



THE RICHMOND HAM

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November 2018

THE RICHMOND AMATEUR RADIO CLUB will meet Friday, November 9th 2018, 7:00PM, at the Kings Korner Restaurant at the Chesterfield Airport, 7511 Airfield Dr. North Chesterfield

Coming Events:

RARC VE Testing Session. November 10th.

This Month's Program:

Annual Banquet, Induction of Officers and Members most memorable QSO's

Roy Davis jr., WK4Y SK

Cliff was a long time member of RARC.

https://www.richmond.com/obituaries/davis-roy-jr/article_0d855b13-9970-5ec4-bd04-b6912122a1be.html?utm_source=WhatCountsEmail&utm_medium=Obituaries%20Daily%20Newsletter&utm_campaign=_Obituaries%20Daily%20Newsletter

October 2018 RARC Meeting Minutes

Meeting Date: October 12, 2018

Meeting Time: 7:00 P.M.

Presiding Officers: Jim Bates, President, K8OI; George Golding, Vice President, W3PPY; Tom Newman, Secretary, KJ4LVC; Ken Leidner, Treasurer, WVOL;

Directors: Tom Flippin, KD4CMK; Win Grant, W4WIN; David Robinson KJ4LHP; Allen Johnson, WA3J; Registered Agent for SCC: A.C. McNeer, K4YEF and also Trustee for W4ZA, A.C. McNeer; Trustee for W4FJ Mike Owens, K4RKO; and Newsletter Editor Armand Hamel, WA1UQO.

Meeting was opened by Jim Bates with the Pledge of Allegiance. Jim made mention of the effects of hurricane weather on our meetings,

September being canceled and October almost being canceled. With the help of Tom Flippin and the church office the election of new officers was being held as scheduled.

Then Jim had the members in attendance introduce themselves by name and their radio call sign. As there had been no meeting in September, the minutes for the August meeting was approved by voice vote.

The Treasurer Ken Leidner then gave a report on the finances of the club at that time. The amount that had been deposited in the club account for August for 50/50 and Library manuals had totaled \$110.00. Expenses had included Debit Card Current manuals for Library of \$71.42 resulting in a Balance for August of \$6,716.61. For September money had been deposited for books, classes, dues and banquet monies of \$970.00 bringing the balance to \$7,686.61. The Debit Card expenses for the month was reported as \$171.42 and resulted in a monthly Balance of \$7,515.19. Statistics for the year showed that member dues for about 147 members was \$2,050.00, 50/50 was \$269.50, books was \$164.35 and for the school \$975.48. The expenses for the year had been in radio equipment for \$1,724.57, postage of \$217.30 and insurance of \$425.00. Ken completed his report with introduction of new applications for membership which was then all approved by the members.

From committee reports Tom Flippin indicated that all radios were up and running.

Jim then had the members bow their heads in silent prayer in remembrance of the passing of Clif Mc Daniels KD4MNA now a silent key.

A. C. McNeer was then called on to make the presentation of the candidates for the next term. They were for President John DeMajo K5HTZ, President; Allen Johnson WA3J Vice President; David Robinson KJ4LHP Secretary; Ken Leidner WVOL, Treasurer; and for Board Members Chris Pohlad-Thomas KC1E and Win Grant W4WIN. After the presentation the members voted and all

nominated candidates were selected for their respective positions.

For last comments from Jim as President he expressed his appreciation to the officers and board members and the regular members for how well they worked together and for the club in the past two years.

It was noted that the next testing for the various exams would be held November 10, 2018.

For Show and Tell, Rob Thomas KC4NYK, showed the group an antennae he had made to pick up satellite signals as they pass by. He also showed the group a tube type radio he had made.

Ken Leidner reminded the club that their dues were due on November 1, 2018. Regular dues were \$20.00.

A reminder was given from Jim that the next meeting would be at Kings Korner at the Chesterfield Airport for the Banquet and installation of new officers instead of at our regular location.

50/50 was drawn with two winners.

The meeting was adjourned followed by a presentation from Bruce McAllister W4BRU on Using Radio Waves to Study of the 2017 Eclipse. Very fine information shared with the program.

Respectfully submitted, Tom Newman, KJ4LVC, Secretary.

From The Prez

November 2018

November greetings from your "Lame Duck" President! I've been using the RARC gavel around the house all week, enjoying the "power" of telling my wife - "You're out of order!" and banging the gavel down on my desk, kitchen counter, and anywhere else I find appropriate. Well, OK, maybe not so much... I'm pretty sure if I did that once, I'd find the gavel being "banged" against my skull and I'd be told that "I'm out of order and in TROUBLE!"

I've been developing a transition plan with John (our President elect) to ensure we have a "smooth" transition of "power." You know how elections can be; the losers might play tricks on the winners - remove keyboard keys, hide the keys to the restrooms and stuff like that. So far, I haven't heard of anything like that - but you never know, time will tell!

John and I need your help - we've begun the process of developing the presentation calendar for 2019. We have a tentative outline, but always solicit feedback about YOUR interests! The good news is that we've completed 25% of the years presentations; please share your view(s) before the end of the year and help us develop programs and presentations that

you'll find valuable. If you have the desire to SHARE something you've worked, developed, or have a passion - please let us know as well - there are SO many different areas of interest in our fine hobby and helping others learn about them is really important.

The "transfer of power" (Installation of new Officers) occurs during our Banquet this Friday - please try and come; we have 50 members and significant others already signed up! Be part of the history - come enjoy some food, fellowship, and if you're so inclined - share your "best/most fun/most interesting/most whatever" QSO with the rest of us.

It has truly been my pleasure serving the RARC body. Thank you very much for your support!
73 de K8OI / QRT

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 November testing session will be on the 10th 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.

RSS – a quick summary of RARC news

Look near the top of the club web site, <http://rarclub.net/>, and on the left you see an icon that looks like something radiating a signal. Actually it is a quick way to check on new entries on the website called an "RSS feed." Click it and you get a summary of the last few posts. You can have it put as a link in your on the browser list as you see in yellow. So each day or four you click the that link and you get a quick list of the most recent posts. If one looks interesting, click it in the list and it takes you directly to it. If everything looks boring, just go back to what you were doing.

Reported by Bruce MacAlister, W4BRU

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!

RADIO 101 – CONCLUDING ISSUE #17

By John DeMajo, K5HTZ

As I sat down at my computer on a recent rainy Saturday afternoon, faced with the task of preparing my final article in the Radio 101 series, I became

acutely aware of the important role that Ham Radio has played in the development of technology. Just over one-hundred years ago, wireless communication was represented by a small number of experimenting "electricians," most of whom were working in garages and basements, and with mainly primitive devices that had been developed for the purpose of providing crude electric lighting in homes and buildings.

As someone who has lived through more than half of what is now one hundred twenty years of Radio's history, and who has personally witnessed the introduction of many landmark discoveries on the amateur radio horizon, I have come to appreciate, with the greatest respect, those innovators who made possible the hobby that we enjoy today.

If ever there existed a "repository" detailing the history of Ham Radio, the archives of the American Radio Relay League would most assuredly qualify for that distinction. Between the annual ARRL Handbook, and monthly issues of QST Magazine dating back to 1915, every communications landmark, over the last hundred plus years, has been well documented. Adequately taking even a cursory look at that history is a challenge that I have tried to meet throughout the entire Radio 101 series. I would respectfully suggest that every Ham, whether a seasoned Extra Class operator or a newly licensed Tech, spend a little time learning more about the history of the hobby, and realizing what challenges and sacrifices brought us to the state of Radio that we enjoy today. The time line that follows, should give the reader a little insight into what transpired over the last century, and just how far we have come:

1888 – Heinrich Hertz proves that electromagnetic waves can be made to travel through air.

1892-1902 – Nicola Tesla and others experimented with methods for sending and receiving Hertzian waves.

1894 – Guglielmo Marconi builds the first wireless transmission system and forms a company to further the development of wireless communications.

1902 – The first publicly acknowledged use of the word "Radio" to describe transmission of Hertzian waves.

1906 – Reginald Fessenden transmits sound modulated radio waves using a synchronous spark gap.

1908 – Albert S. Hyman, Bob Almy and Pookie Murray, members of the Harvard Radio Club, combine their initials into a call sign for their experimental radio station "HAM." Their call becomes the official "nickname" of the amateur radio hobby.

RICHMOND THE HAM November 2018

1909 – Wireless Association Of America publishes the first directory of radio stations in the U.S.

1912 – Marconi opens the first factory specifically intended for the manufacture of radio equipment.

1913 – Federal Radio Commission established for the purpose of licensing radio stations and operators.

1914 – Radio operator Hiram Percy Maxim introduces the concept of an organization of amateur radio operators to the Hartford Radio Club. Clarence Tuska, leader of the Hartford organization, agrees to sponsor Maxim's proposal. By the end of 1914, there were 240 members.

1915 – After disagreements arose in the Hartford Radio Club, the American Radio Relay League split off and was officially chartered under Connecticut law. In that same year the first issue of the league's official journal, "QST" was published.

1914 - 1918 – Amateur Radio activity was suspended because of World War I, but the ARRL remained active in the recruiting of radio operators for the military.

1919 – The ARRL petitions Congress to allow Amateur Radio activities to resume. The League undertakes a financial reorganization plan and membership now numbers 7500 stations.

1920 – First regular commercial broadcast station goes on the air from Westinghouse plant in Pittsburgh. Research involving the DeForest vacuum tube continues, allowing modulated radio to become attainable for Amateur Radio, commercial communications, and in-home entertainment.

1923 – CW communications established between Connecticut and France. ARRL began working with the government to develop specific harmonic band allocations for use by the Amateur Radio service.

1927 – ARRL introduces the first official radio contesting known as the "International Relay Party." The name was later changed to "ARRL International DX Contest," which remains in effect today.

1930s – Development somewhat curtailed by The Great Depression. Maxim dies in 1936.

1934 – Federal Communications Commission established to continue duties formerly performed by the Federal Radio Commission.

1940s – World War II stopped all Ham radio activity as many Hams joined the military as radio operators. At home, radio manufacturers, Hams and government teamed up to develop new technology for the war.

1946 – WW-II ended and a flood of military trained radio operators returned home to continue the development of Ham radio. New wartime technologies began to find their way into civilian communications and applications.

1950 – The ARRL becomes heavily involved in the development and implementation of Civil Defense.

The early 1950s also saw the proliferation of television and problems with interference from Hams. Amateur radio assists in providing communications with remote areas of the world.

1952 – RACES (Amateur Radio Civilian Emergency Service) was officially developed as result of input from the American Radio Relay League and the Department of the Army's Office of Civil Defense.

1953 – Color television introduced in the U.S.

1955 – Reliable expansion of Ham Radio into the VHF and UHF spectra is now reality.

1957 – While the concept of Single Sideband had been first proposed in 1915, and experimented with during WW-II, 1957 saw it's first practical introduction into the Amateur Radio Service.

1960 – Philco's Courier 1B, first active communications relay satellite, is launched.

1961 – OSCAR I satellite launched into space, giving Amateurs access to satellite communications. The idea of incentive licensing was also introduced in 1961.

1970 – LORAN has developed as the standard for radio navigation systems.

1975 – The first "personal computer" was introduced.

1976 – AT&T begins use of "cellular" mobile phone service. Amateur VHF repeaters with "autopatch" telephone capabilities are expanding the role of VHF and FM communications.

1987 – The Global Positioning Satellite network is launched.

1991 – Code requirement was removed from the Technician Class license.

2000 – Licensing was restructured. New licenses were reduced to three classes, Technician, General and Extra. Code requirements were reduced to 5 WPM for General and Extra. Although the concept of volunteer examiners dated back to 1912, the FCC no longer provided ham license testing at field offices, and all amateur license testing was turned over to the newly formed corps of volunteer examiners as authorized by the Commission.

2003 – Code requirements were removed from all classes of licenses. With the proliferation of digital and satellite communications, the commercial radio industry began phasing out of ship-to-shore and other commercial CW stations.

2010 – Internet integration into ham radio allows repeaters to be networked together, and remote stations to be operated through computers.

TODAY: Amateur radio today is a mix of computer, radio and internet technologies. Digital modes are common in today's Ham communications and, thanks to integration of the Internet into Ham radio, operators are now able to travel both the airways and the Web in order to establish communications that would not be available through direct RF between stations. The Amateur Radio Service fulfilled its original mission, and Ham radio has evolved into a hobby that has provided a highly technically capable army of trained radio operators to serve the needs of our country and our communities.

In closing, I hope that you have enjoyed the look back at history that RADIO 101 has provided. It has been said that technology expands at logarithmic proportions. As we stand nearing the end of the second decade of the 21st Century, and look back at what has brought us here, one can only begin to imagine what the next hundred years will bring.

73's

John De Majo

RVA MakerFest busy for RARC crew

The annual RVA MakerFest October 6 at the Science Museum of Virginia attracted thousands again this year. The Richmond Amateur Radio Club has had tables there from the beginning. We aim to show that ham radio is very much alive, is very much up to date technically, and we're ready to teach the courses and give the tests so folk can get a license to transmit.

Thanks go to these hams who spent the day informing the many hundreds of visitor who stopped to ask questions: Ken Zutavern, K4ZUT, Armand Hamel, WA1UQO, John King, WB4NHX, Rob Thomas, KC4NYK, Maylon Pearman, N4EG, Bill Catogni, N4WLC, Judi LeHuquet, N4JDI, Tom Ebbert, KQ4BIZ, Steve Boles, WB4SED, and Dan Brown, W4ERF.

At one end of our tables we showed a SDR receiver displaying the spectrum of a received station. At the other end we had an in-progress build of a bag-of-parts receiver kit. In the middle were various radios we'd build, some test equipment, and ARRL brochures. Off to the back we had a loop, a transceiver, and 20 meters booming in. We even attempted a satellite QSO. We handed out many RARC cards.

It's a long day but more people see ham radio alive and well than at any other venue.

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.***

FOR SALE

MFJ-939Y3 AUTOMATIC ANTENNA TUNER Never used, kept covered in non-smoking home

On-line price is \$159.95 but your price is \$60.00.

Slightly weathered but NEVER USED **SteppIR 80m Vertical Antenna** CrankIR, 80m Adjustable Radial, Pole Extension, Quick Clamp Kits and Travel Bag On-line price is \$615.00 but your price is \$300.00.

Call Patrick Boland KE4BUO 804-594-6627 bolandpatrick55@yahoo.com

Thought For The Day!

Psychics never win the lottery. Why is that?

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