

QRA NEWSLETTER

QUANNAPOWITT RADIO ASSOCIATION

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CLUB CALL: W1EKT

ON THE WEB AT: WWW.W1EKT.ORG

NOVEMBER 2018

VOLUME 58, ISSUE 3

**QRA WAS FOUNDED ON NOVEMBER 18, 1948
IN WAKEFIELD, MASSACHUSETTS
1948-2018, OUR 70th YEAR**

CLUB OFFICERS

President – Don Melanson, KA1MAP
Vice President – Mike Rioux, W1USN
Secretary – Bob Reiser, AA1M
Treasurer – Jeff Hollis, W1CKH

Club Webmaster – Brian Gudzevich, WO1VES
Club Call Trustee – Brian Gudzevich, WO1VES
Nominating Committee- Barbara Day, KA1EDV
QRA 2-Meter Net- Brian Gudzevich, WO1VES
Tom Cefalo Jr. W1EX
Tim McNulty, K1TIM
Field Day Committee- Walter Callahan, KC1ENI
Jim Powers, KC1ENJ

BOARD OF DIRECTORS

Bill Watt, W1HN 2018-2019
John Carrick, KB1YEF 2017-2019
Tim McNulty, K1TIM 2017-2019
Brian Gudzevich, WO1VES 2017-2019

Education Committee- Jim Fisk, W1HL
Membership committee - **VACANCY**
Archives Trustee – Bob Reiser, AA1M
Speaker Committee - Mike Rioux, W1USN
John Carrick, KB1YEF
Banquet Committee- John Carrick, KB1YEF
Barbara Day, KA1EDV
Jim Fisk, W1HL

IS IT TIME TO PAY
YOUR DUES ?
NOW ONLY \$20.00

Dues can be paid to the club treasurer at the next meeting or sent to him at:
QRA c/o Jeff Hollis, W1CKH, 46 Bond St., Reading, MA 01867-2432

QRA MEMBERSHIP MEETING

The QRA holds its membership meetings at the Reading, MA Senior Citizen Center at 49 Pleasant Street in the old fire house. All are invited and holding an Amateur Radio license is not required. Meetings begin around 7:00 pm on the third Thursday of each month, September through June. We have very interesting speakers. Come join us and bring a friend with you.

QRA OCTOBER 2018 MEMBERSHIP MEETING MINUTES

The October 2018 membership meeting was called to order at 7:05 at the Reading Senior Center by club president Don Melanson, KA1MAP.

All in attendance were asked to introduce themselves to the crowd.

President Don then introduced Ron Draper, WA1QZK who then gave a great talk with slides on Project Equinox which is held each March and September on the equinox. The object of the project is emergency radio preparation much like with the annual ARRL Field Day. This past September, a set up was made in Rockport, MA and all thought it went well. Questions and answers followed the talk. A treasurer report of \$600.00 was given by club treasurer Jeff Hollis, W1CKH. Don and Jeff will be scheduling a club budget meeting for November.

A report on the status of the QRA 2 meter was given by Brian Gudzevich, WO1VES. He noted he had only 2 check-ins lately. President Don mentioned we will be combining the November 70th anniversary and December Christmas celebrations at the December meeting to be held on December 20, 2018. QRA's actual birthday is November 18. A list of items to be brought by the members was made for everyone to sign.

The BOD meeting held just prior to the membership meeting was gone over and a discussion was held on relocating the QRA repeater to a higher position someplace along route 128 in the Wakefield/Stoneham area.

President Don invited all to come join the 75th Anniversary Special Event on the USS Cassin Young (DD 793) in the Charlestown Navy Yard on October 20-21. Members will be able to get a full tour and operate the radios in Central and Emergency Radio aboard the ship. Both CW and SSB are planned. A special call of N1Y has been approved for this special event.

The ARRL Club affiliation listing for QRA has been updated. We need to find out how many QRA members are also members of the ARRL for us to remain an ARRL Affiliated Club. Meeting was adjourned at 8:34 pm. (submitted by Bob Reiser, AA1M)

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QRA - SILENT KEY EQUIPMENT AUCTION:

THIS AUCTION WILL BE HELD AT THE NOVEMBER QRA CLUB MEETING.

Ed Wilson; the son of Silent Key Cyril Wilson -W1AS, has donated the below equipment to the QRA for auction. Ed has asked that all proceeds go to the club treasury.

- 1) KENWOOD SSB TRANSCEIVER TS-520SE KENWOOD DIGITAL DISPLAY DG-5 NOTE: This is a HF Rig that appears in great condition. Instruction manuals for both are included. I have seen this rig with digital readout on E-BAY selling for several hundred dollars.
 - 2) LAFAYETTE HA-460 – SIX METERS No Power Cord – No Instructions
 - 3) JOHNSON MESSENGER 2 – CB No Power Cord – No Instructions
 - 4) Knight P-2 SWR/ POWER METER No instructions.
 - 5) D104 Mike 6) SHURE HAND HELD MIKE - MOD. NO-404B No connector attached Instructions are included!
- Any Questions call Tim McNulty K1TIM - 978-535-1259 I have not tested any of the above.

DID THE FCC JUST MAKE BAOFENG ILLEGAL? SHORT ANSWER: NO!

The Enforcement Bureau (Bureau) of the Federal Communications Commission (FCC) has observed that a growing number of conventional retailers and websites advertise and sell low-cost, two-way VHF/UHF radios that do not comply with the FCC's rules. Such devices are used primarily for short-distance, two-way voice communications and are frequently imported into the United States. These radios must be authorized by the FCC prior to being imported, advertised, sold, or operated in the United States. Many of these radios violate one or more FCC technical requirements. For example, some can be modified to transmit on public safety and other land mobile channels for which they are not authorized, while others are capable of prohibited wideband operations. Such radios are illegal, and many have the potential to negatively affect public safety, aviation, and other operations by Federal, state, and local agencies, as well as private users. Because these devices must be, but have not been, authorized by the FCC, the devices may not be imported into the United States, retailers may not advertise or sell them, and no one may use them. Rather, these devices may only be imported, advertised, sold, or used only if the FCC first has approved them under its equipment authorization process (or unless the devices operate exclusively on frequencies reserved for amateur licensees or they are intended for use exclusively by the federal government). Moreover, with only very limited exceptions, after being authorized, the devices may not be modified. Anyone importing, advertising or selling such noncompliant devices should stop immediately, and anyone owning such devices should not use them. Violators may be subject to substantial monetary penalties.

This advisory seems aimed squarely at radios, such as the Baofeng UV-5R and other inexpensive Chinese radios, and a lot of hams are worried that a) they won't be able to get cheap Chinese radios anymore, and b) the radios that they currently have are now illegal. Fortunately, that's not the case. Having done some work for BTECH, a company that sells a lot of Baofeng radios, I asked them how they read this enforcement advisory. What they said is that what is illegal is selling radios without FCC certification or selling radios "outside of their designed use." The example they gave me would be selling a UV-5R for FRS use.

This morning, [on reddit](#), Noji, KNOJI, posted the text of an email exchange that he had with Scott Stone, Deputy Chief, Mobility Division of the FCC's Wireless Telecommunications Bureau. Noji asked, *Does Part 95. 591 mean that all Baofeng UV-5R and UV-92 radios (which can transmit [on] FRS and GMRS frequencies) will become illegal to buy or sell in the U.S. after September 2019, even for amateur use?*

To which, Stone replied,

No. Those devices do not have Part 95 certification, so they are not authorized for use in FRS or GMRS. i.e. they are not capable of operating under this subpart. They can be used by amateurs, but only on amateur frequencies.

So, there you have it. If you're ever in Ann Arbor, MI, give me a call on the W8UM repeater (145.23-, 100 Hz PL), and I'll (legally) answer with one of my Baofengs.

UPDATE 9/28/18: I should have listened to Bob, K0NR, who, in his comment below says, "This story is far from over." Apparently so. See [FCC Back pedals—All transceivers capable of transmitting on frequencies that require certification must be certified and can not be used on Amateur radio for more info](#). It may just be that the FCC does consider these radios to be illegal for use on amateur radio frequencies. Frankly, this discussion is over my head. I guess that we'll see how concerned we have to be when the FCC starts shutting down companies selling these radios or actually confiscating them from hams.

It seems to me that the manufacturers could sidestep all this legal turmoil by simply producing service-specific models that are programmed to transmit only on those frequencies of that particular service. The hardware needn't change, just the software.

UPDATE 10/3/18:

The ARRL has now gotten involved in this discussion. Their position is that these radios [are legal for amateur radio use](#). I expect the FCC to issue another clarification at some point stating this.

By Dan Romanchik, KB6NU visit (www.kb6nu.com/study-guides)

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INVENTION OF RADIO

The idea of wireless communication predates the discovery of "radio" with experiments in "wireless telegraphy" via inductive and capacitive induction and transmission through the ground, water, and even train tracks from the 1830s on. James Clerk Maxwell showed in theoretical and mathematical form in 1864 that electromagnetic waves could propagate through free space. It is likely that the first intentional transmission of a signal by means of electromagnetic waves was performed in an experiment by David Edward Hughes around 1880, although this was considered to be induction at the time. In 1888 Heinrich Rudolf Hertz was able to conclusively prove transmitted airborne electromagnetic waves in an experiment confirming Maxwell's theory of electromagnetism.

After the discovery of these "Hertzian waves" (it would take almost 20 years for the term "radio" to be universally adopted for this type of electromagnetic radiation) many scientists and inventors experimented with wireless transmission, some trying to develop a system of communication, some intentionally using these new Hertzian waves, some not. Maxwell's theory showing that light and Hertzian electromagnetic waves were the same phenomenon at different wavelengths led "Maxwellian" scientist such as John Perry, Frederick Thomas Trouton and Alexander Trotter to assume they would be analogous to optical signaling and the Serbian American engineer Nikola Tesla to consider them relatively useless for communication since "light" could not transmit further than line of sight. In 1892 the physicist William Crookes wrote on the possibilities of wireless telegraphy based on Hertzian waves and in 1893 Tesla proposed a system for transmitting intelligence and wireless power using the earth as the medium. Others, such as Amos Dolbear, Sir Oliver Lodge, Reginald Fessenden and Alexander Popov were involved in the development of components and theory involved with the transmission and reception of airborne electromagnetic waves for their own theoretical work or as a potential means of communication.

Over several years starting in 1894 the Italian inventor Guglielmo Marconi built the first complete, commercially successful wireless telegraphy system based on airborne Hertzian waves (radio transmission). Marconi demonstrated application of radio in military and marine communications and started a company for the development and propagation of radio communication services and equipment.

The meaning and usage of the word "radio" has developed in parallel with developments within the field of communications and can be seen to have three distinct phases: electromagnetic waves and experimentation; wireless communication and technical development; and radio broadcasting and commercialization. In an 1864 presentation, published in 1865, James Clerk Maxwell proposed his theories and mathematical proofs on electromagnetism that showed that light and other phenomena were all types of electromagnetic waves propagating through free space. In 1886–88 Heinrich Rudolf Hertz conducted a series of experiments that proved the existence of Maxwell's electromagnetic waves, using a frequency in what would later be called the *radio* spectrum. Many individuals—inventors, engineers, developers and businessmen—constructed systems based on their own understanding of these and other phenomena, some predating Maxwell and Hertz's discoveries. Thus "wireless telegraphy" and radio wave-based systems can be attributed to multiple "inventors". Development from a laboratory demonstration to a commercial entity spanned several decades and required the efforts of many practitioners.

In 1878, David E. Hughes noticed that sparks could be heard in a telephone receiver when experimenting with his carbon microphone. He developed this carbon-based detector further and eventually could detect signals over a few hundred yards. He demonstrated his discovery to the Royal Society in 1880, but was told it was merely induction, and therefore abandoned further research. Thomas Edison came across the electromagnetic phenomenon while experimenting with a telegraph at Menlo Park. He noted an unexplained transmission effect while experimenting with a telegraph. He referred to this as etheric force in an announcement on November 28, 1875. Elihu Thomson published his findings on Edison's new "force", again attributing it to induction, an explanation that Edison accepted. Edison would go on the next year to take out U.S. Patent 465,971 on a system of electrical wireless communication between ships based on electrostatic coupling using the water and elevated terminals. Although this was not a radio system the Marconi Company would purchase the rights in 1903 to protect them legally from lawsuits.

QRA IS
ON THE WEB AT: WWW.W1EKT.ORG
and
<http://www.facebook.com/QRAWolfPack/>

KDA Custom Embroidery is owned by QRA member Paul Anderson, KA1GIJ and his wife Kathleen. For over 20 years, Paul and Kathleen have been providing customized embroidery and screen-printing from their shop on Pearl Street in Reading. Names, monograms, call signs, logos and designs (stock or customized) can be stitched on hats, shirts, sweatshirts, polo-shirts and more. Purchase garments from them or provide your own.

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QRA OCTOBER 2018 BOD MEETING

The October 2018 QRA BOD meeting was held at the Reading Senior Center and was called to order at 6:15pm by club president Don Melanson, KA1MAP.

BOD members Tom Cefalo, W1EX and Mike Rioux, W1USN were unable to attend and notified president Don by email.

There were 6 members in attendance. President Don, secretary Bob Reiser, AA1M, treasurer Jeff Hollis, W1CKH, Tim McNulty, K1TIM, Brian Gudzevich, WO1VES and John Carrick, KB1YEF.

Discussions were on if we need a committee to update the QRA constitution, does the BOD need to be set up to help mentor the club and its direction, repeater location, how to interest more people, especially youth in amateur radio and the QRA.

President Don asked about how many ARRL members we have.

Member Brian noted he will be paying more attention to the QRA web site.

Meeting adjourned at 7:04pm. (Submitted by Bob Reiser, AA1M)

COME JOIN THE QRA 2-METER NET ON TUESDAY EVENINGS WA1RHN/R AT 7:30 PM ON 147.075

FM/FUSIO * PL Tone 151.4
Echolink: WO1VES-R (813502)

QRA ON FACEBOOK

Join us on our combined Facebook page at <https://www.facebook.com/QRAWolfPack/> and keep up to date with information about QRA and the Wolf Pack Repeater System. Both are being run by Brian Gudzevich, WO1VES.

FROM THE PRESIDENT

Hello everyone and hoped you enjoyed Halloween. At this month's membership we need to get a commitment on what everyone is bringing to the Dec Membership/Christmas/Anniversary meeting. We just want to make sure everyone is not bringing the same thing so we will generate a list of what and how much everyone is bringing. We will also talk about the celebration flyers and where to distribute them. Please remember and think about what would happen if more people showed up and we ran out of food and drinks. Also at this month's meeting along with our guest speaker I would like to continue the discussion on increasing membership to our association. I have asked and met with our Board of Directors for help with this project and your Ideas and thoughts would be greatly appreciated.

Ron Draper is running a "Technician Class Get Your Ticket" course. Class size is limited, first come & paid. It will be 3 nights of 3 hours classes. Deadline is Dec 16, 2018. You must sign up and pay in advance at the Senior Center. It is located at the Middletown Council on Aging, 38 Maple St, Middletown Ma. Course is \$35.00.

I have read the notice from the FCC on 2 way UHF/VHF radios (Advisory No-2018-03) about radios being manufactured to transmit out of band and the FCC has made certain restrictions on them. The ARRL Executive Committee Participated in a teleconference with the FCC officials about the order and expressed concerns about the portion of the notice that calls on radio amateurs who possess such radios not to use them. The ARRL is of the view that there is no valid legal basis for this portion is of the Notice. The ARRL is preparing a white paper on the ARRL's position on this issue to be used to inform members in response to inquiries. I will have a copy at this month meeting for your viewing.

In closing I ask you to please come to the monthly membership meetings if you could. I understand medical conditions along with out of state (Must be nice in NV).

See You All that the Meeting

Your President

Don Melanson KA1MAP

NEXT QRA MEMBERSHIP MEETING IS THURSDAY

NOVEMBER 15, 2018

AND WILL BEGIN AT

*** * * 7:00 PM * * ***

OUR GUEST SPEAKER WILL BE

ANDY GRAYTOCK

HIS SUBJECT WILL BE

GLOBAL POSITIONING SATELLITES

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