



ARCOVER

May 2023



The Official Newsletter of the Fox River Radio League
98 Years of continuous service to our communities

1924  2023

Who We Are

President:

Terry Todd W9AUV

Vice President:

Eve Schneider W9EVE

Secretary:

Art Shuter NN9I

Treasurer:

Dan Harmon WA9YKK

Director 1: NETS / RPTR'S

Ruben Noceda K9ARN

Director

John Greusel KC9OJV

Director

Paul Mitchell KC9SEB

Director

Jim Brady W9JB

Past President:

Dennis Barfuss W9HI

Programs:

Paul Mitchell KC9SEB

Education / VE:

Jim Brady W9JB

License Trustee (W9CEQ):

Kermit Carlson, W9XA

License Trustee (W9NE):

Denny Barfuss W9HI

Newsletter Editor / PR:

Jerry Chapman N9JLC

Webmaster:

Mark Van Daele K9MEV

Membership Database:

Chris Kennell, KC9BKS

Net Coordinator:

Curt Sauer, W9YNP

About Us

The Fox River Radio League, Inc. is a general interest Amateur Radio club serving the central Fox River Valley area in Illinois. Club records indicate the club has been in existence since at least 1924, and it has functioned continuously ever since. We are an ARRL Special Service Club, an Illinois not-for-profit corporation, and a 501(c)(3) tax exempt organization as specified in Federal IRS Statutes.

We sponsor training classes for those seeking a new or upgraded Amateur Radio license, license examination sessions, and participation in various local Public Service events. Our membership covers a broad variety of interests - if you have a specialized amateur radio interest, you will likely find camaraderie with one or more of our club members.

We meet on the 2nd Tuesday of every month at Bethany Lutheran Church, located at 8 S. Lincoln St. in Batavia, Ill. The meeting begins at 7:30 PM and includes a short business portion, social time and a program presentation of interest.

Meetings are open to the public. Anyone interested in the amateur radio hobby are invited to attend. Family members are welcome.

Fox River Radio League



May 2023

Fox River Radio League

Mailing Address:
P. O Box 673
Batavia, IL 60510-0673

Email: info@frrl.org

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



From
the desk
 of....

The Esteemed

Terry Todd

Lots of ham radio events coming up. The SPRINGWIRE 2M/6M/10M SSB event starts on May 1, 2023. Look it up at hamactive.com. Field Day is fast approaching. Be thinking about how you want to participate. Contact Patrick Brod KB9ANL or Mike Upham W9TG for more info. The FRRL 100th anniversary planning has kicked off. Contact Evelyn Schneider W9EVE for more info.

Terry - W9AUV



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New Members

Call Sign	Name	License Type
KD9WZU	Lisa Upham	General

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ARC OVER

FOX RIVER RADIO LEAGUE MEMBERSHIP MEETING MINUTES

April 11, 2023

Minutes of the Regular Meeting of the General Membership of the Fox River Radio League (FRRL)
an Illinois not-for-profit Corporation

Meeting Minutes April 11, 2023

The April meeting of the Fox River Radio League was conducted at Bethany Lutheran Church in Batavia, IL. There were 33 members in attendance and 2 members attended via Zoom.

The meeting was called to order at 1930 CDT by President Terry Todd W9AUV

All Board members were present except for Vice President Evelyn W9EVE and Secretary Art NN9I

Minutes: Acceptance of the March 2023 Membership Meeting minutes as printed in the ArcOver were approved by the membership. Motion: Curt W9YNP 2nd by Ruben K9ARN

Treasurer's Report: Dan WA9YKK reported the account bank balances as of April 4, 2023

Reports:

Bylaws Review Committee: Dan WA9YKK and Terry W9AUV have reviewed the current Bylaws. Changes will be voted on at the next BOD meeting in May. The changes will be announced at the May membership meeting. They will then be published in the June ArcOver and voted on at the June membership meeting.

100th Anniversary Committee: No Report

Public Information Officer: Jerry N9JLC showed us the new tri-fold brochure. Copies were available at the meeting for members to view.

Membership/Database: Mike K9FE advised we have 132 members as of April 9th.

Club Activities: Paul KC9SEB asked for ideas/topics to present at club meetings. He asked that members email him with their suggestions. Paul also is looking for suggestions for outdoor activities that can be done during the week or on a weekend.



Meeting Minutes April 11, 2023continued:

Technical: John KC9OJV had nothing to report.

Education: Denny W9HI advised the Extra class will be pushed back until fall, hopefully the second week in September due to lack of time for the 12-week class. We will be conducting two Technician classes for the Civil Air Patrol and Kane County Emergency Management Agency. Dates are yet to be determined.

VE Update: Next session will be a special VE session on April 13th at 6PM at Geneva Lutheran Church. This is due to the General License class ending after the March VE date. There will be a regular VE session in May as usual.

Repeater- Ruben K9ARN advised that the repeaters are running fine. An interface cable was purchased to link the Motorola radio to the repeater controller which will allow additional programming to occur.

ARRL Section Emergency Coordinator: Robert W9DSR reported on the ILEMA state summit that occurred on March 25th. There are two more summits scheduled for summer and fall. Also, an article on page 64 of the April QST magazine tells about EYEWARN a group that was formed in the state of Oregon. Robert also advised that there could be a Northern Illinois Emergency Comms meeting in Rockford this fall. He then asked for a show of hands of those who might be interested in attending.

Old Business:

Mike K9FE reported that the BOD put together a FRRL Assistance Questionnaire for new hams to fill out. It will help them determine what is needed to set up their station such as radio setup, antennas, station location, etc. This will help identify available resources within the club that may be willing to help them set up their station. Harry K9DXA advised that the form does not fulfill the motion he made at the February meeting which was clarified at the March meeting. *(See February and March meeting minutes for reference)* President Todd W9AUV and Mike K9FE advised that the BOD believes they went beyond the scope of Harry's motion by encompassing all amateur bands, modes etc. instead of limiting it to six and ten meters.

New Business:

Harry K9DXA asked if anyone from the BOD watched the club leadership videos on the ARRL website. President Todd W9AUV advised that he watched the first one and found it interesting and helpful.

Harry K9DXA also expressed his displeasure in that the FRRL website is not up to date in several areas. Specifically, he pointed to missing and out dated information in the Directors' assignments and Committee listings including the VE Team Leader, Education Team Leader, Program Chair etc. The webmaster will be contacted to update the information.

Field Day: Field Day is in need of a Chairman, band captains, etc. The forest preserve has been reserved. Please contact Terry W9AUV of your interest and for more info. Date are June 23rd to June 25th.

Announcements from the Floor:

NONE

Meeting Minutes April 11, 2023 continued:

Adjournment:

The meeting was adjourned at 2020hrs CDT motion by Robert W9MZ; Second by Curt W9YNP

Upcoming Events:

April 20th Newsletter Deadline
May 2nd BOD Meeting
May 9th Membership Meeting
May 20th Newsletter Deadline
June 23rd – 25th Field Day

Program:

Paul KC9SEB demonstrated the Raspberry Pi based Ham Clock
(<https://www.clearskyinstitute.com/ham/HamClock/>)

Respectfully submitted,

Dean Holste, KC9EOQ
Acting FRRL Secretary



EME: Pandemic and Patience

Doug Hansel, AA1UI, found himself with some extra time during the pandemic and thought that it might be the right time to learn how to make Earth-moon-Earth (EME) contacts.

"First, I did a lot of reading and talking to other amateurs. Then, I realized I needed better equipment, software, and a lot of patience," said Hansel.

Hansel was gifted a 15-element Yagi but had to sell some older equipment to upgrade to a better amplifier and equipment.

After many attempts, his first contact was in 2021. He kept at it and was thankful for all of the help he received. Hansel stressed the need for patience, stating, "What's fun is that I really didn't know what I was doing, but the EME community was very generous with their time and advice in helping me tick this off my bucket list."

He made a detailed video of his experience that can viewed here:

<https://www.dropbox.com/s/2n4rlnoh37rmgt7/EME%20Project%20short%20FB720-FINAL.mp4?dl=0>.



FOX RIVER RADIO LEAGUE May 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 	2 1900 FRRL BOD Meeting 1930 FRRL 2m Net	3	4	5	6
7 INFORMAL ALL OPR NET 1900	8 CW NET 28.150 2000  SSB NET 28.720 2030	9 1930 FRRL Membership Meeting No Net	10	11 1800 VE Testing	12	13
14 INFORMAL ALL OPR NET 1900	15 CW NET 28.150 2000  SSB NET 28.720 2030	16 1930 FRRL 2m Net	17	18	19	20 
21 INFORMAL ALL OPR NET 1900	22 CW NET 28.150 2000  SSB NET 28.720 2030	23 1930 FRRL 2m Net	24	25	26	27
28 INFORMAL ALL OPR NET 1900	29 	30 1930 FRRL 2m Net	31			
May 20th is				MEMBER MEETING BETHANY LUTHERAN CHURCH 8 SOUTH LINCOLN ST. BATAVIA IL		
 WCRA 2m Net 8pm 145.31 -6 107.2	 VARA 2m Net 8pm 146.79 -6 107.2	 FRRL 2m Net 7:30pm 147.21 +6 103.5	 Kane County ARES 2m Net 6:30pm 145.47 -6 103.5	 Northern Illinois ARRL 70cm Net 7:30pm 444.875 +5MHz, 114.8	 CW Net 28.150, Monday 8PM  SSB Net 28.720, Monday 8:30PM	

ARC OVER

NEWS AND INFORMATION CENTER

Local - National - International



Loyalty Day

First and foremost, be true to yourself.
 Affirm your loyalty to your country.
 Recite the Pledge of Allegiance.
 Express your loyalty to your spouse, your lover, that special someone, and to your family.

Start Thinking About Field Day 2023... It'll be here before you know it !!



We need people to help set up/tear down along with Band Captains and of course



YOU to come out and operate !!



Indoor Noise and Ferrites, Part 2

by Tom Lebryk (KD9NPR)

Part 1 covered Jim Brown's ferrite article, RF Chokes for coax, and creating customized RF Chokes using multiple Types of toroidal ferrites with multiple, large diameter Turns.

VHF Noise

I started to isolate which devices caused which kind of noise when listening to my outside amplified antennas for FM/VHF and UHF-TV transmissions. Many consumer Power adapters make a lot of noise from VLF up into UHF ranges. One thing I did right was to try a 10 pack of these little miracle "Wall-wart" RFI Noise Filter (<https://palomar-engineers.com/rfi-kits/miscellaneous-rfi-solutions/wall-wart-rfi-filter-kit/Wall-Wart-RFI-Noise-Filter-Bulk-Pack-of-10-Filters-p90491965>). One by one, I put one of these small toroids (19mm inside diameter) on my home AC adapters as shown in the pictures, and the noises started disappearing (both VHF and Shortwave). It does not explicitly say, but I believe it is Type 75 material which suppresses the noise generating AC adapter (at very low frequencies) when wrapped 8 – 12 times. They are amazing, I cannot say enough good things about them!



Most egregious of these was my C.Crane FM2 transmitter. A strangled warbling sound kept emanating from the monitor closest to my laptop. Installing ferrites on the laptop and back of the monitor were not working. I moved the FM2 Transmitter and noticed a reduction in noise. So, I put one of these little miracle toroids on the power input of the device and the noise disappeared. Apparently, it was picking up noise from the monitor (as well as its own power adapter) and rebroadcasting it to all my other radios! The strangled warbler is no more, I choked it (sick bird joke).

While looking for the monitor noise, I put the eBay TDK clamp-on ferrites on all the USB ports and HDMI ports. This has greatly helped on VHF and confirms my suspicion that these cheap TDK ferrites are indeed a ferrite material for FM stereo system interconnect cables. Some informative graphs can be seen in Jim Brown's Audio paper mentioned in Part 1. One example might be Figure 22, which shows the Type #61 Series Resistance which peaks around 100 MHz when using a toroid with three "Turns" (a "Turn" is simply how many times the wire goes through the middle of the toroid, just count the inside wires; sticking the wire or coax through the middle = 1 Turn, each further Turn is one more, etc.). Somewhere else he describes using many single snap-on ferrites being electrically equal to just one toroidal ferrite with multiple Turns. MORE interestingly, more Turns shifts the peak impedance substantially lower in frequency. So, using the graphs he supplies, one can target a noisy frequency range to try to suppress.



I then put 6 of the TDK ferrites on the VHF input to the AirSpy HF+. Some FM grunge was reduced and was thankful for that. The rest of the background noise truly seems to be coming from the outside picked up by the amplified antenna.

UHF TV Quality

On a whim, I put the balance of the TDK ferrites on the FM/TV splitter input cable, 10 in all. The FM reception did not improve but the Over The Air UHF TV reception Quality improved noticeably. My weakest TV station now has a stable Signal level and the Quality is pegged at 100%. This is a nice surprise since it means that now all local TV stations on UHF will come in cleanly without dropouts and I can view all digital subchannels. I was even able to rescan and added two more low-power stations never seen before. □



AC Power Strips

A couple of my AC Power Strips were noisy (found by turning them on an off and watching the SDR waterfall). I used Jim Brown's graphs to create custom RF Chokes using stacked T-240 toroids, Types 31, 43, and 52. The AC cable was able to fit through a few times and that reduced some of the noise. A better way would be to create a custom AC cable with many more turns, then add the AC Plug after all the Turns are assembled through the toroids. If one is lazy with no need to make a new Plug, get a Monster T400 Type 31 – https://www.kf7p.com/KF7P/Ferrite_chokes.html.



Something to work on in the future for just such a custom cable is to deal with fish tank and grow lights. I have common LED lights hanging over a number of fish tanks and some grow lights over an indoor plant box and can hear this noise on upper shortwave and higher radio bands. For instance, why do some LED lights generate RFI and how to know before buying (I am using BR30 spot bulbs from name brands)? Also, there is a new kind of LED “filament” light out now that uses much smaller LED's on both sides of an aluminum strip, greatly reducing electromagnetic noise output (or do they??). More questions than answers.

Radios are quieter now. Those pesky grow lights are still a problem as well as the upstairs neighbor's lights which seem to be on a timer, making reception noisy again after 5pm, but at least I can now HEAR potential contacts instead of giving up on them! 73's.

Ham Bootcamp

May 13th

The Nashua Area Radio Society will be holding an online Ham Bootcamp on Saturday May 13th from 10:00 am to 6:00 pm Eastern Time.

Ham Bootcamp is a program to help new, inactive, and prospective hams gain the skills and information that they need to Get on The Air. It is open to any interested Ham or Prospective Ham in the US and Canada and there is no charge to attendees.

The morning session is geared toward operating on the VHF/UHF bands:

- · Putting together a Station for Repeaters - How to pick an HT or Mobile Radio and an Antenna
- · Radio Programming Tutorial
- · Making Contacts and Joining a Repeater Net
- · Getting Started with Amateur Radio Satellites
- · Getting started with Fox Hunting

The afternoon session is geared toward operating on the HF Bands:

- · Putting together an HF Station for SSB, CW, and Digital
 - · Picking and putting up an HF Antenna, Feedlines, and Grounds
 - · Operating on the HF bands using SSB Voice
 - · Getting started with WSJT-X and FT8 Digital
- There will also be breakout sessions where attendee can choose one of the following topics:
- · Learning CW
 - · Intro to EmComm
 - · Finding DX, Logging and QSLing
 - · Portable Operating



... and more! Registration is now open for the May 13th session. You can get more information about Ham Bootcamp, including a link to register at n1fd.org/bootcamp If you have any questions, you can contact us at bootcamp@n1fd.org. Registration is required to receive the link to the web conference.





If You Have Anything
For Sale
To Trade
Looking For/Or
To Loan
Advertise Here



To advertise email: NEWSLETTER@FRRL.ORG

For Sale: Hammurland HQ-145 general coverage receiver. The receiver has been restored by a retired Motorola engineer. Manual included. Asking \$275 or best offer

Contact Dean at: deankb73@aol.com



Golden Rules
of Borrowing

- Return it Quickly
- Return It In Great Condition
- Break it - Replace it
- Return the Favor



Technician/General Classes:

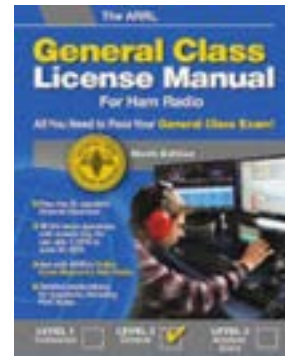


Technician Class

**Wednesday Evenings
6:30 P.M. to 9:30 P.M.**

**Start:
End:**

**Location: Zoom Meeting
[Link to be distributed prior]**



General Classes:

**Thursday Evenings
6:30 P.M. to 9:30 P.M.**

**Start:
End:**

**Location: Zoom Meeting
[Link to be distributed prior]**

**Fall 2023
date TBD**

The Fox River Radio League (FRRL) presents regular training classes focused toward new Amateurs interested in gaining their Technician class license or upgrading to the General and Extra class licenses.

These are free courses where you will learn everything you need to receive or upgrade to the appropriate FCC radio license.

The textbook for the class will be the official ARRL License Manual. Books are available for purchase via the club at a discounted rate by emailing [education \[at\] frrl.org](mailto:education[at]frrl.org).

Classes are instructor-led, and you can expect engaging conversations to ensue around the topics of discussion.

In addition to our regularly scheduled bi-monthly testing we will be scheduling a dedicated VE session after discussing best availability with the class participants. For more information on VE sessions, please see [VE Test Sessions](#).

**We are in need of
Instructors**

If you are willing to teach a section or two contact education@frrl.org

**Please Note that classes are 9 weeks long..
You can contact Dennis Barfus at:
W9HI@arrl.net
if you have any questions**



VE Testing

The FRRL, in conjunction with the ARRL VEC, sponsors regular amateur examinations the third Thursday of every March, April, May and June. Ad-hoc sessions are planned during major events and will be added to the schedule here as well.

Upcoming Testing Schedule:

April 13, 2023

May 11, 2023

Testing Location:

Geneva Lutheran Church

301 S 3rd St,

Geneva, IL 60134



No Walk-ins. All events subject to COVID-19 venue availability and restrictions.

Please pre-register by [emailing](#) or calling Dan Harmon 630-272-1768

Please also be sure to bring:

- Photo identification
- Your FCC generated FCC Registration Number (FRN).
- The fee of \$15.00. (The FRRL receives no portion of this fee.)
- If upgrading bring your original FCC HAM Radio License (or the documentation you received) and a photocopy of your license.



If you have questions about the testing program, please email the Chairman at: ve@frrl.org

Illinois Traffic Net



You can also participate in one (or all) of the Illinois Traffic Nets. Everyone is welcome with or without traffic. The nets are the North Central Phone Net, Daily (M-F) at 7 a.m. local time, on 3912 kHz LSB; the Illinois Phone Net, Monday – Friday at 4:45 p.m. local time, on 3857 kHz LSB and on Sunday at 8 a.m. on 3940 kHz; and the Illinois Sideband Net, Daily at 6 p.m. local time, on 3905 kHz LSB.





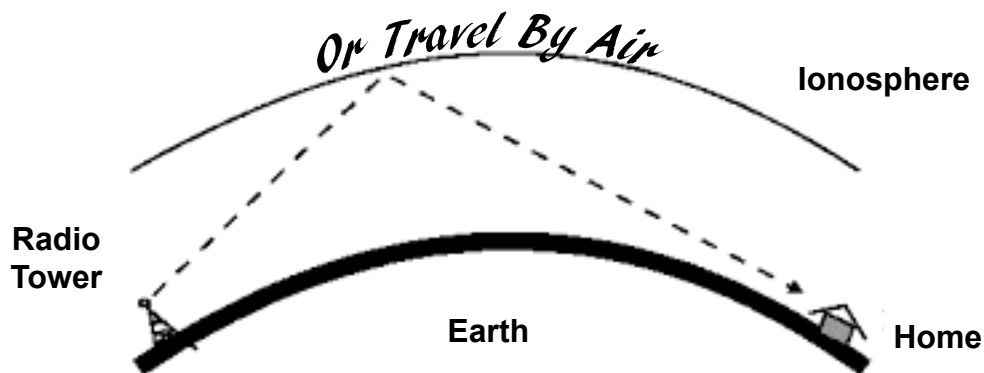
May 7 | [Warminster Amateur Radio Club Hamfest](#), hosting the ARRL Eastern Pennsylvania Section Convention, Bristol, Pennsylvania



May 13 | [ARRL Nebraska State Convention](#), Lincoln, Nebraska



May 19 - 21 | [Dayton Hamvention](#), hosting the ARRL Great Lakes Division Convention, Xenia, Ohio



Annual Armed Forces Day Crossband Test

The US Department of Defense (DoD) will host this year's Armed Forces Day (AFD) Crossband Test on May 13, 2023. This annual event is open to all licensed amateur radio operators and will not impact any public or private communications. For more than 50 years, military and amateur stations have taken part in this event.

The AFD Crossband Test is a unique opportunity to test two-way communications between military communicators and radio stations in the Amateur Radio Service (ARS), as authorized in 47 CFR 97.111. These tests provide opportunities and challenges for radio operators to demonstrate individual technical skills in a tightly controlled exercise scenario.

Military stations will transmit on selected frequencies and will announce the specific ARS frequencies monitored. All of the times are Zulu (Z), and all frequencies are Upper Side Band (USB) unless otherwise noted. The frequencies used for the test will not stray outside the confines of the exercise.

A complete list of frequencies, time periods, QSL cards, and other information can be found at [DoD MARS - Armed Forces Day](#).

AFD is a time of honor. It will be celebrated on Saturday, May 20, 2023. The first AFD was celebrated with parades, open houses, receptions, and air shows. Today, many events and activities take place and may include multi-service military displays in areas open to the public, various educational activities that teach children about the armed forces, and large parades with local celebrations.

The longest running AFD parade in the United States is held in Chattanooga, Tennessee. Certain types of music will be played at AFD 2023 events to show respect to those in the armed forces who died for their country.





The DeKalb Hamfest



Sponsored by the Kishwaukee Amateur Radio Club
 Sunday...May 7, 2023...8am to 1:00 pm
 Vendor/Tailgate Setup—Saturday 1 PM to 9 PM
 and Sunday 6 AM to 8 AM via Back Gate
 \$8.00 Advance Ticket (Double-Stub—See Below)
 \$10.00 Admission at the gate (Single Stub).

Overnight Camping on Fairgrounds \$20 per night —Includes Electric and Sewer

Rain or Shine
2 Large Buildings
3 Cash Prizes
Prize Drawings Every Half Hour

Free Outside Tailgating
No VE Testing
Chairs not furnished

Food Vendor: Hyvee
Fairground Regulations Prohibit Vehicles in buildings



Always the First Sunday in May. May 7, 2023
Sandwich Fairgrounds, Sandwich, IL
(Just North of RT. 34 Intersection of SUYDAM and GLETTY Roads)
TALK-IN: KARC Repeater 146.730 pl=100 (-) or 146.52 Simplex
****** PLEASE USE MAIN GATE ******

????????????? Questions ??????????????
 Phone: Bob Yurs—W9ICU—Hamfest Chairman at 815-757-3219
 Or e-mail w9icu@arrl.net
 KARC Hamfest Webpage / Hotel Info: www.karc-club.org

Return to: KARC, PO Box 371, DeKalb, IL 60115
 Deadline: April 20, 2023 **MUST INCLUDE SASE FOR ADVANCE TICKET SALES**

Advance Tickets will not be for sale on site
 ADVANCE TICKETS @ \$8 each (Dual Stub)
 INSIDE TABLES @ \$10 each (FREE TAILGATING)
 Total...Please make checks payable to KARC

Telephone Number _____ e-mail address _____
 Call Sign _____



Hamvention 2023 Getting Ready

Dayton Hamvention® 2023, scheduled for May 19 - 21, is just six weeks away and preparations are moving forward for the big event.



Tickets are now available online and by mail order. They can be purchased at <https://hamvention.org/purchase-tickets>.

Hamvention, which is amateur radio's largest annual convention, is held at the Greene County Fairgrounds and Expo Center in Xenia, Ohio.

ARRL is readying its large participation at Hamvention. ARRL's exhibit area will be located in Building 2 and will include program representatives and volunteers supporting over a dozen booths and activities.

With nearly 700 volunteers, this year's Hamvention will boast more than 500 indoor exhibits and more than 2,500 outdoor exhibits. The event showcases the latest in amateur radio equipment, technology, and computer software and hardware, along with hard-to-find radio and computer accessories and equipment. For the latest information about Hamvention 2023, visit their website.

Voice of America Museum of Broadcasting

The National Voice of America Museum of Broadcasting, in conjunction with the West Chester Amateur Radio Association, announced their expanded hours during the 2023 Dayton Hamvention®.



The museum will be open Thursday, May 18, from 1:00 PM to 9:00 PM; Friday, May 19, from 1:00 PM to 9:00 PM; Saturday, May 20, from 12:00 PM to 9:00 PM, and Sunday, May 21, from 12:00 PM to 5:00 PM.

For further information, visit voamuseum.org or wc8voa.org. You can also find the museum on Facebook or call 513-777-0027. The museum's regular hours are Saturdays and Sundays from 1:00 PM to 4:00 PM, and it is located at 8070 Tylersville Road, West Chester, Ohio.

All Operators Net



“EVERY” Sunday for “EVERY” Operator

New or experienced...ALL are Welcome

1900 hrs (7pm) local time

147.21 103.5PL +600

On the FOX VHF Repeater



Feel free to share your thoughts, experiences, recipes and hobbies etc.

“It does not have to be about radio to talk on the radio!”

For more info about the NET contact:

Mike K9FE 630-327-5164 K9FE@yahoo.com

Calling all newly licensed hams.

Remember the old Radio Shack slogan “You’ve got questions, We’ve got answers”?

Well, I know new hams have a lot of questions and those of us that have been hams for a while have the answers.

I will be adding a new segment to our Tuesday Night Net called “ask Elmer” If you have a question about ham radio, ask it on the air and someone will give you the answer over the air.

Now, for this to work properly we need lots of questions and lots of people who know the answers.

Don’t be afraid to ask a simple or “stupid” question, we all had them when we started. Would you like to be an “Elmer” without getting out of your chair? Well, this is the opportunity you have been waiting for.

I want to invite all the club members to check-in to the net and either ask a question or provide an answer.

You never know what you might learn or what fun you will have if you don’t join the net. For those who may need a reminder, The net meets on our club 2-meter repeater (147.21 MHz, 103.5 Hz PL tone) Every Tuesday at 7:30PM except on our meeting nights.

Hope to hear you on the net soon.

73, Curt W9YNP



Page18



T5C05

What is the unit of frequency?

- A. Hertz
- B. Henry
- C. Farad
- D. Tesla

T5C06

What is the abbreviation that refers to radio frequency signals of all types?

- A. AF
- B. HF
- C. RF
- D. VHF



T1B09

Why should you not set your transmit frequency to be exactly at the edge of an amateur band or sub-band?

- A. To allow for calibration error in the transmitter frequency display
- B. So that modulation sidebands do not extend beyond the band edge
- C. To allow for transmitter frequency drift
- D. All of these choices are correct

T2B05

What determines the amount of deviation of an FM signal?

- A. Both the frequency and amplitude of the modulating signal
- B. The frequency of the modulating signal
- C. The amplitude of the modulating signal
- D. The relative phase of the modulating signal and the carrier

Answers on
Last Page



The Radio Amateur's Code

The Radio Amateur is...

CONSIDERATE... He never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL... He offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his country through which Amateur Radio in his country is represented nationally and internationally.

PROGRESSIVE... He keeps his station up to date. It is well build and efficient. His operating practice is above reproach.

FRIENDLY... He operates slowly and patiently when requested; offers friendly advice and counsel to the beginner; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

BALANCED... Radio is a hobby, never interfering with duties owed to family, job, school or community.

PATRIOTIC... His station and skills are always ready for service to country and community

...adapted from the original Amateur's Code, Written by Paul M Segal, W9EEA, in 1928

© John Devoldere 0N4UN and Mark Demeuleneere 0N4WW

Taken from: [Ethics and Operating Procedures for the Radio Amateur.](#)

BRING BACK "RADIO IN THE PARK"

Harry Jones K9DXA" started "Radio in the Park" years ago. His idea was take your radio out to a local park and set it up and operate. Since we can't have any thing big, just take your rig, wear your mask, set up an antenna, radio and have fun.



The idea of this is bring ham radio to the public. Make a small sign with your name, call sign, and please add FRRL also. Would like some photo of your operation. May get someone to take a picture of you operating. Will try to get your picture into the news letter. Please send a short report to me at my FRRL address. Director3@frrl.org

Dave K9wdb



There are plenty of volunteer organizations that could use your radio skills.



Consider volunteering
you can make
the difference !!



American Red Cross



The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

ARES

Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES.

ARES Resources

- [Download the ARES Manual \[PDF\]](#)
- [ARES Field Resources Manual \[PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Fillable PDF\]](#)
- [Emergency Communications Training](#)

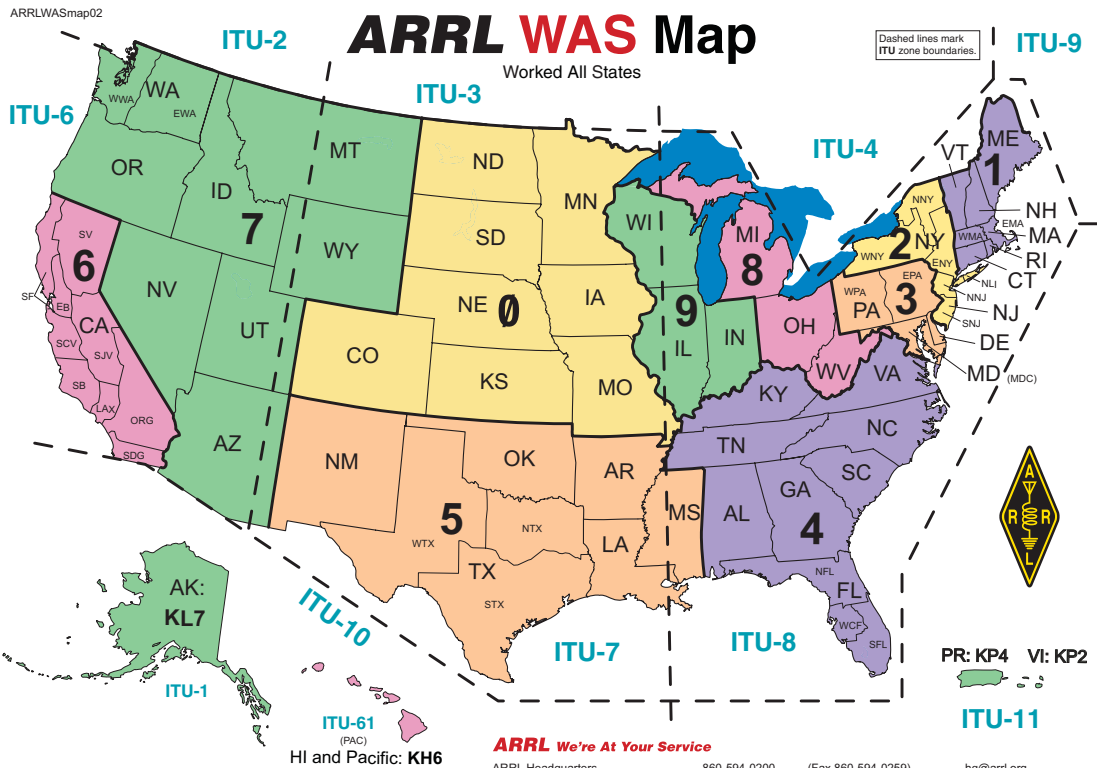
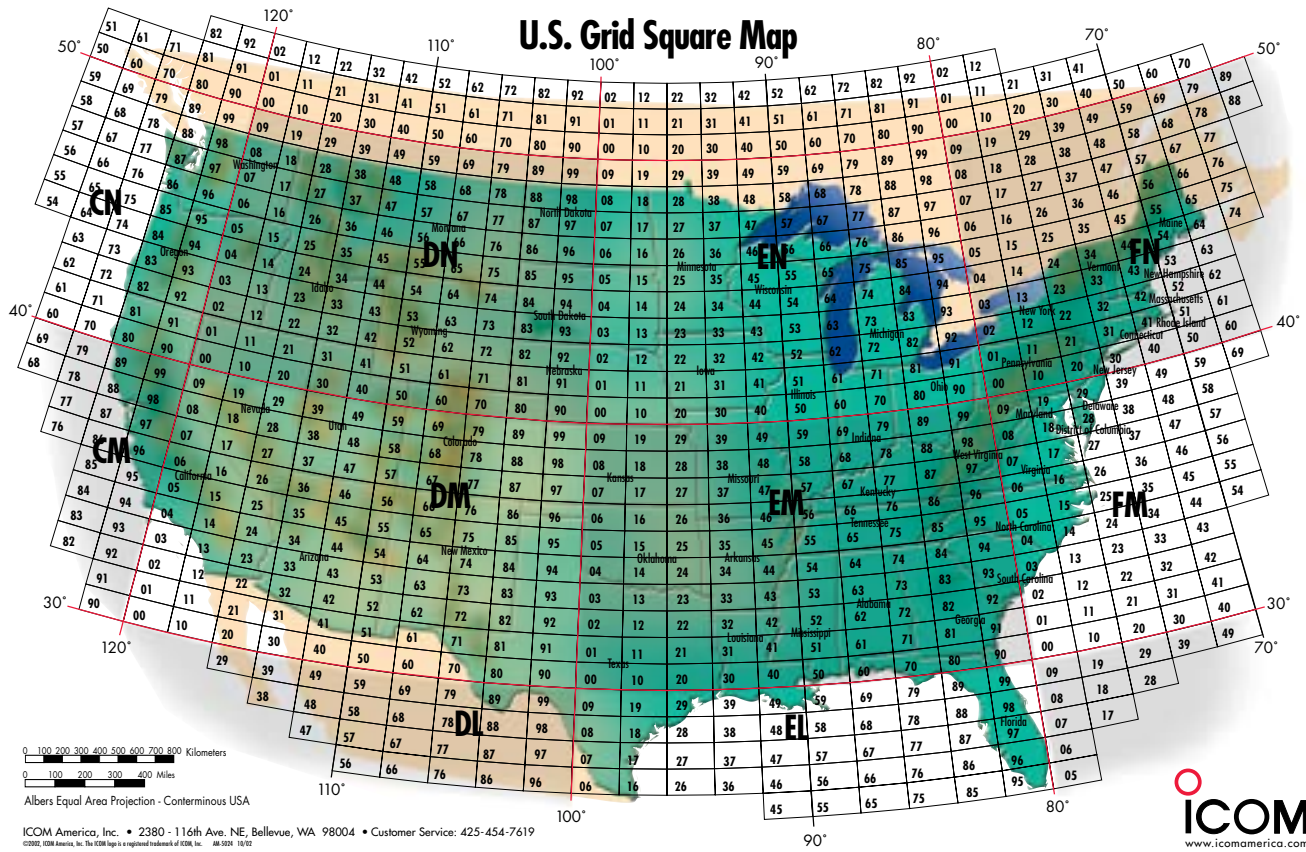


Kane County ARES

Information

[Click Here](#)





ARRL The national association for
AMATEUR RADIO

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ARRL We're At Your Service

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860-594-0200 (Fax 860-594-0259)
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 Toll-Free 1-800-326-3942 (860-594-0355)
 860-594-0300
 www.arrl.org

hq@arrl.org
 orders@arrl.org
 membership@arrl.org
 newham@arrl.org
 vec@arrl.org



US Amateur Radio Bands

Operator license classes: **E** = Amateur Extra **A** = Advanced **G** = General **T** = Technician **N** = Novice
 CW operation is permitted throughout all amateur bands. Except as noted, all frequencies are in megahertz (MHz).

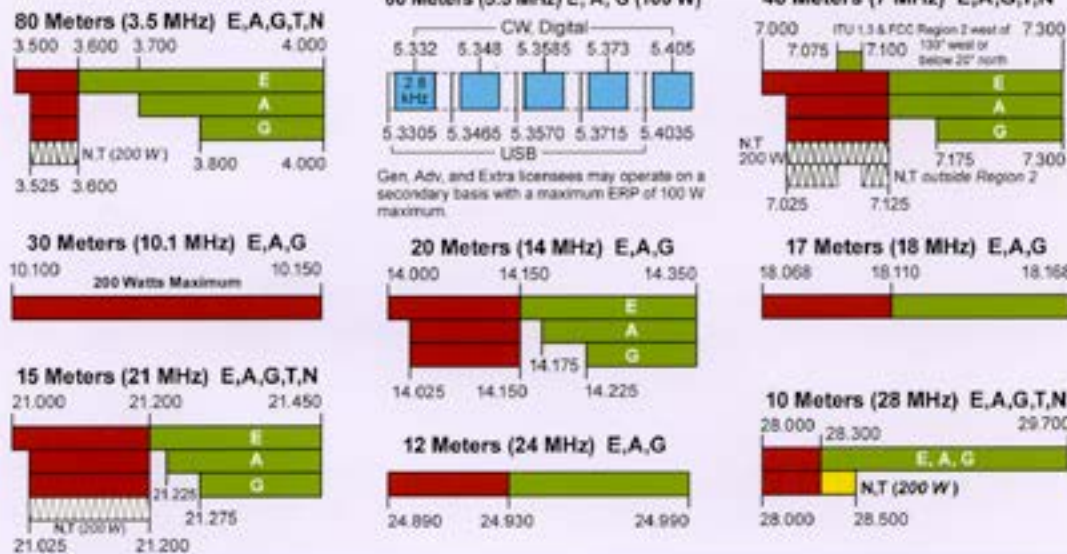
■ = RTTY, data, phone, image
 ■ = USB phone, RTTY, data and CW
 ■ = RTTY and data
 ■ = phone and image
■ = SSB phone
 [CW symbol] = CW only

LF – Low Frequency band



MF – Medium Frequency bands

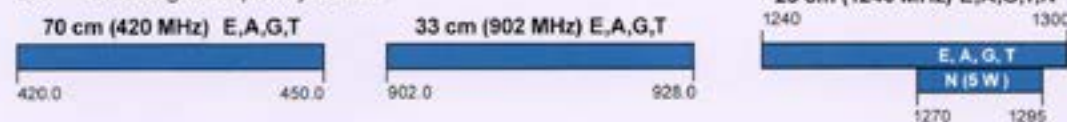
HF – High Frequency bands



VHF – Very High Frequency bands



UHF – Ultra High Frequency bands



SHF&EHF – Super and Extremely High Frequency bands

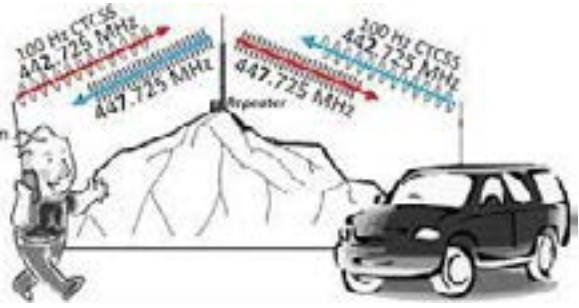
All licensees except Novices are authorized all modes on the following frequencies:
 2300-2310 MHz 3300-3500 MHz 50.0-50.5 GHz 47.0-47.2 GHz 122.25-123.0 GHz 241-250 GHz
 2390-2450 MHz 5650-5925 MHz 24.0-24.25 GHz 76.0-81.0 GHz 134-141 GHz All above 275 GHz

See www.arrl.org/band-plan for detailed band plans.
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 OTAbands rev. 1-22-20

FRRL

70 cm Band
5 MHz Negative
Offset Example

447.725 MHz: Your Listen
(Repeater Transmit)
442.725 MHz: Your Talk
(Repeater Receive)



**AND OTHER
LOCAL REPEATERS**

FRRL Repeaters- W9CEQ

147.225 MHz - Plano
Mode: **Auto C4FM / Fusion, FM, Wires X**
+600 KHz Offset, 100.0 Access Tone

147.21 MHz - Elburn
Mode: FM (Echolink Available)W
+600 KHz Offset, 103.5 Access Tone

444.300 MHz - Elburn
Mode: FM
+5 MHz Offset, 114.8 Access Tone

223.86 Mhz - Aurora
Mode FM
-1.6 Mhz Offset, 110.9 access Tone

442.10625 MHz (B) - Elburn
Mode: D-Star
+5 MHz Offset



**Other Area Repeaters
W9XA**

53.910 - Batavia
-1.0 MHz offset PL 114.8 Hz

224.4 MHz - Batavia
-1.6 MHz offset PL 103.5 Hz

443.64375 MHz - Elburn
+5 MHz offset DMR 311759

443.65625 MHz - Plano
+5 MHz offset DMR 311760

1292.00 MHz - Batavia
-20 KHz 114.8 Access Tone

927.625 - Batavia
+25 MHz offset PL 114.8 Hz

W9DWP

145.270 MHz - Elburn
-600 KHz offset PL 107.2
ARES APCO P25 NAC 293

NIARC W9ZGP

147.06 MHz - Batavia
Mode FM +600 kHz offset PL 103.5.

Auto C4FM / Fusion, FM, Wires X Repeaters

K9IIK/R

442.275 MHz - Schaumburg
Mode: **Auto C4FM / Fusion, FM, Wires X**
+5 MHz, 114.8 Access Tone

W9CHI

444.600 MHz - Channahon
Mode: **Auto C4FM / Fusion, FM, Wires X 30024**
+5 MHz, 136.5 Access Tone

KD9FA

443.600 MHz - Oswego
Mode: **Auto C4FM / Fusion, FM, Wires X**
+5 MHz, 107.2 Access Tone

KC9OEM

Primary Kane County SKYWARN / ARES

145.470 MHz -St Charles
Mode: FM
-600 Offset, 103.5 KHz Access Tone



444.525 MHz -St Charles
Mode: **Auto C4FM / Fusion, FM, Wires X**
+5 MHz Offset, Access WWTone114.8



C 908Z
T1B09 D
T1506 C
A 905A