



ARCOVER

MAY 2024



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

1924  2024

Who We Are

President:
Kermit Carlson W9XA

Vice President:
Dan Nolan WA9FRY

Secretary:
Art Shuter NN9I

Treasurer:
Dan Harmon WA9YKK

Director :1
Will Sperling W9WSS

Director: 2
Pat Brod K9ANL
Director 3

Paul Mitchell KC9SEB

Director 4
John Greusel KC9OJV

Past President:
Terry Todd W9AUV

Programs:
Paul Mitchell KC9SEB

Education / VE:
Dan Nolan WA9FRY

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:
Curt Sauer, W9YNP

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

Mailing Address:
P. O Box 673
Batavia, IL 60510-0673
Email: info@frrl.org
Website: <http://www.frrl.org>





From
the desk
of....

FRRL President



Kermit Carlson

The Fox River Radio League meeting is Tuesday May 14th. Following a tradition that is now one hundred years old, radio amateurs from across the area will gather as a Club to meet, exchange ideas and discuss this wonderful hobby that we all share and enjoy,

This month's program will cover a newer form of communications that has taken hold in the experimenter's portion of our hobby. Mesh networking and spread spectrum on UHF is far easier and less expensive than it sounds..Paul KC9SEB will present on the current state of development and the amazing results that are being achieved with inexpensive equipment.

We can expect visitors to our meeting who are participating in these developments. If you see someone you don't recognize at the meeting, please take time to say "Hello" !

The FRRL Field Day plans are almost complete. If you have not already reserved the date for the 2024 FRRL Field Day, please plan to come, operate, and participate. Besides being an all-out radio operating event our Field Day is a great social event. Please plan to attend even if you do not plan to operate. For questions or information please contact Patrick K9ANL or Danny Nichols KD9WDW. Make the FRRL Field Day 2024 part of your plans.

The FRRL Logo is the symbol of our club. Have you ever wondered where it came from and how it was developed ? This Month's ARC-OVER has the answer !

Look for you on the air !

73, Kermit W9XA



ARC OVER

FOX RIVER RADIO LEAGUE MEMBERSHIP MEETING MINUTES

April 9, 2024

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

The April 9, 2024 meeting of the Fox River Radio League was conducted at Bethany Lutheran Church in Batavia, IL. There were 40 members in attendance and 4 on Zoom.

The meeting was called to order at 1930 CST by the president Kermit Carlson W9XA.

Board Members and Directors Present

President: Kermit Carlson W9XA

Vice-President: Dan Nolan

Secretary: Art Shuter NN9I

Treasurer: Dan Harmon WA9YKK

Director 1: Will Sperling W9WSS

Director 2: Pat Brod K9ANL

Director 3: Paul Mitchell KC9SEB

Director 4: John Greusel KC9OJV

Past President: Terry Todd W9AUV

Minutes: Acceptance of the March 2024 membership meeting minutes as printed in the ArcOver were approved by the membership. Motion to approve: Marty N9NTM, 2nd: Denny W9HI

Treasurer's Report: Dan WA9YKK reported the bank account balances as of 4/9/24

Reports:

100th Anniversary Eve W9EVE: Members will receive an e-mail soon with invitation to registration and link to paypal for banquet. A beautiful video was shown about the 100th celebration.

Programs: Paul KC9SE talked about future programs. The program tonight will be on Chinese antennas.

June program will be on Field day.

Reports: Continued:

Field day: Pat K9ANL is still looking for a safety officer. We are also needing more volunteers to help with food. Everyone is invited to participate. You don't have to operate. A slide was shown of the set up for field day.

Public Information officer- Jerry N9JLC – Jerry has sent out information to city and county officials about Field Day.

Repeaters: Ruben K9ARN, Will W9WSS, Kermit W9XA:

Repeaters are working well. We would like more activity on the 220 band. There is a net on the 220 repeater on Wednesday nights.

VE: Denny W9HI: Denny reported that the VE test session included 5 new Techs and 1 Extra.

Database Manager: Kurt W9YNP reported we have members 5 new members this month making 150 members.

Special event station: Gary KNMMS reported that special event stations will be available to operate from June 1 to 15. If you are planning to operate please e-mail Gary at k9mms@arrl.net.

Old Business: Amendment published in the ArcOver voted on:

Proposed ByLaw:

Add: Section 3.

The fiscal year shall begin on February 1st and conclude on January 31st.

Motion Dan WA9FRY, 2nd: Dean KC9EOQ. Motion passed.

Upcoming Events: Newsletter deadline April 20th

Board meeting May 7th

Membership meeting May 14th

VE testing May 16th,

Dekalb Hamfest in Sandwich 5/5

Dayton Hamfest 5/16-19

ARRL June VHF Contest 6/8-6/10

Adjournment:

Motion to adjourn: Jim N9XP, 2nd: Denny W9HI

Meeting adjourned at 20:17 CST.

Respectfully submitted,

Art Shuter – NN9I

FRRL Secretary



2024



FOX RIVER RADIO LEAGUE

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 LOYALTY DAY 1930 FRRL 220 Net	2	3	4
5 INFORMAL ALL OPR NET 1900	6 CW NET 28.150 2000 SSB NET 28.720 2030	7 1900 FRRL BOD Meeting 1930 FRRL 2m Net	8 1930 FRRL 220 Net 223.86 - 110.9	9	10	11
12 	13 CW NET 28.150 2000 SSB NET 28.720 2030	14 1930 FRRL Membership Meeting No Net	15 No 220 Net	16	17	18
19 INFORMAL ALL OPR NET 1900	20 NEWSLETTER DEADLINE	21 1930 FRRL 2m Net	22 1930 FRRL 220 Net 223.86 - 110.9	23	24	25
26 INFORMAL ALL OPR NET 1900	27 	28 1930 FRRL 2m Net	29 1930 FRRL 220 Net 223.86 - 110.9	30	31	
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		

ARCOVER

NEWS AND INFORMATION CENTER

Local - National - International

FRRL Groups.io Group Message Board

By Curt Sauer W9YNP

The FRRL has an active mailing list group on Groups.io. Members in good standing are eligible to join the mailing group. You should receive an invite upon joining the group to the email listed in your application.

Your active club membership is required to be a member of our Groups.io group.

The group provides the following features:

Messages/Mailing List

View the calendar

Access to files including the club Bylaws and Membership Roster

Access to photos submitted by members. Great for sharing projects you're working on!



How do I join?

When your FRRL club membership is confirmed you will receive an email invite from Groups.io. The club membership form requests an email to be used by the club or members to contact you for club or ham radio related subject. If you already have a Groups.io account under a different email and wish to combine them there is a second field for that email. If it is filled in, you will get the invite in that email.

When you join, you can choose a profile you'd like to display to the group, select the email address at which you'd like to receive group messages, choose how you receive group messages, and more. You can receive messages via email or by reading the message boards within the group.

If you have questions or changes please contact the Group Administrator: [GroupAdmin \[at\] frrl.org](mailto:GroupAdmin@frrl.org).



FRRL – “Can’t Ever Quit” – Behind the Scenes – K9ANL Patrick Brod

Date: April 17, 2024

By: FRRL 100th Anniversary Committee

Re: FRRL “Behind the Scenes – Patrick Brod K9ANL”



Patrick K9ANL and Art NN9I listen to playback during a recent recording session. Art composed the theme song for the, “Can’t Ever Quit” video which will premiere September 10th. Art scored and performed the music on his electric piano while Patrick made the recordings using his digital audio workstation.

Did you happen to see the video trailer, “Can’t Ever Quit” played during the last club meeting? To make this, and the ones to come, takes several volunteers to accomplish. Art NN9I (our club’s Secretary) wrote a theme song for the video project, and Patrick K9ANL did the recording.

When asked how Patrick got started in amateur radio, he said, “During my second year at SIU Carbondale, I was introduced to the campus radio station engineer, Mike McCarthy N9EAO (sk). I was applying for a volunteer engineering position.” Patrick was already playing around with radio equipment, being a CB enthusiast, so McCarthy suggested, “You should become a ham.” Patrick accepted this advice and years later got his license.

It was during his High School years at Glenbrook South in Glenview where Patrick first got his introduction to rock music. “I was a big fan of WLUP radio, the classic rock station,” Patrick remarked. “I loved the screaming guitar stuff.”

FRRL – “Can’t Ever Quit” – Behind the Scenes – K9ANLPatrick Brod

Growing up in the early 1980’s and graduating from college before the end of the decade, Patrick went into the business world working as a Tellabs engineer. Learning how to play guitar early in his life along with an interest in audio engineering, set him up to be his current band’s “equipment guy.” He and some friends formed the “Back in Time” group where Patrick plays guitar and takes care of the PA system and the recording.

Patrick and Art got together at Art’s QTH one evening and went about recording the session. “I asked Art to just relax and enjoy the session.” After a few takes the team had accomplished their goal. The music was featured in the video trailer, and will again be used to create several video episodes of FRRL history using the “Can’t Ever Quit” title. A featured video condensing a century of club history will be played at the Centennial Celebration Banquet, September 10th.

Since Patrick is not quite busy enough with family, work, ham radio and recoding the sound track to the video, he volunteered to be our Field Day chair this year!

Want to know more about Patrick’s band, www.backintimeclassicrock.com for details.



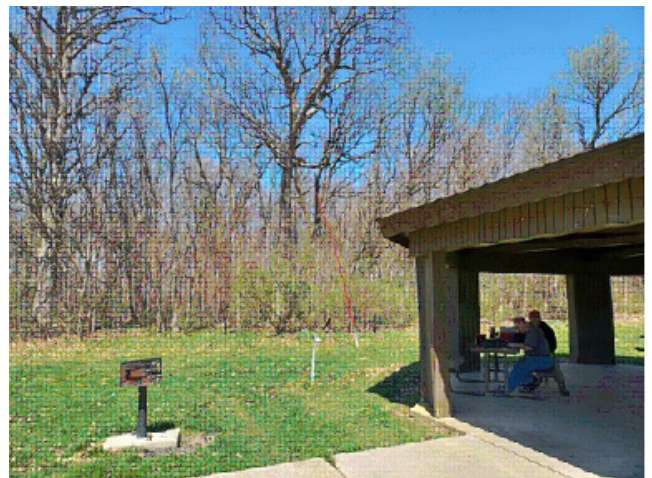
Rob adjusts his radio as Mike records. Two of his antennas are visible in the background. April 13th, 2024.

I was at Rob Potthoff N9RLP's POTA activation at Silver Springs State Park last weekend, and I took a couple photos.

Kai Veeder KD9TTV



Eric operates Rubin K9ARN's station with the antenna that is suspended by a pole. April 13th, 2024.





PUBLIC NOTICE



Federal Communications Commission
45 L Street NE
Washington, DC 20554

News Media Information 202 / 418-0500
Internet: <https://www.fcc.gov>
TTY: 1-888-835-5322

DA 24-219

Released: March 7, 2024

THE OFFICE OF MANAGING DIRECTOR ANNOUNCES IMPLEMENTATION OF ADDITIONAL SECURITY SAFEGUARDS FOR USERS OF FCC'S COMMISSION REGISTRATION SYSTEM (CORES)

To strengthen existing cybersecurity measures and safeguard user accounts, starting on March 29, 2024, users of the FCC's Commission Registration System (CORES) will be required to undergo a two-step login authentication process each time a user logs into CORES or its associated FCC User Registration System (<https://apps2.fcc.gov/fccUserReg/pages/login.htm>). All applicants and licensees are required to access CORES to pay any application or regulatory fees, manage or reset a password on an existing FRN, or request a new FRN. When accessing the system, users will be prompted to request a six-digit secondary verification code, which will be sent to the email address(es) associated with each username. The user will then need to enter the code into CORES before they can continue. This additional layer of security will further safeguard against unauthorized access, thereby enhancing the overall integrity of information contained within the CORES system and improving the security of user data.

We recommend registrants confirm they have access to their Username Account E-mail and add a secondary e-mail address, if appropriate. Please consult the article [Updating Your Username Account](#) for detailed instructions.

Going forward, the FCC is in the process of adopting new technology to meet the "high confidence" Authenticator Assurance Level standard for identity proofing in order for a user to create or access an account within the CORES system.

For inquiries or assistance regarding the implementation of multi-factor authentication on CORES, please submit a help request at <https://www.fcc.gov/wtbhelp> or call 877-480-3201 (Mon.-Fri. 8 a.m.-6 p.m. ET). For further information, please contact Warren Firschein (warren.firschein@fcc.gov), Counsel, Office of Managing Director, (202) 418-2653.

- FCC -



To all FRRL members,

I'd like to announce that FRRL has begun planning 2024 Field Day and Danny and I will be scheduling regular meetings (regularity TBD).

We are looking for people to volunteer full-time or part time for 2024 Field Day. FRRL Field Day is June 22nd and 23rd held at LeRoy Oaks Forest Preserve in Saint Charles, IL. Follow up emails with location maps and times to be provided in May and June.

If you are interested in any of the positions listed below please contact me and Danny Nichols via email:

* Patrick Brod (K9ANL) – email: kb9anl@yahoo.com, Phone: 630-853-5190

* Danny Nichols (KD9WDW) – email: tdjack97@outlook.com



The following positions available are:

* **Band Captains** - CW & SSB operators. There will be seven (7) different band stations available to each have a captain to lead and organize their station. Note, only have three or four band stations of the seven available. A Band Captain is a dedicated leader to contribute most of the communications equipment and maintain their assigned station operations for the duration of Field Day (e.g., Saturday and Sunday).

* **GOTA Captain & Public Information Table** – Get On The Air (GOTA) station is where you'll meet visitors and explain Amateur Radio and Field Day with hands-on radio communications.

* **W1AW Bulletin** - Assign a CW resource to copy W1AW bulletin for extra points. Same resource for Message Handling?

* **Food Coordinator** – Oversee all full-time & part-time Field Day participants have water, pop, and snacks as well as organize main meals. FRRL has already purchased catering for main meals (e.g., Saturday dinner and Sunday breakfast). Person(s) should ensure other food (e.g., Friday night staging and Saturday lunch) or drinks have been arranged.

* **Safety Officer** – Ensure overall safety of Field Day attendees full-time, part-time, or visitors.

* **Promotions & Communicator Director** – Work with FRRL Public Relations to promote FRRL Field Day activation to the general public via active, recognized social media platforms (e.g., Facebook, Twitter, Instagram, etc.). Additionally, proactively seek out elected government officials to visit FRRL's Field Day event.

* **Educational Officer** - Provides an Amateur radio education activity for visitors. This person would also be responsible for youth participation at the GOTA station if we happen to have some visit. Last year we had a whole Boy Scout troop earn their Radio Merit Badges.

* **Event Volunteers** - Part time members to help perform miscellaneous tasks and participate at various radio stations if desired. We always need help setting up and tearing down antennas, tents, cabling, etc.

Thank you,

Patrick - K9ANL, 2024 Field Day Chairman

Danny Nichols - KD9WDW, 2024 Field Day Chairman

**FIELD
Day
2024**





WIRES-X IS BACK



WIRES-X is up and running on the 147.225 repeater.

The bugs have been squashed and the system is working as expected.

The node name was changed from W9CEQ-ND to W9CEQ-RPT so you may lose your saved settings.

Please give it a try - we think you will be pleased.

73,
Curt



If you have any memorabilia about the club please contact:

Chair [Eve Schneider W9EVE](#)

**PAY OR RENEW
MEMBERSHIP DUES
OR
REPEATER DONATION
[ON LINE HERE](#)**

Membership rates are as follows:

REG: Regular dues are \$30.00 per year,

FAM: Family dues are \$40.00 per year (family members at the same address)

SRC: Senior Citizen dues (65 and older) are \$25.00 per year,

STU: Student (Full time, under 22) dues are \$25.00 per year.

MIL: Active Military dues are \$25.00 per year.

You can also help support the FRRL Repeaters by making a \$10.00 (or more!) annual contribution.



Fox River Radio League 100th Anniversary Special Radio Operation Event



Using club call W9CEQ The Fox River Radio League is celebrating its 100-year anniversary in 2024. As part of the celebration, the club call sign W9CEQ will be heavily activated for a two-week period.

Time Period: June 1 (0001 UTC) through June 15 (2359 UTC), 2024

Modes: CW, Phone, Digital

Frequency Bands: HF, 1.8 to 29.7 MHz ; VHF: 50-54 MHz

The announcement of this operation as shown on the ARRL Special Events website lists: 7.035, 14.035, 7.260, and 14.260 MHz as suggested starting frequencies.

The FRRL club call W9CEQ will be used by many members of the club while operating from their home stations. The above-listed frequencies are just reference starting points. The club members operating using W9CEQ will be encouraged to use a wide variety of frequency bands and multiple modes. The range of frequencies was chosen with the hope of encouraging amateur radio operators with various classes of licenses to participate and work W9CEQ.

To locate W9CEQ on the air, check some of the commonly-used DX cluster spotting websites. W9CEQ operators are encouraged to self-spot their radio operations to assist other stations seeking to contact the club call. To help with the overall activity, if you find and work this station, please also consider spotting them on one or more of the commonly-used "clusters." When posting, use a format such as W9CEQ FRRL 100 YRS

Contacting W9CEQ multiple times is encouraged – using different bands and/or modes. Please keep a log of all your contacts with the club call. Special, commemorative QSL cards and certificates will be made available for everyone contacting W9CEQ during June 1-15.

QSL / Certificate Request Procedures:

For all requests, Include a copy of your log data for all of your QSO/s with W9CEQ.
(Name, address, call sign, date, time (UTC, please), band / frequency, mode, and signal report)

QSL: (Everyone) Send SASE to W9CEQ FRRL, P.O. Box 673, Batavia, IL 60510

CERTIFICATE:

- (A) For FRRL members contacting W9CEQ:
Submit your request to W9CEQ FRRL, P.O.Box 673, Batavia, IL 60510.
Hopefully, you can take delivery of your certificate at a regular FRRL club meeting.
If you prefer to have your certificate mailed, please include an SASE with your request.
For a non-folded certificate, include a 9x12 inch SASE.
For a folded certificate, include a number 10 business-sized SASE.
- (B) For non FRRL members contacting W9CEQ:
Submit your request to W9CEQ FRRL, P.O.Box 673, Batavia, IL 60510.
Include \$5 to cover the cost of materials and postage.

FRRL Members who would like to operate as W9CEQ during the special event:

Please contact K9MMS, Gary Hornbuckle, via K9MMS@arrl.net and provide the following information:

1. Your call sign and first and last name.
2. Your estimated level of participation:
Number of days of operation and goal for quantity of QSOs to make
Your preferred frequency bands and modes of operation for the event
3. The method of logging that you plan to use. Computer logging is preferred.
A logging program that can export a Cabrillo or ADIF log file is preferred.
If you are not set up for, or familiar with, computer logging, you can use paper logging.
I would like for any manually-generated paper logs to be limited to less than 50 QSOs.
If you plan to use paper logging, I have prepared log forms that you can request via email.
All times of logged QSOs must be in UTC.



PLEASE NOTE:

FRRL members should not operate on 6 meters as W9CEQ during the ARRL June VHF contest that is scheduled to take place from 1800 June 8 Saturday to 0259 June 10 Monday.

Again, all requests to serve as a W9CEQ Special Event operator should be submitted to K9MMS, Gary Hornbuckle, via email using K9MMS@arrl.net All such requests will receive a reply which includes detailed written instructions for W9CEQ Centennial event operators. If a manual logging form is requested, it will be included in the reply.

It is planned to have an operator, sign-up, calendar facility made available on the FRRL website in the next few weeks. That would enable W9CEQ operator volunteers to select and reserve date/time slots, which could be publicly viewable.

All W9CEQ Special Event operators should submit their logs to K9MMS via email no later than June 30, 2024. This will greatly help with the collection, organization, and review of log data and with the preparation of 100th Anniversary QSLs and certificates.

W9CEQ special event operators who operate from their home stations, using the club call sign, and make over 100 QSOs may possibly receive a special award in addition to a commemorative FRRL centennial certificate. The possible implementation of this is currently under consideration.

Summary notices of this event are to be posted on the FRRL website as well as the W9CEQ page on QRZ.com call sign database.

All licensed amateur radio operators who make one or more QSOs with W9CEQ during June 1-15 will be eligible to receive a commemorative FRRL Centennial certificate. Obviously, this includes FRRL members as well as any non-club members. The plan is to have two versions of certificates: (1) Anyone contacting W9CEQ, and (2) FRRL members who use their station to operate as W9CEQ.

After the W9CEQ operators logs have been submitted and reviewed, and after a significant number of requests for QSL cards and/or certificates have been received, there may be a call

for FRRL members to volunteer and assist with the processing of QSLs and certificates and to prepare them for mailing.

For questions or more Information, contact K9MMS Gary Hornbuckle via K9MMS@arrl.net

73,
Gary . K9MMS



FRRL Logo "100 Years in the Making"

Date: April 18, 2024

By: The FRRL 100th Anniversary Committee

Re: "FRRL Logo – 100 years in the Making"

You might have a club shirt? Most likely a name badge. You read the Arc Over and browse information from our web site. And more recently, you've received an invitation to attend the FRRL Centennial Celebration on September 10th. All of these forms of communication have our club logo in use. It's a logo to be proud of. Let's take a closer look at the design and discover how it has evolved.



Figure 1: 1929 "The Original Design"

The club archives revealed a very rare piece of 1929 club stationery that has our first logo design printed on it. The club President, W. W. Bauerle W9ALZ, and Secretary, J. A. Stoos W9DTC are corresponding with their fellow club members by sending out a three-page letter. The document describes "the program for the upcoming Ham-fest; final arrangements in regards to the wave meter contest; and a report of the QRM committee." It appears the text of the stationery was printed using letterpress, and the logo was printed using an engraving. Under great magnification the consistency of the letter "R" in the logo varies. Plus, the "lightning bolts" differ in length. We believe this design was mostly hand-drawn using artist tools of the time.

The 1929 letter to club members also noted, "Our new stationery was paid for by sales to members for personal use." There is a P.S. attached describing the upcoming ham-fest. "This is our second annual affair – the first had an attendance of 34. We have made arrangements with the Aurora-Leland Hotel which is the largest in Aurora." This and more details regarding early club events will be the subject of additional articles here in the Arc Over. You'll be interested to know however, the banquet at the Leland cost members \$3.00. They kicked off the gathering with a "smoker" in the Sky Room.

The 1930 logo may have been a "single use design." It was printed on a HAM-FEST button. An announcement promoting the fest said this was the third annual event. The date of the ham-fest was June 21st and 22nd. "A real 'get-together' is planned and a good time is promised to all who are there." The location of the event was Philips Park, Aurora. Records indicate the first and second affair was also held at the park. Saturday was the ham-fest with the "smoker" held in the evening in the Sky Room. Those who stayed the second day of the event were invited to attend the banquet, also held in the Sky Room at the Leland.



Figure 2: 1930 "Hamfest Button"



Figure 3: 1945 "Convention Ticket"

The logo did not change much in 1945, but the outer ring and text is now gone. This example was printed on a ticket to the, "Eighth Annual Amateur Convention" held August 4th at Exposition Park in Aurora. A wrap-up of the event was printed in the October, 1935 issue of QST. Found in the "With the Affiliated Clubs" section, the article said, "Three hundred and eighty amateurs, their YF's and YL's, gathered at Exposition Park, Aurora, Ill., on August 4th to participate in the Eighth Annual Convention of the Fox River Radio League. The highlights of the program were a talk by Central Division Director E. A. Roberts, W8HC, and the banquet, which was followed by "amateur night" entertainment, the prize drawing and grand finale – dancing."

FRRL Logo "100 Years in the Making"

"To the following club officers and committee members is due the credit for the success of this affair: W9CFQ, W9BLT, W9NE, W9EDW, W9JIC, W9ALZ, W9IUX, W9RNV, W9EBA, W9RMC." The 100th Anniversary Committee has identified each of these individuals and will be featured in future reports. However, you'll now recognize President Bauerle W9ALZ, and probably already know of Oley Olson W9NE.

The January 1993 edition of the Arc Over, encouraged members to "color" the logo in preparation for a patch to be made. The entrants were to bring their artwork to Bill Schaben, WA9AUW (W9AX) at the following meeting. We believe it was Bill who converted the early logo design into a line drawing. The result of the coloring contest produced an embroidered patch given to the membership. The "L" in the logo is now elongated to span the distance to the headphone earpiece. The outer rings are back, but now with a conventional Helvetica, sans-serif font included.



Figure 4: 1993 "Coloring Contest"

Examining this version of the patch from 2004, you'll notice the color scheme. These colors are basically the same we use today. It would be great if we could obtain a patch from 1993. Perhaps this one is a survivor from that era?



Figure 6: 2005 "Embroidered Patch"

The masthead of the 1994 Arc Over introduced this "wide" version of our logo. Basically, the same set of headphones, however there is no ring around the logo, and no identification as far as the club's name or call. Plus, the key appears to be made



Figure 5: 1994 Arc Over "Wide" Masthead

from primitive shapes. Could this be the result of someone's use of a personal computer and a basic drawing program? The horizontal and vertical ratio has changed quite a bit too, more like a football rather than a circle. The "L" is elongated even further to the right with the "FRR" being generally the same proportion to the version from 1993.



Figure 7: 1995 "Hamfest Budget"

A few minor changes were made in 1995. The proportions of this version of the 1993 logo (left) are now circular. A very narrow ring surrounded the logo as it was printed on a Hamfest flyer. This version was also used by James N9UZC (SK), the chairperson for the event in his January budget proposal to the leadership team.

FRRL Logo "100 Years in the Making

The "W9CEQ" text was added in 1999 and used in the masthead of the Arc Over. It's the same design as 1995 with a simple addition of text. (Times New Roman, serif) Also notice, the outer ring is much heavier making the logo look a bit more balanced as far as line-weight goes. This version was used for several years on the masthead of the Arc Over. Looking closely, the editor may have "overtyped" the W9CEQ because it does not stay in registration between editions. By 2002 however, the outer circle and call are consistent, suggesting someone assembled the logo using image editing software.



Figure 9: 1999 "Arc Over Masthead"



Figure 8: 1999 "Sweatshirt & T-Shirt"

We believe this logo first appeared in 1999, printed on grey sweatshirts.

Several club members today have this one in their closets. It also showed up on t-shirts. There are some subtle differences in the headphone and key. The headphone no longer has the 1929 highlight marks on the back of the ear piece. The "L" is no longer hyper-extended and remains in proportion to the original design. Looking closely at the key, the travel adjustment is now a threaded screw with a round head and the weight adjustment is connected to a spring. The base is solid, the pivot is also solid with a fulcrum pivot circle, and the handle of the key is shaped like the original design. The outer green ring is narrow, just wide enough to allow for the Helvetica, sans-serif font to appear in white. A small black stroke surrounds all of the text elements as well as the custom hand-drawn FRRL letters. The color is

rich in depth with the yellow being more of a gold, or perhaps orange hue. If you have one of the sweatshirts or t-shirts, you'll for sure notice how stunning this design looks.

This is the 2005 version of our logo. It's designed in a vector graphics program allowing for proper scaling of the image no matter the use. Letterhead, the Arc Over and other publications used this version until 2013. Our jackets, shirts and caps produced at the time used this version as the reference by vendors. Thread colors were slightly different, but all threads had a distinct shine to them making the final product really pop from the backgrounds. It is a 5-color design, making for a bit more expensive embroidery setup.



Figure 10: 2005 "Vector" Bright Color

FRRL Logo "100 Years in the Making



Figure 11: 2024 "100th Anniversary Special Edition"

Here we are celebrating 100 years of club history using this adaptation of the logo. The original elements are still there from 1929. The font is Helvetica, sans-serif. It's clean and bold, now including 1924 and 2024 in the green ring. The additional ribbon was added to set it apart from any other logo from our past. After this year, the logo will be retired to club history.

We hope you've enjoyed this report about our club logo. There are a few more designs not included. They will be revealed in various signage that is being produced for use during meetings. Keep an eye out!

73, The FRRL 100th Anniversary Committee

Welcome,

New Members

K9LEA	Kenneth Lea	Amateur Extra
N9MCC	Ronald McCafferty	General
KA9IRK	Robert Aldworth	Technician
K9GHP	Kenneth Jakle	General
KD9ZNR	John Strum	Technician
KB9SVR	Jerome Schwartz	Technician
W9VEC	Vincent Cimino	General
KD9YFM	Norman Northcutt	General
N9FKW	James Emma	Amateur Extra
KD9VOG	James Pytel	General
KE9AJK	Clifford Mensing	General



The Fox River Radio League invites our members and their guests to join us for our 100 Year Anniversary Celebration on
Tuesday, September 10, 2024.

Tickets are \$30 in April and May, then \$35 from June until they sell out.

We have a limited amount of seating available.

This is your opportunity to register and purchase tickets for yourself and your guest(s).

Please [click here](#) to register for the 100 Year Anniversary Celebration.

Please [click here](#) to pay via PayPal.

If you have any questions or would like to help out, please contact Evelyn Schneider, W9EVE, at vicepresident@frrl.org.

Evelyn, W9EVE

100 Year Anniversary Committee Chair

630-417-4849



13 Colonies Special Event



The Annual 13 Colonies Special Event organizers are looking for amateur radio volunteers. The event honors the 13 original British colonies that rebelled against Great Britain and founded the United States of America in July 1776. The event will use all amateur radio frequencies and modes, and it runs from July 1 to 7, 2024. During this time, there will be special event stations on the air corresponding to each of

the 13 colonies, in addition to two bonus stations with 1 x 1 call signs. Volunteers will need to be available to work for several hours on each of the seven days, and they will need to maintain a log using a computer. **The deadline for volunteer applications is May 1, 2024.** All applications should be emailed to Larry Krainson, W1AST, at wb1dby@gmail.com. Anyone participating in the event can receive a certificate by working any of the 13 colony stations, and a clean sweep certificate will be available for those who work all 15 stations. In 2023, the Massachusetts station, K2H, made 19,209 contacts. For more information, visit the [13 Colonies](#) Special Event website.

Radio Boot Camp



Radio Boot Camp

The [Nashua Area Radio Society](#) will be holding an online Ham Bootcamp on Saturday, May 11 from 10:00 AM to 6:00 PM EST. Ham Bootcamp is a program that helps new, inactive, and prospective hams gain the skills and information they need to get on the air. The program is open to any interested amateur radio operator, or prospective operator, in the US and Canada. There is no charge to attend the online event. Information can be found at n1fd.org/bootcamp. You must register in order to receive the link to join the web conference. If you have any questions, contact [HamBootcamp](#).

Ham Bootcamp includes a series of demonstrations and tutorials designed to help newly licensed Technician, General, and Extra class license holders get on the air and use their amateur radio license. Bootcamp is also a great opportunity for prospective Hams who are interested in seeing what the hobby has to offer.

Ham Bootcamp activities are provided online via a series of sessions geared towards Technicians and prospective Hams and General class licenses and higher Hams. Bootcamp participants will find all of this material interesting and fun no matter what their focus or license level.

The online Bootcamp program is available to all licensed and prospective Hams. You can register for the next Ham Bootcamp session [here](#).





Fox River Radio League ARRL Field Day - 2024



Come join the Field Day fun....

What is ARRL Field Day ?

Field Day is Amateur Radio's Open House.

On the 4th weekend in June, over 40,000 hams in North America set up temporary transmitting stations in public places to demonstrate amateur radio. Whether you are a seasoned Ham , newly licensed, or curious about Amateur Radio come out to our Field Day site and operate. Come join us at Field Day, help setup on Friday, operate Saturday, Sunday and take down on Sunday PM. Emergency preparedness is the game !! Operate our GOTA (Get On The Air) station. Everyone is Welcome !!

2024 - ARRL FIELD DAY Dates:

Start Operating: **Saturday June 22, 2024** at 1pm Local Operate continuously till Sunday

End Operating & Clean Up: **Sunday June 23, 2024** ENDING 1pm Local Cleanup till 4pm

FRRL needs people to help at our Field Day event. If you're interested, even for a brief time, please contact Field Day Chairman Pat Brod, K9ANL or Danny Nichols KD9WDW email: fieldday@frrl.org or come join us, meet new hams, work new Radio Frequencies, and have some summer fun !!

Come join us: OPEN TO THE PUBLIC

FRRL - FIELD DAY - LOCATION:

**LeRoy Oakes Forest Preserve
37W700 Dean St.
St Charles IL**

Check our our web page or listen to our W9CEQ repeater for more information.

FRRL Analog 2 meter repeater:
147.210 Mhz, +600KHz 103.5 PL
FRRL Website www.frrl.org or
<https://www.frrl.org/field-day.php>





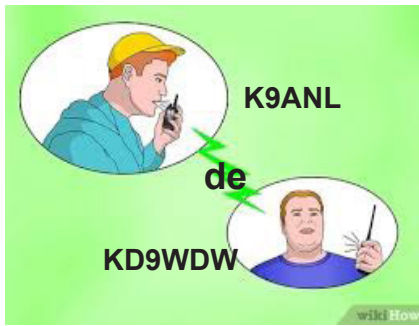
FRRL Field Day Set Up

Starting at 9am Friday June 21st.

Public Storage
248 N Randall Rd
St Charles IL



Meet Dan Harmon there



Field Day

On Site Communications

444.300 114.8 PL Simplex/Direct

I'm hoping that this will be special year to celebrate our 100 Year Anniversary at Field Day. Honestly, Field Day could and should be a precursor to the party later in the year.



That being said, I'm looking for an FRRL member who has experience at hosting or catering parties because I need an experienced and creative person who enjoys ensuring main meals (e.g., Saturday dinner, mid-night chili, Sunday morning breakfast) and in-between meals people are staying comfortable with water, pop, or other soft-drinks as well as free available snacks while visiting, working various band stations, GOTA, or at the pavilion. I'm open to any other ideas, again being experienced and creative person that you are, you may have for food, snacks or drinks. You don't have to be at the Field Day grounds 100%, but would like this special person to be present during the day and sometime after dinner Saturday. If you can't be present at mid-night for chili, that would be fine.

Please contact me if you want to discuss further. Always welcome to hear from people with ideas too.

Thanks,

Patrick - K9ANL
email: kb9anl@yahoo.com
Cell #: 630-853-5190



FRRL Memories

Gary Hornbuckle, K9MMS, published an excellent series of articles in the February and March issues of the ArcOver, reminiscing about Club activities over the years. Those articles got me thinking about memories of my Club activities and adventures.

Joining Up:

My first club meeting was early in 2002. I did not have my license yet, but I was thinking about getting one and dropped by a club meeting to see what it was all about. Mike Urso, K9FE, and Bud Tweed, W9FWN, welcomed me warmly. The enthusiasm and friendliness of the members went a long way in convincing me that amateur radio was something I should try.

Testing for Tech:

I took my Technician exam at one of the club VE sessions a month or two later. I wanted to get started in CW, so I took that test and the written exam. Joe Dubek, NA9A, administered my CW test. I was so nervous that Joe asked if I was OK. Strangely enough, I passed and was granted the callsign KB9YSI.

First Club Event:

I volunteered for my first public service event, the Mid-America Canoe Race, in the Spring of 2002. I was paired with Lloyd Jones, W9PWO, at the Net Control station. I was just getting over my 'mike fright' when Lloyd announced that he had to leave. Suddenly this total noob was the Net Control OP. Yikes!!! Fortunately, with the help of the rest of the team, we managed to finish the event without any problems.

Horse Trials:

Later that summer, I participated in the Horse Trials event at Wayne-Pratt Woods. Don Rasmussen, N9III, was net control. I remember being amazed by his ability to recite the calls of all of the ham volunteers working the event from memory. He was also an excellent net control op; I learned much by listening to him.

Fayban Lighthouse Operation:

My final club event of the year was the activation of the Fayban Lighthouse on Fayban Island in Batavia. Since I was still a Tech Plus, I got to man the 10-meter station, which was set up in the trunk of someone's car. I called CQ for about three hours but only got one response - from Jack Ekstrom, K9JE, who was operating from home.

Later Years:

I won't bore you with a year-by-year summary of my ham radio activities. But there are a few highlights that I recall fondly.

First Satellite Contact: I hoped to contact a rare grid square, but I ended up working Greg Braun, N9CHA, who lived 7 miles from my house. Rare DX indeed! I continued satellite work occasionally, with the highlight being working Dick Illman, AH6EZ, who was riding an Amtrack train somewhere in Minnesota.

QRP DX: Harry Jones, K9DXA, talked me into trying QRP, so I bought a Yaesu FT-817 from Joe Dubek. After a few months of operation, I managed to snag New Zealand, Australia, and South Africa on CW, running 5 watts. QRP for the win!

6-Meter DX: I was the Band Captain for the VHF/UHF Field Day station at Johnson's Mound Forest Preserve. We had a great time on 6 meters, working several West Coast stations. Later that Summer, I worked a station on the Isle of Wight in England on 6, and almost worked a station in Alaska a few minutes later.

Field Day Memories: Learning the fine points of CW ops with Bill Erickson, WA9TPQ, in his trailer at Mooseheart. Running an APRS beacon station at Jerico Park. Operating at a bunch of Field Days and enjoying the Saturday night dinners.

Summing Up:

One thing that is consistent throughout all of these memories is the

presence of my fellow Club members. They have served as mentors, cheerleaders, technical resources, and, most of all, friends. I think this is the real value of clubs like ours. The help, inspiration, and friendships that clubs create are almost beyond value. There are many members whom I didn't mention here. All are deeply appreciated. Thanks to all!

Bill, NF9D





W9CEQ Radio Nets



Sunday
All Operators Net
1900 hrs (7pm) local time
147.21 103.5PL +600

Monday
1930 hrs (7:30pm) local time 28.420 USB Phone
2000 hrs (8pm) local time 28.150 CW
2030 hrs (8:30 pm) local time 28.720 USB Phone



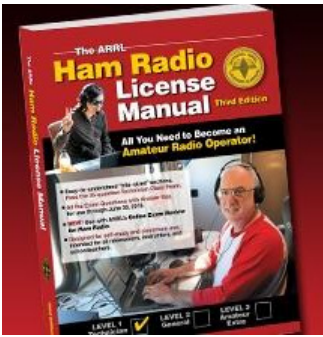
Tuesday
1930 (7:30 pm) local time
147.21 103.5PL +600
Except for the 2nd Wednesday of the month



Wednesday
1930 hrs (7:30pm) local time
223.860 110.9kHz PL -1.6Mhz
Except for the 2nd Wednesday of the month.



We will have an informal net with checkins and a question of the day. The goal of the net is to encourage 220 usage along with getting to know your fellow 220 Mhz users so that we can exchange usage and coverage data to ensure that we have one of the best 220 repeaters in the area.



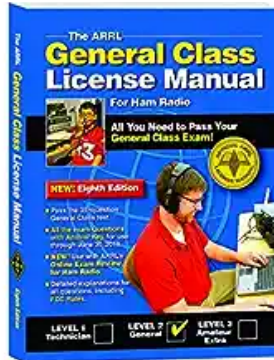
Technician Class

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

Start: May 1, 2024
End: June 26, 2024



Tech & General classes are done on **Zoom**. The Meeting Link to be distributed prior to the class.



General Class

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

Start: TBD
End:

EXTRA classes are held in person at:

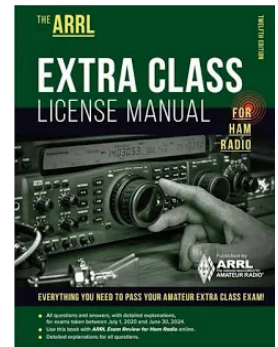


113 Oak St, North Aurora, IL 60542

Extra Class

Saturday Mornings
9:00.AM. to 12:30 P.M.

Start: TBD
End:



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 Tech & General classes are 9 weeks long..

Extra classes are 12 weeks long.

You can contact Dan Nolan at:

Education@frrl.org

if you have any questions

Students should read the material in advance of the class. Also bring an inexpensive calculator like a TI-30 x and a notebook and pencil or pen.



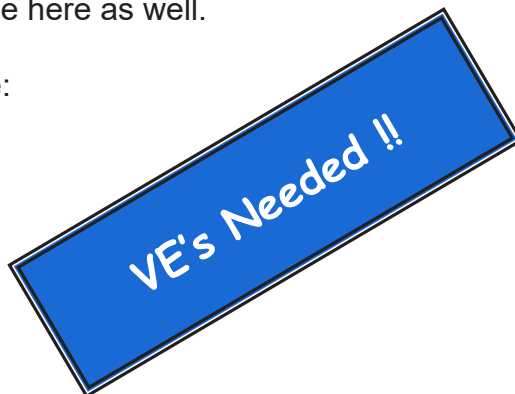
VE Testing

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:

May 16, 2024
July 18, 2024
September 19, 2024

Testing Location:
Geneva Lutheran Church
301 S 3rd St,
Geneva, IL 60134



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.





Out N About



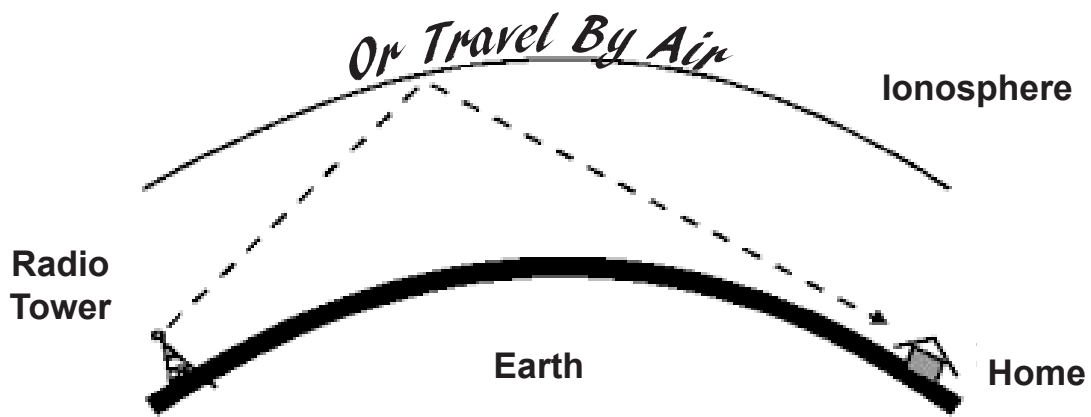
May 11 | [ARRL Nebraska State Convention](#),
Lincoln, Nebraska

Lincoln Hamfest
Nebraska State ARRL Convention

May 17 - 19 | [Dayton Hamvention](#), hosting the ARRL National Convention,
Xenia, Ohio



May 31 - June 2 | [SEA-PAC](#), hosting the ARRL Northwestern Division Convention,
Seaside, Oregon



2024 ARRL National Convention at Dayton Hamvention Program and App Available



The 2024 ARRL National Convention, hosted by Dayton Hamvention®, is just a month away, and the convention program guide is now available at www.arrl.org/expo. The ARRL Events app is also ready to use, encouraging everyone planning to attend to preview all of the Hamvention exhibits, forums, and related activities.

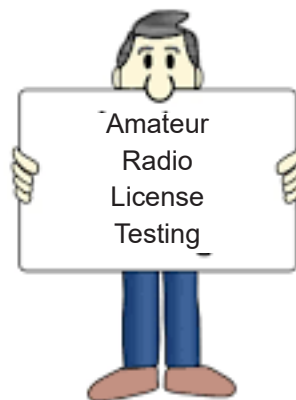
Download the free ARRL Events app [HERE](#)

155th anniversary of the driving of the Golden Spike

To celebrate the 155th anniversary of the driving of the Golden Spike, a ceremony that celebrated the completion of the transcontinental railroad, the [Ogden Amateur Radio Club](#) (OARC) will operate special event station W7G on May 10 - 11, 2024. Operating hours for both days will be 1500Z - 2300Z (09:00 - 17:00 MDT) on single sideband on 7.235 MHz, 14.255 MHz, 21.330 MHz, and 28.385 MHz. There may be CW operation on 7.040 MHz and 14.040 MHz. The special event station will be located at the Golden Spike National Historical Park in Promontory Summit, Utah. During last year's 2-day celebration, OARC made approximately 300 contacts. QSL information is available at the OARC website.



FRRL



March 21 FRRL license testing passed -
5 New Technicians
&
1 New Extra



Ham Fests

Illinois HAMFEST/CONVENTION

04/27/2024 - Sullivan Hamfest

Location: Sullivan, IL

Type: ARRL Hamfest

Sponsor: Moultrie Amateur Radio Klub

Website: <http://qsl.net/mark/>

Learn More



Sandwich Fairgrounds

HAMFEST/CONVENTION

05/05/2024 - The DeKalb Hamfest

Location: Sandwich, IL

Type: ARRL Hamfest

Sponsor: Kishwaukee Amateur Radio Club

Website: <http://karc-club.org>

Learn More



06/02/2024 - Starved Rock Radio Club Hamfest

Location: Mendota, IL

Type: ARRL Hamfest

Sponsor: Starved Rock Radio Club

Learn More

Three Sisters Park

HAMFEST/CONVENTION

<http://www.arrl.org/hamfests/starved-rock-radio-club-hamfest-5>



06/09/2024 - EgyptianFest

Location: Granite City , IL

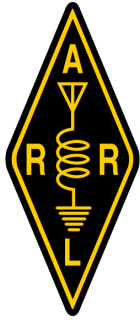
Type: ARRL Hamfest

Sponsor: Egyptian Radio Club, Inc.

Website: <http://www.w9aiu.org>

Learn More





The DeKalb Hamfest



Sponsored by the Kishwaukee Amateur Radio Club

Sunday...May 5, 2024...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-Stubs—See Below)

\$10.00 Admission at the gate (Single Stub).

Overnight Camping on Fairgrounds \$25 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 5, 2024

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, 2024 MUST INCLUDE SASE FOR ADVANCE TICKET SALES

Advance Tickets will not be for sale on site

ADVANCE TICKETS @ \$8 each (Dual Stubs)

INSIDE TABLES @ \$10 each (FREE TAILGATING)

Total...Please make checks payable to KARC

Telephone Number _____ e-mail address _____

Call Sign _____



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



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

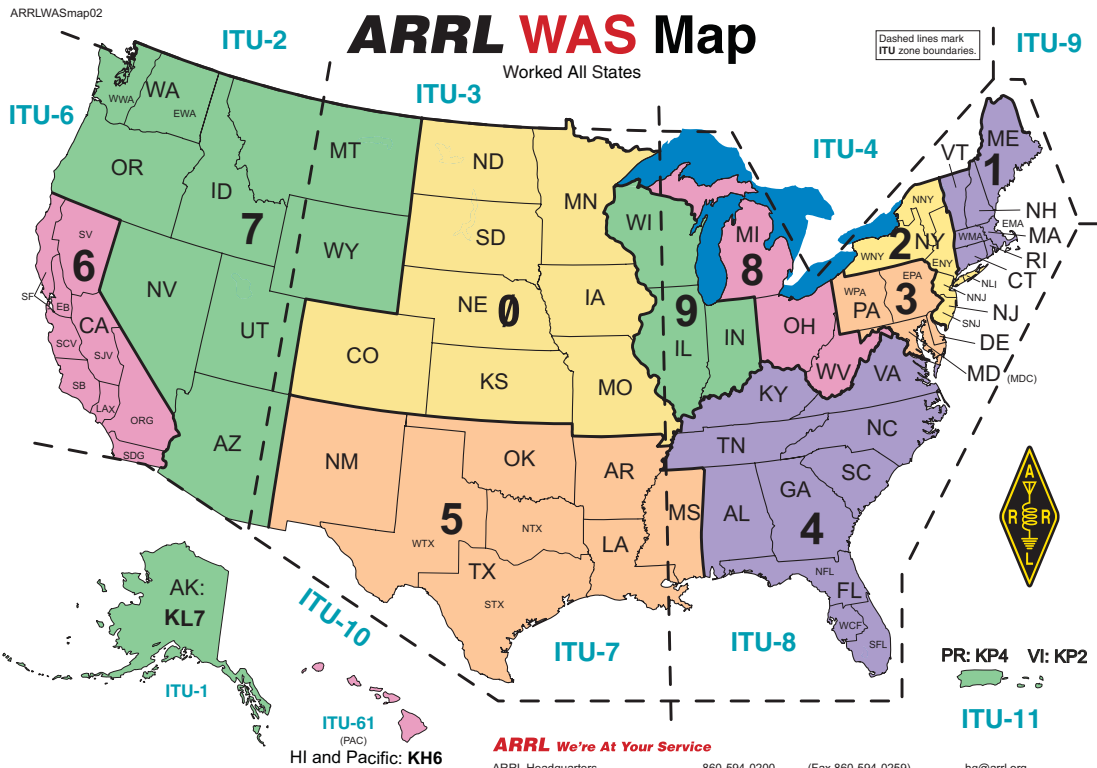
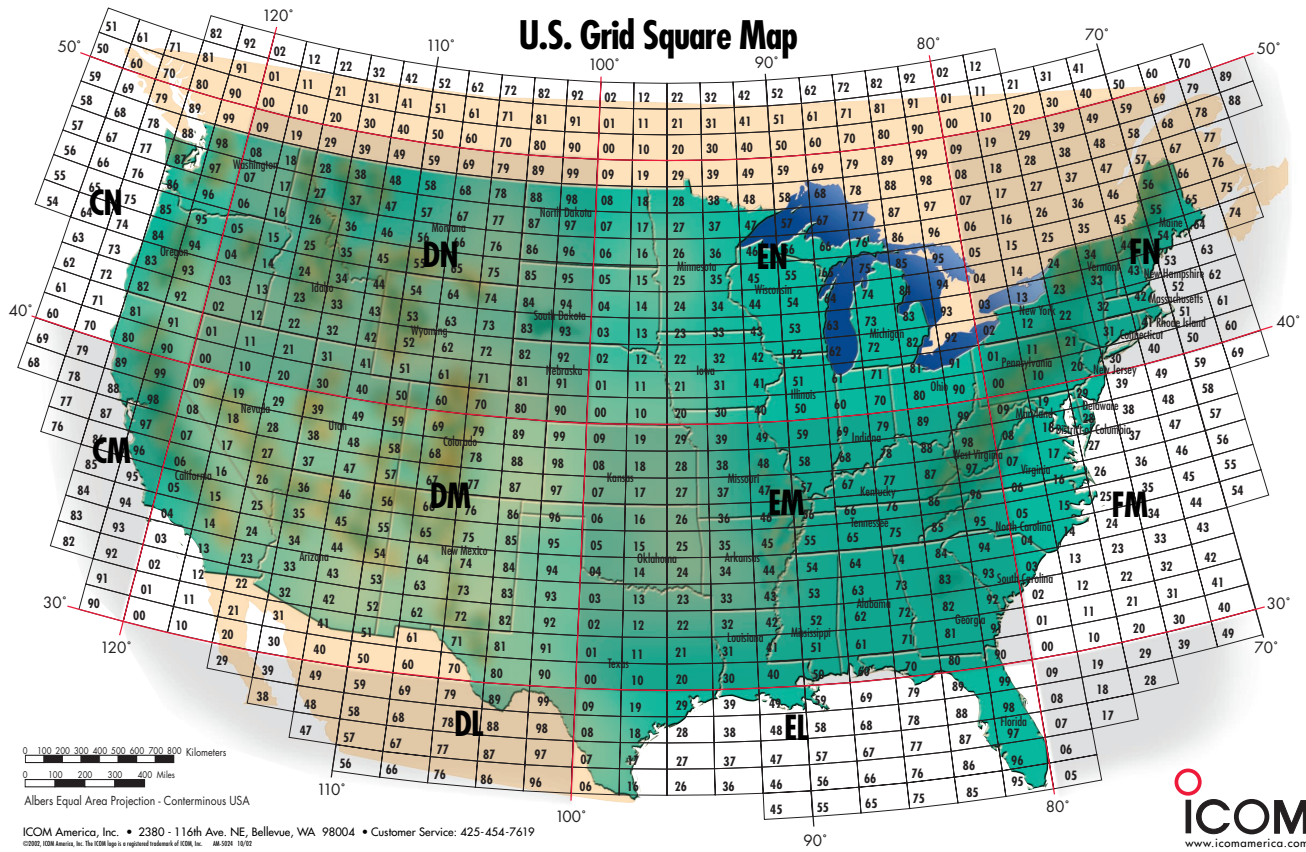
- [Download the ARES Manual \[PDF\]](#)
- [ARES Field Resources Manual \[PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Fillable PDF\]](#)
- [Emergency Communications Training](#)



Kane County ARES

Information

[Click Here](#)



ARRL The national association for
AMATEUR RADIO

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ARRL We're At Your Service

ARRL Headquarters
 Publication Orders
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 Getting Started in Amateur Radio
 Exams
 ARRL on the World Wide Web

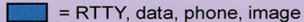
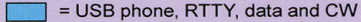
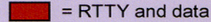
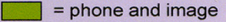
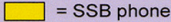
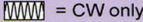
860-594-0200 (Fax 860-594-0259)
 Toll-Free 1-888-277-5289 (860-594-0355)
 Toll-Free 1-888-277-5289 (860-594-0338)
 Toll-Free 1-800-326-3942 (860-594-0355)
 860-594-0300
 www.arrl.org

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



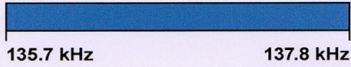
US Amateur Radio Bands

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 only

LF – Low Frequency band

2200 Meters (135 kHz) E,A,G
1 W EIRP maximum



Amateurs wishing to operate on **2200 or 630 meters** must first register with the Utilities Technology Council online at <https://utc.org/plc-database-amateur-notification-process/>. You need only register once for each band.

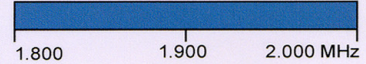
MF – Medium Frequency bands

630 Meters (472 kHz) E,A,G

5 W EIRP max, except in Alaska within 496 miles of Russia where the limit is 1 W EIRP

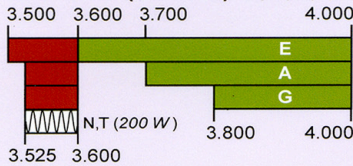


160 Meters (1.8 MHz) E,A,G

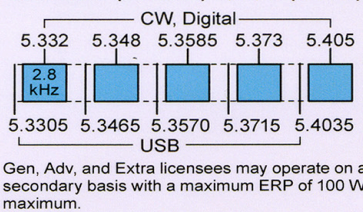


HF – High Frequency bands

80 Meters (3.5 MHz) E,A,G,T,N

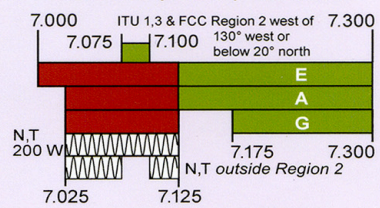


60 Meters (5.3 MHz) E, A, G (100 W)

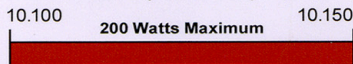


Gen, Adv, and Extra licensees may operate on a secondary basis with a maximum ERP of 100 W maximum.

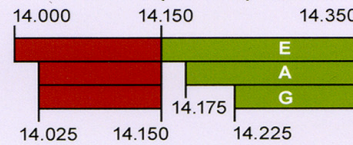
40 Meters (7 MHz) E,A,G,T,N



30 Meters (10.1 MHz) E,A,G



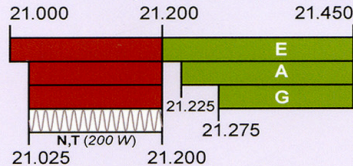
20 Meters (14 MHz) E,A,G



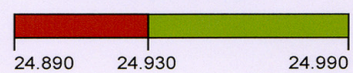
17 Meters (18 MHz) E,A,G



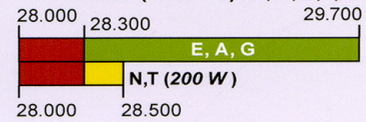
15 Meters (21 MHz) E,A,G,T,N



12 Meters (24 MHz) E,A,G

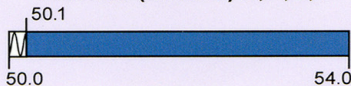


10 Meters (28 MHz) E,A,G,T,N

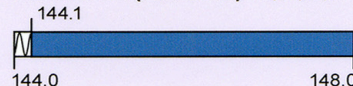


VHF – Very High Frequency bands

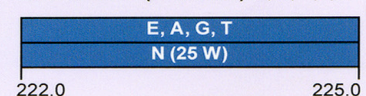
6 Meters (50 MHz) E,A,G,T



2 Meters (144 MHz) E,A,G,T

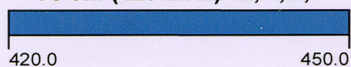


1.25 Meters (222 MHz) E,A,G,T,N



UHF – Ultra High Frequency bands

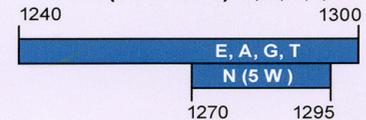
70 cm (420 MHz) E,A,G,T



33 cm (902 MHz) E,A,G,T



23 cm (1240 MHz) E,A,G,T,N



SHF&EHF – Super and Extremely High Frequency bands

All licensees except Novices are authorized all modes on the following frequencies:

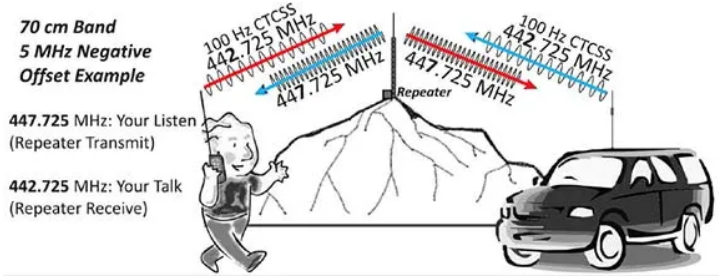
2300-2310 MHz	3300-3500 MHz	10.0-10.5 GHz	47.0-47.2 GHz	122.25-123.0 GHz	241-250 GHz
2390-2450 MHz	5650-5925 MHz	24.0-24.25 GHz	76.0-81.0 GHz	134-141 GHz	All above 275 GHz

See www.arrl.org/band-plan for detailed band plans.

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FRRL



**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

K9IIR/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

