken Zutavern, K4ZUT
- Bruce MacAlister, W4BRU

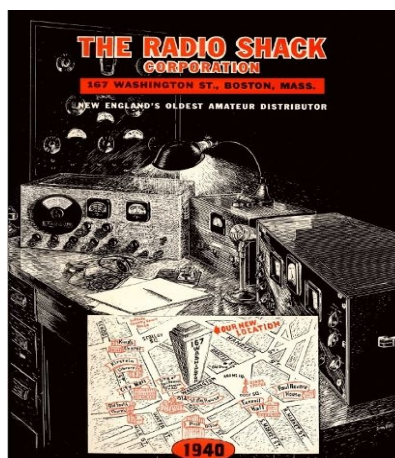




The SWAP SHOP

Club members may list their wares in the newsletter. Send descriptive information to Armand at wa1uqo@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.***

I am looking for a reasonable 1940s wood teacher's desk to use in a display of vintage ham equipment. Desk must be similar (drawer handles, etc.) to the photo. Single or double drawer stack ok. The exhibit will be a re-creation of the cover of the 1940 Radio Shack catalog, so style must match desk of that period. Normal wear is ok as long as desk is structurally sound and refinishable. Prefer something in the Richmond area. Contact John DeMajo jdemajo@demajo.net.



For Sale: Yaesu 857 with LDG YT-100 Autotuner. \$700.00 Contact David Robinson at (804) 833-3351 or thedarbinian@comcast.net.

Thought For The Day

Children seldom misquote you. In fact, they usually repeat word for word what you shouldn't have said.

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		

