QSO'er

Volume 38, Issue 9
November-December 2024

QSO'er
November - December 2024 | Volume 38 Issue 9

FEATURES

Time to pay your club dues (pages 5-6)
Information on why you should pay your dues and how to pay on the club website.

sBitx Hybrid Transceiver Presentation (pages 11 - 15
A presentation from the November 2024 General Membership meeting.

A Recap of November's Hamfest In Pictures (page 16 - 17)
Read about a simple 3-step process for learning Morse Code.

The 70-Centimeter Band (page 18-19)
Reprinted from On the Air magazine.

Photos From the FCARC Holiday Pot Luck (page 20)
This short reprinted article from On the Air.

IN EVERY ISSUE

November & December Meeting Minutes (pages 8 & 10)

Hamfests Across Wisconsin (page 25 - 26)

Lending Library Catalog (page 27)
Need something for a short period use? Check out the FCARC lending library. It may just have what you need.

Ham Trivia & Word Search (pages 28 - 29)

FCARC Calendar (page 31)

Club Membership Application (page 32)

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QSO'er

A publication of the
Fox Cities Amateur Radio Club
P.O. Box 2346
Appleton, Wisconsin 54912
www.fcarc.club

FCARC Officers

President— Mike Moore (WI9MMM)

Vice-President— Andy Lawton (AJ9L)

Treasurer— Donna Mendyke (KC9THF)

Secretary— Gene Wall (KE8KWF)

Membership Coordinator— Vacant

Technical Director— Larry Peterson (WA9TT)

Members At Large

Brian Miller (N9BAM)

Rudy Reynebeau (KD9RPW)

Mike Miller (KD9QHQ)

On the cover: Proving once again that the ham radio hobby is a family activity, the Rietz family enjoyed the December General Membership meeting on December 16, 2024, where the club held the annual holiday pot luck. Chris' daughters helped out with the drawings for the prizes. The club welcomes all families to join us as we inspire youth to explore STEM related activities outside of school.

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Message From the Editor

‘Tis the Season!

By Gene Wall (KE8KWF)
FCARC Secretary and QSO’er Editor

It’s almost that time of the year. Besides the arrival of your tax bill you will likely be asked by someone, maybe even on an upcoming FCARC net, “What is your New Year’s resolution?”

I used to make resolutions until I realized they were no different than the promises I would make to myself the other 364 days of the year. Some of my resolutions worked out, and others were so lofty that they were unattainable from the start.

Before I get asked, I thought I might share some of my 2025 resolutions with everyone. Maybe my public sharing will make me feel accountable toward meeting a few of these goals.

> Resolution #1: Upgrade my ham license to Amateur Extra. This has been on my list of things to do for the past year, but I always found it easy to put off studying for something else.
>
> Resolution #2: Get at least 10,000 steps logged on my smart watch at least 5 out of 7 days each week, with two days per week greater than 15,000 steps. I know that this would not only make me happy, but my doctor will be ecstatic with me!
>
> Resolution #3: Find some balance in my life. I want to sort through what I’m doing and shed the things that don’t give me joy. I’m not sure what that will look like by next December, but it’s time to clean house on my “to do” list. Don’t worry Mike (WI9MMM), I’m not going to drop the secretary position just yet..

I think three is plenty for me. My resolutions need to not only be attainable, but trackable and manageable as well. Feel free to ask me how I’m doing through the year. My unwritten resolution #4 is to not be embarrassed about my resolutions, nor will I fear failure to meet my resolutions. I just need to remember to pause and start over.

So how does this pertain to this edition of QSO’er? Well, I’d love to share more of our amazing club with the membership. There is so many great things happening in each of your QTHs that we never hear about. Would you consider a personal resolution to share what you are doing at your QTH with the club with a period update to share in a future newsletter? If you think that what you are doing is not worth sharing, guess again. I can almost guarantee that you are doing something that someone else wishes they could do. The more we can share with each other the stronger our club will be. The stronger our club is, the stronger we are as individuals. I am happy to help you get published, even if it is just a simple photo of your with your rig. Consider making a resolution to share your talents.

73,
Gene

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FCARC 2025 CLUB DUES

It's time to pay your dues. A 1-year membership is only $20. For your membership you receive the following benefits:

- ⇒ Mentorship from Elmer's who keep pace with the advancing technology of the hobby.
- ⇒ Access to resources such as the club radio station
- ⇒ Experience Field Day for the first, or 40th time. Club members will show you the ropes of how to set up and operate in field conditions.
- ⇒ Contesting as a group. This is a great way to break into contesting without the pressure of figuring out how to contest by yourself.
- ⇒ Affiliation with a public service group whose reputation is growing in the Fox Cities.
- ⇒ Monthly general membership meetings that include mini seminars on a variety of topics to expand your knowledge.

Dues can be paid in a variety of ways over the next two months.

- * Cash or check paid at any General Membership meeting
- * Mail a check to the club PO Box (see page 2 of the newsletter)
- * Pay at Hamclub Online (see the next page for instructions)

Your dues help sustain the clubs local repeater network, update equipment used by the club, and offset member costs for general operations in our community.

If you have questions about your membership, contact Donna (KC9THF). Her information in QRZ is current.

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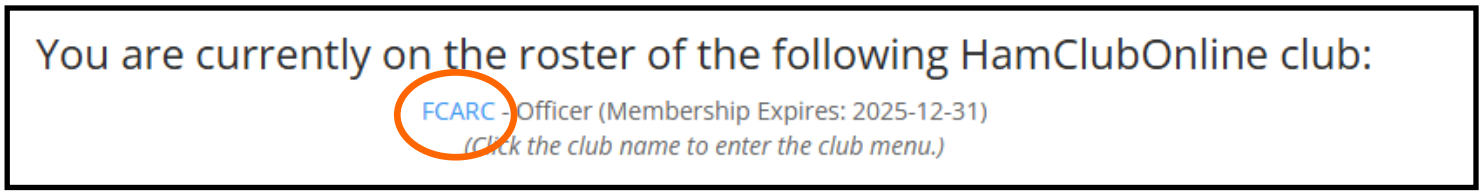
How To Pay Your Dues On HamClubOnline

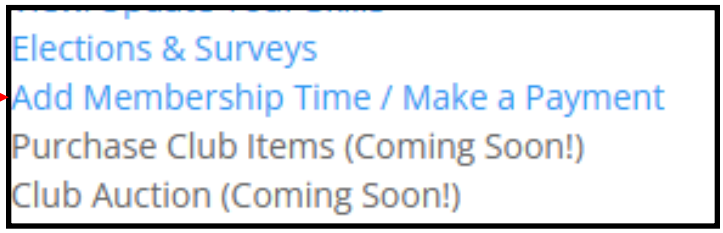
Step 1: Login into the HamClubOnline.com website.

Step 2: Sign in to the website with your login and password.

Step 3: Once logged in, in the center of the page, click on the FCARC link. You will notice that once you pay your dues, your dues expiration date will update. This is what it looks like for Gene Wall (KE8KWF). Yours will look like this after you pay.

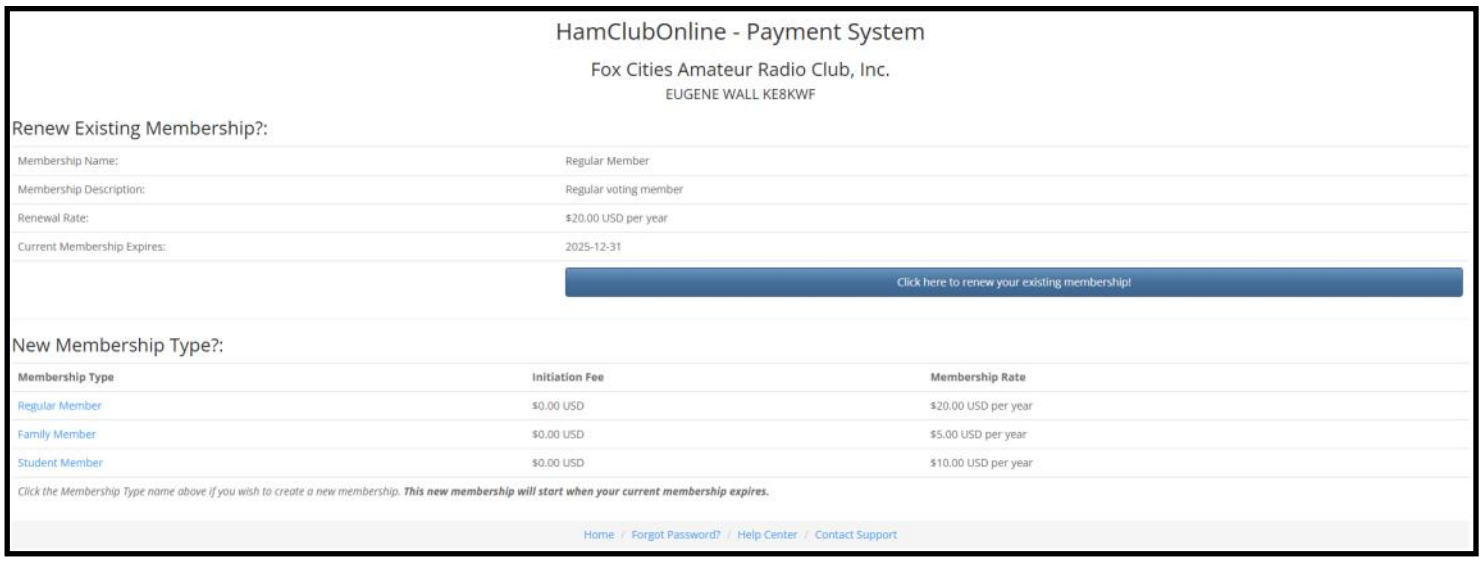


Step 4: There is a menu of options on the left side of the page after you log in. Select the option for "Add Membership Time/ Make a Payment"



Step 5: Click the Big Blue Button in the middle of the page. A new page will open up with your personal information. Follow the online ordering prompts for a secure payment via credit card through Square payment system. And that is all there is to it!

Welcome back to the club.



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FCARC Annual Banquet

February 22, 2025

3950 North Richmond Street
Appleton, Wisconsin

$30/adult, $15/children 12 and under
drinks not included

Menu

- Grilled Chicken
- Beef Tips
- Mashed Potatoes
- Sweet Corn
- Rolls

Purchase ticket online at http://www.fcarc.club

RSVP before February 14 to board@fcarc.club

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November FCARC General Membership Minutes

By: Gene Wall, KE9KWF

Per the organization bylaws, a quorum was achieved. There was a quorum with a total number of 41 in attendance. Mike Moore (WI9MMM) called the meeting to order at 7:00 pm. Roll call was taken by all members in attendance.

The minutes of the last meeting were approved as published in the newsletter.

The Elmer of the evening was Gene Wall, KE8KWF.

Committee Reports

Secretary – Gene Wall (KE8KWF) – Gene had nothing significant to report.

Treasurer – Donna Mendyke (KC9THF) – Donna handed out preprinted envelopes to use to pay for their 2025 dues. Members can also pay for their dues online. Donna also gave an update on the balances in our accounts.

Membership Coordinator – the position is open. Anyone interested in being a leader in the club can use this as an excellent introduction to our club.

Technical Director – Larry Peterson (WA9TT) – The tech tip for the evening was from Carl Young (N9NAV). He spoke on the topic of the role of band pass filters in your radio setup, and how best to integrate them.

Members at Large – If you have an idea for a program that you can give or would like to see, please speak to Mike (KD9QHQ), Rudy (KD9RPW) or Brian (W9BAM).

Special Committees

Repeater Committee – Andy Lawton (AJ9L) – We are making progress on the 23 cm repeater. We are waiting on the duplexer. The antenna is up on the tower. A 70 cm repeater will be linked to the 23 cm repeater so operators who do not have 23 cm can use 70 cm to talk on it.

Website Committee – Dave Sprangers (ND9DW) – W9LEX has done a great job updating our website. If you have suggestions for improvements, spend Dave an email.

License testing – Rick Kosiorek (WJ9K) – The next testing will be on January 25, 2025, at the FCARC Hamfest. Additionally, anyone interested in taking an online class for upgrading to General, see the club website for information.

Public Information – Carol Young (W9PIO) – Nothing significant to report.

Special Business

1. Ham of the Year – In December 2024 we will start collecting nominations for Ham of the Year (HOTY).

New Business

None.

Old Business

FCARC Potluck – December 16th, Mike Moore (WI9MMM) – we will have a short meeting to take nominations for the HOTY and vote on whether we will do the next hamfest. Please bring a dish to pass; the club will not be providing anything other than paper products and plastic ware.

Hamfest – Tony Mach (AB9IO) – Tony provided an update on how the hamfest went. See Tony for specific details of the financial report. Tony offered a huge thanks to everyone who helped make this past hamfest possible.

FCARC Banquet, Feburary 22, - Mike Moore (WI9MMM) – it will once again be held at Holiday's. The price is TBD.

Winter Field Day, January 25, 2025, Coordinator position open. We will also do license testing at field day. Field day will be held at the school in the Community Room.

Recruiting a Field Day Chairman – Mike announced we are still in need a Field Day chairman.

Technical Questions/Topic – None

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November FCARC General Membership Minutes (continued)

Show and Tell –
a. None for the night.

Program – Larry (WA9TT) gave a presentation on his sBitx radio. He was accompanied by Mike (KD9QHQ) who talked about how he built his own sBitx using a Raspberry Pi 5. Jesse JJ (W9JES) gave us an overview of the programming team that he leads to make improvements on the sBitx Hybrid Transceiver.

Adjourn at 8:00 pm

Minutes Prepared by-
Gene Wall (KE8KWF)

Reviewed by-
Mike Moore (WI9MMM)

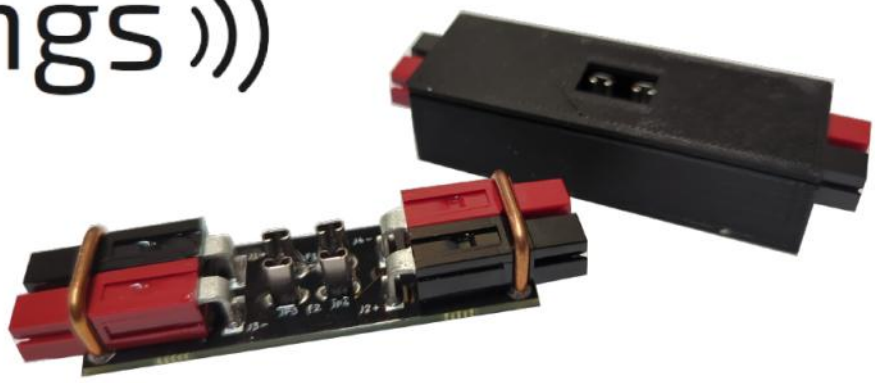
December FCARC General Membership Minutes

Per the organization bylaws, a quorum was achieved. There was a quorum with a total number of 32 in attendance. Mike Moore (WI9MMM) called the meeting to order at 7:00 pm. A formal roll call was not taken and members were encouraged to meet each other during the Pot Luck.

A report from all committees was presented. Donna (KC9THF) reminded members they could pay for their club dues at the meeting. Andy (AJ9L) announced that the 23 cm repeater is up and running.

Mike (WI9MMM) asked for a motion to adjourn the business portion of the meeting and transition to the Pot Luck holiday party. A motion was made and seconded by so many people Gene (KE8KWF) couldn't figure out who was talking. The meeting adjourned at 7:10 pm and the members had a holly jolly time eating, laughing, and telling ham tales to each other.

HamThings



Chris N9CVR is selling Powerpole Fuse Blocks. They are designed for mini APM/ATM blade fuses, up to 30 amps. Each Fuse Block weighs only 0.8oz!

Club member pricing: $13 for a kit, $9 for an enclosure; $29 for a complete Fuse Block.
Talk to Chris, good on QRZ, or HamThingsLLC.etsy.com,
Use promo codes W9ZLCLUBPRICE and W9ZLHANDDELIVER

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General Membership Meeting Sign-in Sheet
Date: 11/18/2024

	Name	Callsign		Name	Callsign
1.	KC Ross	KG9JT	21.	MIKE SANDERSON	KD9WYB
2.	Carol Young	W9PIO	22.	[illegible]	[illegible]
3.	Carl Young	N9NAV	23.	Rudy	KD9RPW
4.	JOHN VERWIEL	KC9TFM	24.	R KRANTZMANN	KD9GCX
5.	Evan VandenLangenberg	N9DU	25.	Rick Kosiorek	WJ9K
6.	Joel Kaeger	WI4WD	26.	KAREN THORNE	WB9ZNA
7.	Dzsid Peterson	Pending	27.	Alex Fraundorf	W9LEX
8.	DONNA MENDYKE	KC9THE	28.	Bob McDowell	KA9HZB
9.	Megan Mendyke	KI7OYB	29.	Scott Reynolds	WG9I
10.	ANTHONY L. MACH	AB9IO	30.	PAT ARMSTRONG	KD9YWG
11.	ANDY LAWTON	AJ9L	31.	ROY HINZ	KC9VLP
12.	STEVE OTTENS	WG9O	32.	[illegible]	KD9AVT
13.	Gary Hoehne	KB9HIT	33.	[illegible]	KD9ZTP
14.	LARRY PETERSON	WA9TT	34.	Andrew Sandahl	KD9ZAH
15.	Eric Bjorkquist	KG8RF	35.	Joshua Sandahl	KD9ZGO
16.	David Sprengers	ND9OW	36.	Anna Sandahl	KE9BGX
17.	Loren Larson	N9SEA	37.	Daniel Sandahl	KB9IQY
18.	ROD ROLLER	K6ROD	38.	Zachariah Menasmith	KD9TQP
19.	Gene Wall	KE8KWF	39.	Mike Miller	KD9QHQ
20.	JOHN TOUZINSKY	K9KI	40.	Mike Moore	WI9MMM

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November's Program: sBitx Hybrid Transceiver: An Open Source Radio For Hams

During the November General Membership meeting, Jesse "JJ" Kujawa presented a very interesting presentation on his work to upgrade and improve the source code and functionality of the sBitx Hybrid Transceiver. JJ has given permission to share his presentation with the club in this edition of the newsletter. Inserted over the next few pages are the slides he presented. In addition to JJ's presentation, Larry (WA9TT) demonstrated one of his own rigs (see image below).

Larry showing Andy his rig after the meeting.

Photo of JJ courtesy of JJ's daughter.

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November's Program: sBitx Hybrid Transceiver: An Open Source Radio For Hams (continued)

Overview

The sBitx is an innovative, open-source hybrid SDR transceiver built around a Raspberry Pi. It is both compact and cost-effective, providing a versatile set of features and capabilities.

- Receiver: 500 kHz to 30 MHz Continuous Coverage
  - Noise Figure: 15 dB, IIP3: +28 dBm
- Exciter: 80M, 60M, 40M, 30M, 20M, 17M, 15M, 12M, & 10M bands*
  - -43 dBc suppression of spurious signals
  - Four LPFs
    - 3.5MHZ to 5.5MHZ, 5.5MHZ to 10.5MHZ, 10.5MHZ to 18.5MHZ, 18.5MHZ to 30MHZ

Typical Power Output: 25 watts on 80M-20M, 10 watts higher bands

Power Consumption: RX (600 mA), TX (9 A)

Size: 10 in. X 6 in. X 2.4 in.

Weight: Under 4 pounds

Under The Hood

The sBitx features an upconverting superheterodyne architecture with a 40 MHz intermediate frequency (IF). This design simplifies the need for multiple band-specific filters.

Since the operating frequencies are below 30 MHz and the local oscillator is set above 40 MHz, image frequencies are shifted above 80 MHz, making them easily suppressed by a single low-pass filter covering the entire HF band.

A key advantage of the sBitx approach is the use of a 25 kHz-wide crystal filter with excellent image rejection, enabled by affordable and widely available 40 MHz fundamental mode crystals.

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November's Program: sBitx Hybrid Transceiver: An Open Source Radio For Hams (continued)

Development Team

March 2024 - JJ W9JES released a 64 bit image for the sBitx, created sBitx Toolbox and contributed hundreds of hours to the code.

April 2024 - Jon W2JON joined the dev team, contributed hundreds of hours to the code.

June 2024 - Jeff KF7YDU joined the dev team and contributes to hardware add-on development.

July 2024 - Alan N1QM joined the dev team, contributed hundreds of hours to the code.

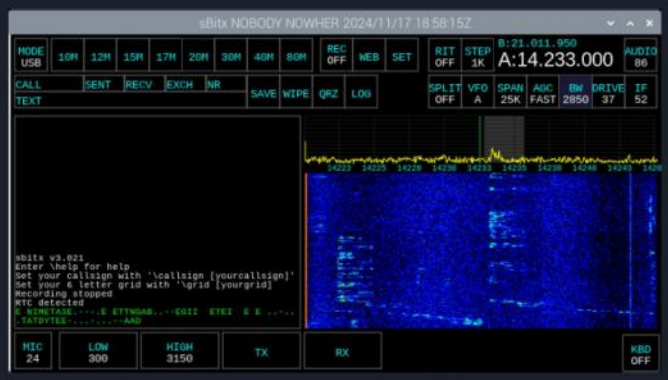
August 2024 - Lars OZ7BX joined the dev team and contributed FT8 and 60 Meter enhancements.

November 2024 - Willard W4WHL joined the dev team and is actively making contributions.

Transformation

We've come a long way from the original code base which has very few updates per year

32 bit



Our project

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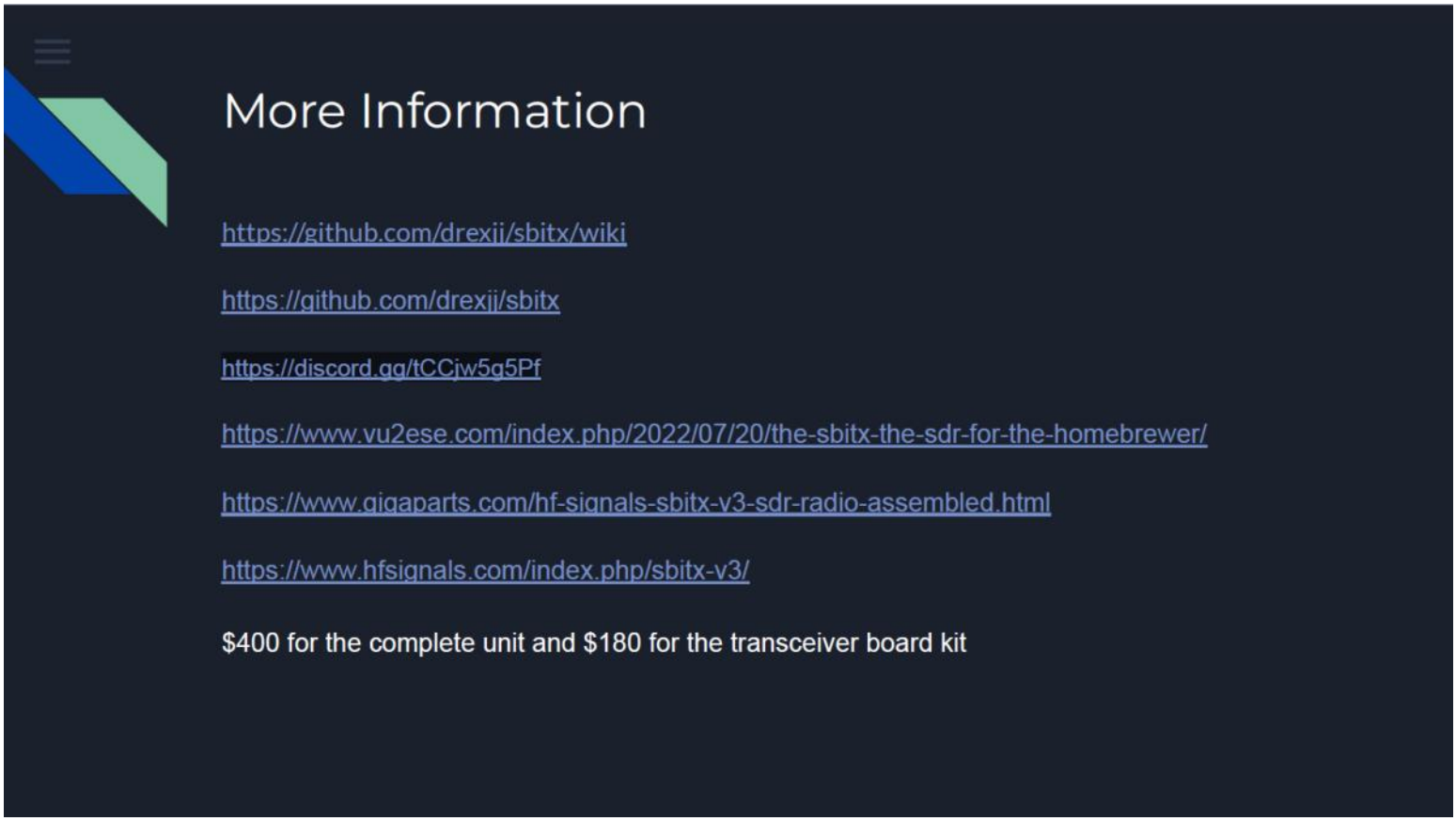
November's Program: sBitx Hybrid Transceiver: An Open Source Radio For Hams (continued)



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Additional Photos From November's General Membership Meeting

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Photos From the FCARC Swapfest November 2024

A special thanks to Shelly Boissonnault, the owner of Shelly Boissonnault Photography, LLC., and the daughter of Carol Young (W9PIO), for taking and sharing the photos from the November Swapfest. Check out Shelly's photo gallery of her amazing work with individual photos in different settings, in addition to marketing photos. Thank you Shelly for sharing!

https://shellyboissonnaultphotography.mypixieset.com/

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Photos From the FCARC Swapfest November 2024 (continued)

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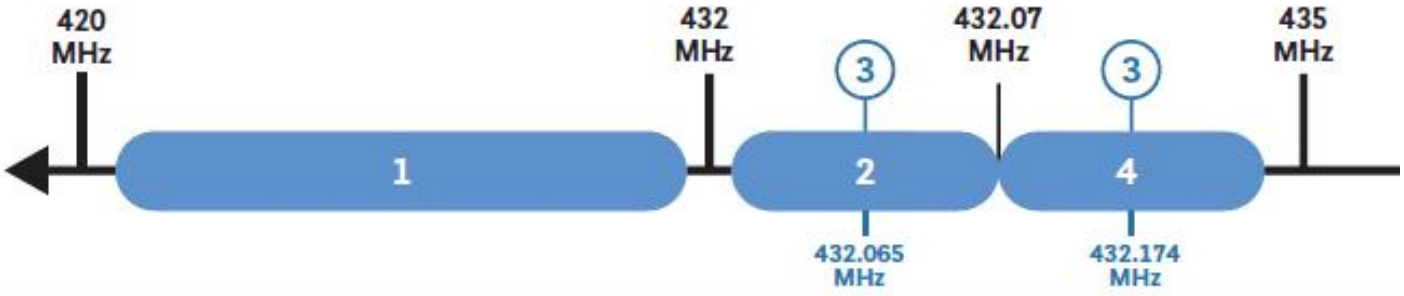
Reprinted from On the Air Magazine
November/December 2024 Edition

THE BIG PICTURE

The 70-Centimeter Band

There's a good chance you already have a radio for this band, as many hams' first radio is a dual-band handheld for 2 meters and 70 centimeters. Here's a look at what happens on 70 centimeters (please note that this is not an official band plan, it's simply an overview of the activities taking place on this band).



Amateur TV

Moonbounce

FT8

SSB, CW, FT8, etc.

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Satellites

Amateur TV repeaters

FM, D-STAR, DMR, Fusion repeaters

FM simplex

The 70-Centimeter Band — A Shared Resource

Spanning a whopping 70 MHz from 420 to 450 MHz, the 70-centimeter band is *huge*. Hams tend to think of it as a band for FM and digital voice repeaters, and this is true, but there is much more going on.

Not all the signals in this frequency band belong to amateurs. Instead, hams are considered *secondary users* who share this portion of spectrum with industrial, science, and medicine (ISM) devices, the military, and even unlicensed low-power equipment. For example, consider the wireless keys that are so popular with automobiles today. Those are unlicensed devices that often operate at about 433 MHz.

According to Federal Communications Commission (FCC) regulations, because hams are secondary users on this band, that means we cannot cause interference to other services, and we must accept any interference they cause to us. Fortunately, hams tend to concentrate their activities in portions of the band where their signals are less likely to come into conflict with other users.

Speaking of regulations, the 70-centimeter band has an oddity that some amateurs may be unaware of. FCC regulations forbid hams from transmitting between 420 and 430 MHz if they live north of a line that runs approximately 75 miles south of the US border with Canada. This line stretches from Aberdeen, WA to Searsport, ME. The restriction was established many years ago as part of an interference mitigation agreement between the US and Canada.

Ham Activities on 70 Centimeters

If you tune through the low end of the band between 420 and 433 MHz, especially during VHF/UHF contests, you'll probably hear CW and SSB signals. This is the domain of the so-called *weak signal* operators who use substantial output power and directional antennas to explore the band. They communicate over considerable distances, often pushing the limit of what is possible at these frequencies. Their signals lose much of their energy along the way, making reception a challenge.

Voice and CW aren't the only signals you'll encounter, though. You may also find digital FT8 signals, amateur television transmissions, and even *moonbounce*, in which hams bounce their transmissions off the surface of the moon!

You'll hear transmissions to and from amateur radio satellites between 435 and 438 MHz. In fact, these are among the most popular frequencies for amateur satellite communication. Listen at 437.800 MHz when the International Space Station is overhead, and you'll likely hear the downlink from its powerful FM voice repeater (the uplink is at 145.900 MHz).

Above 438 MHz you'll find FM and digital voice activity. Most of this takes place through relaying devices known as *repeaters*, but you will also run into station-to-station *simplex* activities. FM is the most popular mode, but you will also find digital voice signals belonging to D-STAR, DMR, Fusion, and other systems. You can easily recognize these signals from the buzzing sounds they make.

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Photos From December's General Membership and Holiday Pot Luck.

The FCARC would like to thank several people for making this year's holiday party a huge success.

Donna Mendyke (KC9THF) for arranging for the prizes that were given out for the night.

Rudy Reynebeau (KD9RPW) for donating the beautiful poinsettias

Wolf River Coils for their continued support for all of the FCARC activities.

Mike Moore (WI9MMM) for leading our club to yet another successful year.

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on HF frequencies?
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2025 ARRL Foundation Scholarship Program Accepting Applications through Jan 6, 2025

The 2025 ARRL Foundation Scholarship Program will begin accepting applications on October 30, 2024. Applications will be accepted through January 6, 2025.

More than 100 scholarships ranging from $500 to $25,000 will be awarded. All applicants must be active, FCC-licensed amateur radio operators.

The ARRL Foundation Scholarship Committee will review all applicants for eligibility and award decisions. All applicants must be an active, FCC-licensed amateur radio operators. All applicants must submit a completed online application. Transcripts and any additional required documents must be submitted **WITH** the application and not emailed separately. A number of scholarships require additional documents, such as a letter of recommendation from a sitting Officer of an ARRL-affiliated club. Applications without accompanying transcripts and additional required documents (if applicable) will not be considered. Scholarship recipients will be notified by early June 2025. Awards are mailed directly to recipients' schools and will be awarded in July 2025.

Information, along with the link to the online application, can be found on ARRL's website: https://www.arrl.org/scholarship-program.

The 2025 scholarship cycle will close at 12:00 pm (Eastern Standard Time) on January 6, 2025.

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Social Saturday
January 4, 2025
9:00 am

You need to eat breakfast, don't you? Then that is all the reason you need to join us for social Saturday.

Our next Social Saturday is only a few weeks away. Enjoy some great conversation, mentorship, and live ragchew, with great food as a bonus.

Golden Corral
1169 North Westhill Blvd.
Appleton, WI 54914

FCARC Club Gear

On sale now at http://www.jse-repair.com

Contact Jeff on his website for information on items that you don't see, but would like. He stocks and makes a wide variety of POTA clothing and flags, hats, club shirts, as well as radio covers.

JSE Est 2009 Custom Embroidery & DTG Printing Hats - Jackets - Shirts

FCARC welcomes your donations in support of our mission to serve amateur radio. As a 501(c)(3) organization, your donations are tax-deductible. You can go to the FCARC website and click on the "Donate" button.

Donate

GOT QUESTIONS? CALL our Google Voice Information Phone Number
920-358-0118

If you have an item, rig, QSL card, or anything related to Amateur Radio and want to share it with club members, bring it to the club meeting for **SHOW AND TELL**.

A 2-3 minute section put into the agenda for fellow hams to share items they find useful or promotes Amateur Radio.

Meeting Information

Maplewood Middle School
1600 Midway Road
Menasha, WI

Community Room
Enter thru Door 17
Meetings start at 7:00 PM

Meetings are held on the third Monday of each month. Check the FCARC calendar for details.

The FCARC Board of Directors meets on the *second Monday* of each month at Maplewood Middle School. Club members are welcome to attend.

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The next FCARC General Membership meeting will be on Monday, January 20, 2025.

The meeting starts at 7:00 pm at Maplewood Middle School.

WOLF RIVER COILS LLC
Silver Bullet Antenna

From the guys who brought you misfit coils, Wolf River Coils LLC now has misfit collapsible whips.

102 inch collapsible SS whips $15.00 or 3 for $40

213 inch collapsible SS whips $25.00

Now that Wolf River Coils LLC has incorporated a CNC Milling machine for coil production their supply of misfit coils is dwindling as we no longer create a misfit. So if you ever wanted to purchase a misfit SB1000 or SB Mini now is the time because when they're gone, they're gone.

SB1000 sells for $20.00 and the SB Mini sells for $15.00.

Next FCARC Ham Exam

January 25, 2025

Registration starts at 8 am and ends at 9 am. Preregistration is encouraged. A government issued picture ID is required along with proof of your current license. Please see the ARRL.org website for license information and other forms of acceptable ID. The application requires a **Federal Registration Number** and a valid **email address**. FRN's can be obtained free of charge on the FCC.gov website in the ULS section.

Details on each testing date will be posted on the FCARC website.

Cell phones must be silenced and put away during exams. Non cell phone calculators are permitted. Programmable calculator memories must be cleared and are subject to examination by a VE. Cost of the exams are set by our VEC, the ARRL, at $15.

If you fail an exam you may take a different version, time permitting, but you will be charged another $15. If you are successful you may take the next element during that session with no charge.

If you have any questions concerning FCARC Exams or to preregister contact Rick Kosiorek at (920) 809-1010 or WJ9K.mail@gmail.com

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Wisconsin Hamfest Schedule

03/16/2025 - Tri-County WI HamFest 2025
Location: Fort Atkinson, WI
Sponsor: Tri-County Amateur Radio Club
Website: https://www.W9MQB.org

ARRL Student Membership

ARRL Student Membership was established to increase youth participation and long-term involvement in amateur radio. Student members can access ARRL membership benefits including the digital versions of ARRL magazines, and the extensive courses and training materials available through the ARRL Learning Center.

Please note: ARRL requires age verification for all student members. Parental/Guardian consent is required for applicants under 18 years of age. Student memberships are not eligible for add-on printed membership magazine subscriptions. Student membership benefits are subject to other restrictions and exclusions.

Student Membership options:

Option 1: **Full Student Membership.** Dues rate $30 per year. This low-cost membership option is available to US Amateur Radio licensees under the age of 26 years. Applicant must be a resident of the US, its possessions, or Puerto Rico. A full member may vote in ARRL elections for Division Director, Vice Director, and Section Manager. Other restrictions and exclusions may apply.

Option 2: **Free Student Membership.** This no-cost, Associate membership option is available to full-time students aged 21 years or younger. Applicant must be a resident of the US, its possessions, or Puerto Rico. Free Student Membership
excludes access to the ARRL E-mail Forwarding Service, and Associate members may not vote in ARRL elections. Other restrictions and exclusions may apply.

Join Now

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The Ozaukee Radio Club presents its 45th Annual Spring Indoor

Amateur Radio, Electronics & Computer

SWAPFEST

featuring TOWER ELECTRONICS!

Saturday, April 26, 2025

8 AM to 12 PM

Ascension Columbia St. Mary's Center (Milwaukee Curling Club)
W67N890 Washington Ave., Cedarburg, WI 53012

Talk-in: 146.97 MHz – PL 127.3 Hz
Door Prizes! Free WIFI

Food sold by Cub Scout Pack 516

Admission: $7.00 at the gate
Children 12 and under FREE, with a paid adult admission
6 ft. Tables: $12.00 in advance, $15.00 at the door, if available

Use the Order Form below, email, or call Tom Trethewey, KC9ONY at 262-421-6351
Email: swapfest@ozaukeeradioclub.org
More information: http://www.ozaukeeradioclub.org/ or http://www.facebook.com/orcwi

Save the date for **2026**: April 25, 2026 !!

For Advance Tickets and Tables, send check with a **SASE** (Business-Size #10 envelope) to:
Tom Trethewey, KC9ONY- W69N905 Evergreen Ct N, #202, Cedarburg, WI 53012-1170

Name: _____ **Call sign:** _____

Address: _____

Phone number: _____ **Email:** _____

No. of Tickets: _____X $7 = _____ **(Advance tickets are double stub)**

No. of Tables: _____X $12 = _____ **Electricity:** Yes (Add $5) _____No _____

Total Amount: _____ **(Please make checks payable to ORC)**

Tickets and flyers printed by Mequon Copy Master https://mequoncopymaster.com/

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FCARC Lending Library

Chris Reitz, N9CVR
Head Librarian

The FCARC lending library is a repository of references, equipment, and supplies that club members are willing to loan out to other club members. If you would like to borrow an item from the lending library contact the owner and arrange to borrow the item. If you have something you would like to list in the lending library, contact Chris Reitz (N9CVR) to have your item listed.

Library Catalog
Current As Of 11/3/24

Item	Make	Model	Owner	Notes
Coax / Powerpole crimper			N9CVR	contains all required tools for crimping coax and power-pole ends, except wire stripper for powerpoles
Power Meter	Diamond	SX-200	KD9UHZ	
RF Preamp	Ameco	PT-3	KD9UHZ	
Manual Antenna Tuner	MFJ	MFJ-945E	KD9UHZ	
TDR pulse generator	-	-	N9CVR	For Time Domain Reflectometry
TDR potentiometer	-	-	N9CVR	For finding characteristic impedance of TX line. Broken as of 2023.01.29, working on fixing.
75m/40m NVIS dipole	-	-	N9CVR	Requires a tree or pole and some open space to deploy
2m/70cm tape measure			N9CVR	Portable, directional antenna. SO-239 connection. Good
offset attenuator	KC9ON		N9CVR	for fox hunting
20ft fishing pole			N9CVR	Good for portable installations where trees don't exist
misfit 213in whip	Wolf River Coil		N9CVR	Misfit whip - skinniest section doesn't go up (~6in). 3/8"-24 threaded base
Microbit v2 (x2)	BBC	Microbit	N9CVR	USB/Bluetooth Microcontroller with 2.4GHz radio capability and access to library of programs for it
Antenna Analyzer	MFJ	208	WI9MMM	2m Only Antenna Analyzer
2m mobile radio	Yaesu	FT-1500M	N9CVR	2m / Analog FM / 50W + WX.
Code Practice Oscillator	Pacific Antenna	CPO	N9CVR	From club build day. There are 3 in my household, so feel free to borrow one!
2m wattmeter/SWR meter	Shurecom	SW33	KD9TXA	SMA connectors
2m J-pole antenna	-	-	KD9TXA	SO239 connector
Cable tester			KD9TXA	For RJ45 and RJ-11 modular cables
Modular connector crimper			KD9TXA	For RJ45 and RJ-11 modular cables
Coax crimper			KD9TXA	For RG6 (75 ohm cable company coax)
Tripod stand for J-pole			KD9TXA	Ideal for field day. About 6ft height
800W generator			KD9TXA	Gasoline powered

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“All that hum needed was a little extra filtering.”

The comic to the left was taken from the October 1960 edition of “Radio-Electronics” magazine, page 132.

HAM Radio Trivia

1. As of December 24, 2024, about how many current US Amateur licenses were listed in the FCC ULS Database?

A) 755,000 B) 745,000 C) 735,000 D) 725,000

2. How much money did it cost to pick your own "two letter call" (example: W3SY) in 1977, if you were an Extra Class licensee?

A) $0 B) $9 C) $25 D) None of the above. You couldn’t pick your own 2 letter call in 1977

3. Which of the following is a recognized FM calling frequency on the 902 MHz band?

A) 906.52 MHz B) 927.5 MHz C) 902.1 MHz D) 901.5 MHz

4. What is the formula for determining the approximate starting length (in feet) of a half wave dipole (including both sides)?

A) 468 divided by the frequency in Megahertz B) 468 divided by the frequency in Kilohertz
C) 234 divided by the frequency in Megahertz D) 234 divided by the frequency in Kilohertz

Try your luck at answering these HAM trivia questions. The answers are at the bottom.

1. B) 745,000 | 2. A) $0 | 3. B) 927.5 MHz | 4. A) 468 divided by the frequency in Megahertz

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December 2024 FCARC Word Search

Electrolytic **Backscatter** **Heterodyne** **Loss** **Transistor**

Ionosphere **Bandwidth** **Modulator** **Schematic** **Coupling**

Solenoid **Antenna** **Stacking** **Decibel** **Ferrite**

Reactance **Gateway** **Winlink** **Cathode** **PACTOR**

Doping **Anode** **Clock** **Farad** **Cycle**

Baud

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Elmer's Contact List

This is a listing of HAMS who are willing to help other HAMS out in special areas. Feel free to contact these fellow HAMS with any questions.

Call / Name	Specialty Area	Phone
N9LVS - Dan	FCC Personal Da-	205-4899
WA9TT- Larry	SSTV (analog)	915-4499
N9AOT -Terry	Wires X / Digital	572-2937
KB9AIT - Gary	Wires X	
KC9YL- Anne	CW	682-7978
W1GCS - Greg	Net Control Oper-	740-9408
WJ9K - Rick	Getting on the Air	809-1010
KG9JP - KC	Contesting	602-999-7341

If you are interested in helping other hams and being an Elmer please contact a board member.

Logging Software For Your Shack

N3FJP
http://www.n3fjp.com/

N1MM Logger
https://n1mmwp.hamdocs.com/

WriteLog
https://writelog.com/

TR Log
http://www.trlog.com

WinTest
http://www.win-test.com/

SI by EI5DI
http://www.ei5di.com/

DX Keeper
http://www.dxlabsuite.com/dxkeeper/

FCARC Repeaters

Frequency	Offset	Tone	Remarks
145.330	- 0.600 MHz	100.0	System Fusion
146.760	-.600 MHz	100.0	
146.760	-.600 MHz	107.2	This is a receiver station at Oneida Heights.
443.650	+5.000 MHz	100.0	

FCARC Member Repeaters

Frequency	Offset	Tone	Remarks
224.500	-1.6 MHz	100.0	

FCARC Nets

Net Name	Frequency	Schedule and Extra Information
2-Meter	146.760	Wednesdays at 8:00 pm. Contact John (KC9TFM) if you can be a net control operator.
2-Meter Digital	145.330	First Tuesday of the month at 8:00 pm. You can also use the FCARC's Fusion Room 40216, the W9ZL room. Contact Terry (N9AOT) if you can be a net control operator.
2-Meter SSTV	146.760	Second Sunday of the month at 6:00 pm. Contact Larry (WA9TT) if you can be a net control operator.
222	224.500	2nd Tuesday of the month. Contact Dave (KB9RPH) if you can be a net control operator.
6-Meter	52.550	Third Tuesday of the month. Contact Larry (WA9TT) if you can help be a net control operator.
Morning Coffee Klatch	146.760	Monday, Wednesday, Friday at 9:30 am.

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FCARC Club Calendar

January 2025
1 - New Year's Day &
1 - 2 meter net 8 pm (KC9TFM)
4 - Social Saturday & Fox Hunt
7 - 2 meter digital net 8 pm
8 - 2 meter net 8 pm (WA9TT)
12 - 2 meter SSTV net 6 pm (KC9TFM)
13 - Board of Directors meeting 7 pm
14 - 220 Mhz Monthly Net 8 pm
15 - 2 meter net 8 pm (WI9MMM)
20 - MLK Jr. Day & Inauguration Day
20 - General Membership Meeting 7 pm
21 - 6 meter net 8 pm (WI4WD)
22 - 2 meter net 8 pm (KC9THF)
25 - Amateur Radio License Exam 8 am - 11 am
25 - 26 - Winter Field Day
29 - 2 meter net 8 pm (W9SJO)

February 2025
1 - Social Saturday & Fox Hunt
4 - 2 meter digital net 8 pm
5 - 2 meter net 8 pm (AJ9L)
7-9 - Hamcation
10 - Board of Directors meeting 7 pm
11 - 220 Mhz Monthly Net 8 pm
12 - 2 meter net 8 pm (KE8KWF)
14 - Valentine's Day
17 - President's Day
18 - 6 meter net 8 pm (WI4WD)
19 - 2 meter net 8 pm (WI4WD)
22 - FCARC Annual Banquet
26 - 2 meter net 8 pm (KC9THF)

March 2025
1 - Social Saturday & Fox Hunt
2 - SSTV 2 Meter Net 6 pm (KB9YUC)
4 - 2 meter digital net 8 pm
5 - 2 meter net 8 pm (WA9TT)
7 - Social Saturday & Fox Hunt
9 - Wisconsin QSO Party
9 - Daylight Savings Time Ends
10 - Board of Directors meeting 7 pm
11 - 220 Mhz Monthly Net 8 pm
12 - 2 meter net 8 pm (WI9MMM)
17 - General Membership Meeting 7 pm
17 - St. Patrick's Day
18 - 6 meter net 8 pm (KB9AIT)
19 - 2 meter net 8 pm (KC9THF)
22 - Amateur Radio License Exam
26 - 2 meter net 8 pm (W9SJO)

April 2025
1 - 2 meter digital net 8 pm
2 - 2 meter net 8 pm (AJ9L)
5 - Social Saturday & Fox Hunt
8 - 220 Mhz Monthly Net 8 pm
9 - 2 meter net 8 pm (KE8KWF)
13 - 2 meter SSTV net 6 pm (WI9MMM)
14 - Board of Directors meeting 7 pm
15 - Tax Day
16 - 2 meter net 8 pm (WI4WD)
20 - Easter Sunday
21 - General Membership Meeting 7 pm
23 - 2 meter net 8 pm (KC9TFM)
30 - 2 meter net 8 pm (WA9TT)

May 2025
3 - Social Saturday & Fox Hunt
6 - 2 meter digital net 8 pm
7 - 2 meter net 8 pm (WI9MMM)
10 - Sole Burner
11 - Mother's Day
11 - 2 meter SSTV net 6 pm (WA9TT)
12 - Board of Directors meeting 7 pm
13 - 220 Mhz Monthly Net 8 pm
14 - 2 meter net 8 pm (KC9THF)
16 - 18 - Hamvention
19 - General Membership Meeting 7 pm
20 - 6 meter net 8 pm (WA9TT)
21 - 2 meter net 8 pm (W9SJO)
26 - Memorial Day
28 - 2 meter net 8 pm (AJ9L)

June 2025
3 - 2 meter digital net 8 pm
4 - 2 meter net 8 pm (KE8KWF)
7 - Social Saturday & Fox Hunt
7 - Amateur Radio License Exam
8 - 2 meter SSTV net 6 pm (WA9TT)
9 - Board of Directors meeting 7 pm
10 - 220 Mhz Monthly Net 8 pm
11 - 2 meter net 8 pm (WI4WD)
14 - Flag Day Parade
15 - Father's Day
16 - General Membership Meeting 7 pm
17 - 6 meter net 8 pm (AJ9L)
18 - 2 meter net 8 pm (KC9TFM)
19 - Juneteenth
25 - 2 meter net 8 pm (WA9TT)
28 - Field Day

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FOX CITIES AMATEUR RADIO CLUB, INC.

FCARC, PO Box 2346, Appleton, WI 54912
920-415-2ham (2426) - www.fcarc.club - fcarcw9zl@gmail.com

Membership Application

Date _____ ☐ New member ☐ Renewal

☐ Full / Associate / Retired ☐ Student

Call Sign _____ License Class _____ ARRL Member? ☐ Yes ☐ No

Name _____ Phone _____

Address _____

City _____ State _____ ZIP _____

Email _____

$20.00	_____	Full, Associate (non ham), Retired
$10.00	_____	Student School_____
Free	_____	New Ham (FCARC VE certificate required)
$5.00 each	_____	Additional Family Members
	_____	Donation (Optional)
Total	_____	

My Family Member is Joining or Renewing:

☐ New member ☐ Renewal

Call Sign _____ License Class _____ ARRL Member? ☐ Yes ☐ No

Name _____ Phone _____

Email _____

☐ New member ☐ Renewal

Call Sign _____ License Class _____ ARRL Member? ☐ Yes ☐ No

Name _____ Phone _____

Email _____

Note: Family members must reside at the same address

Note: Please see the treasurer for an ARRL dues form. Our club will receive a portion of those dues if you sign up or renew through us.

Fox Cities Amateur Radio Club, Inc. is a 501(c)3 non-profit corporation.
Your contribution supports our community service and public safety activities.
All donations are tax-deductible to the fullest extent of the law. Please consult your tax advisor.

Treasurer Use:

Amount Paid $_____
Check # or method of payment _____
Paid through 12/31/_____
Date Deposited _____

QuickBooks Updated _____
Website Updated _____
HamClubOnline Updated _____

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