



ARC OVER

May 2020 Edition



The Official Newsletter of the Fox River Radio League, Est. 1924
Our 96th Year in Amateur Radio!

Who We Are

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Vice President:
Roger Bara, W9YU

Secretary:
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Treasurer:
Dan Harmon, WA9YKK

Directors:
Terry Todd, W9AUV
Vacant
Vacant
David Booher, W9BOO

Past President:
Dan Taddei, W9STS

License Trustee (W9CEQ):
Kermit Carlson, W9XA

License Trustee (W9NE):
David Booher, W9BOO

Newsletter Editor:
Vacant

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.

2020 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 © 2020, 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

Hello club members. If you didn't make the April Zoom meeting you missed some great input from Central Division Director Kermit Carlson, W9XA updating us on what's new at ARRL. Look for an email announcement for the May Zoom meeting and join us. That is of course if we are in the same course we are doing right now with Covid-19.

The club is in need of two Directors for the club. If you have ever considered or will consider serving on the Board of Directors for the

FRRL club please contact me. My cell (563)543-3083 or at president@frrl.com please consider serving. Also, we are in need of a Newsletter editor and if you are interested in this position you may contact me on this as well.

Field Day is coming up and we do need band captains. Terry, W9AUV, is your Field Day Chair please contact him if you are interested in being a band captain and if you would like to operate during Field Day. This is an excellent time for you to get some experience on HF



and have a mentor right there with you to help in needed.

I hope all of you are being safe and wish to see you soon. Stay Radioactive!

73, Gordie KW0E

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 - T4A01

What must be considered to determine the minimum current capacity needed for a transceiver's power supply?

- A. Efficiency of the transmitter at full power output
- B. Receiver and control circuit power
- C. Power supply regulation and heat dissipation
- D. All of these choices are correct

General - G4A01

What is the purpose of the "notch filter" found on many HF transceivers?

- A. To restrict the transmitter voice bandwidth
- B. To reduce interference from carriers in the receiver passband
- C. To eliminate receiver interference from impulse noise sources
- D. To enhance the reception of a specific frequency on a crowded band

Extra - E4A01

Which of the following parameter determines the bandwidth of a digital or computer-based oscilloscope?

- A. Input capacitance
- B. Input impedance
- C. Sampling rate
- D. Sample resolution



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.

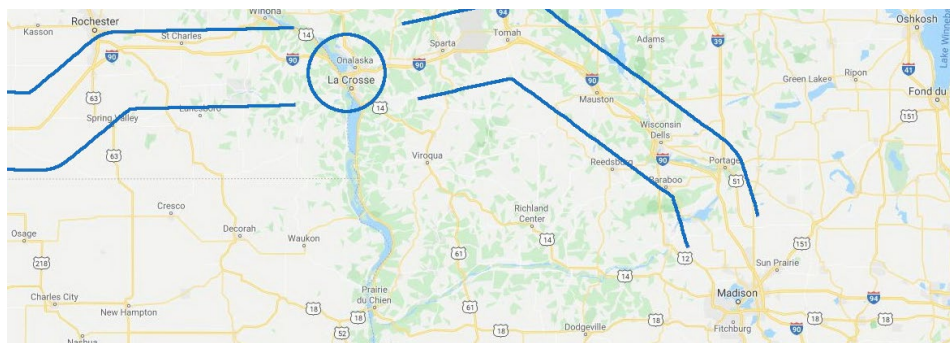
Greetings VHF+ Operators,

As this year's Conference President, I, along with the Conference's host team, cordially invite you to attend the 54th annual Central States VHF Society Conference, which is being held at the Radisson Hotel located on the beautiful riverfront of the Mississippi River in La Crosse, Wisconsin on July 24th and 25th, 2020.

This year's event will have all the great activities you've come to expect from a CSVHFS Conference: technical presentations, antenna range, noise figure lab, rover row and dish bowl, Thursday evening social activity, Friday evening trade-fest, dealer room, hospitality suite for evening socializing, fun family activities, and a closing banquet with a guest speaker and a prize table.

If you have never been to a CSVHFS conference before, you will find it a great event where you will learn many new things, meet new people, and connect with others you have talked to on-the-air. If you are new to VHF-and-above operating, you will want to be sure to attend the perennial favorite, VHF 101, an alternate track talk designed to get new VHFers successfully on the air. One thing we are certain of: if you attend the CSVHFS conference, you will go home reinvigorated about operating and experimenting on the bands above 50 MHz!

We are sending this letter out early



in the new year so that you can make time in your busy summer schedule to attend. From past experience, most attendees arrive on Thursday (July 23rd) and depart on Sunday (July 26th). Hotel accommodations at the special conference rate will be available beginning around February 1st. Registration for the conference will open around May 1st. Be sure to visit the conference website at <http://2020.csvhfs.org/> for ongoing updates and further information.

We look forward to seeing you in La Crosse in late July!

73, Bruce Richardson W9FZ
CSVHFS President

Hi Everyone,
This will be my last month as editor of the ArcOver. Thank you for the opportunity, and I hope everyone is staying sane during these crazy times!

73, John Miller W9JDM

Extra - E4A01

Which of the following parameter determines the bandwidth of a digital or computer-based oscilloscope?
C. Sampling rate

New Members

Please welcome our newest members to the club!

Call	Name	License Class
K9VYH	John Ceinski	General
K9VQA	Ronald Jahr	Amateur Extra

In Memoriam (Silent Keys)

Call	Name	Location



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.

MAY 2020						
S	M	T	W	T	F	S
					1	2
3	4	B N	6	7	8	9
10	11	M	13	14	15	16
17	18	N	20	21	22	23
24	25	N	27	28	29	30
31						

JUNE 2020						
S	M	T	W	T	F	S
	1	B N	3	4	5	6
7	8	M	10	11	12	13
14	15	N	17	18	19	20
21	22	N	24	25	E 26	E 27
E 28	29	N 30				

JULY 2020						
S	M	T	W	T	F	S
			1	2	3	4
5	6	B N	8	9	10	11
12	13	M 14	15	16	17	18
19	20	N 21	22	23	24	25
26	27	N 28	29	30	31	

BMay 5: Board Meeting

- 7:00PM
- Zoom Video Conference

NMay 5, 19, 26: Regular FRRL Net

- 7:30PM
- W9CEQ 2M Repeater

MMay 12: Member Meeting

- 7:30PM
- Zoom Video Conference
- Program: Distracted Driving Laws and Amateur Radio, Ron KD9IPO and Jim W9JGH

BJun. 2: Board Meeting

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

NJun. 2, 16, 23, 30: Regular FRRL Net

- 7:30PM
- W9CEQ 2M Repeater

MJun. 9: Member Meeting

- 7:30PM
- Bethany Lutheran Church in Batavia, Ill.
- Program: Field Day Planning, Terry W9AUV

EJun. 26-28: Field Day

- Start time TBD
- Leroy Oakes Forest Preserve, St. Charles

BJuly 7: Board Meeting

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

NJuly 7, 21, 28: Regular FRRL Net

- 7:30PM
- W9CEQ 2M Repeater

MJuly 14: Member Meeting

- 7:30PM
- Bethany Lutheran Church in Batavia, Ill.
- Program: Members Show-and-Tell Fair with 1-2 Demos per Table

Technician - T4A01

What must be considered to determine the minimum current capacity needed for a transceiver's power supply?

D. All of these choices are correct



Event Information

If you have an idea for an event, or would like to share details on an upcoming event, please reach out to frllboard@frll.org.

MS Walk 2020

The 2020 MS Walk has been cancelled per the National MS Society.

Local Area Nets

Bored at home due to COVID-19? Keep in touch with your local hams! Repeater information is listed in the right column. Take a look at some of the nets in the local area (sorted by band and then alphabetical after that):

- (10M) Central IL Radio Club Net. Tuesdays at 8:30PM on 28.450 USB.
- (10M) Motorola ARC Net. Tuesdays at 9PM on 28.460 USB.
- (10M) Ten-Ten City of Lights Net. Mondays at 8PM (CW net) on 28.150 and 8:30PM (phone net) on 28.720.
- (6M) Plainfield Radio League 6M Net. 1st, 2nd, 3rd Wednesdays at 7:30PM on 50.200 USB.
- (6M) SMCC Weekly Roundtable. M-F at 8PM on 50.130 MHz USB.
- (2M) BARS Anti-Viral Net. Daily at 7:30PM (Fridays - 7:00PM) on K9BAR repeater.
- (2M) BARS Weekly Net. Thursdays at 8PM on K9BAR repeater.
- (2M) CSRA Weekly Net. Mondays at 7:30PM on CFMC repeater.
- (2M) DARC Lunch Net. M-F at noon on DARC 2M repeater.
- (2M) DARC Weekly Net. Sundays at 9PM on DARC 2M repeater.

- (2M) FRRL Weekly Net. Tuesdays at 7:30PM (except member meetings) on W9CEQ repeater.
- (2M) Kane County OEM Net. Wednesdays at 6:30PM on KC9OEM repeater.
- (2M) KARC Weekly Net. Mondays at 8:30PM on WA9CJN repeater.
- (2M) SARC Weekly Net. Thursdays at 8PM on K9IHK repeater.
- (2M) SW Astronomy Observers Group Net. Thursdays at 8:30PM on DARC 2M repeater.
- (2M) VARA Weekly Net. Mondays at 8PM on WA9RBQ repeater.
- (2M) WCRA Weekly Net. Sundays at 8PM on WCRA repeater.
- (70CM) DARC SSTV Net. Sundays at 8PM on DARC 70CM repeater.

For more net information, please visit <http://www.arrl.org/resources/nets/>. This page can be searched by state, day of the week, and band (including HF).

Repeater Information

- W9CEQ 2M
 - 147.210 MHz, +600 KHz offset
 - 103.5 Hz tone
- W9CEQ 70CM
 - 444.300 MHz, +5 MHz offset
 - 114.8 Hz tone
 - IRLP #4850, Echolink #230933
- 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
 - Contact W9XA for information
- CFMC 2M
 - 146.760 MHz, +600 KHz offset
 - 107.2 Hz tone
- DARC 2M
 - 145.430 MHz, -600 KHz offset
 - 107.2 Hz tone
- DARC 70CM
 - 442.550 MHz, +5.0 MHz offset
 - 114.8 Hz tone
- K9BAR 2M (linked to 70CM)
 - 147.330 MHz, +600 KHz offset
 - 107.2 Hz tone
- K9BAR 70CM (linked to 2M)
 - 443.525 MHz, +5 MHz offset
 - 114.8 Hz tone
- KC9OEM 2M
 - 145.470 MHz, -600 KHz offset
 - 103.5 Hz tone
- SARC 2M
 - 145.23 MHz, -600 KHz offset
 - 107.2 Hz tone
- WA9CJN 2M
 - 146.730 MHz, -600 KHz offset
 - 100 Hz tone
- WA9RBQ 2M
 - 146.790 MHz, -600 KHz offset
 - 107.2 Hz tone
- WCRA 2M
 - 145.310 MHz, -600 KHz offset
 - 107.2 Hz tone

General - G4A01

What is the purpose of the “notch filter” found on many HF transceivers?

B. To reduce interference from carriers in the receiver passband



Meeting Minutes April 7, 2020

Minutes of the Regular Meeting of the General Membership of the Fox River Radio League (FRRL), an Illinois not-for-profit Corporation. Held virtually via Zoom video conferencing.

There were 38 members present via video conference for this meeting.

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

President Dailey advised the members present that there are two Director openings on the FRRL Board. There is also an opening for Newsletter Editor. He thanked Priscilla Miller, AE9PM and John Miller, W9JDM for their service to the club.

Approval of March 2020 Member Meeting minutes: It was moved, seconded and accepted.

Reports

Treasurer's Report

Dan WA9YKK

Reported the account balances as of 04-06-2020.

Repeater

Terry W9AUV

Report will be given under New



Business.

Tech/Membership/Groups.io

Dave W9BOO

Chris KC9BKS reported 96 active members as of April 6th.

Director: OPEN

Director: OPEN

ARES

Marty, N9NTM

They are also using Zoom for their monthly meetings.

Repeater Report

Kermit W9XA

See New Business

Old Business

March Dinner/Meeting

Twenty-seven members and guests in attendance. Good food and good conversations!

Build-a-thon

On hold for now.

New Business

Field Day

Terry, W9AUV will be reaching out to members to volunteer for set-up, band captains, and volunteers to man the tents.





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.

Monthly Meetings

Until further notice all BOD and monthly meetings will be held using Zoom.

Board of Directors

President Dailey, KW0E informed the members that there are two openings for a Director and an opening for a Newsletter Editor.

Repeater Update

Kermit, W9XA updated the members on the status of moving the VHF & UHF repeaters to a 450 ft tower in Plano. He displayed coverage maps for both sites showing

the TX/RX patterns of each site.

The Repeater Board will update the members as they move forward.

Announcements

NONE

Upcoming Events

May 5th- BOD Meeting via Zoom

May 12th- Membership Meeting via Zoom

Program

Kermit Carlson, W9XA our ARRL Central Division Director updated the membership on the recent actions of the ARRL Directors meet-

ing held on January 17-18, 2020.

Adjournment

On the motion and second, the meeting was adjourned at 2045 CST.

Respectfully submitted,
Dean Holste, KC9EOQ
FRRL Secretary





ARRL News

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ARRL, AMSAT Seek “Relatively Minor Changes” In FCC Orbital Debris Mitigation Proposals

On April 8, ARRL Washington Counsel Dave Siddall, K3ZJ, and AMSAT-NA Executive Vice President Paul Stoetzer, N8HM, discussed with senior FCC International Bureau staff by telephone the FCC’s draft Report & Order (R&O) on mitigation of orbital debris (IB Docket No. 18-313). The amateur representatives told the FCC staff that “two aspects of the draft regulations are of particular concern... and would seriously hinder amateur radio’s future operations in space, if adopted as proposed without the relatively minor changes that we propose.”

First, ARRL and AMSAT requested a revision to proposed language that otherwise would allow only private individual licensees to indemnify the US for the operations of an amateur space satellite. ARRL and AMSAT requested that satellite owners be added to that provision. The amateur representatives, noting that amateur radio licensees may only be individuals under the amateur rules, stated that “[i]n no other service would an individual be required to personally make a similar indemnification” and that “it would be difficult to impossible to find an individual amateur radio

licensee willing to bear that risk.”

Second, ARRL and AMSAT asked the FCC to delay by 3 years the proposed effective date of April 23, 2022, for a rule that would require satellite operators to certify that space stations “be designed with the maneuvering capabilities sufficient to perform collision avoidance” for spacecraft designed to operate above 400 kilometers in altitude. Citing the long lead times to design and construct amateur satellites, ARRL and AMSAT suggested that a more reasonable date would be April 23, 2025 and noted that, based on recent past years, only an estimated three amateur satellites likely would be launched during the extra period.

ARRL Suggests Taking a Creative Approach to Field Day 2020

This year, ARRL Field Day promises to be a unique iteration of this annual event, with many individuals and groups coming up with new and interesting ways to adjust their approach. As an event, Field Day is structured to be versatile and can be adapted for any situation.

Many groups have asked how they can adjust their Field Day planning to address social-distancing guidelines that may be in effect in many areas of the country, as gathering at their traditional Field Day site may not be feasible or safe. Instead of participating in a group event this year, consider operating as a Class B, C, D, or E station, utilizing your own call sign.

ARRL will include club names for all participating stations in the published results, so the efforts of your club’s members can be acknowledged. While we will not publish an aggregate club score, seeing the name of your club associated with various individual member’s results is certainly a way to highlight your club’s activity.

Myriad opportunities are possible in this year’s Field Day setting. A few options are as follows:

Consider having an intra-club competition among members, seeing who can make the most contacts during the event. You can award prizes or distribute certificates at a club meeting. This can be a fun way to bolster the activities of individual club members, even though they cannot all gather together at the same location this year.

Set up a Field Day Challenge with rival clubs in neighboring communities. See how many members of each club get on the air from their own stations and participate in the event. In addition to “bragging rights,” perhaps certificates to the top-scoring individual entries in each category can be presented as part of this inter-club camaraderie.

