



# THE RICHMOND HAM

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May 2019

**THE RICHMOND AMATEUR RADIO CLUB** will meet Friday, May 10th 2019, 7:00PM, at the Bon Air United Methodist Church, 1645 Buford Road.

## Coming Events:

RARC VE Testing Session. May 11<sup>th</sup>. 2019.

RARC Fleamarket. May 11<sup>th</sup>

RARC 8<sup>th</sup> Annual "RadioRun"!! June 1st

Manassas Hamfest, June 15<sup>th</sup>

Field Day, June 22-23rd

## This Month's Program:

Mac Lyle KR4PC, our contact with the Scouts project in Goochland, is going to join us as the May meeting speaker.

## Meeting Minutes April 12, 2019

The regular meeting of the Richmond Amateur Radio Club was called to order at 19:00 on April 12th, 2019 at Bon Air United Methodist Church by President John DeMajo, (K5HTZ).

### Members Present

All present signed RARC Log Book.

**Last month's Minutes** – Motion to accept by Bruce MacAlister, Second by Tom Flippin, carried.

### Treasurer's Report

Ken Leidner, (WV0L) gave the Treasurer's Report, with an ending balance of \$9370.26. The Report was approved unanimously. Ken presented 1 prospective member: Mike Friedman (KN4SYD). Motion to accept by Tom Flippin, approved unanimously.

### Pending VA. Law concerning Ham Radio:

Mac McNeer, (K4YEF) updated us on the pending Cell phone law, which, due to poor wording, will apply to Amateur Radio used in motor vehicles. Tom Flippin made a motion and David Robinson seconded that Win Grant will

form a committee to pursue changing the law.

### Committee Reports: No Reports

### New Business and Announcements

RARC will hold a Yard Sale on May 11<sup>th</sup> from 8 AM until Noon at Bon Air United Methodist Church. Items for sale will consist of surplus RARC equipment and donated items. Proceeds to benefit RARC Treasury.

### Adjournment

Meeting was adjourned by vote. Rob Thomas, KC4NYK gave a talk on various low cost ways to use Ham Radio.

The next general meeting will be at 19:00 on May 10th, 2019 at Bon Air United Methodist Church.

Minutes respectfully submitted by: David F. Robinson ,(KJ4LHP),

## 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: Bon Air United Methodist Church, 9 AM.

The May testing session will be on the 11th at the Bon Air United Methodist Church, 9 AM.

If you have questions about a session, please see our website, [www.rarclub.net](http://www.rarclub.net) or contact Allan, WA3J, at 804-399-8724, or [ve@rarclub.net](mailto: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](http://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.

<b>Sunday</b>	7:00 pm	50.135	USB
	7:30 pm	52.525	FM
<b>Wednesday</b>	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!

### Ham Gear Sale Saturday May 11, 8am to noon

We have an RARC cabinet full. Members are bringing in their stuff. We have gifts from estates. Transceivers, keys, test gear, coax, meters ... we haven't seen it all yet.

**Deals, deals, deals** all to benefit the Richmond Amateur Radio Club. And we get some of our storage space back.

Location: Bon Air United Methodist Church, 1645 Buford Road, Richmond, VA 23235. Please enter the church from the West Bon View Drive side of the building.

Some of the gear - but not all - viewable at the RARC monthly meeting Friday, May 10, 7pm.

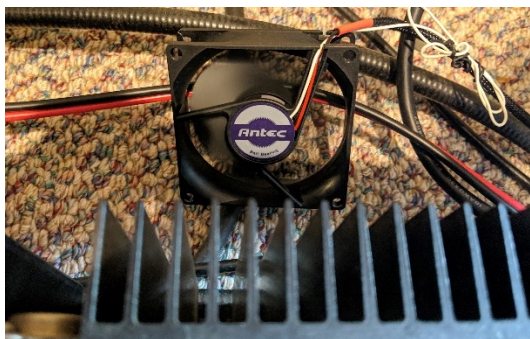


### Tech Tip – Another Astron Power Supply Story

I run a dedicated Astron RS-35A power supply to my Flex 6600M HF rig, which is rated at 100 watts output. I recently checked the current draw with the radio putting out about 65 watts using a clamp on digital volt meter that works with DC voltage. The radio was drawing 21 amps. Astron rates these 35 amp supplies at 25 amps continuous duty and 35 amps "ICS" which they define as "Intermittent Communication Service (50% Duty Cycle – 5 minutes on, 5 minutes off.)" When I touched the heat sink on the back of the supply after I had been running FT8 for about 30 minutes, it felt uncomfortably hot so I checked the temperature on the heat sink with an infrared thermometer. It was 136 degrees.

Knowing that heat is a bad thing for electronic components, I found an 80mm computer fan and placed it behind the power supply, aimed at the heat sink. The fan runs on 12 volts, so there was no problem with getting power to it. With the fan running

and using FT8 mode for another 30 minutes, the temperature on the heat sink stayed at 86 degrees. That's a 50 degree difference which I think will only help the power supply last longer and may prevent a problem. At the moment, the fan is sitting on the floor propped against a piece of coax. When I rearrange things in the shack in a few months, I will come up with a more elegant way to mount the fan.



Win – W4WIN

## Amateur Radio in Space Pioneer Astronaut Owen Garriott, W5LFL, SK

04/15/2019

The US astronaut who pioneered the use of Amateur Radio to make contacts from space — Owen K. Garriott, W5LFL — died April 15 at his home in Huntsville, Alabama. He was 88. Garriott's ham radio activity ushered in the formal establishment of Amateur Radio in space, first as SAREX — the Shuttle Amateur Radio Experiment, and later as **ARISS** — Amateur Radio on the International Space Station.

"Owen Garriott was a good friend and an incredible astronaut," fellow astronaut Buzz Aldrin tweeted. "I have a great sadness as I learn of his passing today. Godspeed Owen."

An Oklahoma native, Garriott — an electrical engineer — spent 2 months aboard the *Skylab* space station in 1973 and 10 days aboard *Spacelab-1* during a 1983 Space Shuttle *Columbia* mission. It was during the latter mission that Garriott thrilled radio amateurs around the world by making the first contacts from space. Thousands of hams listened on 2-meter FM, hoping to hear him or to make a contact. Garriott ended up working stations around the globe, among them such notables as the late King Hussein, JY1, of Jordan, and the late US Senator Barry Goldwater, K7UGA. He also made the first CW

contact from space. Garriott called hamming from space "a pleasant pastime."

"I managed to do it in my off-duty hours, and it was a pleasure to get involved in it and to talk with people who are as interested in space as the 100,000 hams on the ground seemed to be," he said in an interview published in the February 1984 edition of *QST*. "So, it was just a pleasant experience, the hamming in particular, all the way around."

Although Garriott had planned to operate on ham radio during his 10 days in space, no special provisions were made on board the spacecraft in terms of equipment — unlike the situation today on the International Space Station. Garriott simply used a hand-held transceiver with its antenna in the window of *Spacelab-1*. His first pass was down the US West Coast.

"[A]s I approached the US, I began to hear stations that were trying to reach me," he told *QST*. "On my very first CQ, there were plenty of stations responding." His first contact was with Lance Collister, WA1JXN, in Montana.

ARISS ARRL Representative Rosalie White, K1STO, met Garriott when he attended Hamvention, "both times, sitting next to him at Hamvention dinner banquets," she recounted. "Once when he was a Special Achievement Award winner, and once with him and [his son] Richard when Richard won the 2009 Special Achievement Award. Owen was unassuming, very smart, kind, and up to date on the latest technology." Garriott shared a Hamvention Special Achievement Award in 2002 with fellow Amateur Radio astronaut Tony England, W0ORE.

ARRL





## Richmond Amateur Radio Club (RARC) 8th Annual June 2019 "Radio Run"

### Purpose:

RARC wants to encourage ALL amateur radio operators to be MORE active on ANY band, frequency, or mode! Even if you are not (yet) a licensed amateur radio operator, you can still participate!

### Rules:

1. You must make at least 1 (one) QSO each day of the month of June
2. You must operate on an Amateur Band/Frequency
3. You must generate RF on an Amateur Band/Frequency at your station
4. If you are NOT a licensed Amateur Radio Operator you must listen to an Amateur Band/Frequency using an RF receiver
5. Not Allowed (QSO does not count)
  1. DV-Dongle (the blue model)
  2. IRLP using your phone
  3. Echolink, etc.
  4. No "radio-reference.com" or internet based radio monitoring sites for listening
  5. Remember, if you don't generate or receive Amateur Band/Frequency RF, the QSO does not count!
6. We're going to use the honor system for keeping track of all who complete the "Radio Run"! (Be honest – which is a pretty good policy anyway ☺)
7. IF you have made at least 1 (one) contact on each and every day of the month of June, please contact Jim Bates with the following information:
  1. Call Sign (required unless you're a SWL)
  2. Name (optional)
  3. E-Mail Address and/or Telephone Number (optional)
  4. If you kept track of your contacts, the # of contacts you made during the month of June, 2019 (optional)

If you have questions, comments, or concerns please contact Jim Bates or RARC.

Contact Information (e-mail is preferred)

Jim Bates/K8OI

(804) 690-9143

[jim.bates@protonmail.com](mailto:jim.bates@protonmail.com)

p.s. I respond to every e-mail. If you don't receive a response to your e-mail back within 24 hours, please double check the e-mail address and resend your e-mail or CALL ME :)

## World Scout Jamboree Gearing Up for Significant Amateur Radio Presence

Amateur Radio will play a role in this summer's 24th World Scout Jamboree in West Virginia, the first World Jamboree held in North America since 1983. The Jamboree has chosen the theme "Unlock a New World." Thousands of Scouts and Scout leaders from some 200 countries are expected to attend. The Jamboree's Amateur Radio Exhibit will use the call sign **NA1WJ** — North America's 1st World Jamboree. It will be on the air during the event, July 22 until August 2, at the Summit Bechtel Reserve, hosted by Canada, Mexico, and the US. Amateur Radio testing is expected to begin as early as July 14. Operating frequencies will be posted in real time via [Facebook](#) and [Twitter](#) or via an [NA1WJ email group](#).

"The goals of the Amateur Radio station at the World Scout Jamboree are to introduce Amateur Radio to Scouts and Scout leaders through hands-on participation in two-way communication with other stations across the globe. This activity will also serve as the Amateur Radio voice of the Jamboree," the [World Scout Jamboree Amateur Radio Exhibit Operational Vision document](#) states. Other facets of Amateur Radio at the Jamboree will include Amateur Radio direction finding (ARDF), Amateur Radio satellite contacts, and a scheduled Amateur Radio on the International Space Station (ARISS) contact with an ISS crew member.

"We also expect to launch one or two balloons with Amateur Radio payloads and track them as they cross the Atlantic," the vision document continues.

Organizers are encouraging radio amateurs around the globe to get on the air during the World Jamboree to help NA1WJ demonstrate Amateur Radio for Jamboree visitors.

ARRL



## The SWAP SHOP

Club members may list their wares in the newsletter. Send descriptive information to Armand at [wa1uqo@arrl.net](mailto: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.***

### Wanted

Two (2) surplus type '30 (thirty) thermionic triode valves.  
Matched pair preferred.  
Will buy or trade.

Contact Alexander Sahhar at 804-560-3449 [agsahhar@gmail.com](mailto:agsahhar@gmail.com)

A donation of an older 2 meter rig (base or mobile, it doesn't matter) that doesn't do the CTCSS (PL) tones. I want to try creating my own tone generator to make these old radios work with the local repeaters. If successful, I will share the schematics and code with the group. The radio needs to be in working condition. Thank you. Please call Dan ( w4erf ) 540-872-5946 or email [chronobot2001@gmail.com](mailto:chronobot2001@gmail.com)

**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](mailto:brucehaynes@comcast.net)

### For Sale:

ICOM 756 pro2. Excellent condition. Box, Manual DC Cable, Microphone and laminated quick reference chart. includes external digital interface \$600.00

HEATH SB200 HF Linear Amplifier. Will run on 117VAC. Presently jumpered for 220 VAC. Manual and a spare set of Final tubes. New power supply, new fan motor. Very clean. \$300.00

MFJ Voice Keyer. Great for contesting. 5 memory channel recording storage. Remote control for triggering messages for transmission. Model MFJ-434B \$100.00

Contact NQ4A, Jon at 804-241-6555

## Thought For The Day!

***It's amazing how nice people are to you when they know you're going away.***

John DeMajo	K5HTZ	President	(504) 858-7689	<a href="mailto:jdemajo@demajo.net">jdemajo@demajo.net</a>
Allan Johnson	WA3J	Vice President	(804) 318-6951	<a href="mailto:wa3j@arrl.net">wa3j@arrl.net</a>
Dave Robinson	KJ4LHP	Secretary		
Ken Leidner	WV0L	Treasurer		



**Our Hobby Needs More Young Hams!**