



ARC OVER



The Official Newsletter of the Fox River Radio League, Est. 1924
Our 95th Year in Amateur Radio!

Who We Are

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Past President:
Dennis Barfuss, W9HI

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Kermit Carlson, W9XA

License Trustee (W9NE):
David Booher, W9BOO

Education Chair:
Vacant

Newsletter Editor:
John Miller, W9JDM

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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The FRRL ArcOver Newsletter is published monthly by the Fox River Radio League, Inc. Submission deadline for all news articles, items, and information is the 3rd Tuesday of each month for inclusion by the next publishing date. Please submit any such requests to newsletter@frrl.org.

2019 Membership Dues

Regular Dues: \$30 | Family Dues: \$40 | Sr. Citizen / Active Military / Student (full time under 22): \$25
Repeater Support: \$10 donation

FRRL Dues and Repeater Support are payable no later than the January club meeting each year. New members joining during the year will have their first year's dues prorated to the nearest yearly quarter. Copyright © 2019, FRRL. Prior written permission is required to republish material present in the ArcOver.

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President's Traffic

From the President's Desk

By the time you are reading this, Field Day will be in the books. I am sure that Gordie AA5TN, Denny W9HI, and Dan WA9YKK will have conducted a great event for all those that attend. I would also like to thank the Moose for providing the food on Saturday.

I would also like to welcome Mike Bingham WX9SPL to the FRRL Board of Directors. Mike is filling an unfinished term that expires in December. My hope is that he will run again and that he will be elected to a full term.

If you were not at the Membership Meeting, the members unanimously approved the amendments to the Bylaws as published in the last

ArcOver. Thank you to the Bylaws Review Team and to the members that approved the changes.

We are going to start conducting a 50/50 raffle at our membership meetings starting in July. This was one of the recommendations from the floor on how to raise non-dues revenue. Additionally, we will be providing Amateur Radio related items for auction at our membership meetings. The idea will be to publish a list in the ArcOver prior to the meeting with a starting price. Then the items will be displayed at the meeting. We are not sure if it will be a silent auction or a more public spectacle. We are still working on the details of the auction.



Finally, we have a lot of great programs coming up, so come out to our meeting on July 9th and let's have an eyeball QSO.

-Dan W9STS

Test Your Knowledge!

Each month the ArcOver will post 3 Exam Test Pool Questions to challenge you - one from each of the Technician, General, and Extra Class License Exams. Answers will be hidden throughout the ArcOver.

Technician - T2A10

What is a band plan, beyond the privileges established by the FCC?

- A. A voluntary guideline for using different modes or activities within an amateur band
- B. A mandated list of operating schedules
- C. A list of scheduled net frequencies
- D. A plan devised by a club to indicate frequency band usage

General - G3C01

Which ionospheric layer is closest to the surface of Earth?

- A. The D layer
- B. The E layer
- C. The F1 layer
- D. The F2 layer

Extra - E1A04

With your transceiver displaying the carrier frequency of phone signals, you hear a DX station calling CQ on 3.601 MHz LSB. Is it legal to return the call using lower sideband on the same frequency?

- A. Yes, because the DX station initiated the contact
- B. Yes, because the displayed frequency is within the 75 meter phone band segment
- C. No, the sideband will extend beyond the edge of the phone band segment
- D. No, U.S. stations are not permitted to use phone emissions below 3.610 MHz



Member Traffic

A place for you, our FRRL members, to come share your thoughts, voice your opinions, and talk about any topics that may be of general interest to the FRRL club or Amateur Radio in general.



Louis Petkus K9LU (of Batavia, IL) passed away Monday June 17, 2019 at the age of 77. Lou had a heart attack on June 15 and was taken to Delnor Hospital in Geneva. He never regained consciousness while at the hospital.

Lou was first licensed (Novice class) KN9LUW in 1958, soon became K9LUW (General), and later an Extra Class. In 1997, Lou changed his callsign from K9LUW to K9LU.

Lou was a life member of the Fox River Radio League (*ed. note: Lou had been a continuous FRRL member since 1957*). He did not often attend meetings in recent years. This was largely due to extensive travels and other activities - including many RV Rallies and photography trips.

Lou was very active in the FRRL for many years. I don't recall exactly, but I think he served the FRRL in various officer positions - including club president. For many years, Lou handled the monthly raffles at meetings as well as handling prizes for annual Christmas party

meetings for the club. Lou was also FRRL Ham of the Year in 1987 (K9LUW) and 1999 (K9LU).

Lou was a very gifted and talented person — in ham radio and other areas as well. He contributed a lot to the Fox River Radio League. He also helped me a lot on multiple ham radio projects — including tower installations. He was a great, lifelong friend, and I will miss him a lot.

Respectfully,
Gary Hornbuckle, K9MMS

~

Dear All,

I am looking for a volunteer to fill the vacant Education Chair position. In the past few years, we have consistently run Tech, General, and Extra classes, and this is a key part of maintaining our ARRL Special Service Club designation. This

responsibility would include booking an appropriate venue, breaking down the book into classes (typically by chapter from the ARRL License Manuals), and scheduling instructors. Luckily, we have quite a few talented individuals in our club who have either taught in the past or who might be willing to teach in the future.

If you are interested in volunteering, please see me at a club meeting or email me at director2@frrl.org.

73, John W9JDM

New Members

Please welcome our newest members to the club!

| Call | Name | License Class |
|--------|-----------------|---------------|
| KD9NIH | Allen Lanham | Technician |
| KD9NIG | Rubin Noceda | Technician |
| KC9NZW | Clifford Speare | Technician |

In Memoriam (Silent Keys)

| Call | Name | Location |
|------|--------------|-------------|
| K9LU | Louis Petkus | Batavia, IL |



Upcoming Events

Come join us at an event - some are on the airwaves, and some are in person.

This format is designed to be easy to print and hang on your fridge.

| JULY 2019 | | | | | | | | |
|-----------|----|--------|----|----|----|----|---|----|
| S | M | T | W | T | F | S | | |
| | 1 | B N | 2 | 3 | 4 | 5 | C | 6 |
| 7 | 8 | M | 9 | 10 | 11 | 12 | C | 13 |
| 14 | 15 | N | 16 | 17 | 18 | 19 | C | 20 |
| 21 | 22 | N | 23 | 24 | 25 | 26 | T | 27 |
| 28 | 29 | N | 30 | 31 | | | | |

| AUGUST 2019 | | | | | | | |
|-------------|----|--------|----|----|----|----|----|
| S | M | T | W | T | F | S | |
| | | | | 1 | 2 | 3 | |
| 4 | 5 | B N | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | M | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | N | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | N | 27 | 28 | 29 | 30 | 31 |

| SEPTEMBER 2019 | | | | | | | |
|----------------|----|--------|----|----|----|----|----|
| S | M | T | W | T | F | S | |
| 1 | 2 | B N | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | M | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | N | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | N | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | | |

B July 2: Board Meeting

- 7:00PM
- Colonial Cafe in Aurora, Ill.

N July 2, 16, 23, 30: Regular FRRL Net

- 7:30PM
- W9CEQ 2M Repeater

C July 6, 13, 20: Technician Class

- 9am-noon
- Golden Corral in Aurora, Ill.

M July 9: Member Meeting

- 7:30PM
- Bethany Lutheran Church in Batavia, Ill.
- Program: John KC9OJV
Fredbox 2M QRP Transceiver

T July 27: VE Testing

- 9:00AM
- Golden Corral in Aurora, Ill.

B August 6: Board Meeting

- 7:00PM
- Colonial Cafe in Aurora

N August 6, 20, 27: Regular FRRL Net

- 7:30PM
- W9CEQ 2M Repeater

M August 13: Member Meeting

- 7:30PM
- Bethany Lutheran Church in Batavia, Ill.
- Program: Harry K9DXA
I've Got a License, Now What?

B Sept. 3: Board Meeting

- 7:00PM
- Colonial Cafe in Aurora, Ill.

N Sept. 3, 17, 24: Regular FRRL Net

- 7:30PM
- W9CEQ 2M Repeater

M Sept. 10: Member Meeting

- 7:30PM
- Bethany Lutheran Church in Batavia, Ill.
- Program: Dan WA9YKK
Wire Antenna Design



Event Information

If you have an idea for an event, or would like to share details on an upcoming event, please reach out to John W9JDM at director2@frrl.org or Priscilla AE9PM at director3@frrl.org.

Technician Class

The Fox River Radio League (FRRL) is joining together with the Bolingbrook Amateur Radio Society (BARS) to co-present an Amateur Radio Technician Class license training course this summer.

This course is a FREE 10 week course where you will learn everything you need to receive your new Amateur (Ham) Radio Technician Class FCC radio license.

This class is designed for people who are new to the hobby, and are interested in finding out more about the world of the Amateur Radio. There is no prior license required. There is no age limit. There is only the need of interest in the Ham Radio hobby, and a willingness to learn. Be prepared for both interactive, group and individual study. There will be a VE test license exam on the last week of the course. ANYONE is invited to join the class or "sit in" as a refresher.

For more information and to sign up, please visit frrl.org/education.

Ham and a Sandwich

If you are interested in spending some time with others interested in ham radio face-to-face, this is the event for you! Keep an eye out on the groups.io message board or an ear out on the weekly net for the next event. These will be planned on fairly short notice to best accommodate the weather.



Field Day

Field Day was held this year on June 22-23 at LeRoy Oakes Forest Preserve. Thankfully, the weather (mostly) held out on Saturday and Sunday and a great time was had by all. A huge thank you to the local chapter of Moose International for providing the delicious food on Saturday this year. Expect a full write-up in next month's ArcOver.



Repeater Information

Club sponsored or club affiliated local repeaters are listed below.

KC9OEM 2M

- 145.470 MHz, -600 KHz offset
- 103.5 Hz tone
- Net: Wed. 6:30PM
- Owned by Kane Co. OEM

W9CEQ 2M

- 147.210 MHz, +600 KHz offset
- 103.5 Hz tone
- Net: Tues. 7:30PM (except second Tues. of month)
- Owned by FRRL

W9CEQ 70CM

- 444.300 MHz, +5 MHz offset
- 114.8 Hz tone
- IRLP #4850, Echolink #230933
- Owned by FRRL

W9CEQ_B D-Star 70CM

- 442.10625 MHz, +5 MHz offset
- Contact W9XA for information

W9CEQ_C D-Star 2M

- 147.225 MHz, +600 KHz offset
- Net: 8:00PM Wed.
- Contact W9XA for information

W9XA/R Batavia 1.25M

- 224.4 MHz, -1.6 MHz offset
- 114.8 Hz tone
- Owned by W9XA

W9XA/R Batavia 23CM

- 1292.00 MHz, -20 MHz offset
- 114.8 Hz tone
- Owned by W9XA

WB9PHK/R 70CM DMR

- 443.64375 MHz, +5 MHz offset
- Chicagoland-CC Bridge
- Owned by W9XA

More repeater information can be found at frrl.org/repeaters.

Technician - T2A10

What is a band plan, beyond the privileges established by the FCC?

A. A voluntary guideline for using different modes or activities within an amateur band

Meeting Minutes June 11, 2019

Minutes of the Regular Meeting of the General Membership of the Fox River Radio League (FRRL), an Illinois not-for-profit Corporation. Held at Bethany Lutheran Church, Batavia, Ill.

The meeting was called to order at 19:30 CDT by President Dan W9STS. Audience introductions: Name, Call, QTH and "Give us an idea for non-dues related revenue"?

Approval of May 2019 Member Meeting minutes: Motion was moved, seconded and accepted. There were 41 people present at this meeting.

Reports

Treasurer's Report

Dan WA9YKK

Dan reported the balances as of 06/02/2019.

Field Day/Repeater

Jim N9XP

Dave N9XU is looking for new net control operators. Everything is operational on the repeaters.

Classes/Programs/VE

John W9JDM

John gave the current status of the Education Classes and upcoming VE Sessions. Students in the current Tech Class are scheduled to visit the GOTA tent during Field Day. Club programs have been booked through September.

Outreach/Newsletter/PR

Priscilla AE9PM

CAP class going well. There are 17 students. Newsletter articles are due on 3rd Tuesday of the month



and the ArcOver publish date is the 4th Tuesday of the month. John W9JDM is new ArcOver Editor. PR is now handled on an individual basis. The ball game was cancelled due to lack of interest. New ideas are always needed for new activities.

Tech/Membership/Groups.io

Chris KC9BKS

The current member count is 127. There are 83 members enrolled in groups.io.

ARES

Debby WX9VOR

No report. Visit the website at <http://kanecountyares.org> or see Debby for further specific details on any event happening with ARES.

General - G3C01

Which ionospheric layer is closest to the surface of Earth?

A. The D layer

Repeater Report

Kermit W9XA

No report.

Old Business

Vote on Bylaws Amendments. A motion was entered and seconded to bring the Bylaws discussion back to table. A motion to approve the Bylaws was entered and seconded. The motion passed.

Vote on Replacement Board Member

A motion was received and seconded to call for a vote for Mike WX9SPL to fill the vacant Director Board position. The membership approved the vote.

Webmaster/Groups.io Manager

Curt W9YNP has volunteered to be the Manager.





Come join the camaraderie at one of our monthly meetings! The social hour following the business portion is a great opportunity to meet your fellow hams.

New Business

Non-dues Related Income

Options discussed:

- 50/50 raffle
- Equipment sales/auction at membership meetings

An additional list was gathered during the introduction round with more ideas from the members. The Board will review.

Extra - E1A04

With your transceiver displaying the carrier frequency of phone signals, you hear a DX station calling CQ on 3.601 MHz LSB. Is it legal to return the call using lower sideband on the same frequency?

C. No, the sideband will extend beyond the edge of the phone band segment

Announcements

Marty N9NTM mentioned several activities in the area.

Upcoming Events

- June 8th, 15th and 29th Technician Classes
- June 9th and 30th CAP Technician Classes
- June 21st-23rd Field Day
- July 2nd Board Meeting
- July 9th Membership Meeting

Program

Field Day – Gordie AA5TN.

Adjournment

A motion was received, seconded and carried to adjourn the meet-

ing. The member meeting was adjourned at 20:05 CDT.

Respectfully submitted,
David Booher W9BOO
FRRL Secretary





ARRL News

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ARRL Executive Committee Establishes Ad Hoc Committee on Communications

Meeting right after Dayton Hamvention® at the University of Dayton on May 20, the ARRL Board's Executive Committee (EC) adopted a motion to establish an Ad Hoc Committee on Communications with ARRL Members. The panel would review ARRL communications with members and members' perceptions to "consider areas needing enhancement," and it would "propose concrete changes in communication processes and methods by which improvements may be accomplished," according to the resolution. ARRL Vice President Greg Widin, K0GW, will chair the committee.

ARRL Files Interim Report with FCC in "Symbol Rate" Proceeding

ARRL has filed an interim report with the FCC in order to report on its efforts to find common ground regarding issues surrounding the "symbol" or "baud" rate proceeding, FCC Docket WT 16-239 (the FCC has issued a Notice of Proposed Rulemaking in WT 16-239, which stemmed from ARRL's rulemaking petition RM-11708). ARRL highlighted that the public benefits from the FCC's "fairly flexible" regulation of Amateur Radio, citing innovative developments in digital technology, including WSJT-X.

Noting that more than 1,400 comments in total have been filed in this and on a related rulemaking petition (RM-11831), ARRL point-

ed out that, as in other Commission-regulated areas, adapting current regulations to rapidly evolving technology presents challenges that may require adjustments to, or clarifications of, the governing regulations. Making such adjustments can be a challenge to ensure that valid regulatory purposes continue to be served without hindering technological change and innovation in the process.

LightSail 2 Set to Launch on June 22

The Planetary Society's citizen-funded LightSail 2 solar-propelled spacecraft is set to launch on June 22 on board a SpaceX Falcon Heavy. It will attempt the first controlled solar sail flight in Earth orbit. LightSail 1 successfully completed its test flight mission in 2015. LightSail® is aimed at testing "solar sailing" technology for CubeSats, which comprise many Amateur Radio satellites. According to the Planetary Society, solar sailing uses reflective sails to harness the momentum of sunlight for propulsion. "One disadvantage to CubeSats is that they typically lack propulsion, which limits their range of applications," The Planetary Society says.

"LightSail will demonstrate the viability of using solar sailing for CubeSats."

Scientific collaboration between The Planetary Society and Russia led to the creation of Cosmos 1, a solar sail spacecraft launched aboard a repurposed ICBM. But test flights in 2001 and 2005 failed due to problems with the launch vehicle. The first successful solar sail was launched by Japan in 2010, when the IKAROS spacecraft was deployed from a Venus-bound space probe. NASA has looked into using solar sails to de-orbit CubeSats with atmospheric drag, and its Nanosail-D2 mission in 2010 was successful. The Planetary Society's LightSail program was initiated a year earlier. It aimed to construct a CubeSat similar to Nanosail-D that would demonstrate true solar sailing. LightSail 1 snagged a slot aboard an Atlas V launch in 2015, but the target orbit was not high enough for solar sailing thrust to overcome atmospheric drag. The Planetary Society accepted the free ride anyway and successfully tested the spacecraft's sail deployment mechanism.

