



ARCOVER



MAY 2022

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

1924  2022

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.

Who We Are

President:
Terry Todd W9AUV

Vice President:
Roger Bara W9YU

Secretary:
Art Shuter NN9I

Treasurer:
Dan Harmon WA9YKK

Director 1: NETS / RPTR'S
Reuben Noceda K9ARN

Director 2 Education
Robert Littler W9DSR

Director 3: Activities
Dave Bulkley K9DWB

Director 4: Technical
Adrian Dinwiddle KB9QQL

Past President:
Gordon Dailey KW0E

License Trustee (W9CEQ):
Kermit Carlson, W9XA

License Trustee (W9NE):
Denny Barfuss W9HI

Newsletter Editor:
Jerry Chapman N9JLC

Webmaster:
Mark Van Daele K9MEV

Membership Database:
Chris Kennell, KC9BKS

Net Coordinator:
Curt Sauer, W9YNP

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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*

The repeater committee spent the afternoon Sunday April 24th at the Elburn repeater site thoroughly checking everything out. Most everything is now labeled. Pictures were taken and will be sent to Jerry to put in the newsletter.

If you are looking to buy some ham gear the KARC hamfest is coming up on May 1st. I plan on going out on Sat. and camping out for the hamfest on Sunday.

The upcoming May 10th meeting program will be all about ARES presented by Robert - W9DSR.

Our Field Day plans are progressing along nicely. Make sure you make plans to attend.

Terry - W9AUV

Memorial Day

Saluting Our Military And Fallen Heroes From
Our Beginnings Through The Present Day



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ARCOVER

FOX RIVER RADIO LEAGUE MEMBERSHIP MEETING MINUTES

APRIL 12, 2022

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 12, 2022-

The January meeting of the Fox River Radio League was conducted at Bethany Lutheran Church in Batavia, IL. There were 31 members in attendance and 5 members attended via Zoom.

The meeting was called to order at 1930CST by President-Elect Terry Todd, W9AUV

Board members present. Terry W9AUV, Roger W9YU, DAN W9YKK, ART NN9I AND RUBEN K9ARN

Minutes: There were no minutes from March meeting as the banquet took precedence.

Treasurer's Report: Treasurer's report was accepted and approved.

Motion to Accept: Mike K9FE Second: Gordy KW0E Voice vote approval.

Repeater: Ruben K9ARN – Committee plans to visit repeater site at Elburn.

Education: Denny W9HI - Classes are now planned for Wednesday and Thursday nights

VE Update:

Old Business:



New Business:

Field Day: It is time to start thinking about Field Day! The forest preserve has been reserved, we will run 7-A again, Friday afternoon/evening setup people will be needed. Setup will begin at 4PM on Friday. Some band captains are still needed. Please consider being a band captain this year. Volunteers are needed for setup. Contact Dan, WA9YKK for more info.

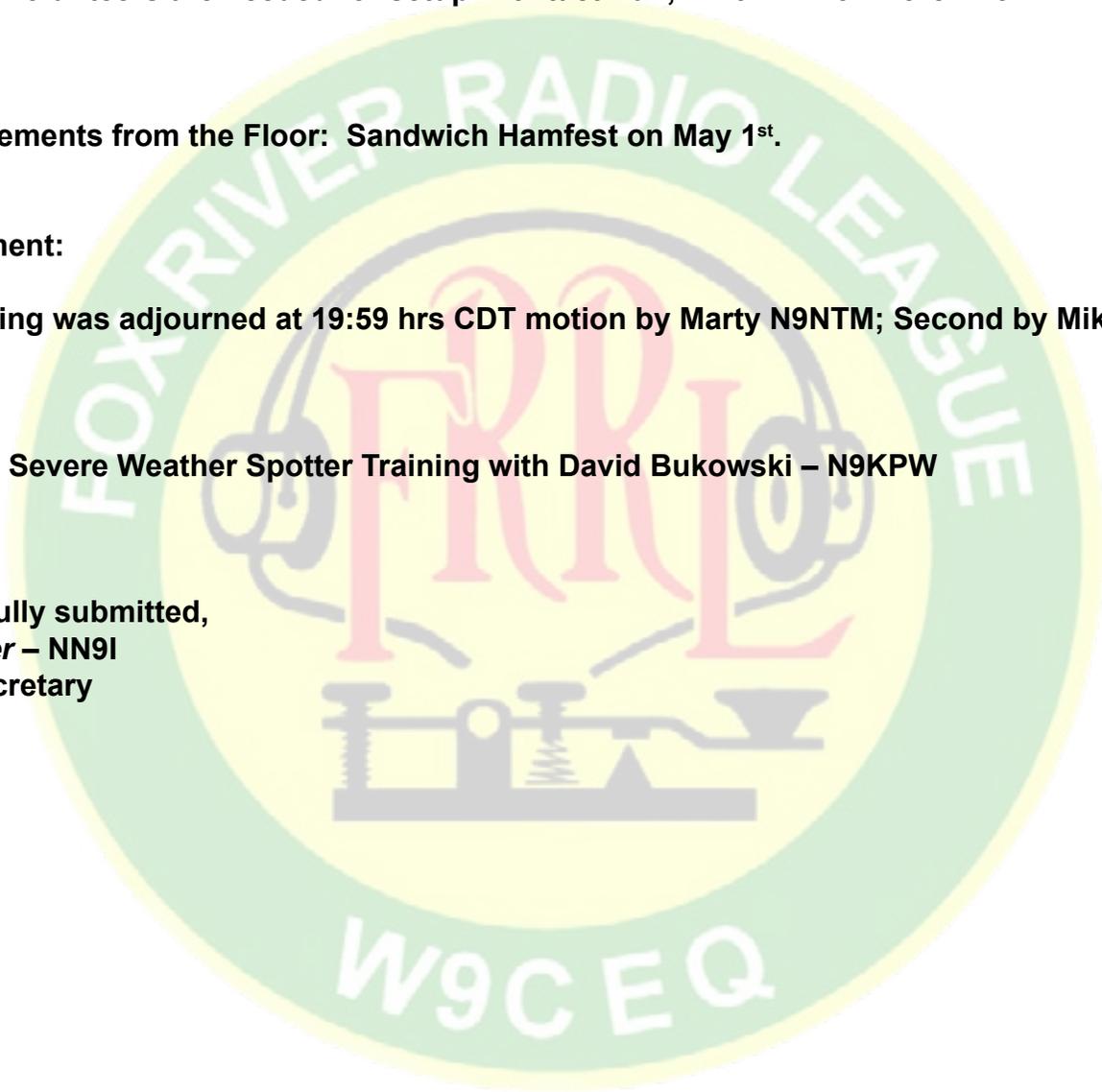
Announcements from the Floor: Sandwich Hamfest on May 1st.

Adjournment:

The meeting was adjourned at 19:59 hrs CDT motion by Marty N9NTM; Second by Mike K9FE

Program: Severe Weather Spotter Training with David Bukowski – N9KPW

Respectfully submitted,
Art Shuter – NN9I
FRRL Secretary



**MAY
2022**

**FOX RIVER
RADIO LEAGUE**



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 	2	3	4	5	6	7
8  1900 FRRL INFORMAL	9  CW Net 28.150, Monday 8PM SSB Net 28.720, Monday 8:30PM	10 1900 FRRL BOD Meeting 1930 FRRL 2m Net	11	12 	13	14
15 1900 FRRL INFORMAL ALL OPER NET	16  CW Net 28.150, Monday 8PM SSB Net 28.720, Monday 8:30PM	17 1930 FRRL 2m Net	18	19	20 	21 
22 1900 FRRL INFORMAL ALL OPER NET	23  CW Net 28.150, Monday 8PM SSB Net 28.720, Monday 8:30PM	24 1930 FRRL 2m Net	25	26	27	28
29 1900 FRRL INFORMAL ALL OPER NET	30 	31 1930 FRRL 2m Net				
				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	

Fox River Radio League

News & Information

Local - National - International



May **Dayton Hamvention** 20, 21, 22

DARA Repeater 146.940 (-) 123.0 PL
 Alternrate 146.985 (-) 123.0 PL
 Traffic Bulletin 145..525
 Directions & Assistance during Hamvention
 Traffic conditions & detours
 Begins – Thur 7am, Fri 5am, Sat 5am, Sun 7am



For information go to: <https://hamvention.org/>

Greene County Fairgrounds and Expo Center.

The DeKalb Hamfest

Sponsored by the Kishwaukee Amateur Radio Club
 Sunday...May 1, 2022...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
 Includes electric and water

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
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Always the First Sunday in May, May 1, 2022
 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, 2022 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 _____

North Central Indiana Hamfest

ARRL Indiana Section Convention

Saturday, May 7, 2022
 9:00 AM to 2:00 PM (EST)

Miami County 4-H Fairgrounds

1029 W. 200 North, Peru, IN

Hosted by the Cass County, Grant County, Miami County & Kokomo Amateur Radio Clubs.

Talk-In on 147.345+ (131.8) Coordinates: 40° 47.521' N 86° 5.635' W

Ticket Information \$5.00 -17 and Under Free. Free Parking, Handicap Accessible	Forums To Be Announced	Raffle & Hourly Door Prizes Icom 2730 Dual-Band Mobile Yaesu FT-65 Dual-Band HT
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On Site Camping – Only \$30.00/Night

Electric & Water Hookups 2 Sewage Dumpsites Restrooms with Showers
 Contact: Dave McDougle, Fairground Facility Manager at 765-327-5398.

Vendor & Tailgating Information

Setup Times: Friday, 5:00 - 8:00 p.m. & Saturday, 7:00 - 8:45 a.m.
 Inside Tables: Reserved tables \$5.00 each Tables day of event - \$7.00 each
 Admission: \$5.00 / Person
 Tailgating Area: \$10.00 + \$5.00 / Person Admission

Reserve Your Tables

Call Mitch Miller at 765-661-5893 or email: ncihamfest@gmail.com

Free Laurel VE Testing 8:00 - 10:00 a.m.

Bring a Photo ID. Children can use a Student ID.
 The FCC now requires an FRN Number to test.
 Get an FRN Number at <https://apps.fcc.gov/cores/>
 If already licensed and upgrading, bring a copy of your current license.
 Need more info, contact John Fulton at email: n9vob@sbcglobal.net

*One new ham will win a Yaesu FT-65 Dual-Band Portable!

www.NCIHamfest.com Find us on Facebook - North Central Indiana Hamfest



Nashua Area Radio Society Online Ham Bootcamp

The Nashua Area Radio Society (NARS) will be holding an online Ham Bootcamp on Saturday, May 14, 2022. The program will be held via Zoom video conferencing, and is available to new hams across the country. The NARS Ham Bootcamp was created to help new, inactive, or prospective hams learn the skills needed to build their first station and get on the air. Experienced hams who are looking to enhance their club's mentoring programs are also welcome to attend.

Spring 2022 Ham Bootcamp will be held on Saturday, May 14, from 10:00 AM to 6:00 PM Eastern Time. The morning session will focus on Technician-level activities, and the afternoon session will focus on HF activities for General-class or higher licensees. New this year, will be a breakout session where attendees will have a choice between three different sessions.

Here is the agenda:

Repeaters and VHF/UHF Session Activities

Putting Together a Station for Repeaters - How to pick an HT or Mobile Radio and an Antenna
Making Contacts and Joining a Repeater Net
Radio Programming Tutorial
Getting Started with Amateur Radio Satellites
Getting Started with FoxHunting
Jamey
Explains HF Station Building HF Session Activities



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
Breakout Session

The final session of the day will be a breakout session where attendees will choose to attend one of the following three sessions:

Learning CW
Finding DX, Logging Contacts, and QSL'ing - Getting them Logged/Confirmed
Portable Operating

Registration is now open for the May 14th session. You can get more information about Ham Bootcamp [Here](#)

Contact Anita Kemmerer, AB1QB, [Here](#) with any Ham Bootcamp questions.



Fox River Radio League Elburn Repeater Site



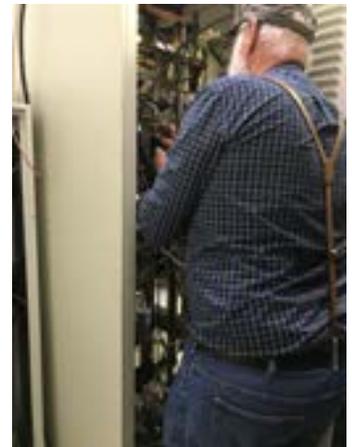
Curt going old school with a crt monitor



Pete & Kermit



Kermit and Terry running cable



Terry armed with a label maker.



2022 Field Day is June 25-26



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

FRRL is in need of Band Captains

Band Captains head up each station /mode/ band. These "band captains" and are responsible for planning their individual station, working in conjunction with the Field Day Chairman and the other stations planned.

If your interested in this position or able to help in general contact [Dan WA9YKK](#)

Annual Armed Forces Day Cross-Band Exercise Set for May 14

The 2022 running of the Armed Forces Day (AFD) Cross-Band exercise will be held on May 14, 1300 – 2200 UTC. A complete list of participating stations, modes, frequencies, times, and other details will be announced on April 1. The event is open to all radio amateurs. Armed Forces Day is May 21, but the AFD Cross-band military-amateur radio event traditionally takes place 1 week earlier, in order to avoid conflicting with Dayton Hamvention®. During the exercise, radio amateurs listen for stations on military operating frequencies and transmit on frequencies in adjacent amateur bands.

Military and amateur stations have taken part in this event for more than 50 years. It's an exercise scenario, designed to include ham radio and government radio operators alike.

Per previous announcements: "The AFD Cross-band Test is a unique opportunity to test two-way communications between military communicators and radio stations in the Amateur Radio Service, 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 that does not impact any public or private communications."

Military stations in various locations will transmit on selected military frequencies and announce the specific ham band frequencies they are monitoring.

An AFD message will be transmitted utilizing the Military Standard (MIL-STD) serial PSK waveform (M110), followed by MIL-STD Wide Shift FSK (850 Hz RTTY), as described in MIL-STD 188-110A/B. The AFD message will also be sent in CW and RTTY.

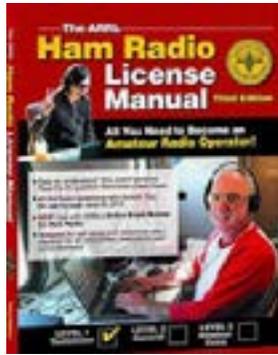
Click [HERE](#) for more information.



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Technician/General Classes:

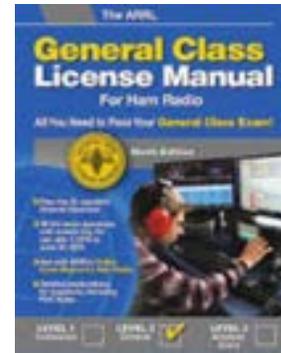


Technician Class

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

Start: April 13, 2022

Location: Zoom Meeting
[Link to be distributed prior]



General Classes:

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

Start: April 14, 2022

Location: Zoom Meeting
[Link to be distributed prior]

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



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UNITED STATES OF AMERICA FEDERAL BUREAU OF INVESTIGATION IDENTIFICATION DIVISION	
WSCEQ	
Fox River Radio League PO Box 673 Batavia IL 60510-0673	
	
Name: _____	
Address: _____	
City: _____ State: _____ Zip: _____	
Date of Birth: _____	
Date of Issue: _____	
Date of Expiration: _____	
Signature: _____	
Gordon Dixley	

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



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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



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 12th, 2022

July 14th, 2022

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



Instructors to teach **Technician** & **General** License zoom classes



Field Day Captains
Assistance at Field Day
(Set Up-Take Down - In General)



VE Examiners





To Our NEW Members !!



Call Sign	Name	License Class
KF9OW	Richard Jensen	Amateur Extra
W9JWF	Jeremy Francis	General
WA9MNF	Edward Healy	Amateur Extra



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.



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](#)





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

Advertise Here



Golden Rules
of Borrowing

Return it Quickly

Return it in Great
Condition

Break it - Replace
it

Return the Favor



To advertise email: NEWSLETTER@FRRL.ORG

FRRL Items For Sale (Proceeds Go To Clubs Treasury)

- New Home-brew antenna (20m / 40m)
- MFJ564 Deluxe Lambic Key
- Radio Waves 40m End Fed
- Radio Oasis 10 Kit 1/2 Wave Wire
- LNR Precision 10-40 QRP End Fed
- MFJ926B Remote Tuner w/Bias TEE and Supply
- Shure Prolog Desk Mic w/Base
- (2) Hygain 2kw SWR Bridge - Single Large Meter
- Midland 100w SWR Bridge - Single Small Meter
- Swan 100w SWR Bridge - Single Small Meter
- Blitz-Bug COAX Lightning Protector

If interested in any of these items please contact Mike Urso K9FE





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).

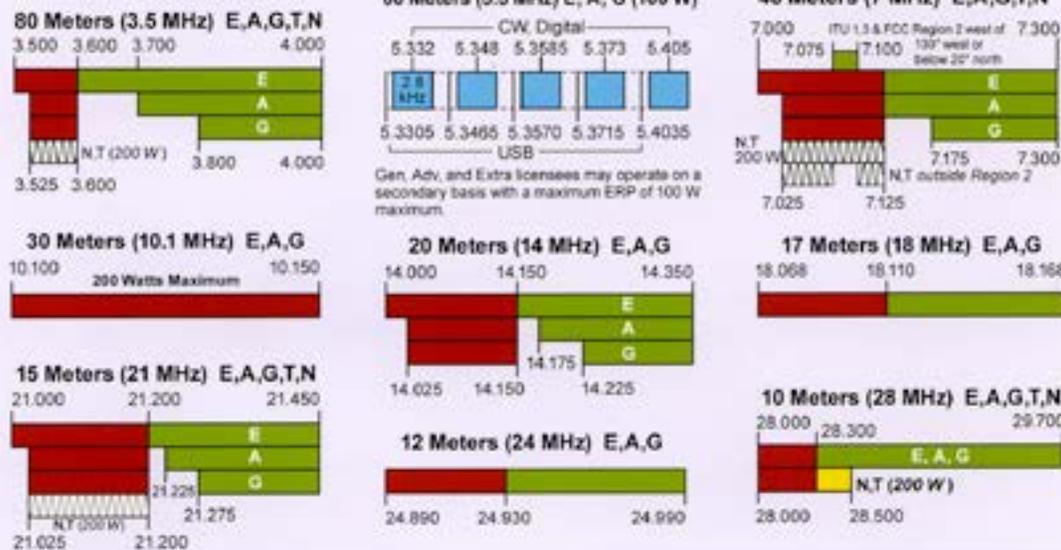
■ = RTTY, data, phone, image
 ■ = USB phone, RTTY, data and CW
 ■ = RTTY and data
 ■ = phone and image
■ = SSB phone
 [CW symbol] = CW only

LF – Low Frequency band



MF – Medium Frequency bands

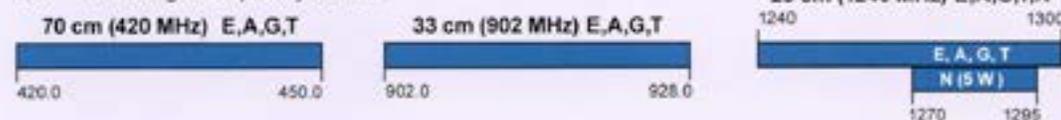
HF – High Frequency bands



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 Repeaters:

**W9CEQ -- 147.225 MHz - Auto C4FM/Fusion,
FM, and Wires-X
+600 KHz Offset
100.0 Hz access tone**



**W9CEQ -- 147.210 MHz
+600 KHz Offset
103.5 Hz access tone**

**W9CEQ -- 444.300 MHz - IRLP and Echolink
are currently unavailable
+5 MHz Offset
114.8 Hz access tone**

**W9CEQ_B -- 442.10625 MHz - D-Star
+5.0 MHz offset**

Other Local Repeaters:

**W9XA/R Batavia 1.25M
224.4 MHz, -1.6 MHz offset
114.8 Hz access tone
Owned by W9XA, available for club use**

**W9XA/R Batavia 70CM DMR
443.65625 MHz, +5 MHz offset
DMR ID 311760
Chicagoland-CC Bridge
Owned by W9XA, available for club use**

**WB9PHK/R 70CM DMR
443.64375 MHz, +5 MHz offset
Chicagoland-CC Bridge
Owned by W9XA, available for club use**

Other Local Repeaters:

**W9XA/R Batavia 23CM
1292.00 MHz, -20 MHz offset
114.8 Hz access tone
Owned by W9XA, available for club use**

**KC9OEM 2M -- (Primary Kane County
SKYWARN / ARES Freq)
145.470 MHz, -600 KHz Offset
103.5 Hz access tone
Owned by Kane County OEM**

**KC9OEM 70CM
444.525 MHz, +5 MHz Offset - Auto C4FM/
Fusion and FM and WIRES-X
114.8 Hz access tone
Owned by Kane County OEM**

Kane County Public Service Repeaters

**W9DWP -- 145.270 MHz, -600 KHz,
107.2 access tone**

**W9DWP -- 443.025 MHz, +5 MHz,
114.8 access tone**

Both W9DWP repeaters are dual mode APCO-25 NAC-293

**W9ZGP -- NIARC
147.060 MHz, +600 KHz,
103.5 access tone**

***Also see the bottom row of the FRRL
calendar to see additional repeaters and their
net times.***

Bolingbrook Amateur  Radio Society

**VHF - 2 meter: Frequency: 147.330 Offset: +
600 KHz PL: 107.2**

**UHF - 70 cm: Freq: 443.525 Offset: + 5.0 MHz
PL: 114.8 & NAC293**

**VHF - 220: Frequency: 224.540 Offset: - 1
MHz PL: 110.9**

**UHF - DMR: Freq: 443.700 Offset: + 5 MHz
Color Code: 1, TS1 & TS2**

