



ARCOVER



NOVEMBER 2021

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

1924  **2021**

Who We Are

President:
Gordon Dailey KW0E

Vice President:
Roger Bara W9YU

Secretary:
Dean Holste KC9EOQ

Treasurer:
Dan Harmon WA9YKK

Director 1: NETS / RPTR'S
Terry Todd W9AUV

Director 2: Education
Robert Littler W9DSR

Director 3: Activities
Dave Bulkley K9DWB

Director 4: Technical
VACANT

Past President:
Mike Urso K9FE

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

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.

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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>





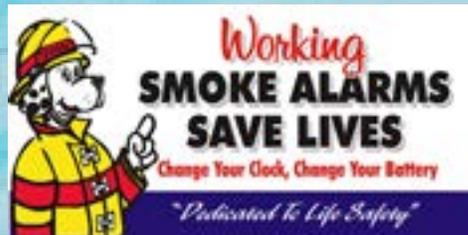
*From The Desk
Of  The
Honorable Gordon Dailey*

Hi All, I hope all is well with you and yours. November is upon us and soon we will be thinking about turkey and dressing. Enjoying time with family and friends. I wish all a very Happy Thanksgiving.

As we get closer to the end of the calendar year, I remind you that it's time for dues renewal. Also, the Nominating Committee is formed election is coming. Please consider serving your club as an officer or director. Contact Mike Urso, K9FE for more information.

Until next time. Stay radio active.

73, Gordie KW0E





ARC OVER

FOX RIVER RADIO LEAGUE MEMBERSHIP MEETING MINUTES

OCTOBER 12, 2021

Minutes of the Regular Meeting of the General Membership of the Fox River Radio League (FRRL)
an Illinois not-for-profit Corporation
Meeting Minutes October 12, 2021-

The October meeting of the Fox River Radio League was conducted, at Bethany Lutheran Church in Batavia, IL. There were 25 members in attendance. There were 2 attending via Zoom.

The meeting was called to order at 1935CDT by President Dailey, KW0E

All Board members were present except for Director Robert Littler W9DSR.

Minutes: Acceptance of the September 2021 Membership Meeting minutes as printed in the ArcOver were approved by the membership. Motion: Dave K9WDB; 2nd: Tom, WD9DAU--Voice vote approval.

Treasurer's Report: Dan WA9YKK, reported the account bank balances as of 09-07-2021.
Motion to accept: Kermit W9XA, Second: Mike, K9FE

Reports:

Director: Dave-K9WDB: Still looking for a media guru, no takers so far.

Director: Terry-W9AUV: Sick, but on Zoom.

Director: Robert-W9DSR: Not Present

ARES: Marty-N9NTM: Still meeting via Zoom Sessions.

Repeater: Kermit W9XA, New Fusion system running well! UHF DMR system will be up and running soon.

Education: Technician and Extra classes are going well.

VE Update: Next session on November 11th at 6PM at Geneva Lutheran Church.

Old Business:

Education: The Wednesday Technician and Saturday Extra Study classes are in progress.

VE Update: November 11th 6PM at Geneva Lutheran Church



New Business:

ILQSO- The Illinois QSO party will be held on Sunday October 17th from 12noon until 5PM. There will be 3 stations; CW, SSB and FT8 Contest starts at 12noon. Set up begins at 9AM.

Announcements from the Floor:

Mike, K9FE advised that candidates are needed to run for office. The election will be held in December. Please contact Mike, Kermit W9XA or Paul KC9SEB with any questions.

Adjournment:

The meeting was adjourned at 2000hrs CDT motion by Kermit W9XA Second by Mike K9FE.

Upcoming Events:

- November 2 – BOD Meeting
- November 9 – Membership Meeting
- November 20 – Newsletter Deadline

Program:

Gordie KW0E will present on using Fusion and Wires-X using the new digital repeater.

Respectfully submitted,

Dean Holste, KC9EOQ
FRRL Secretary



**FOX RIVER
RADIO
LEAGUE**



NOVEMBER 2021



Fox River Radio League

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 10-10 Net CW Net 	2 1900 FRRL BOD Meeting 1930 FRRL 2m Net	3	4	5	6
7 1900 FRRL INFORMAL NET	8 10-10 Net CW Net 	9 1930 FRRL MEMBER MEETING NO NET	10	11	12	13
14 1900 FRRL INFORMAL ALL OPER NET	15 10-10 Net CW Net 	16 1930 FRRL 2m Net	17	18	19	20 Deadline
21 1900 FRRL INFORMAL ALL OPER NET	22 10-10 Net CW Net 	23 1930 FRRL 2m Net	24	25 	26 Black Friday	27
28 1900 FRRL INFORMAL ALL OPER NET	29 10-10 Net CW Net 	30 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	



For ARRL events please go to <http://www.arrl.org/contest-calendar>



Fox River Radio League

News & Information

Local - National - International

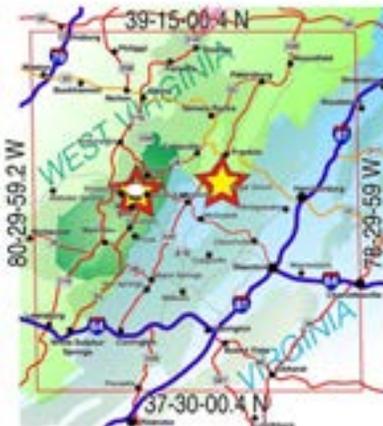


The Quietest Place in America

There's an area in West Virginia that regulates the use of cell phones, wireless internet, and other devices that use electromagnetic waves, and it's considered the quietest place in the United States. The reason why the town of Green Bank has a National Radio Quiet Zone (NRQZ) put into place by the federal government is because it is home to an observatory.

National Radio Quiet Zone

The National Radio Quiet Zone (NRQZ) was established by the Federal Communications Commission (FCC) in Docket No. 11745 (November 19, 1958) and by the Interdepartment Radio Advisory Committee (IRAC) in Document 3867/2 (March 26, 1958) to minimize possible harmful interference to the National Radio Astronomy Observatory (NRAO) in Green Bank, WV and the radio receiving facilities for the United States Navy in Sugar Grove, WV. The NRQZ is bounded by NAD-83 meridians of longitude at 78d 29m 59.0s W and 80d 29m 59.2s W and latitudes of 37d 30m 0.4s N and 39d 15m 0.4s N, and encloses a land area of approximately 13,000 square miles near the state border between Virginia and West Virginia.



Members of the Russian Robinson Club will celebrate the 60th anniversary of the Antarctic Treaty signing with special call signs R60ANT, RA60ANT, RB60ANT, RC60ANT, RG60ANT, RJ60ANT, RK60ANT, RL60ANT, RN60ANT, RT60ANT, RU60ANT, RZ60ANT, and RI60ANT, between October 1 and December 31.





Radio Club of America (RCA) Transatlantic QSO Party, 1200 UTC on November 13 to 0400 UTC on November 14, 2021 (16 hours total). The QSO party commemorates the contribution of members of the Radio Club of America who constructed and operated the 1BCG transmitter site in Greenwich, Connecticut, that sent the first message received by Paul Godley, 2ZE, in Scotland.

Information for Radio Amateurs:

When: 1200Z November 13, 2021 to 0400Z November 14, 2021 (16 hours total)

Bands: 160, 80, 40, 20, 15 and 10 meters

Modes: CW and SSB

Calling: Call "CQ TQP" (for Transatlantic QSO Party)

For further information please go to [Radio Club of America's celebration of the 100 Year Anniversary of the Transatlantic Test](#)



The SpaceX Crew-3 astronauts (L-R) Matthias Maurer, KI5KFH; Thomas Marshburn, KE5HOC; Raja Chari, KI5LIU, and Kayla Barron, KI5LAL,

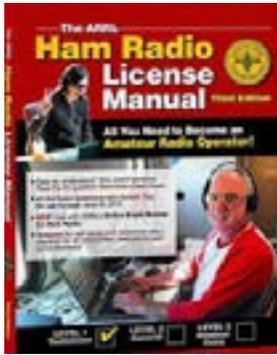
Next SpaceX Commercial Crew to ISS Comprised of Radio Amateurs

Four radio amateurs will head to the International Space Station (ISS) aboard a commercial flight, thanks to Amateur Radio on the International Space Station (ARISS).

The targeted launch date is no sooner than October 31, from Kennedy Space Center in Florida. The launch will mark the third SpaceX Crew



Technician/Extra Classes:

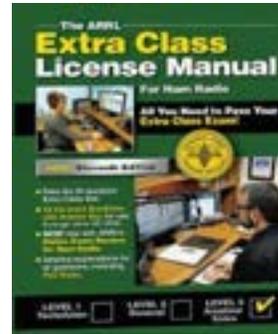


Technician Class

Wednesday Evenings
6:00 P.M. to 9:00 P.M.

Start: September 29th 2021

Location: Zoom Meeting
[Link to be distributed prior]



Extra Classes:

Saturday Mornings
9:00 A.M. to 12:00 P.M.

Start: October 1st, 2021

Location:
Messenger Library
113 Oak Street
North Aurora, IL 60542

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 \[at\] frll.org](mailto:education[at]frll.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](#).



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:

November 11, 2021 6:00pm

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

NOMINATIONS NOW OPEN

President
Vice President
Secretary
Treasurer
Director
Director

CLUB ELECTIONS

★ VOTE ★

Candidates are needed to run for office. The election will be held in December.

Please contact [Mike](#), [Kermit W9XA](#) or [Paul KC9SEB](#) with any questions.

This is the slate that the nominating committee has put together. Note: Write-ins for each office are allowed or addition to the slate at the November meeting.

One Year Term

President: *Terry Todd, W9AUV*
Vice-President: *Roger Bara, W9YU*
Treasurer: *Dan Harmon, WA9YKK*
Secretary: *Arty Schuter, NN9I*

Two Year Term

Director: *Adrian Dinwiddie, KB9QQL*
Director: *Ruben Noceda, K9ARN*

Mike Urso K9FE



“Use of Lithium Ion Batteries For Amateur Radio”

Battery designs have progressed to smaller sizes, lighter weight, and greater energy densities to make them more attractive for use in powering various electrical products. Whats more, they have been made to be rechargeable using convenient electrical sources such as the grid or photovoltaic devices along with appropriate charging circuits.

Lithium ion cells are electrical storage devices in which lithium ions flow through an electrolyte from the negative electrode (anode) to the positive electrode (cathode) during battery use (discharge). Ion flow is reversed during charging.

Numerous different mixtures of lithium with other chemicals have been developed with various outcomes. Some chemical mixtures for lithium ion cells that include manganese, for example, tend to exhibit greater energy densities. Other mixtures that include iron phosphate, for example, tend to exhibit lower energy densities. Higher energy densities are often associated with relatively greater risk of fire, while lower energy density designs are associated with less risk of fire.

You heard of fires starting with lithium ion cells used in various appliances such as laptop PC's, cellphones, and people movers. Accidents have also been reported involving automotive equipment, and mass storage quantities of lithium ion cells in warehouses.

Historically, investigative activity of these devices suggest that the risk of fire can result from the following:

1. The design might be faulty,
2. Quality control during manufacturing might be inadequate,
3. Excessive discharge currents imposed by electrical loads may occur,
4. Excessive charging currents imposed by the charging equipment and cell may occur,



5. Physical abuse such as dropping or crushing may disrupt the internal cell construction to cause sudden current flow, resulting in heat generation.

A common failure mode caused by any of these conditions is the creation of an internal limited short circuit in the cell. As internal current flows abnormally, the internal temperature increases sufficiently to cause the chemicals to react improperly, thus further raising the cell temperature to create what is called thermal runaway. At this point, internal cell construction begins to fail due to heat and pressure buildup from the chemical reaction, resulting in the discharge of arcing, flame, and/or smoke. If multiple cells are constructed in a module (to create a series/parallel direct current source), then failure can propagate to the other cells.

Amateur radio applications of the lithium ion cell include lithium cell modules. They are found often in the design of handy talkies and smaller transceivers.

Cell chemistry popular for Ham radio applications today are usually some version of lithium iron phosphate. Today's cell designs have shown to provide a good track record the way Hams use them.

In keeping the risk of fire minimized as noted in the list above, Hams need to:

1. Try to use only modules that have been safety tested and certified. Some are not. Today's products have a good track record.
2. Pay attention to maximum specified load currents applied during normal use of the battery.
3. Use only the charging device recommended by the battery manufacturer. The charging device is usually sold with the battery. Today's products that are sold with lithium ion batteries and chargers eliminate this guesswork. Do not leave the charger connected longer than specified.
4. Take care to avoid dropping, crushing or otherwise physically abusing the battery.

Lithium ion cells can be extremely useful and safe for Hams if designed, manufactured, and used properly.

FRRL Newsletter Article by
Harry Jones K9DXA,
October 20, 2021



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 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.



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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](#)



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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**CHANGE YOUR CLOCKS
BACK**



NOVEMBER 7, 2021



Golden Rules
of Borrowing

- Return it Quickly
- Return it in Great Condition
- Break it - Replace it
- Return the Favor



**If You Have Anything
For Sale**



**To Trade
Looking For / Or
To Loan**



Advertise Here

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

