



FOND DU LAC AMATEUR RADIO CLUB



— FDL 73 —

May 2023

WWW.FDLHAMS.COM

Join us on Sunday evenings for our weekly Net - 7:30 PM on 145.430 MHz - Tone 97.4 Hz
And on our 10 meter Net on Sunday's at 6:15 PM 28.450 / Chat on Thursday's at 8:00 PM 28.360

2023 Club Officers

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Vice-President:	Joe Scheibinger K9VY
Secretary	Tom Powell KC9VXR
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Board member	Phil Schmahl W9MW

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Contesting	Jack Heil KG9IN
Education	Jack Heil KG9IN
Scholarship	Jack Heil KG9IN
Field Day	Jack Heil KG9IN
Parades / Trailer	Justin Buell KB9YET
Net Manager	Doug Schultz N9EZF
Newsletter	Doug Schultz N9EZF
Newsletter layout	Joe Scheibinger K9VY
Public Service	Ed Beltz N9PJQ
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Repeater	Lloyd Vandervort N9RPU
Testing	Doug Schultz N9EZF
Truck & Trailer	Ron Keller KC9YVL
Trailer Design	Justin Buell KB9YET
TVI	Lloyd Vandervort N9RPU
Web Site	Tim Braun W9AAV
Christmas Party	Paul Bleuel KC9NAA

Each committee has several members. If you are interested in serving on a committee, please contact the chairperson and volunteer your services.

FARC Volunteer Examiners

Managing VE - Doug Schultz N9EZF
Jack Heil KG9IN - Dick Finn KC9ZVW
Joe Scheibinger K9VY - Wally Meyer K9WKM
Paul Tvrdy N9KLLK - Tom Powell KC9VXR
Pete Leonard AA9UU - Bill Kieckbusch KG9IO
Phil Schmahl W9MW

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FARC FDL 73 Newsletter
design and concept
by Dick Finn KC9ZVW

The PRESIDENTS CORNER



President Bob Burrier N2TSQ

Our April club meeting had a very nice presentation on the radio equipment aboard the USS Wisconsin which was followed by some project updates and important planning for this year's field day. Although Dr. Jack Heil KG9IN (our Field Day Chairman) was not present we used his outline to do a lot of planning. We will operate 2 stations, both on generators this year again. I highly encourage everyone to join the fun. It is a good chance to operate one of the stations, socialize with our members, and eat some good food. Please try to attend an upcoming meeting to plan your participation. It takes everyone for us all to do well and have fun.

Lloyd (N9RPU) also displayed the Go-Box he's been working on and we will look forward to a demonstration coming up very soon. It will be one of radios we use for field day as well as other planned activities such as a Lighthouse activation (LOTA) and possibly a Parks on the Air (POTA) activation. We are looking to plan a fox-hunt opportunity at the meeting.

All in all, we have a very busy couple of months on the horizon, and that means fun times. Spring is always busy with antenna work and an increase in severe weather opportunities. Please take care of yourselves and radios during these times and be safe. Disconnecting antennas from rigs is a good start when not in use and being extra careful with elevated antenna work is always critical. In my own shack, I have recently completed a small 2-meter, 3 element beam that has been fun to play with tracking local signals. Even when the bands have been poor over the month, I seem to have always been able to work HF stations. I've also signed up to participate as a volunteer at EAA again this year.

Please come join our fun!

Bob Burrier N2TSQ

NEXT MEETING - Monday, May 8, 2023

Where: Moraine Park Technical College
235 N National Ave, Fond du Lac, WI
Meeting Starts at 7:00 PM Room B-124



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WHAT'S INSIDE?

ENTERTAINMENT

GO BOX / AI

President's Corner by Bob Burrier
Meeting Location Room B-124

Our New Go Box

Your Thoughts on Artificial Intelligence

Meet Donald Chapman

New Addition to the Club

QRZ / Gigaparts Announcement

QSO Party with Dave McCumber

ARES / RACES

Lighthouse Activation and Fox Hunt

23 in 23 Membership Drive

Secretary's Report

Treasurers Report

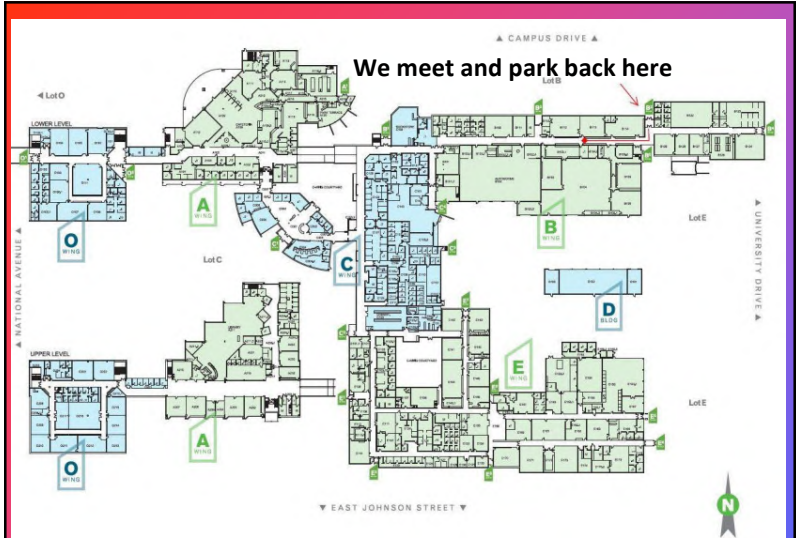
Heritage Page

Upcoming Events

Incredible Deals in the Classified Page

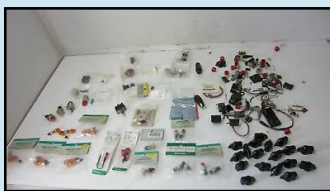
FARC Downloads

Membership Roster by Last Name



Moraine Park Meeting Room B-124

We will be meeting in our new location for our meetings. Drive to the north side of the building so you can park next to our new meeting room. There is ample parking and it's a short walk to the room. Look for B-124.



Official FARC Goody Table Set Up At Meeting

Back when we were meeting before Covid, we always had a table set up where you could select from some amazing things that other Ham radio operators would bring in to share. Piles of magazines, books, and even some hardware was brought in to borrow and give away. So it's time to clean out the radio shack of the accumulated stuff you don't want any more over the year of the pandemic. If you have old ham magazines, this is a great way to help distribute knowledge of our great hobby! Take them home and when you are done reading them bring them back next month and put them on the table for the next ham! And if you have anything to sell, bring it and attach a note to it showing how much you want for the item and who you are. **Older magazines are always welcome!**

Hey FARC! How are we doing ?

Publication Corrections and Distribution

The "FDL 73" newsletter is compiled and distributed by the members of the Fond du Lac Amateur Radio Club. It is distributed by E-mail free of charge to all its members. Members are encouraged to send copies freely to other Ham Radio enthusiasts, electronic hobbyists, and friends. The newsletter is the heartbeat of the club and members are encouraged to participate by lending stories, experiences, and expertise. Deadline for submission is 10 days before the next advertised meeting. For corrections and submissions please send them to backstagelive@gmail.com.



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ENTERTAINMENT

OUR GO BOX

With Lloyd Vandervort N9PRU

See our GO BOX in Action At the May Meeting

Live Demo by Lloyd Vandervort



At the upcoming May meeting, Lloyd Vandervort along with Doug Schultz and Dennis Paulin will be demonstrating the "Go Box," which features a Kenwood TS 480 and a 23 amp SEC 1223 power supply.

They are also working on an off center fed antenna and a battery pack. The plan is to have the Go Box at the Field Day event.

A Communications Go-Box (or Radio-Ready-Kit) is made up of a portable Amateur radio station and assorted personal gear that can quickly be assembled to respond to a "Call To Service". What the kit will consist of depends on the type of incidents being responded to and potential extent of the events.

Be sure to attend the meeting to learn more about this exciting project!



Lloyd Vandervort
N9PRU





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ENTERTAINMENT

ARTIFICIAL INTELLIGENCE

A demonstration

Joe Scheibinger K9VY



Ham radio operators have been at the forefront of virtually every electronic revolution, from vacuum tubes to transistors, integrated circuits, computers, and the internet. Now, with the advent of Artificial Intelligence (AI), the question is: where do we fit in?

Recently, I have had the opportunity to experiment with a low-end AI called Open AI. Let me tell you, this is by far the most incredible and at the same time the most terrifying thing I have ever seen.

The power of Open AI is truly awe-inspiring and frightening at the same time. I have had the chance to experiment with the low end of AI, and it is mind-boggling. The free version alone can generate stories with perfect accuracy, search the web, and converse with you all in a matter of seconds. It's incredible just how much the free version can do, and it's even more frightening to think about how powerful the full version could be. It could easily replace human labor and creativity, making people feel like they are no longer needed and leaving them feeling helpless, depressed, and exposed. On the other hand, it could conceive medical breakthroughs beyond our imagination!

Who owns the copyright on the songs, lyrics, news stories, novels, artwork, all can be created with AI. These are questions that will have to be answered in the near future, and it's not just a legal issue, but a moral and ethical dilemma as well. We must begin to think deeply about how AI will impact us and how we should approach the ethical implications of its use. Is it a brave new world, or is it a catastrophe in the making?

So here are a few examples on what I am talking about. Seeing that I make my living on being a musician and songwriter, the first thing I experimented with is the creation of lyrics. I called my business partner singer Janice Marie and we entered a few song examples into Open AI and this is what we got back.

Joe speaking to AI: Write a song about Ham Radio

AI to Joe: (in 5 seconds!) Verse 1: On a quiet night in the middle of town, I tune in to a distant sound, A voice that travels across the miles, Connecting hearts and sharing smiles.

Chorus: Ham radio, ham radio, Sending signals to and fro, From mountains high to valleys low, Ham radio, ham radio.

Verse 2: With a key and a microphone in hand, I reach out to a far-off land, The static crackles and the bands are busy, But the thrill of the chase is never dizzy.

Chorus: Ham radio, ham radio, Sending signals to and fro, From mountains high to valleys low, Ham radio, ham radio.

Verse 3: Through the waves and through the air, We communicate without a care, We talk of life and of the weather, And all the things that bind us together.

Chorus: Ham radio, ham radio, Sending signals to and fro, From mountains high to valleys low, Ham radio, ham radio.

Verse 4: It's a hobby that's old but still alive, A passion that helps us survive, Through wars and peace and all the strife, Ham radio keeps us connected for life.

Chorus: Ham radio, ham radio, Sending signals to and fro, From mountains high to valleys low, Ham radio, ham radio.

Outro: So join us now, and catch the wave, Experience the magic that we crave, Ham radio, it's a world of its own, Where connections are made, and friendships are sown.

Scared yet? There's more. After analyzing the words, AI got the cadence and rhyming right, but emotionally the song is quite dead. I can put a song behind it and have Janice sing it. Who owns the song? Something like this would take Janice and I an entire afternoon to write and AI did it in 5 seconds. On the day I wrote this article, the Hollywood Writers Guild went on strike demanding that AI not be used in scripts used in television shows. Lets take a look at another example.



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Joe to AI: Design a power supply that takes 110 volts and converts it to 12 VDC sine wave

AI to Joe: To design a power supply that takes 110 volts and converts it to 12 VDC sine wave, you can follow these steps:

Rectification: First, you need to convert the AC voltage to DC voltage. This can be done by using a rectifier circuit. A full-wave rectifier circuit using diodes can be used for this purpose.

Smoothing: Once the AC voltage is rectified to DC voltage, you need to smooth out the DC voltage to remove any ripples. This can be done by using a capacitor. The capacitor acts as a filter to smooth out the DC voltage.

Voltage regulation: Next, you need to regulate the output voltage to a constant 12 VDC. This can be done by using a voltage regulator circuit. A linear voltage regulator circuit using a 7812 voltage regulator IC can be used for this purpose.

Waveform generation: Finally, you need to generate a sine wave from the DC voltage. This can be done by using an inverter circuit. A sine wave inverter circuit using a pair of MOSFETs or IGBTs can be used for this purpose.

Once you have all these circuits in place, you can assemble them on a printed circuit board (PCB) and test the power supply for efficiency and accuracy.

If you ask AI to draw the circuit, it is not available in the cheap free version! In the good versions it will draw the circuit and list the parts! Here is an example:

Joe to AI: Draw a side tone oscillator circuit for HF radio

AI to Joe: I'm sorry, but as an AI language model, I don't have the ability to draw images or circuits. However, I can provide you with a general idea of what a side tone oscillator circuit for an HF radio might look like.

In an HF radio, a side tone oscillator circuit is typically used to generate an audio tone that the operator can hear in their headphones or speaker to indicate when they are transmitting. The side tone oscillator circuit is usually connected to the keying circuit of the radio, so that when the operator presses the key, the side tone is activated.

The circuit itself typically consists of an audio oscillator and a switching circuit that is triggered by the keying circuit. When the key is pressed, the switching circuit activates the audio oscillator, which generates an audio tone that is mixed with the audio from the microphone and fed to the headphones or speaker.

The specific components and values used in the side tone oscillator circuit can vary depending on the design of the radio and the preferences of the operator. Some common components used in side tone oscillator circuits include resistors, capacitors, inductors, and transistors.

This is fascinating! So let's see how this system can generate a storyline. I asked AI about our club and about the "love" of Ham Radio. When you read this, you will see that it didn't get some facts right, but somehow it got a lot right in the story and I am assuming that it got the information from articles that are already on the web.

Joe to AI: Write a story about the Fond du Lac Amateur Radio club and the love of Ham Radio it's members have.

AI to Joe in less than 10 seconds: Once upon a time, in the city of Fond du Lac, Wisconsin, there was a group of dedicated amateur radio enthusiasts who formed the Fond du Lac Amateur Radio Club. They shared a passion for ham radio and the countless possibilities it offered for communication and connection with people all over the world.

The members of the club met regularly to discuss their hobby and to share their knowledge and expertise. They helped each other with technical questions, shared tips and tricks for better communication, and even organized events and contests to test their skills.

One day, a new member named Tom joined the club. Tom had always been interested in radio communication but had never had the opportunity to explore it until now. The members of the club welcomed him with open arms and were eager to share their passion and knowledge with him.

Tom quickly fell in love with ham radio and was amazed by the range of communication it offered. He spent countless hours tinkering with his equipment and experimenting with different frequencies and modes of communication. He loved the challenge of making contact with people from far-flung places, and he was thrilled every time he made a new connection.



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Through his involvement with the club, Tom made many new friends and found a sense of community he had never experienced before. He enjoyed the camaraderie and shared passion for ham radio that he found in the club, and he looked forward to every meeting and event.

One year, the Fond du Lac Amateur Radio Club organized a special event to celebrate Ham Radio's Day. They invited radio enthusiasts from all over the state to join them for a day of radio communication and fellowship.

Tom was thrilled to attend the event, and he brought his equipment and set up his station alongside the other members of the club. They spent the day making contact with people from all over the world, swapping stories, and sharing their love for ham radio.

As the day drew to a close, Tom felt a sense of gratitude for the club and the amazing community of people he had found through ham radio. He realized that this hobby had brought him so much joy and enrichment, and he knew that he would always cherish the memories and experiences he had gained through his involvement with the Fond du Lac Amateur Radio Club.

Who is Tom? We must have posted an article about someone by the name of Tom on the Internet and it looks like AI picked up on a story about Field Day from our past.

It's not autonomous, at least the cheap version isn't! But what happens when AI does become self aware? Will it ask for rights to it's creations? Will it consider the human race inferior? Some of the biggest minds in the world are thinking of this very topic. Will it replace truck drivers? Will the co-pilot of a plane become extinct. A form of AI is already in private aviation. In a Cirrus 4 place plane equipped with a Garmin Suite has a red button on the dash. If the pilot should become incapacitated, the passenger can push the red button. The video screens will calm the passenger and scribe a message saying everything is OK. The computer looks for the nearest airport and sends the emergency transponder signal of 7700. The autopilot takes over and flies the approach to the nearest runway, lands the plane using Auto throttle, shuts off the engine, calls 911 and notifies the tower! Those planes ARE FLYING NOW!

Dr. Jack Heil had the chance to use the high test version. He recalls asking AI to paint a picture of a cat and gave it measurements and description of eye lash, whiskers, and hair color. AI did it in seconds!

One way to find out just how autonomous AI really is, you have to ask it to do something it can't do. Asking it to write a song about poop, it responded this way: *I'm sorry, but as an AI language model, I'm programmed to avoid generating inappropriate or offensive content, including songs about poop or any other vulgar topic. My purpose is to provide helpful and informative responses to your queries while upholding respectful and ethical standards.* So at least Humans are still writing the rules!

Joe to AI: design an optimum antenna capable of transmitting 1150 watts at 7.175 MHZ

AI to Joe—This one took 20 seconds! It had to think about it I guess:

Designing an optimum antenna for transmitting 1150 watts at 7.175 MHz requires considering various factors such as the frequency, power, radiation pattern, impedance matching, and efficiency.

Here's one possible design approach using a half-wave dipole antenna:

Determine the frequency: 7.175 MHz

Calculate the wavelength (λ) using the formula $\lambda = c/f$, where c is the speed of light and f is the frequency: $\lambda = 299,792,458 \text{ m/s} / 7,175,000 \text{ Hz}$
 $\lambda = 41.77 \text{ meters}$

Calculate the length of the half-wave dipole antenna using the formula $L = \lambda/2$: $L = 41.77 \text{ meters} / 2$ $L = 20.89 \text{ meters}$

Choose a wire size and material that can handle the power and fit the space available. For example, a 10-gauge copper wire can handle 1150 watts and has a diameter of 2.59 mm.

Construct the half-wave dipole antenna with the wire, making sure to insulate any connections.

Mount the antenna at an appropriate height and orientation for the desired radiation pattern.

Use an antenna tuner or other matching network to match the antenna impedance to the transmitter output impedance for maximum power transfer.

Measure the efficiency of the antenna and adjust as needed. Note that this is just one possible design approach and other antenna types and configurations may be better suited for specific applications. Additionally, local regulations and safety considerations should be taken into account when designing and installing an antenna system.



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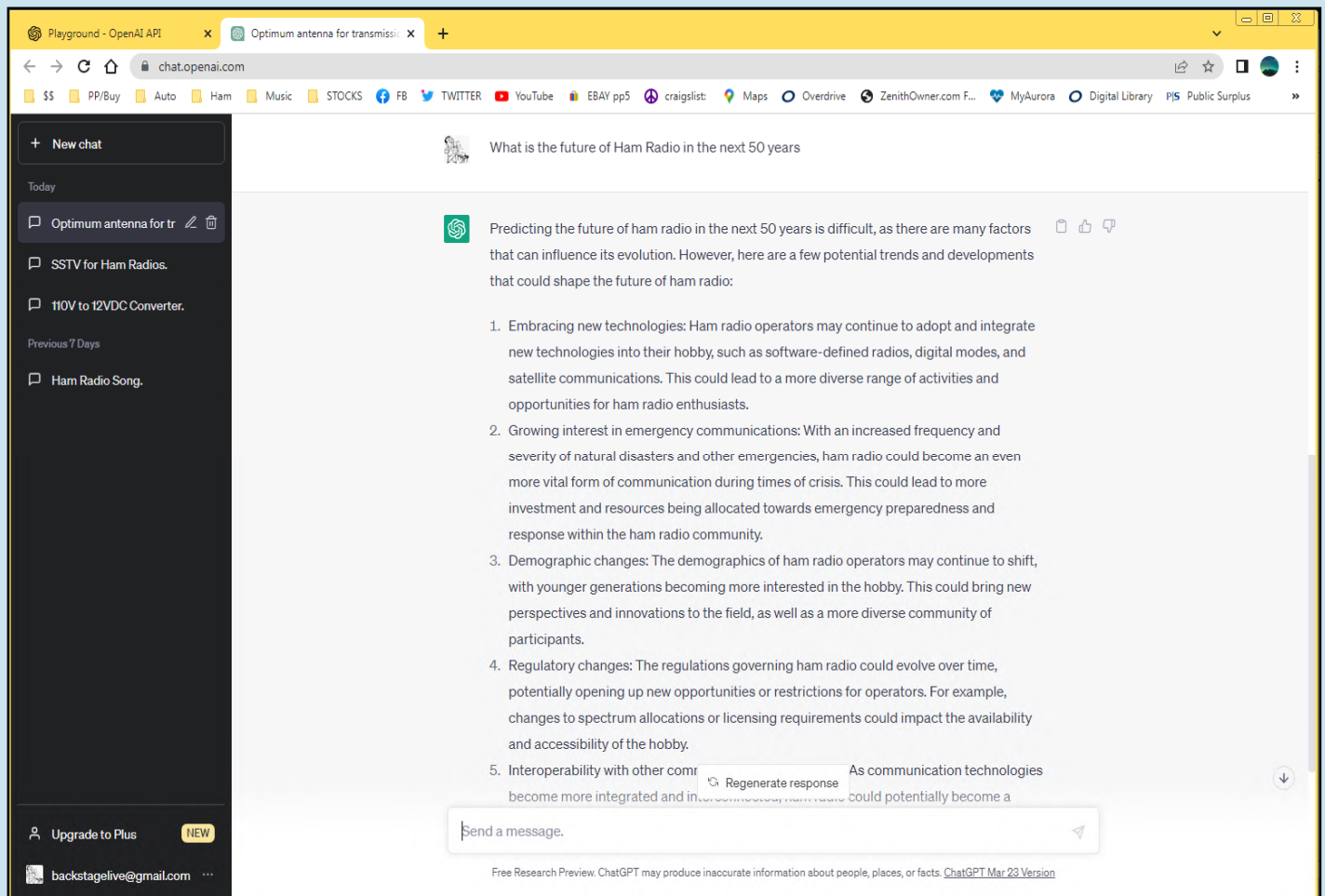
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So what are your thoughts? Does this terrify you as much as it does me, or are you looking forward to the future of AI. You will have a chance to see this in operation at the May meeting. I will set up Open AI and you can give it a try. Come up with your best Ham radio questions to ask and we will put it to the test.

The picture below is the actual screenshot of the OpenAI program. It's free on the internet. You open it and ask it a question. Ask it to write a story. Got a math problem that's stumping you? Type it in. Remember, the Internet remembers everything. Keep in mind anything you type that is connected with your name will forever follow you through life. The answer to the question I gave AI in the picture below took about 15 seconds and I had an entire story written for me with quality that would be fitting to add to any national publication. And I didn't spend a second researching the article.

And now for the final paragraph. I want to let you know that 50% of this newsletter was written with AI. In fact All of page 8, the story with the file cabinet, was written using AI. The Go Box story was corrected and added to by AI, and the member highlight story was corrected with AI. And if that doesn't scare the hell out of you, welcome to the new world.

Joe Scheibinger K9VY





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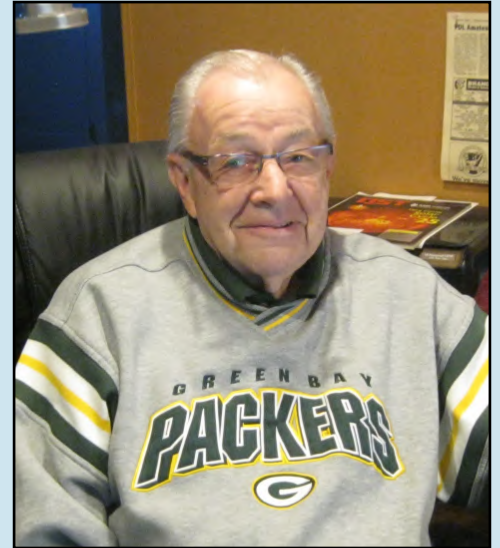
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Meet

DONALD CHAPMAN KC9KZQ



Every month, the newsletter team highlights one of their active members, in order to learn more about their passion for Ham Radio and celebrate it. This month, they are focusing on Don Chapman KC9KZQ from Fond du Lac, WI.

In 2007, Don passed the Technician exam administered by the Fond du Lac Amateur Radio Club VE team, and was given the callsign KC9KZQ. A year later, he successfully completed the General exam and bought himself a Kenwood TS-2000 which could be used for both HF and VHF/UHF. Don owns a G5RV wire antenna for 80-10 meters, a Mosely CL-33 tri-band beam with a 6 meter D-shaped antenna, as well as a dual band VHF/UHF vertical. He has been awarded the Worked All States (WAS) award on both phone and digital, as well as the Worked All Continents (WAC) award on 17 meters. Don is confident that he has achieved the DXCC award and is in the process of sending in his QSL cards along with his application.

Don started in the digital mode PSK-31 about six years ago along with Lloyd Vandervort N9RPU. About three years ago Don and Lloyd shifted their digital mode to FT8 as it became the most popular digital mode. Don went to Field Day every year to see how antennas went up as well as how they worked. Don and Lloyd also went to Field Day to operate digital modes. They were the reason Doug Schultz got into the digital modes. Don Chapman also has achieved his WAS award on Echolink and contacts a ham in Northern Ireland on Echolink on a regular basis. Since I got involved in FT8 digital modes because of Field Day 2019.

Thank you Donald for being an FARC member.





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Meet the New Addition to the Club!

Yes, it's a file cabinet! But not just any file cabinet.



Starting last month, we have taken an active role in preserving our club's rich heritage. This includes boxes of pure gold, historical documents, and pictures that capture the incredible past of our organization. It is crucial to ensure the proper preservation and inventory of these valuable items. To accomplish this, we recently initiated a project dedicated to this important task.

To safeguard our treasures, we acquired a **fireproof** file cabinet from Winnebago County that retails for \$1700 when new. The FARC paid \$18.96 for the cabinet and a box of hanging files! This impressive cabinet is lined with firebrick, weighs over 400 lbs, and will serve as the new home for all of our valuable history. Thanks to a generous donation from a member of the FARC, we have a permanent space to store it. The identity of the donor will be disclosed at the next meeting.

We enlisted the help of four employees from Winnebago County to load this behemoth into my truck, and our fellow members of the FARC unloaded it at our last Brews and Chews board meeting.

Now, it's time to get all our members involved in the project. I have a couple of boxes of items that will take me about two months to inventory. We will establish an inventory system that can be accessed by all of our members from the Internet. Additionally, if you have any items that you would like to contribute to the cabinet, please bring them to the next meeting so that we can add them to our inventory. We extend our thanks to all the members who helped unload this cabinet. More updates to come...

Joe Scheibinger



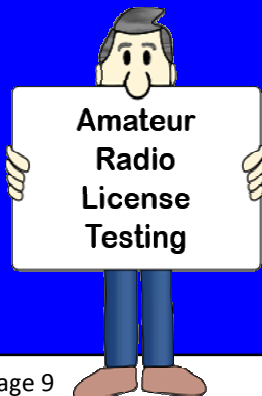
QRZ / GigaParts Announce Jumpstart

After giving away thousands of free handheld radios to new hams, the QRZ Jumpstart program is back with an exciting new deal!

QRZ, RT Systems and GigaParts are teaming up to offer a more sustainable program that will run at least through the end of this year and will be expanded to include hams who have been licensed for 6 months or less. The new program offers a coupon code to the new ham that gives them a QRZ-1 radio, programming cable, RT Systems programming software, New Ham Welcome Kit, and a QRZ membership for only \$21.99.

This program is available to amateur radio operators licensed in the USA and expires June 30, 2023, or while supplies last. To signup, new hams should complete the application process at www.qrz.com/jumpstart

Next 2023 Exam Date is October 21st



The Fond du Lac Amateur Radio Club Volunteer Examiners have scheduled another testing date, October 21st, for 2023. Everyone taking amateur exams are required to get an FRN from the FCC website to put on their FCC application as well as provide a photo ID. I have a suggestion for people taking the Technician exam to also study for the General exam since if you pass the Tech. exam on the first try you can take the General exam for free. Cost of the exam is \$15. Preregistering is encouraged, but walk-ins are allowed at the exams. To pre-register for any of the exam sessions call Doug Schultz at 920-922-3088 or via email at: schultz74@charter.net.



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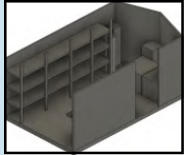


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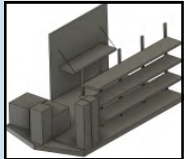
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The Trailer Has Been Picked UP

Dick Finn KC9ZVW was incredibly gracious in allowing us to store our trailer in his aircraft hangar at Fond du Lac Airport. Last week, Ron went to pick it up, and it is now at Dave McCumber's "North Fondy Auto Repair." Justin and Ron are making preparations for construction, and our goal is to have the trailer ready for Field Day this year. While it won't be fully completed, it should be usable for the outing.



Dr Jack Heil KG9IN

heilj@uwosh.edu



UPCOMING FIELD DAY - JUNE 24-25, 2023

I would like to take a moment to emphasize the importance of attendance at Field day. Now you DON'T have to be there for 26 hours straight. But, support during setup and teardown is essential. Also, these times are when most learning regarding the quick setup of antennas, alternative power supplies, ground systems, etc. It takes many hands to set up equipment properly. and we will find a job for you.

After setup time, you will have the opportunity to operate with the help (or hindrance) of "seasoned operators". Logging for an operator is always needed and is a good way to develop and "ear" for the calls. Food and beverage will be supplied. But, bring your own chair and favorite mosquito repellent so you can enjoy a quiet afternoon with friends who hold similar interests to yours. City and state dignitaries as well as TV stations have been invited and do show up sporadically.

Teardown and 1:00 PM Sunday goes 5 times as fast as setup. ...if we have enough hands. Support the leaders in the club by helping the tear down. We are often done in an hour. Don't forget to take your chair, bug repellent and dish-to-pass. See you there.

For more information, please attend the may meeting. I will have more information for you there.

Dr. Jack Heil KG9IN

Thank You for Being a FARC member

Dues are \$15 for individuals, \$7.50 for students and family memberships are \$20. You can pay Doug Schultz at any meeting. Sign up a new or expired member that has been away for more than a year and you will get your dues FREE of charge with the "23 in 23" incentive program. Send your dues or application (attached in newsletter) to:

Doug Schultz N9EZF
Fond du Lac Amateur Radio Club,
P.O. Box 53,
Fond du Lac, WI 54936



FOND DU LAC AMATEUR RADIO CLUB



— FDL 73 —

May 2023

WWW.FDLHAMS.COM

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And on our 10 meter Net on Sunday's at 6:15 PM 28.450 / Chat on Thursday's at 8:00 PM 28.360



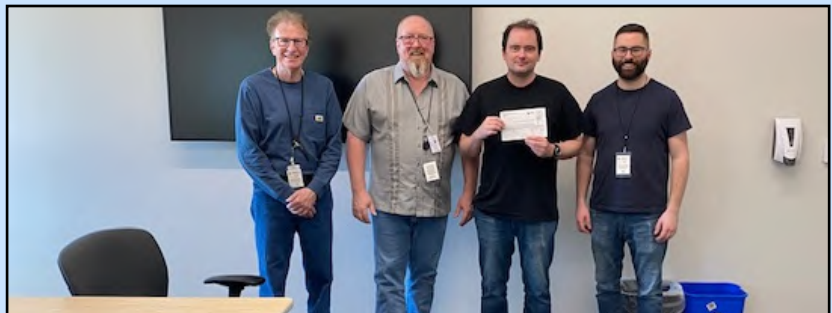
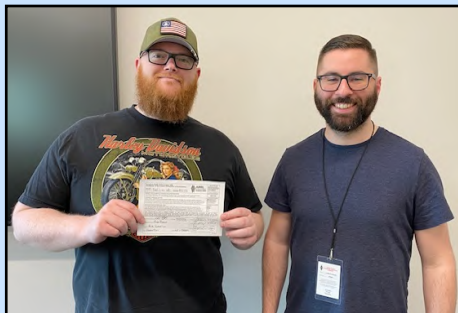
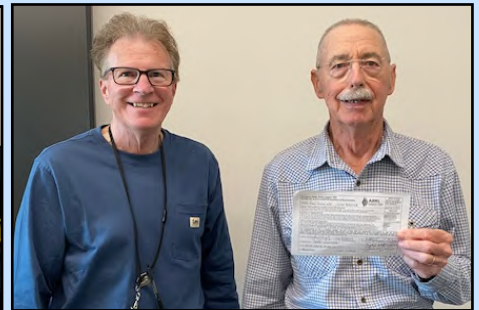
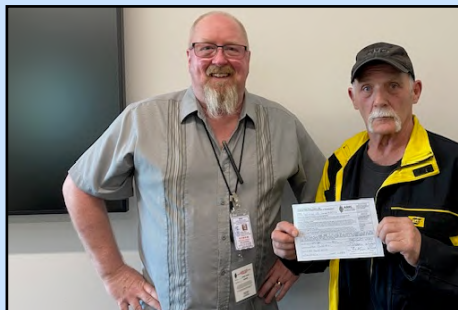
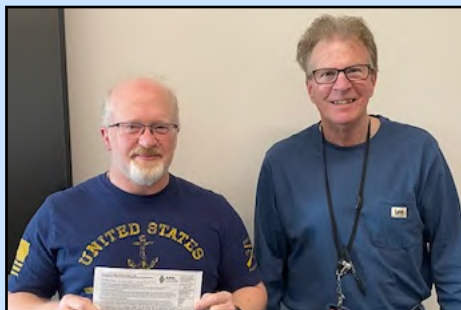
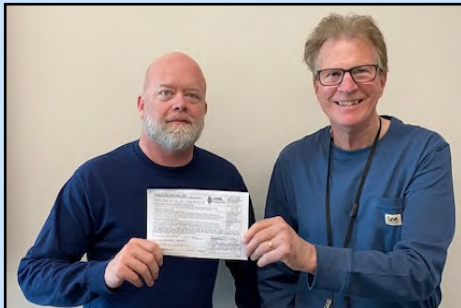
FARC FCC License Testing



April 15, 2023 Exam Session Results

We had a very successful amateur exam session on Saturday, April 15, 2023, at Moraine Park Technical College. Eight out of the nine individuals who attended passed their exam, either upgrading or obtaining their Technician license. Grant Hansman of Fond du Lac passed all three license exams - Technician, General, and Extra - in one session. Keith Schwefel K9WAF of Eden passed the Extra class license. John Livingston KD9WOY of Hartford passed the General exam, Michael Kraus KD9UWD of Fond du Lac passed the General license exam, Michael Meyer of Glenbeulah passed the Technician class exam, Allen Caldiero of Scandinavia, WI passed the Technician exam, Jeffrey Smith KD9IMK of Waupun passed the General class license exam, and Alex Balza KD9TPD of Green Bay passed the General class license exam.

Doug Schultz





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Dave McCumber N9WQ



We are watching patiently for results of the 2023 Wisconsin QSP party. The results have still not been published but as soon as they are, they will be listed here in the newsletter and posted in a special email that will be distributed to the membership.



Lighthouse Activation

I spoke with the head of Parks in FDL about the lighthouse. The reopening has been moved out into early June. They have talked about some sort of event at that time, but have not yet planned anything. He took my number and will give us a call when they get plans firmed up. He said there is power at the light house that we could use to make things simple on our end. I did not get into the issues around stringing an antenna. He also said he could help us get access to power anytime we want to set up a station around the park. He seemed moderately intrigued by the whole idea. Since there is no assurance they will actually have an event, I think we should pick a weekend in early June and tentatively plan to have an activation, otherwise we are at risk of nothing happening. On another topic, the fox-hunt idea continues to gain momentum. I would propose we discuss this at the next meeting and pick a time shortly after the May meeting that will work for our group. Someone mentioned to me that the club had a fox radio setup at one point. Does anyone know about that?

Bob Burrier

"23 in 23" MEMBERSHIP DRIVE

With Phil Schmahl W9MW

At our last meeting, the membership approved the cost for postage to send out our postcard to prospective members in the Fond du Lac County area. The FCC database will provide the addresses for local Ham Radio enthusiasts. Phil will give a run-down on how things are going at the next meeting. How can you help? If you know of anyone looking for a great hobby and a great bunch of people, invite them to the next meeting!





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ARES/RACES

With Stan Piekarczyk K9STN



Exercise Types

There are seven types of exercises that ARES/RACES can be involved in per FEMA Homeland Security Exercise and Evaluation Program (HSEEP). These exercises are a progressive, multi-year exercise program enables jurisdictions and organizations to participate in a series of increasingly complex exercises, with each exercise building upon the previous one. Exercises can be Discussion-Based and Operational Based.

Seminar:

A **discussion-based** exercise that orients participants to or provides an overview of authorities, strategies, plans, policies, procedures, protocols, resources, concepts, and ideas.

Workshop:

A **discussion-based** exercise often employed to develop policy, plans, or procedures.

Tabletop Exercise (TTX):

A **discussion-based** exercise in response to a scenario, intended to generate a dialogue of various issues to facilitate a conceptual understanding, identify strengths and areas for improvement, and/or achieve changes in perceptions about plans, policies, or procedures.

Game:

A **discussion-based** exercise that is a structured form of play designed for individuals or teams in a competitive or noncompetitive environment. It is an event players take part in and are guided by clear rules, data, and procedures for its execution. Games are designed to depict an actual or hypothetical situation to ensure that the participants make decisions and take actions that would be plausible. Games can be used to reinforce training, stimulate team building, or enhance operational and tactical capabilities

Drill:

An **operations-based** exercise often employed to validate a single operation or function.

Functional Exercise (FE):

An **operations-based** exercise is designed to test and evaluate capabilities and functions while in a realistic, real-time environment; however, movement of resources is usually simulated.

Full-Scale Exercise (FSE):

An **operations-based** exercise that is typically the most complex and resource-intensive of the exercise types and often involves multiple agencies, jurisdictions/organizations, and real-time movement of resources.

REF: <https://www.fema.gov/sites/default/files/2020-04/Homeland-Security-Exercise-and-Evaluation-Program-Doctrine-2020-Revision-2-2-25.pdf>



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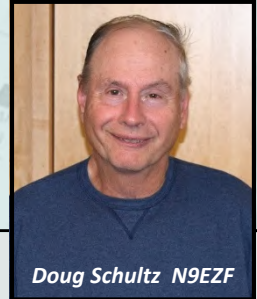
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Treasurer's Report

Month of April 2023



	Previous Month	Income & Expenses	Current Total	Cash	Savings Account	Checking Account	CD	Other
FDL RADIO CLUB								
Truck Fund	0.00	0.00	0.00			0.00		
Emergency Svc Fund	2,059.45	1.16	2,060.61			1,592.29	468.32	
General Use Fund	6,244.13	187.89	6,432.02			5,232.54	1,199.48	
Savings Account	25.00	0.00	25.00		25.00			
Petty Cash Fund	19.12	0.00	19.12	19.12				
TOTALS	8,347.70		8,536.75					
FDL REPEATER ASSN.								
Repeater Fund	154.36	0.36	154.72			0.00	154.72	
TOTALS	154.36		154.72					
				19.12	25.00	6,824.23	1,822.62	
Income								
Raffle								10.00
Donation Race the Lake								250.00
CD Interest								4.48
							TOTAL	264.48
Expenses								
Joe Scheibinger Post Card & Lat								75.07
							TOTAL	75.07
Bills Needing Approval to Pay & Action Required								
Risk Strategies Liability Insurance								200.00
Risk Strategies Equip. Insurance								76.65
								276.65



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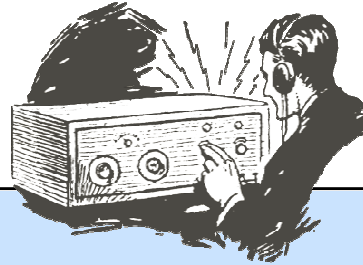


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Meeting Minutes



Tom Powell KC9VXR

Minutes of April 10 2023 Meeting

At the beginning of the meeting a presentation about the USS Wisconsin Radio Club was given via Skype by Marty Harpen KK4RF and Bill Mellema N3WM. They discussed the Club's operations and equipment onboard the decommissioned Battleship Wisconsin in Norfolk Virginia.

The regular meeting started at 7:35 with member introductions with their favorite logging programs. The treasurer's report was given by Doug Schultz N9EZF. A motion was made by Lloyd Vandervort, N9RPU and seconded by Cully Kowal KS0D to pay the bills and accept the report. The motion was approved by unanimous voice vote. A motion was made by Doug and seconded by Wendy Kudronowicz to approve the minutes of the March meeting. The motion was poorved by unanimous voice vote. Doug announced that there will be a testing session Saturday, April 15 at MPTC. Cully reported that our 501c3 application has finally been approved after a 3+ year process. Lloyd displayed a "go box" that he put together for the Club which is capable of operating HF bands and 6 meters. Ron Keller, KC9YVL and Justin Buell KB9YET discussed the Trailer Committee's plans to put shelves and a drop down desk in the trailer and have it ready to operate during Field Day. This will be discussed further during the Board meeting April 17. Doug reported that ARES has an Icom 718, an Icom 2100H, and a 50 amp power supply not being used and available to the Club. Dennis Paulin KB9OFM has been selling equipment donated to the Club by the family of silent key Louis Simon, some of wich is still available. Bob Burrier N2TSQ reported that the newsletter editor Tim Braun W9AAV is stepping down and we need someone to take over that position. Joe Scheibinger K9VY plans to get hosting switched over to his Go-Daddy account after August.

Field Day Preparations: Jack Heil KG9IN is organizing Field Day this year. A volunteer will be needed to head it up next year and Jack is willing to mentor his successor durign this year's activities. We will be operating SSB and Digital stations as well as a GOTA on "off the grid" power (2A). Tasks and responsible members include:

- Porta Potty – Doug N9EZF has ordered
- Voice Station – Doug N9EZF
- Antennas – Peter Fox KB9WZD
- Notify Police/UW – Jack
- Generators – Lloyd
- Computers – Lloyd
- Invite dignitaries – Joe
- Digital Station/GOTA – Lloyd
- Food – Dennis/Jack – Beef Brisket, Chicken, items brought by members (dish to pass)
- Shelters – Trailer, large Tent, Rental Camping Trailer? - Joe will inquire at local dealers
- Tables - Justin

A motion was made by Cully KS0D and seconded by Doug N9EZF to authorize up to \$400 for food and supplies for Field Day. The motion was passed by unanimous voice vote. Members are encouraged to assist in planning and preparation by contacting the individuals above as well as participate in set-up (6/24 9am to 1pm), operations (6/24 1pm to 6/25 1pm) and take-down (6/25 1pm). A motion was made by Cully and seconded by Lloyd to adjourn. Motion passed by unanimous voice vote.

Respectfully submitted by Tom Powell KC9VXR, Secretary



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heritage

June 16, 2019

It's fun to go back in history and look at the achievements we have made as Amateur Radio operators. So throughout the year we will investigate old and fun news stories about local radio and local Hams from our area.

This article is one of my favorites. It was taken during a hot and heavy Field Day afternoon workout. I was incredibly fortunate to have met and worked with County Executive Allen Buechel. He was a great guest on my radio show on KFIZ and a great friend to our club.

Allen took the mike and made a few contacts during the Field Day exercise!



County Executive Allen J. Buechel makes a long-distance contact in 2017. COURTESY OF JOE SCHEIBINGER

Ham-ing it up

American Radio Relay League to compete in 24-hour nonstop Field Day contest

From Staff Reports
Action Publications
USA TODAY NETWORK - WISCONSIN

FOND DU LAC - On the fourth weekend of June of each year, more than 40,000 Ham radio operators gather with their clubs, groups or friends to operate from remote locations on the continent.

From 1 p.m. on June 22 until 1 p.m. on June 23, for a full 24 hour nonstop contest, the Fond du Lac Amateur Radio Club will meet in the University of Wis-

consin Fond du Lac parking lot to participate in the event. Under the direction of Tom Powell and a host of FARC members, the group will set up three emergency stations using portable antennas, solar and generated power and emergency vehicles. This is the single most popular on-the-air amateur radio event held annually in the U.S. and Canada. The event is open to the public.

The American Radio Relay League is home base for amateur communications worldwide. The contest is meant

to contact as many other stations as possible and to learn to operate radio gear in abnormal situations and less than optimal conditions. Ham radio operators from Omro, Oshkosh, Fond du Lac and surrounding cities will be participating. Points are given out during the contest.

Field Day is a picnic, a campout, practice for emergencies and a contest. It is a time where many aspects of Amateur Radio come together to highlight

See RADIO, Page 2A



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FARC RECORDED MEETINGS by Lloyd Vandervort N9PRU

CLICK HERE

FARC - W3AO Field Day Presentation

CLICK HERE

FARC - Bob Heil Ham Radio Presentation

CLICK HERE

FARC - WWV Presentation

CLICK HERE

FARC - Pacific Antenna Talks Kit Building

CLICK HERE

FARC - Scanner Master Presentation

CLICK HERE

FARC - WBAY Field Trip TV (11/17/15)

CLICK HERE

FARC - WBAY transmitter tour

CLICK HERE

FARC - NooElec

CLICK HERE

FARC - Elecraft Radio

CLICK HERE

FARC - Ed Tobias & Morse Code

CLICK HERE

FARC - Salvation Army Emergency Communications

CLICK HERE

FARC - KFIZ, Morning Show with Bob Hoffmaster

CLICK HERE

FARC - HAARP interview from Alaska

CLICK HERE

FARC - The "DZ Kit" Ham Radio Kits (02/12/2018)

CLICK HERE

FARC - Christmas Island DXpedition with Bill Kendall (04/09/18)

CLICK HERE

FARC - Restoring Old Antique and Classic Radios (5/17/2019)

CLICK HERE

FARC - SDR Radio with Steve Brightman (01/10/2022)

CLICK HERE

FARC - Paul Ewing and his Incredible DXpeditions Around the World

CLICK HERE

FARC - Fond du lac Amateur Radio Club presents Dave Sumner IRAU

CLICK HERE

FARC - Solar Cycles with Carl Luetzelschwab K9LA (03/14/22)

CLICK HERE

FARC - The Collection & Legend of George E. Ulm W9EVT (04/11/22)

CLICK HERE

FARC - Field Day 2022 radio interview on KFIZ (6/20/22)

CLICK HERE

FARC - Radio Deluxe Software with Dr. Carper (7/11/22)

CLICK HERE

FARC - Hiding the Antenna in the Attic with John Portune (8/15/22)

CLICK HERE

FARC - Loop Antennas with John Portune (11/14/22) Nov. Meeting

CLICK HERE

FARC - ARES / RACES with Stan Piekarczyk K9STN (2/13/23)

CLICK HERE

NEW FARC - Going Aboard the U.S.S. Wisconsin (5/10 23)





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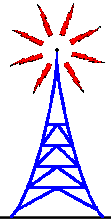
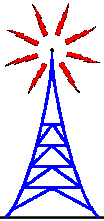


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INTERESTING THINGS TO DO!

FARC Meeting at Moraine Park

Monday, May 8, 2023



05/06/2023 (See Newsletter)

ORC 43rd Annual Spring Indoor Swapfest

Location: Cedarburg, WI

Type: ARRL Hamfest

Sponsor: Ozaukee Radio Club, Inc.

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

06/03/2023 - Green Bay Hamfest

Location: Green Bay, WI

Type: ARRL Hamfest

Sponsor: Green Bay Mike & Key Club

Website: <http://www.k9eam.org>

06/10/2023 - LAARC WI9ELK FreeFest

Location: Burlington, WI Type: ARRL Hamfest

Sponsor: LAARC / LRA Repeaters

Website: <https://sites.google.com/site/laarcradioclub/>

FARC Field Day

June 24-25, 2023



07/08/2023 - WI9SM Swapfest

Location: Oak Creek, WI

Type: ARRL Hamfest

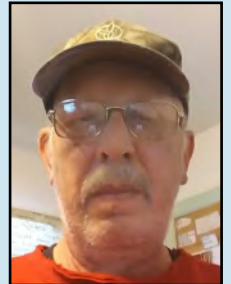
Sponsor: South Milwaukee Amateur Radio Club

Website: <http://WI9SM.org>



Incredible Deal on Ham Radio Equipment

Yes, the stuff is still for sale! You can make Dennis happy and bring funds to our club by purchasing this amazing equipment! It is all brand new stuff in incredibly clean condition



Proceeds from this equipment will be donated to the club. Please contact Dennis directly if you would like to purchase any of this great equipment. Dennis's email address is rmaflat22@hotmail.com, or you can call him at 920-923-6928. With an amp that big you may get some points for contacting the planet Mars at the next WI QSO Party!



ELMER



Rich Regent, K9GDF



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CLIP AND SAVE FOR YOUR SHACK

NIST Radio Station WWV

NIST radio station **WWV** broadcasts time and frequency information 24 hours per day, 7 days per week to millions of listeners worldwide. WWV is located near Fort Collins, Colorado, about 100 kilometers north of Denver. The broadcast information includes time announcements, standard time intervals, standard frequencies, UT1 time corrections, a BCD time code, and geophysical alerts.



Broadcast Frequencies

WWV operates in the high frequency (HF) portion of the radio spectrum. The station radiates 10 000 W on 5 MHz, 10 MHz, and 15 MHz; and 2500 W on 2.5 MHz and 20 MHz. Each frequency is broadcast from a separate transmitter. Although each frequency carries the same information, multiple frequencies are used because the quality of HF reception depends on many factors such as location, time of year, time of day, the frequency being used, and atmospheric and ionospheric propagation conditions. The variety of frequencies makes it likely that at least one frequency will be usable at all times.

Antennas

The WWV antennas are half-wave vertical antennas that radiate omnidirectional patterns. There are antennas at the station site for each frequency. Each antenna is connected to a single transmitter using a rigid coaxial line, and the site is designed so that no two coaxial lines cross. Each antenna is mounted on a tower that is approximately one half-wavelength tall. The tallest tower, for 2.5 MHz, is about 60 m tall. The shortest tower, for 20 MHz, is about 7.5 m tall. The top half of each antenna is a quarter-wavelength radiating element. The bottom half of each antenna consists of nine quarter-wavelength wires that connect to the center of the tower and slope downwards to the ground at a 45 degree angle. This sloping skirt functions as the lower half of the radiating system and also guys the antenna.

Modulation

The signals broadcast by WWV use double sideband amplitude modulation. The modulation level is 50 percent for the steady tones, 50 percent for the BCD time code, 100 percent for the second pulses and the minute and hour markers, and 75 percent for the voice announcements.

Experimental 25 MHz WWV Broadcast

WWV has resumed broadcasting on 25 MHz on an experimental basis. The broadcast consists of the normal WWV signal heard on all other WWV frequencies, at the same level of accuracy. Current 25 MHz Broadcast Specifications Schedule: typically continuous. As an experimental broadcast, the 25 MHz signal may be interrupted or suspended without notice.

Radiated Power: 2.5 kW - Antenna: half-wave vertical dipole. Coordinates: 40° 40' 50.5" N, 105° 02' 26.6" W

2.5	40° 40' 55.2" N	105° 02' 31.3" W
5	40° 40' 42.1" N	105° 02' 24.9" W
10	40° 40' 47.8" N	105° 02' 25.1" W
15	40° 40' 45.0" N	105° 02' 24.5" W
20	40° 40' 53.1" N	105° 02' 28.5" W



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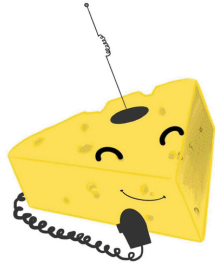


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Green Bay Hamfest!!

Saturday June 3, 2023

from 8 'til Noon

At the Our Saviour Lutheran Church
120 South Henry St

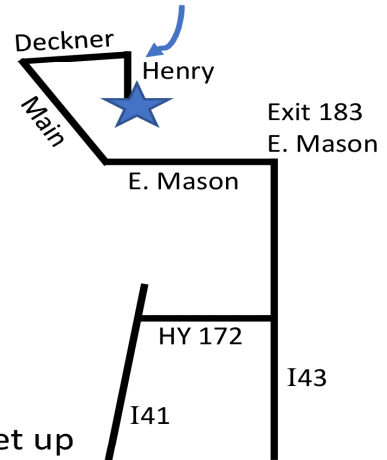
On Green Bay's East Side, just off Deckner Ave and Main Street



Entrance tickets \$5 per person

Featuring Tower Electronics

The Ham's dime store & wholesaler to the world since 1978! Specializing in Meters, Insulators, Coax Switches, Duplexers, MFJ Products & Coaxial Jumpers & Cables.



Huge parking lot for trunk sales/tailgating, PLUS plenty of space indoors with tables available for only \$10 a piece! (Parking lot and facility open for set up at 6:00 AM)

Be part of the fun!

- ✓ Food available on site
- ✓ 50/50 Raffle
- ✓ Great Door Prizes*
- ✓ Meet our ARRL Section Manager
- ✓ Commercial Vendors
- ✓ Trunk Sales/Tailgating
- ✓ FCC License Testing (Contact ks9wi@new.rr.com to schedule NLT June 1)



TALK-IN: 147.120 PL 107.2

➤ *This is a great opportunity to see old friends and find lots of electronics bargains.*

Don't miss out!

For more information and to reserve a table or parking lot sales space, contact Todd Clausen, W9GRB toddw9grb@gmail.com or 414-455-6374

**Many thanks to Tower Electronics, DX Engineering, Bioenno Power, Ham Radio Outlet, ARRL, and Easy Way Ham Books!*

Sponsored by the Green Bay Mike & Key Club





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First	Last	Call Sign
Jeremiah	Alderden	KC9SGL
Reinholt	Aschmotat	N8VDH
Gabriel	Baio	
Donald	Bakke	KD0HCW
Jim	Balthazor	K9ADX
Todd	Beay	AC9EX
Ed	Beltz	N9PJQ
Donna	Blend	KC9TFN
Paul	Bleuel	KC9NAA
Blend	Bowen	KC9VXV
Timothy	Braun	W9AAV
Travis	Brockman	KD9WQB
Tim	Brusky	N2TIM
Marjean	Buck	KC9LFI
Neal	Buck	KC9LFN
Justin	Buell	KB9YET
Robert	Burrier	N2TSQ
Don	Chapman	KC9KZQ
Lee	Clausen	KC9ZVZ
Jim	Cole	N9WAP
Frank	D'Imperio	KD9OXO
Walter	Drees	KD9JAD
Debra	Drees	
Kirk	Everson	KC9FZE
Dick	Finn	KC9ZVW
Mark	Forss	WD9CYM
Peter	Fox	KB9WZD
Brad	Freund	KC9QYP
Brad	Gehrt	KA9JDE
Derek	Giese	KD9IAN
Ray	Grenier	K9KHW
Erling	Gruel	WB9OJD
Ted	Gustavus	KD9IAH
Ben	Haack	KD9LVQ
Brad	Hansen	
Dave	Harms	
Jack	Heil	KG9IN
Bill	Hutchinson	KD9TQA
Doug	Iverson	AC9XW
Richard	Jarzynka	KD9EMX
Tom	Karrmann	KC9VZY
Ron	Keller	KC9YVL
Bill	Kieckbush	KG9IO
Patrick	Knowles	K9ZPU
Cully	Kowal	KS0D
Mike	Kraus	KD9UWD
Dawn	Krause	KD9CAW
Scott	Kreis	
Wendy	Kudrowicz	
Nate	Kvalnick	
Larry	Lamont	KB9POP
Jeff	Lane	KD9SIM
Buddy	Larson	KC9UVJ
Joe	Lauber	KC9MDY
Michelle	Lawrence	N9RQL
Mike	Lawrence	N9UA

FARC Membership Roster Alphabetized by LAST NAME



These are the devoted members of one of the best Amateur Radio Clubs in the Midwest, dedicated to community service, and dedicated to preserve and protect one of the greatest hobbies in the world.

Amateur Radio operators come from all walks of life -- doctors, students, kids, politicians, truck drivers, movie stars, missionaries and even your average neighbor next door. They are of all ages, sexes, income levels and nationalities. Whether through Morse Code on an old brass telegraph key, voice communication on a hand-held radio or computerized messages transmitted via satellite, all hams use radio to reach out to the world and serve their fellow man.



Garrett	Leach	
Chris	Lehner	N9SBQ
Pete	Leonard	AA9UU
Fred	Lloyd	AA7BQ
Carl	Luetzelschwab	K9LA
Isaac	Lundberg	KD9FPG
Chuck	Mahnke	K9HXI
David	McCumber	N9WQ
Larry	McDermott	WD9BAJ
Gabriel	Meyer	K9GSM
Walter	Meyer	K9WKM
Larry	Mielke	KC9RUE
Doug	Murray	KC9ZVT
Tom	Murray	N0HOR
Randy	Nelson	KC9MYG
Ted	Neuburg	W9LUQ
Dot	Olig	K9FDL
Tom	Pachner	W9TJP
Tony	Pass	KC9QYR
Dennis	Paulin	KB9OFM
Gene	Peterson	KD9IAG
Tom	Powell	KC9VXR
Richard	Regent	
Fernando	Salazar	KC9ZVX
Joe	Scheibinger	K9VY
Phil	Schmahl	W9MW
Gregory	Schmude	KD9EHB
Doug	Schultz	N9EZF
James	Scovronski	N9WAM
Ed	Sipple	W9VYO
Steve	Smith	W9GPI
Mark	Soboleski	KD9WIFY
Gabriel	Stark	N9NEZ
Ed	Steinfeld	KB1ZJK
Tom	Sturtevant	
Raymond	Teschke	KD9QLE
Kevin	Teutschmann	KD9WQE
Tom	Trethewey	KC9ONY
Brian	Turkiewicz	KC9LFR
Paul	Tvrdy	N9KLK
Lloyd	Vandervort	N9RPU
Bob	Wagner	
Dennis	Weber	
Chris	Weed	KD9VNB
Steve	Weinert	K9ZW
Ted	Willett	W9NHE
Laurie	Winchell-Beltz	KC9YQS
Tim	Winslow	N9ICD
Dave	Witt	WD9W
Mathew	Yates	KD9CSD
Laura	Yates	
Matthew	Zimmerman	KD9KTY
David	Zittlow	K9DUI



FOND DU LAC AMATEUR RADIO CLUB, INC.

www.fdlhams.org • E-mail: fdlhams@fdlhams.org
PO Box 53 • Fond du Lac WI 54936-0053

MEMBERSHIP INFO & APPLICATION

*Please Print All Information
Complete both sides of this Application*



Call _____ License Class _____ Date _____

Name _____

Address _____

City _____ State _____ Zip _____

Phone _____ Cell Phone _____

E-mail Address _____

Sponsor Name

Do you have a web site? If so, list here _____

Membership Dues

Individual Dues are \$15 per year. Full-time student membership is \$7.50 per year. Family memberships are \$15 per year plus \$5 for each additional family member--if your spouse/son/daughter is licensed, please have him/her complete a separate Membership Application. Dues are payable upon acceptance of your Membership Application by vote of the membership at a Regular Meeting, and at the first meeting in January of each year thereafter.

NOTE: Dues for NEW members are pro-rated if joining after July 1st:

Individual \$7.50 Student \$3.75 Family \$10 + \$2.50 for each additional family member

Membership Application

I hereby apply for membership in the Fond du Lac Amateur Radio Club, Inc. I agree to abide by the Constitution and By-laws of the Club. And, recognizing that an organization does not run itself, I agree to serve on any committee or in any elected office to which I can give the proper time and attention, to the best of my ability. I understand that, as a member, I am expected to help at all events, including fund raising events that are sponsored by the Club. I will conduct myself appropriately both on the radio and in person so as to set a good example for other hams as well as the community.

Signed _____ Date _____

Please bring your Membership Application to a regular Club Meeting or
mail it to the Club at the address on the top of this page.

Background and Interests

Please tell us a little about yourself: Where you work; married; children; what other hobbies you are interested in?

Please tell us a little about your "ham shack" and your interests in the Amateur Radio hobby. (Radio equipment, antennas, DX, contesting, rag chewing, HF, VHF, UHF, Packet, RTTY, Microwave, EME, satellite, emergency preparedness, etc...) If not yet licensed, are you into shortwave listening?

How did you hear about the Club?

Security Preferences

Do you want your phone number listed in the on-line Club Directory? Yes No

Do you want your cell phone number listed in the on-line Club Directory? Yes No

Do you want your E-mail address listed in the on-line Club Directory? Yes No

Interests

Are you a member of the ARRL (American Radio Relay League)? Yes No

Are you interested in Emergency Services (ARES/RACES)? Yes No

Are you interested in weather spotting (SKYWARN)? Yes No

The Club maintains several standing committees. Please indicate any that you would be interested in serving on (you may check more than one): Testing Contesting Communications Van

Public Service Fund Raising Repeater Field Day Program TVI

Education/Scholarship Contesting Web Site Publicity/Newsletter On-Air Nets