



ARC OVER



January 2021

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

1924  2021

Who We Are

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

Email: info@frrl.org
Website: <http://www.frrl.org>

President:
Gordon Dailey, KW0E

Vice President:
Roger Bara, W9YU

Secretary:
Dean Holste, KC9EOQ

Treasurer:
Dan Harmon, WA9YKK

Directors:
Cedrick Johnson WT2P
Denny Barfuss W9HI
Dave Bulkley K9WDB
Robert Littler W9DSR

Past President:
Mike Urso K9FE

License Trustee (W9CEQ):
Kermit Carlson, W9XA

License Trustee (W9NE):
Denny Barfuss W9HI

Newsletter Editor:
Jerry Chapman N9JLC

Webmaster:
Curt Sauer, W9YNP

Membership Database:
Chris Kennell, KC9BKS

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.

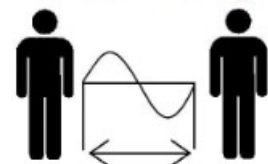
We sponsor training classes for those seeking a new or upgraded Amateur Radio license, license examination sessions, and participation in various local Public Service events. Our membership covers a broad variety of interests - if you have a specialized amateur radio interest, you will likely find camaraderie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




Keep one wavelength
apart at 147.21 Mhz





From The Desk
of The
Honorable Gordon Dailey



I hope that you all had a great holiday in this weird and trying year. I'm sure that you are looking for improvement in 2021. I'm tired of trying to plan something professionally or personally without knowing if it will be able to happen. Here's to new beginnings. New contacts. New friends as well as old friends. Happy New Year to All. Stay radioactive.

73. de Gordie KW0E

ELECTION RESULTS



President (Gordon, KW0E),
Vice-President (Roger, W9YU),
Secretary (Dean, KC9EOQ)
Treasurer (Dan, WA9YKK)
Directors:
Dave Bulkley, K9WDB;
Robert Littler, W9DSR
Cedrick Johnson, WT2P,





MEETING MINUTES



DECEMBER 8, 2020

Minutes of the Regular Meeting of the **General Membership** of the Fox River Radio League (FRRL)
an Illinois not-for-profit Corporation
Meeting Minutes December 8, 2020-

The December meeting of the Fox River Radio League was conducted via Zoom.

There were 37 members present via video conference.

The meeting was called to order at 1930 CST by President Gordon Dailey, KW0E.

Acceptance of the November 2020 Membership Meeting minutes as printed in the ArcOver. It was moved, seconded and approved.

Treasurer's Report: Dan WA9YKK, reported the account bank balances as of 12-08-2020. Motion to accept the Treasurer's report, seconded, and passed.

Director Report: Repeater, Terry, W9AUV, See Repeater Report

Director: Denny, W9HI, reported that the December 2020 VE session has been post phoned. The Technician class is going well. There are two classes that will continue after the holidays. Upcoming programs: January 2021, SOTA; February 2021, Antenna modelling software; March, 2021 CWOPS.

ARES: Marty N9NTM, advised of upcoming meetings and trainings.

Repeater Report: Kermit W9XA, reports the Yaesu repeater has been removed from the Elburn tower. It is now installed for testing at Terry's house. It is fully functional. Frequency work for the Plano tower is still being done.

Membership: Chris, KC9BKS reported that we are at 131 members as of this month.

Old Business:

Meetings: All meetings will be conducted using Zoom until further notice. The winter club dinner planned for January 2021 has been cancelled. Dine in restrictions will still be in place during that time due to COVID19.



New Business:

Election Results: Chairman Mike Urso, K9FE, Cedrick, WT2P and Kermit, W9XA reported on the election results. There were three candidates running for the three open Director positions. They were Dave Bulkley, K9WDB; Robert Littler, W9DSR and Cedrick Johnson, WT2P, all three candidates were elected. The current officeholders for the positions of President (Gordon, KW0E), Vice-President (Roger, W9YU), Secretary (Dean, KC9EOQ) and Treasurer (Dan, WA9YKK) have been re-elected.

Field Day-2021: Application to use the field day site at LeRoy Oakes Forest Preserve has been made. Approval of our application for use, will come in January 2021. Denny, W9HI reported that 26 FRRL club members participated in the 2020 Filed Day event with a total of 16,000+ points submitted.

Announcements: It was brought to the memberships' attention that Jerry, KA9VMD has restored a Hallicrafters SX-62A for use by a recently licensed Amateur Radio Operator. This is a receive only radio. Jerry described some of the details and sweat that went in to restoring this radio. Thank-you Jerry, KA9VMD for taking on this project!!

Adjournment

The meeting was adjourned at 2015hrs CST.

Upcoming Events

December 20th- Newsletter Deadline

January 5th- BOD Meeting

January 12th- Membership Meeting

January 20th- Newsletter Deadline

January, K9IR , Paula Uscian will do the presentation "Summits on The Air" or SOTA.

February, Dick Illman AH6EZ will provide a discussion on the MMANA antenna modeling software. The package is free and uses a graphic interface to allow you to model your own antenna designs.

March, Our march program will be discussing the CWops operation and ways to attain or enhance your morse code skills.

Program

A presentation on HF Radio and Modulation by Rhode and Schwarz from a livestream last month. Presented by Denny, W9HI.

Respectfully submitted,

Dean Holste, KC9EOQ
FRRL Secretary

Mark Your Calendars !!



January 2021



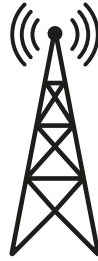
Fox River Radio League

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 	2 Kids Day RTTY Roundup
3 RTTY Roundup	4	5 BOD Meeting 1930 FRRL 2m Net	6	7	8	9
10	11	12 1930 FRRL Member Meeting (ZOOM)	13	14	15	16 January VHF
17 January VHF	18 →	19 1930 FRRL 2m Net	20 Newsletter Deadline	21	22	23
24	25	26 1930 FRRL 2m Net	27	28	29	30
31						
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 9pm 444.875 +5MHz, 114.8		



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





FCC to Require Email Addresses on Applications

Amateur radio licensees and candidates will have to provide the FCC with an email address on applications, effective in mid-2021. If no email address is included, the FCC may dismiss the application as defective. The FCC is fully transitioning to electronic correspondence and will no longer print or provide wireless licensees with hard-copy authorizations or registrations by mail. A Report and Order (R&O) on “Completing the Transition to Electronic Filing, Licenses and Authorizations, and Correspondence in the Wireless Radio Services” in WT Docket 19-212 was adopted on September 16. The new rules will go into effect 6 months after publication in the Federal Register, which hasn’t happened yet, but the FCC is already strongly encouraging applicants to provide an email address. When an email address is provided, licensees will receive an official electronic copy of their licenses when the application is granted.

Under Section 97.21 of the new rules, a person holding a valid amateur station license “must apply to the FCC for a modification of the license grant as necessary to show the correct mailing and email address, licensee name, club name, license trustee name, or license custodian name.” For a club or military recreation station license, the application must be presented in document form to a club station call sign administrator who must submit the information to the FCC in an electronic batch file.

Under new Section 97.23, each license will have to show the grantee’s correct name, mailing address, and email address. “The email address must be an address where the grantee can receive electronic correspondence,” the amended rule will state. “Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct email address.”





WINTERHEAT 2021



WINTERHEAT 2021 is a month long amateur radio simplex event.

The goal and purpose is for amateur radio operators to make as many contacts as possible over a month long period of time using only designated simplex frequencies..

- This is the second year for this event. In 2020 the event had **140 participants** making **6,500 contacts**.
- The event is open to all licensed amateur radio operators regardless of geographical location.
- This year the event will begin at 00:01 on January 1, 2021 (CST) and conclude at 23:59 (CST) on January 31, 2021.
- Contacts shall be made on designated simplex frequencies in the 2 meter, 6 meter and the 70cm amateur radio bands.
- All contacts shall be via voice but can be either analog or digital. For more information please see the event operating [guidelines](#) page.

<https://www.centralillinoishams.org/radioactive/winterheat/index.php>



RadioShack® is back as an online retailer of electronics.



RadioShack

It is offering some parts in its inventory that largely consists of radios, batteries, telephone gear, drones, computer accessories, and even cameras. The iconic company was recently purchased from General Wireless by Retail Ecommerce Ventures (REV). No plans are in place to reopen RadioShack-owned stores, although some 400 brick-and-mortar outlets are operated by franchisees.

On This Date In Amateur Radio History

December 19,1958

The first radio broadcast from space to transmit a voice to Earth occurred on December 19,1958, when President Eisenhower's Christmas message went out via short wave frequency. In pre-recorded message, the president wished for peace on Earth. The broadcast was from the US Army's Project SCORE (Signal Communications by Orbiting Relay Equipment) communications satellite, which was launched December 18 to compete with the Russians, who put Sputnik 1 and 2 into orbit more than a year earlier.



How to prevent ESD damage

By Dan Romanchik, KB6NU

Here are some tips from Keysight Technologies, one of the leading electronic test equipment companies, on how to prevent ESD from damaging your electronics.

USE A GROUNDED WRIST STRAP whenever you are handling equipment or boards. Using a grounded wrist strap prevents your body from building up charge and causing damage when this built-up charge discharges into your equipment or test boards. Make sure to connect that alligator clip to ground!

USE GROUNDED WORK SURFACES OR MATS for your boards. Do NOT use static generating or insulating materials as a work surface. Non-grounded mats and static generating/insulated materials can inductively charge boards, especially exposed ones. When connecting a charged board to equipment, the board can cause damage by discharging into the equipment's inputs.

KEEP CHARGED MATERIALS AT LEAST 0.3 METERS FROM EXPOSED ASSEMBLIES. This includes plastics, foam, or other materials that can build up charge. Having a charged material near an exposed assembly can inductively charge the assembly. The assembly can then discharge into the equipment's inputs.

DISCHARGE YOUR CABLES BEFORE CONNECTING THEM TO YOUR EQUIPMENT. Electrostatic charges can build up on test probes and test leads, so it's important to discharge them before connecting them to your test equipment:

- Ensure your device is off.
- Connect your cable to your device.
- Attach a 50 Ω shunt to the open end of the cable.
- Remove the shunt and immediately attach your device to your equipment. This prevents the center conductor of your cable from discharging stored charge into your equipment. A charged assembly can charge connected cables.

USE BOARD STANDOFFS AS NEEDED. In some situations, you need board standoffs to provide extra insulation for your exposed assemblies. This prevents your grounded mats from making unwanted connections on your board.

NEVER USE "PINK" PACKING MATERIAL FOR BOARD TRANSPORT OR AS A WORK SURFACE. While many people think pink packing material is ESD safe, in most cases it easily builds up unwanted charge. Unless continuous, thorough testing is done, treat pink packing materials as charged.

CAP UNUSED EQUIPMENT INPUTS to avoid accidental ESD and physical damage. Damage often occurs by accidentally contacting equipment inputs. Capping unused inputs protects them from incidental ESD damage.

USE ESD-SAFE BAGS WHEN TRANSPORTING BOARDS. This protects boards from ESD damage while moving between ESD-safe locations.



DO NOT OVERDRIVE EQUIPMENT INPUTS. Start your testing at the least sensitive input setting and zoom in on your signal. Additionally, observe the maximum input levels for your specific equipment. The least sensitive setting is the most resilient, so starting there ensures that your inputs are at safe operating levels

After I posted this to my blog, Dave, N8SBE offered some further tips. He writes:

Grounded heel straps also help reduce static charge. Test them with a floor tester every time you put them on. The floor needs to be somewhat conductive—not metal, that’s a safety hazard—so use conductive wax on tiles, or conductive carpet to drain of electrostatic charges.

Keep materials, such as styrofoam cups, that form electrostatic charges easily away from your workspace. A styrofoam cup can generate thousands of volts.

Keep the humidity up in the workspace. That helps to keep static generation down as well.

I like to think that I follow ESD-safe procedures, but there are a couple of things here that I hadn’t thought about before. For example, I’d never really thought about discharging test equipment cables before connecting them. I think that’s a good tip

To learn more, go to <https://www.keysight.com/find/PreventESD>

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Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the “No Nonsense” amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the IC-



The ARRL RTTY Roundup is January 2 - 3

The 2021 ARRL RTTY Roundup on January 2 - 3 features two new multioperator categories: multi-two (M2) and multi-multi (MM). Because M2 and MM are new categories, there are no existing records, so the high scores for these categories will, by default, become the new records. High scores are kept by US call area, ARRL Division, ARRL Section, Canadian Province, and DX entity. Visit the ARRL Contest web page to see the current ARRL RTTY Roundup all-time records.



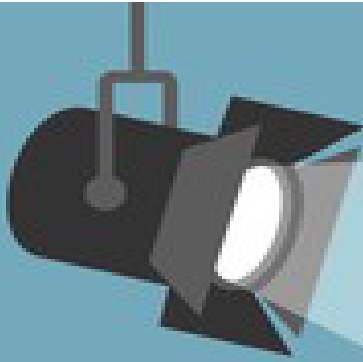
The Radio Society of Great Britain (RSGB) has announced a Get on the air for Christmas (GOTA4C) initiative, shared on social media with the hashtag #GOTA4C, December 19 - January 9. “[I]t will bring together a few activities that radio amateurs can participate in over the holiday period,” RSGB said.

Technician Question T5B04

5. How many volts are equal to one microvolt?

- () A. One thousand kilovolts
- () B. One one-millionth of a volt
- () C. One one-thousandth of a volt
- () D. One million volts





This months spot light is on Dan Harmon FRRL's one and only Treasurer !!

ARRL Life Member, Dan Harmon started his interest in radio as a Boy Scout with Radio Merit Badge. He was licensed in 1968 as WN9YKK and in 1970 advanced to General class and Advanced class license as WA9YKK. He now holds an Extra class license. He has a BS and MS degree Electrical Engineering with post graduate training at Carnegie Mellon University. After 40 plus years, Dan retired from AT&T and its subsidiaries where he worked as an engineer and technical manager. His main amateur radio interests are DX, antenna building, and kit building. In 2020 Dan was certified by the ARRL as a Volunteer Examiner. He currently serves on the Board of Directors as Treasurer of the Fox River Radio League (FRRL) and can be reached at WA9YKK@ arrl.net.



WELCOME !!

Call Sign	Name	License Class
N9RBK	Rick King	Technician
	Robert Neff	
K9NUD	Steven Thom	Advanced
K9GHP	Kenneth Jakle	General

Technician Question T1B02

6. Which amateur radio stations may make contact with an amateur radio station on the International Space Station (ISS) using 2 meter and 70 cm band frequencies?

- () A. Any amateur holding a Technician or higher-class license
- () B. Only the astronaut's family members who are hams
- () C. Contacts with the ISS are not permitted on amateur radio frequencies
- () D. Only members of amateur radio clubs at NASA facilities

Answers from last months questions

T5C06

3. What does the abbreviation "RF" refer to?

(X) D. Radio frequency signals of all types

T8A04

4. Which type of modulation is most commonly used for VHF and UHF voice repeaters?

(X) C. FM

