

CONTAINED WITHIN THIS NEWSLETTER

Minutes Of The **APRIL 2ND** 2024 Meeting

Next Meeting Notice May 7th

Next Breakfast Notice May 11th

APRIL Meeting Attendance 13

Letter From The President

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Joe Walsh, WB6ACU Of The Eagles

On Why You Should Be A Member Of The ARRL

Rock River Radio Club Field Days June 22-23

ARRL Field Days

Dayton Hamvention May 17-19

2024 Total Solar Eclipse

The Most Hackable Hand Held Radio

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2024 Calendar

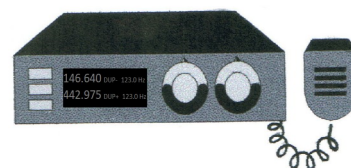
Repeater Frequencies

RRRC Membership Form



RRRC NEWS

MONTHLY PUBLICATION OF THE ROCK RIVER RADIO CLUB



Volume 45 Number 5

www.rrrc.net

APRIL 2024

APRIL 2024 RRRC

Meeting Minutes



The monthly meeting of the Rock River Radio Club was held on **APRIL 2, 2024**, using Zoom meetings. by President Peter Frey, AD9DO. The meeting and called it to order at **7:10** pm CST

SECRETARY REPORT Ray Teschke, KD9QLE,
Secretary presented the minutes of the **MARCH** meeting as published in the **MARCH** Newsletter.
Motion to approve by: Ralph Hasler, N9WBL
Second by: Brad Gehrt, KA9JDE
Motion Carried

TREASURER REPORT Dave DePover K9MKP
Motion to approve by: Ray Teschke, KD9QLE,
Second by: Mike DeJager, KB9LXP
Motion Carried

COMMITTEE REPORTS

ARES/REPEATER: Dale Marks, WB9ADB
There are now 15 members in ARES in RRRC
April 13th ARES to try APR at 1pm
TRAILER: Len Buchda, KB9GDY
Absent
REPEATER: Dale Marks, WB9ADB
Nothing to report

FIELD DAYS: Dale Marks, WB9ADB

I person still needs to pay for their campsite.
70cm WiresX Brad Gehrt, KA9JDE
System seems to be working great.

OLD BUSINESS

Cameron Frey—no presentation due to poor weather.
Will plan on giving presentation ay Mays Meeting.
Foxhunt—Peter is working on setting this up.
Dave DePover has old info on how to run a Fox Hunt.
Insurance—a discussion was held about current State Farm Insurance verses the ARRL insurance. Several members thought the ARRL insurance was a good idea. It was decided that the officers would discuss the insurances and decide which way to go. Decision needed by April 15th.

NEW BUSINESS

President Peter Frey—suggested we have an ladder line antenna building get together.
Paul Bauer—would be will to give presentation on the latest computer up dates,

President

Peter Frey AD9DO 920-344-1378

Vice President

Ryan Klavekoske KB9OWD 920-356-8757

Secretary

Ray Teschke KD9QLE 920-210-9540

Treasurer

Dave DePover K9MKP 920-210-2209

Club Historian

Gary Pedersen KA9BAE 920-386-4666

2024 Officers



Emergency Coordinator

Dale Marks WB9ADB 920-485-4234

Assistant Emergency Coordinator

Ryan Klavekoske KB9OWD 920-356-8757

Repeater Directors

Dale Marks WB9ADB 920-485-4234 (Trustee)
Dave DePover K9MKP 920-210-2209
Keith Lodahl, WJ9L 920-387-4675
Ray Teschke KD9QLE 920-210-9540

Webmaster Lucky Lasanske 920-216-4268

MOTION TO ADJOURNED

President Peter Frey, AD9DO heard no further business

and requested the meeting be adjourned.

Motion to adjourn by: Ray Teschke, KD9QLE

Second by: Ralph Hasler, N9WBL

Motion Carried

MEETING ADJOURNED AT 7:45pm

Respectfully Submitted

Raymond Teschke, KD9QLE

Secretary, Rock River Radio Club.

THE NEXT MONTHLY MEETING OF THE RRRC WILL BE HELD ONLINE TUESDAY, **MAY 7th** AT 7:00 PM USING ZOOM MEETINGS, A LINK TO JOIN WILL BE EMAILED OUT YOU.



The monthly RRRC breakfast get-together will be on Saturday, **May 11th**, at the Village Garden Restaurant in Juneau. All are welcome, so join us at around 8:00 AM for a pleasant informal gathering.

RRRC **APRIL** 2024 MEETING ATTENDANCE

Ray Teschke, KD9QLE, Horicon
Peter Frey, AD9DO, Beaver Dam
Ryan Klavekoske, KB9OWD, Beaver Dam
Dale Marks, WB9ADB, Burnett
Gary Pedersen, KA9BAE, Juneau
Jerry Arndt, NO9U, Watertown
David DePover, K9MKP, Juneau
Dennis Weigel, KC9ICA, Horicon
Steve Burczyk, KE8PA, Beaver Dam
Keith Lodahl, WJ9L, Mayville
Mike DeJager, KB9LXP, Randolph
Ralph Hasler, N9WBL, Oconomowoc
Ted Neuburg, W9LUQ, Waupun

LETTER FROM THE PRESIDENT

Good day all! The year has been going well for us so far. We came together for food and comradery in February and held a class for people wanting to obtain their technicians license in March. Looking ahead we have Field Day in June and talks about hosting another class sometime in Mid-Late summer. On top of that I put feelers out to see if anyone would be interested in a Club Antenna Build project and it was well received. This is all good and I look forward to more.



I have a few areas that I would like to encourage all members. First would be to attend our club meetings in-person as well as our monthly breakfasts. It's wonderful to see you all in person and it's good to catch up.

Due to the snowstorm in April, Cameron will now be giving his Hamvention presentation in May. Feel free to come support him on this journey.

I would also like to persuade everyone to keep an ear on our repeaters. I'm as guilty as the next guy some days but It would be great to be known as the spot to find hams. Also, with the Wires-X coming on line it's quite exhilarating to catch a distant Ham checking out the system now and again.

All the best,

Peter AD9DO

WE DON'T HAVE A MEMBER TO FEATURE IN OUR RRRC MEMBER PROFILE THIS MONTH

We are sorry to report that we don't have a RRRC Member Profile article this month. We reached out to 3 RRRC members, but still no such luck. Is there a member you would like to suggest we do an article on? Contact Brad. Ka9jde@gmail.com





WHY JOIN THE ROCK RIVER RADIO CLUB???

(you don't need to have a ham radio license to join)



- ☐ **CHALLENGE YOURSELF TO LEARN SOMETHING NEW!** Most of our members are licensed Ham Radio operators (also called Amateur Radio). We are experimenters. We call it "homebrewing". Learn how to build radios, antennas, computers, etc.

- ☐ **LEARN ABOUT HI-TECH LOCAL AND WORLDWIDE COMMUNICATIONS.** Communicate with other ham radio operators worldwide. A 12-year-old club member has spoken directly with one of the astronauts on the International Space Station via ham radio! How cool is that?



- ☐ **WHEN THERE IS NO ELECTRICITY, CELL PHONE SERVICE OR INTERNET, HAM RADIOS ARE LIKELY TO STILL WORK.** During disasters, cellphones and internet connections are not reliable.

- ☐ **LEARN HOW TO HELP WITH SEVERE WEATHER SPOTTING.**

- ☐ **JOIN IN ON FUN ACTIVITIES!** Fox hunts (finding a hidden transmitter via direction finding equipment), operating portable "off grid", participating in worldwide contests, and "Field Day" (we're at Derge Park on Beaver Dam Lake) the third weekend in June and be part of antenna raising party!

- ☐ **THIS IS NOT YOUR GRANDPA'S HAM RADIO HOBBY!** Wow has this hobby evolved over the years. Ham radio is the original "social network"! We text via ham radio. We can bounce radio signals off the surface of the moon. We do Amateur TV via radio. We send email via ham radio. We do ham radio via satellites.

- ☐ **MORSE CODE IS NO LONGER A LICENSING REQUIREMENT.** You still have to pass an exam to earn your Technician class license and the privilege to use ham radio. Exams can be taken virtually via Zoom or in person. There are 35 multiple choice questions.



- ☐ **WE ARE DXERS?** DXing means making long distance contacts via radio. It can be via voice, digital (similar to texting), by morse code or even video. A very prestigious award in amateur radio is being able to document 100 confirmed countries. It called the DXCC Award, for DX Century Club.

How do I join the RRRC?

Our Individual Regular membership is only \$20/year.

The application form is part of the newsletter



JOE WALSH, WB6ACU,
OF THE EAGLES
ON WHY YOU SHOULD BE
A MEMBER OF THE ARRL

"How you doing?

Joe Walsh, WB6ACU here. I've been a ham since 1960. Ham radio has given me friends all over the world who I never would have met otherwise, and it's taught me skills and electronics that have helped me in my career. I give back to amateur radio by being a member of ARRL.

Thanks to its members, the league provides support for on the air events that give hams so much enjoyment.

ARRL is the National Association for Amateur Radio. They are our voice in Washington and all around the world.

Be a member. Please join ARRL. Find more out about it at arrrl.org/JOIN"

Editor's note:

**ARRL dues are ONLY \$59/year
plus they include digital copies of
4 awesome magazines:**

QST

QEX

National Contest Journal

On The Air (my personal favorite)



ARE YOU READY FOR SOME FUN?

Join us at Derge Park / June 22-23
for our local “FIELD DAY” celebration



Field Day is ham radio's open house. Every June, more than 40,000 hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skill and service to our communities and our nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Field Day has been an annual event since 1933, and remains the most popular event in ham radio.

You are invited to come out to this year's Rock River Radio Club “FIELD DAY” event on Saturday June 22 and Sunday June 23. We will be setup at Dodge County's Derge Park – see map below.

We welcome the public to come learn more about ham radio!





GET ON THE AIR!

Be a part of the most popular on-the-air operating event in amateur radio.

Join your local community and get in on the action!

**PARTICIPATE IN YOUR LOCAL
ARRL FIELD DAY JUNE 22-23, 2024**



www.arrl.org/fieldday

What is ARRL Field Day? You're Invited!

Field Day is a radio communications event that brings together amateur radio operators (also called "hams") within your community. The event is part picnic, campout, practice for emergencies, informal contest, and most of all, fun! ARRL Field Day is the most popular ham radio activity held annually in the US and Canada. On the fourth weekend in June each year, more than 35,000 radio amateurs get together with their clubs, groups, or friends to operate from remote locations.

It is a time when many aspects of amateur radio come together to highlight its many roles. While some will treat it as a contest, other groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate radio communications to the general public and organizations that amateur radio might serve in an emergency. For many radio clubs, ARRL Field Day is one of the highlights on their annual calendar.

The contest part involves contacting as many other stations as possible while learning to operate radio gear in abnormal situations and less than optimal conditions.

These same skills are utilized to help with large, preplanned, non-emergency events such as marathons and bike-a-thons; fundraisers such as walk-a-thons; celebrations such as parades, and exhibits at fairs, malls, and museums.

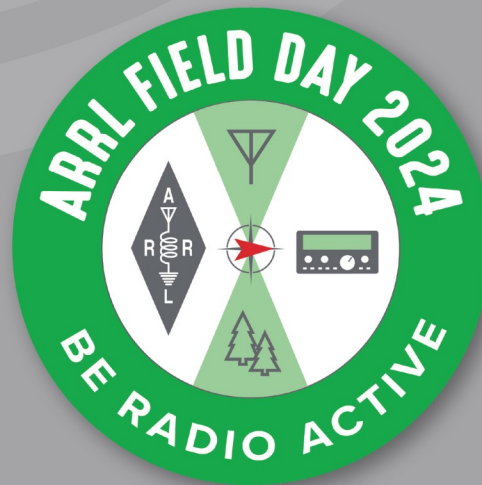
Despite the development of very complex, modern communications systems — or maybe because they *are* so complex — ham radio has been called into action, again and again, to provide communications in crises when it really matters. Hams are well-known for their communications support in real disaster and post-disaster situations.

What is ARRL?

With more than 150,000 members, ARRL is The National Association for Amateur Radio in the US. ARRL is the primary source of information and support for radio amateurs. ARRL provides books, news, information for individuals and clubs, special events, continuing education classes, and other benefits to its members.

What is Amateur Radio?

Often called "ham radio," the Amateur Radio Service is a worldwide community of licensed operators using the airwaves with every conceivable means of communications technology. It is made up of people who enjoy learning and being able to transmit voice, data, and pictures through the airwaves to places near and far without depending on commercial systems. The amateur radio frequencies are the last remaining place in the usable radio spectrum where an individual can develop and experiment with wireless communications. Not only can hams build and modify their equipment, but they can also create new ways to communicate via the airwaves — and do it as a globally connected community. Many people in the hobby form lifelong friendships with people they wouldn't have otherwise met. Many rock stars, Hollywood actors, and heads of state (and even your neighbor down the street) are ham radio operators. You can be, too! Get started at Field Day!



ARRL The National Association for
Amateur Radio®

www.arrl.org/fieldday

UPCOMING HAMFESTS

HAMFEST/CONVENTION

04/13/2024 - [Madison Hamfest](#)

Location: Stoughton, WI

Type: ARRL Hamfest

Sponsor: Madison Area Repeater Association

Website: <https://w9hsy.org>

04/27/2024 - [ORC 44th Annual Spring Indoor Swapfest](#)

Location: Cedarburg, WI

Type: ARRL Hamfest

Sponsor: Ozaukee Radio Club, Inc.

Website: <https://www.ozaukeeradioclub.org>

HAMFEST/CONVENTION

06/01/2024 - [Green Bay Hamfest](#)

Location: Green Bay, WI

Type: ARRL Hamfest

Sponsor: Green Bay Mike & Key Club

Website: www.k9eam.org



**AND OF COURSE, THE MOTHER OF ALL HAMFESTS
WHERE CAMERON KD9VGV WILL BE PUTTING ON A PROGRAM!**



When is the show? Where is the show?

Friday	May 17th	9:00 AM – 5:00 PM
Saturday	May 18th	9:00 AM – 5:00 PM
Sunday	May 19th	9:00 AM – 1:00 PM

**Greene County Fair and Expo Center
210 Fairground Road, Xenia 45385
Coordinates are 39.702 N – 83.9420 W**

<https://hamvention.org/>

2024 TOTAL SOLAR ECLIPSE

BY BRAD KA9JDE

Many of you were able to experience this year's partial solar eclipse in Wisconsin...

Some of you also traveled elsewhere to experience a TOTAL solar eclipse, which is VERY different!

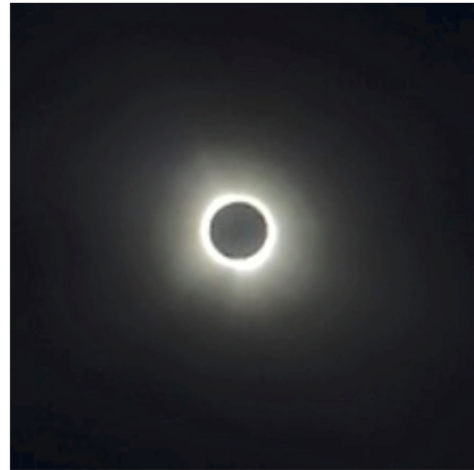
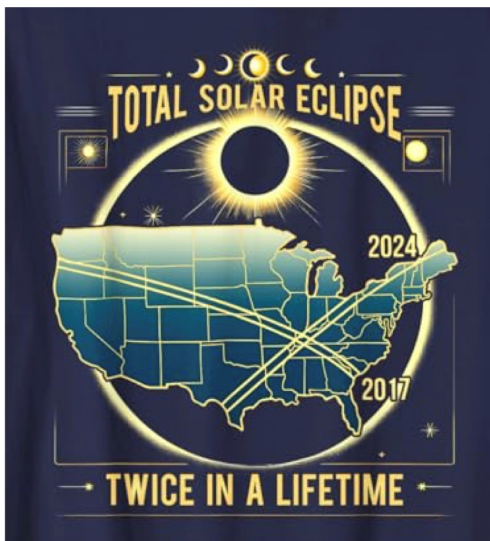


Photo during the Total Solar Eclipse by Brad KA9JDE



As you can see in the t-shirt graphic to the left, the 2017 total eclipse went from the state of Washington to South Carolina, missing Wisconsin.

The longest total eclipse length in 2017 was in Makanda Illinois, in Giant City State Park (south of Carbondale / north of Cairo).

This year, the path of the total solar eclipse went from Texas to Maine, again missing Wisconsin. This offered more people in populated areas to watch it, even better than in 2017.

Makanda Illinois was the Crossroads Of The 2017 and 2024 Eclipses.

Makanda Illinois is where Diane, I and 2 friends were. This was Diane's first and my second total solar eclipse. How cool is that?

It is so amazing to see it get VERY dark on a clear sunny day, hear the birds go completely quiet and hear the crickets in the middle of the day! There is nothing like a total solar eclipse! And this one was over 4 minutes long!

I went to college at Southern Illinois University in Carbondale, IL a few years back.... OK, many years back! With my love for hiking and climbing, I know the area very well. We did some hiking while in the area as well. It was an amazing trip!



THE MOST HACKABLE HANDHELD HAM RADIO YET THE UV-K5 CAN BE MODDED AT THE CLICK OF A MOUSE

By Stephen Cass 27 MAR 2024
(submitted by Doug AC9XW)

All right, confession time. I don't use my handheld ham radio for much more than eavesdropping on the subway dispatcher when my train rumbles to a mysterious halt in a dark tunnel. But even I couldn't help but hear the buzz surrounding a new handheld, Quansheng's UV-K5.

It caught my attention in part because for over a decade, Baofeng has been the name in Chinese handhelds. In 2012 Baofeng made waves with its UV-5R radio, upending the sleepy handheld-transceiver market. Prior to the 5R, the price tag of the cheapest VHF/UHF handheld was a little north of US \$100. The 5R sold for a quarter to a third of that. Hams grouched about the 5R's so-so technical performance—and then bought a couple anyway, so they'd always have a radio in their car or workplace.



*You can add new features or upload your own boot screen
to the UV-K5 radio with just a few clicks*

Now it's Quansheng that's making a splash. The UV-K5, released last year, might be the most hackable handheld ever, with a small army of dedicated hams adding a raft of software-based improvements and new features. I had to have one, and \$30 later, I did.

Like Baofeng's 5R, Quansheng's K5 as a radio transceiver is fine. (I'm using K5 here to refer to both the original K5 and the new K5(8) model.) The key technical distinction between the 5R and K5 is a seemingly minor design choice. With Baofeng's 5R, the firmware resides in read-only memory. But Quansheng stores the K5's firmware in flash memory and made it possible to rewrite that memory with the same USB programming cable used to assign frequencies to preset channels.

This feature has opened the door for improvements to the K5 that are well beyond what Quansheng offers out of the box. Hopefully, this design will inspire other radio makers to offer more support for modders, in turn bringing more innovation to the VHF and UHF radio bands.



Quansheng probably thought of its design purely in terms of fixing software bugs or adjusting for regulatory changes—it offers a free install tool for uploading official firmware releases to the radio. But the prospect of an updatable radio dangled an irresistible temptation for folks to start reverse engineering the firmware and hardware so they could try writing their own code. Modifications to date have generally taken the form of patches to the official firmware, rather than wholesale rewrites. With the official firmware taking up most of the radio's 64 kilobytes of flash memory, such mods have to fit into less than 3

KB. And the CPU is not brimming with compute power—it's a 48-megahertz, 32-bit ARM-based processor with 8 KB of RAM. Nonetheless, I found the results impressive.

For example, one mod installs a fairly sophisticated graphical spectrum analyzer: You can adjust the bandwidth, set a threshold for tuning into detected peaks automatically, and specify frequencies to ignore, among other things. Another mod allows you to exchange text messages between K5s. Other mods improve the K5's ability to receive AM signals, meaning you can, say, listen in on aviation bands more clearly. And there are plenty of fun little mods that do things like change up the system fonts or replace the start-up message with a line-art image of your choice.

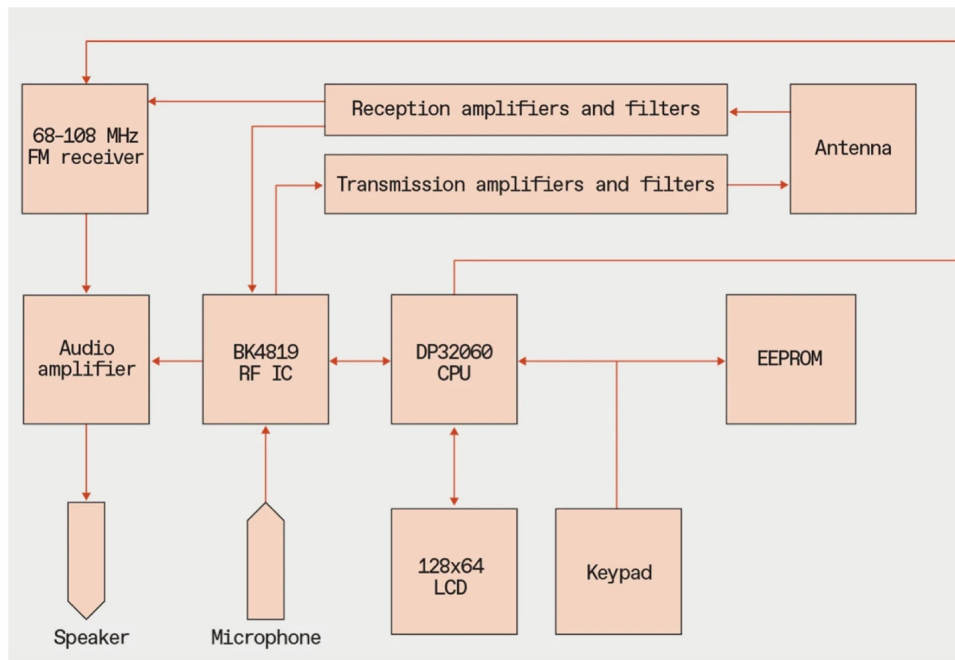
Updatable firmware dangled an irresistible temptation for folks to start reverse engineering...

Installing many of these mods is ridiculously easy. Normally at this point in a Hands On article that involves hacking some consumer electronics, things get pretty heroic as I futz with the hardware or unravel a software-installation enigma. But not this time.

A modder known as whosmatt has created a Web-based patcher/flasher for the K5 that lets you pick a selection of mods from a menu. It then combines them with the official firmware to create a custom image for uploading (as long as you don't exceed the total amount of memory).

In fact, if you're using Chrome, Edge, or Opera, you don't even need to use Quansheng's installer to upload the firmware: You can update the radio's flash memory directly from the browser via the built-in Web Serial API and the USB programming cable. (The instructions say this will work only on Linux and Windows, but I was able to do it using a Mac as well.) Web Serial could do with some improved error handling, though. The first USB programming cable I used was a bit flaky, but where Quansheng's installer would halt and flag a communications error with a failed upload, Web Serial would silently crash and take the whole Windows operating system with it.

There are even more K5 mods available than are in whosmatt's online patcher. If you want to play with those or start writing your own mods, Python-based toolchains exist to assist you.



This block diagram of the UV-K5 is based on the work of Phil McAllen. Hams have reverse engineered many details of the radio's hardware and software.

An illustration showing the arrangement of major subsystems in the UV-K5. A CPU is connected to an EEPROM, a keypad, a display screen, a 68- to 108-MHz FM receiver, and an RF transceiver integrated circuit. The RF IC is connected to the speaker, a microphone, and the amplification and filter circuits needed for transmission and reception, which are in turn connected to an antenna. This block diagram of the UV-K5 is based on the work of Phil McAllen. Hams have reverse engineered many details of the radio's hardware and software. JAMES PROVOST

Of course, allowing unfettered modding of the K5's transceiver does raise the possibility of abuse. For example, the Quansheng firmware blocks transmitting on the aviation band, to prevent illegal and hazardous interference. But this block can be removed by a patch (although to be a significant threat, you'd likely need an amplifier to boost the K5's 5-watt signal).

However, hams have always had the ability to behave badly, with or without firmware blocks. Such blocks are convenient for guarding against accidental abuse, but the truth is that unless problematic signals are persistent enough to allow a transmitter's location to be triangulated, amateur radio must continue to rely on an honor system, whether that means not jamming a neighbor's TV or transmitting on forbidden frequencies.

Many of the most exciting uses of ham radio today involve digital processing, and that processing is normally done using a computer connected to a transceiver. With embedded controllers becoming ever more powerful, the K5 modding scene points toward a future where more processing happens in-radio and where you can add new functions the way apps are added to smartphones. Here's hoping manufacturers embrace that future!

HAM RADIO LICENSE TESTING DATES

If you are looking to get your ham radio license or upgrade your current license, here is the info you need.
Tests can be taken In Person or Virtually via Zoom in the comfort of your home. The choice is yours!

Upcoming nearby In Person exams:

EXAM SESSION

04/27/2024 | Milwaukee WI 53223-4736

Sponsor: MRAC VEC, INC.

Location: Ham Radio Outlet

Time: 9:30 AM (Walk-ins allowed)

EXAM SESSION

04/27/2024 | Portage WI 53901-2117

Sponsor: Un-sponsored

Location: Portage Public Library

Time: 9:30 AM (Walk-ins allowed)

EXAM SESSION

05/04/2024 | Madison WI 53715-2143

Sponsor: Four Lakes ARC

Location: Univ of WI Space Place

Time: 8:00 AM (Walk-ins allowed)

EXAM SESSION

05/11/2024 | Janesville WI 53545-3024

Sponsor: Wisconsin Area VEs (WAVE)

Location: Saint John Lutheran Church

Time: 1:00 PM (Walk-ins allowed)

EXAM SESSION

05/21/2024 | Plymouth WI 53073-2032

Sponsor: Sheboygan Cty WI VE Team

Location: Salem United Church of Christ (Enter from East parking lot, off Kensington Ave)

Time: 7:00 PM (No Walk-ins / Register or Call ahead)

EXAM SESSION

05/25/2024 | Milwaukee WI 53223-4736

Sponsor: MRAC VEC, INC.

Location: Ham Radio Outlet

Time: 9:30 AM (Walk-ins allowed)

EXAM SESSION

06/01/2024 | Madison WI 53715-2143

Sponsor: Four Lakes ARC

Location: Univ of WI Space Place

Time: 8:00 AM (Walk-ins allowed)

EXAM SESSION

06/01/2024 | Menasha WI 54952-1228

Sponsor: Fox Cities ARC

Location: Maplewood Middle School

Time: 8:00 AM (Walk-ins allowed)

EXAM SESSION

06/01/2024 | Racine WI 53402-3405

Sponsor: Racine WI ARRL VE Team

Location: Faith United Methodist Church

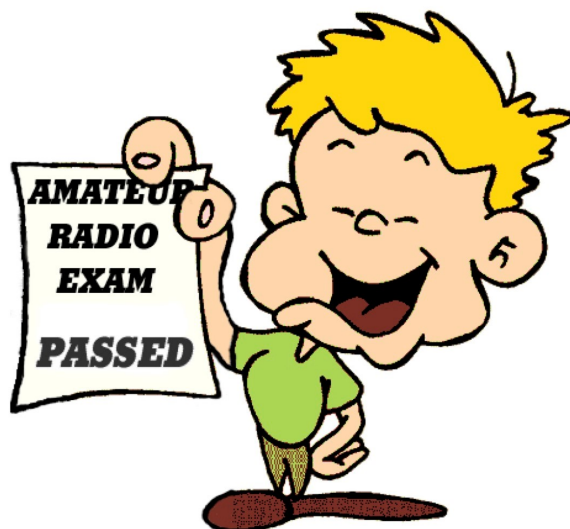
Time: 9:00 AM (Walk-ins allowed)

Upcoming Virtual exams:

Brad, KA9JDE, is a member of the AA7HW Volunteer Examiner Team under the W5YI VEC. With over 40 Volunteer Examiners on the team, we offer virtual testing via Zoom, generally M-F. The cost of the exam is \$14. For more info or to schedule an exam, go to aa7hw.org. Also feel free to contact Brad KA9JDE with any questions at ka9jde@gmail.com.

Testing is done virtually via Zoom usually Monday-Thursday at 4pm and Friday at 8:30pm.

To schedule your exam session, go to:
aa7hw.org





AA7HW^{VE} Team

Yes, you CAN take your License Exam Online using Zoom

from the comfort of your own home or office

Our team of Volunteer Examiners has administered nearly 2000 friendly, efficient online amateur radio license exams since May 2020

- We offer online exams most weekdays.
- We can often schedule exams at other times if our existing schedule does not meet your needs.
- New license or upgrades.
- Take multiple exams for the same low price.
- Friendly and efficient.
- You can generally have your license two days after passing your exam.
- Our Portland-based team is a 501(c)(3) non-profit organization.



<https://www.aa7hw.org>

Herb Weiner, AA7HW
herbw@wiskit.com
(503) 771-1400

Local contact:
Brad Gehrt, KA9JDE
W5YI Volunteer Examiner
ka9jde@gmail.com
(920) 210-1620

RRRC Weekly Nets

Monday A.R.E.S. Net 7:30 PM

RRRC 2-Meter Repeater 146.64 MHz

Net Control Stations

April 15, 2024 Ryan - KB9OWD

April 22, 2024 Gary - KA9BAE

April 29, 2024 Jeff - KB9UNY

**May 6, 2024 Peter - KD9UVX / Cameron
KD9VGV**

May 13, 2024 Ted - W9LUQ

Repeater Backup 147.585 MHz Simplex

160-Meter HF Net Wednesday 7:00 PM

1.908 MHz Lower Side Band

(1.920 MHz backup frequency)

**70-Centimeter Net RRRC Knowles
Repeater 442.975**

Thursdays at 7:30 PM

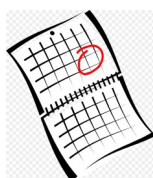
75-Meter HF Net Saturday 10:00 AM

7.278 MHz Lower Side Band

Alternate Frequency 3.947 MHz

Calendar 2024

Field Days June 22-23, Derge County Park



RRRC Repeaters

2-Meter Located in Juneau, WI

146.640 MHz Output

146.040 MHz Input

(Duplex, Standard Negative Offset)

123.0 Hz PL Tone

70-Centimeter Located in Knowles, WI

442.975 MHz Output

447.975 MHz Input

(Duplex, Standard Positive Offset)

123.0 Hz PL Tone

Standard FM and

Yaesu System Fusion (C4FM) Capable

Rock River Radio Club Mailing Addresses

Club Dues / Bills / Club Business

R.R.R.C.

P.O. Box 26

Juneau, WI 53039-0026

Newsletter Related Items:

Raymond Teschke

617 Mohawk Cir.

Horicon, WI 53032

rkteschke@att.net

Website: www.rrrc.net

Webmaster: Ray (Lucky) Lasanske K9LUK

k9luk@sbcglobal.net

Annual Membership Dues
Rock River Radio Club of Wisconsin
PO Box 26, Juneau WI 53039-0026



Last Name: _____

First Name(s): _____

Call(s): _____

Phone: _____

Address: _____

City: _____

Email: _____

ARRL: YES NO

State: _____ Zip: _____

Description	\$ Each	Quantity	Total
RRRC 2024 Membership - Family	\$25.00		
RRRC 2024 Membership - Individual Regular	\$20.00		
RRRC 2024 Membership - Individual Associate	\$10.00		
RRRC Badge	\$10.00		
A.R.E.S. Communication Trailer Fund Contribution			
GRAND TOTAL:			

Send to: Dave DePover
 Attn: RRRC treasurer
 W7657 Stone Rd.
 Juneau, WI 53039