



# ARC OVER



The Official Newsletter of the Fox River Radio League  
Since 1924

Our 94th Year in Amateur Radio!

December 2018



Proud to be an ARRL  
Special Service Club

**NEXT — Membership Meeting:**

Tue - Dec 11, 2018 @ 7:30 PM  
Bethany Lutheran Church in  
Batavia, IL

**NEXT — VE Test Session:**

Sat - Dec 8, 2018 @ 9:00 AM  
Golden Corral, in Aurora  
4270 E New York St, Aurora, IL

Tue - Jan 15, 2019 @ 7:00 PM  
Messenger Library, in  
North Aurora, IL

**NEXT — Board Meeting:**

Wed - Jan 2, 2019 @ 7:00 PM  
Colonial Café, in Aurora, IL

**FRRL - Elections & Holiday Party**

Elections for the 2019 Officers & Board of Directors

**Tuesday — Dec. 11, 2018 - Meeting**

*Holiday Party Activities Include:*

- ◆ Annual Food Drive - please bring non-perishable food items
- ◆ Treats to Share - bring a snack /desert to pass around & enjoy
- ◆ Holiday Grab Bag - if you bring a bag—you take home a bag  
*Please make it something from your shack you no longer need, or is just collecting dust - something someone else would enjoy.*



**ANNUAL WINTER BANQUET**

**TUESDAY — JANUARY 8, 2019**

**BETHANY LUTHERAN CHURCH - 6:30 PM — 9:30 PM CST**



*Menu: Chicken Lemon & Pork Tenderloin - Oven Roasted Potatoes, Corn Nibbles, House Salad, Dinner Rolls & Dessert: Ice Cream Sundae Bar or Sugar Free Pudding*

**FRRL Members & Family Ticket Prices:**

**Advanced Ticket Sales \$20 (until on Dec 31) - Children under 12 FREE**

Limited Tickets at the Door \$25 — Non-Member Tickets are \$35

Tickets are available at Nov & Dec Meetings or Purchase & Print them online at the FRRL website: <http://www.frll.org/banquet.php>

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**2019 Extra Class**



AMATEUR RADIO GENERAL CLASS  
Course is co-presented by FRRL & BARS:



**2019 Extra Class - Scheduled Dates**

**Class Dates: January 19 -thru- March 23 2019**

Looking to Upgrade to Extra — Now is the time to plan and do it in 2019.

*We still need Class Instructors, if you are interested please contact:*  
Cyndi - K9NAX @ [pr@frll.org](mailto:pr@frll.org) -or- Lance - W9QB @ [Director4@frll.org](mailto:Director4@frll.org)

## About the FRRL

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.

FRRL sponsors: Training Classes for new Ham Radio Operators, License Examination Sessions, and participate in other various local Public Service Events. If you have a specialized amateur radio interest, chances are you share it with one or more of our club members.

The **Fox River Radio League** meets on the **2nd Tuesday** of every month at **Bethany Lutheran Church**, located at: **8 S. Lincoln St.** in **Batavia, IL**. 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.

Please welcome our newest members to the club!

CALL	NAME	LICENSE CLASS
KG6RVX	Tim Saddler	General
KB1PVO	Aaron Nighelli	Technician
KD9MBA	Stephen Peters	Technician
KD9LZS	David Tejada	Technician
KD9MAZ	Robert Peters	Technician

In Memorandum / Silent Keys

CALL	NAME	LOCATION

### ArcOver FRRL Newsletter

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The **FRRL ArcOver Newsletter** is published Monthly by the Fox River Radio League Inc. Any and all Amateur Radio Articles, Information and Letters are *always* welcome! Deadline for articles, materials and information is the **20th of each Month** in order to be included in the *Next Month's ArcOver* newsletter. News Articles and Information can be sent - by email to: [newsletter@frrl.org](mailto:newsletter@frrl.org) - or via the U.S. Postal Service Mail to: FRRL Newsletter PO Box 673 Batavia, IL 60510.

Contact the Newsletter Editor for details and submission guidelines.

Prior permission is required to republish original ArcOver material.

*The opinions expressed within the ArcOver newsletter are strictly those of the article authors and do not necessarily represent the opinions of the FRRL Inc., its sponsors or the ArcOver newsletter editor.* - FRRL ArcOver Newsletter Editor: Cyndi M Gillies, K9NAX

## Fox River Radio League

Founded 1924

### Mailing Address:

P. O. Box 673  
Batavia, Illinois 60510-0673

Email: [info@frrl.org](mailto:info@frrl.org)

Web Site: <http://www.frrl.org>

### President:

Daniel Taddei, W9STS

### Vice President:

Roger Bara, W9YU

### Secretary:

David Booher, W9BOO

### Treasurer:

Dan Harmon, WA9YKK

### Directors:

- 1 - Jim Nevitt, Jr., N9XP
- 2 - Jason Burzynski, NX9Y
- 3 - Allen Nelson, KB9VO
- 4 - Lance Clarke, W9QB

### Past President:

Dennis Barfuss, W9HI

### License Trustee:

Kermit Carlson, W9XA

### Newsletter / Facebook Editor:

Cyndi Gillies, K9NAX  
[newsletter@frrl.org](mailto:newsletter@frrl.org)

### Webmaster:

Chris Kennell, KC9BKS  
[webmaster@frrl.org](mailto:webmaster@frrl.org)

FRRL Annual Dues 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.

### 2019 Membership Dues:

**Regular Dues - \$30. - Family Dues - \$40.**  
Sr. Citizen - \$25. - Active Military - \$25. -  
Student (full time under 22) - \$25. a year.

Members can help support FRRL Repeaters by making an annual \$10. donation.

For more information visit our website:  
<http://www.frrl.org/membership.php>

# License Exam - Test Pool Questions:



Good Luck!

The ArcOver is going to test your knowledge...

Each month the ArcOver will post 3 Exam Test Pool questions to challenge you.  
One question from each of the Technician, General, and Extra Class License exams.

*(Keep a look out while reading the ArcOver, to find the Answers)*

## Technician Class

T2B06

What type of tones are used to control repeaters linked by the Internet Relay Linking Project (IRLP) protocol?

- A. Sub-audible
- B. EchoLink
- C. DTMF
- D. CTCSS



## General Class

G3C05

Why is long distance communication on the 40-meter, 60-meter, 80-meter and 160-meter bands more difficult during the day?

- A. The F layer is unstable during daylight hours
- B. The E layer is unstable during daylight hours
- C. The D layer absorbs signals at these frequencies during daylight hours
- D. The F layer absorbs signals at these frequencies during daylight hours



## Extra Class

E6D03

Which of the following is an aspect of the piezoelectric effect?

- A. Generation of electrical energy in the presence of light
- B. Mechanical deformation of material by the application of a magnetic field
- C. Increased conductivity in the presence of light
- D. Mechanical deformation of material by the application of a voltage

Share your thoughts & ideas....

Is there something that you'd like to see added to the ArcOver Newsletter?

Share your ideas with the ArcOver Editor:  
Cyndi M Gillies, K9NAX

Send email to: [newsletter@frrl.org](mailto:newsletter@frrl.org)



# President's QST

Dan Taddei, W9STS

December - 2018

Yes! winter is here. The snow event after Thanksgiving was not good to my wire antenna. I woke in the morning to find it on the ground. Good news the wire did not break. I will just need to put a new support line up. Now I just need to find the time and have the weather break for me. It is also the holiday season, a time for giving. At our December membership meeting we will be collecting non-perishable food items for the local food bank. Please bring some items for those less fortunate than us. We will take cash as well if that works for you. Also, at the December meeting we will be doing a silent Santa. Bring a slightly used Ham Radio related item for a Grab Bag gift exchange. We have been doing this for years and you never know what you will take home. One year I got an O'scope that worked. This will also be our Christmas party please bring a food item to share. It can be desert related or not.

The December membership is also an important meeting for club leadership. It is election night. Please be sure to attend and cast your vote for your leadership team. Show your support and select next year's officers and the directors that will be serving for the next two years.

January is quickly approaching and with that our winter membership meeting/winter banquet. Remember that this is a catered event and you must register to attend. The cost is just \$20 and that gets you a wonderful meal. Please go to [www.frri.org](http://www.frri.org) and register today. In addition to dinner we are installing the incoming Board of Directors.

Looking forward to seeing you soon

73,

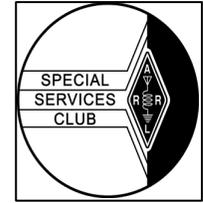
Dan Taddei, W9STS

President, Fox River Radio League

Email: [President@frri.org](mailto:President@frri.org)



**Fox River Radio League**  
"Established 1924"  
An ARRL Special Service Club  
W9CEQ PO Box 673 Batavia, IL 60510



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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, IL*

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## Meeting Minutes November 13, 2018

The meeting was called to order at 19:31 CST by President Dan Taddei W9STS. Audience introductions: Name, Call, QTH and: "What is on your Ham Radio holiday wish list"?

Approval of October 2018 Member Meeting minutes: Motion was moved, seconded and accepted. There were 43 members present at this meeting.

## Treasurer's Report, Dan WA9YKK

Dan reported the following balances as of 11/6/2018:

CHECKING: \$1246.12 SAVINGS: \$5091.53 PETTY CASH: \$97 CD: \$12000.00 REPEATER \$2236.04

## Program, Jason NX9Y

Tonight's Program: Scott Childers W9CHI – History of WLS Radio. If you have any ideas for future programs, please contact Jason.

## Education, Allen KB9VO / Cyndi K9NAX

Allen congratulated Cyndi K9NAX for all her efforts in Education. There are tentative schedules for Extra and Tech classes.

## VE (Volunteer Examiner) Testing, Paul AC9BS

The next VE session will be November 20<sup>th</sup> at the Messenger Library, North Aurora from 7PM to 9PM. VEs are invited to help out. The testing fee is \$15.00. Please bring a copy of your current license and photo id if upgrading.

## Net, Dave N9XU

Dave reported the current status of the Nets. 2m Net is every Tuesday at 7:30pm on the Club Repeater. More control operators are always needed, contact Dave N9XU for details and to obtain a copy of the script.

## Membership, Chris KC9BKS

Chris KC9BKS reported a total of 150 active members.

## ARES, Debby WX9VOR

Visit the website at <http://kanecountyares.org> or see Debby for further specific details on any event happening with ARES.

## Repeater Report Kermit W9XA.

Kermit gave a report on the current status of the repeaters. The next big step is to get the voters running on 2M. There will be the possibility to put up a 6M repeater.

## Old Business:

### Nomination Committee

Denny W9HI reported on the status of the Nomination Committee. Denny thanked Priscilla AE9PM and Dave N9XU. The current slate was presented to the Membership. Each person running for Director gave a short introduction about themselves. Motion to accept the nominations was given, seconded and accepted by the Membership. The nominations are closed.

## **Old Business: (continued)**

### **General Classes**

Cyndi K9NAX reported a huge success with the recent General Class. Cyndi also gave some statistics regarding the General Class.

### **December Holiday Party**

Dan WA9YKK reported on the Holiday Party. We will be collecting for Northern Illinois Food Bank. Food and cash donations will be accepted during the December Member Meeting. There will also be a White Elephant give away -- Bring a gift and then take a gift.

### **Winter Banquet**

Denny W9HI reported the date has been set for January 8<sup>th</sup>. Denny thanked Priscilla AE9PM for her efforts in the set up. Denny also went over the menu.

### **IL QSO Party**

Dave W9BOO gave a brief rundown on the IL QSO Party held at Springbrook Prairie in Naperville, There were 45 contacts made by the Club Station.

## **New Business:**

### **Upcoming Extra and Tech Classes**

Cyndi K9NAX reported the tentative dates for the upcoming Extra, Technician and General classes in 2019.

### **Pay Next Year Dues**

For Membership Dues, please see Dan WA9YKK. You may also pay online at <http://frrl.org> using PayPal or a credit card.

### **Announcements**

Roger W9YU mentioned outgoing QSL Bureau.

Marty N9NTM updated the group on upcoming Hamfests.

Kermit W9XA mentioned the Ft. Wayne Hamfest.

### **Upcoming Events**

November 20<sup>th</sup> VE Testing

December 4<sup>th</sup> Board Meeting

December 11<sup>th</sup> Member Meeting, Officer Election and Holiday Party

January 2<sup>nd</sup> Board Meeting

January 8<sup>th</sup> Member Meeting, Winter Banquet, New Officer/Board Installation

January 15<sup>th</sup> VE Testing

### **Adjournment**

A motion was received, seconded and carried to adjourn the meeting. The member meeting was adjourned at 20:26 CST.

Respectfully submitted,  
David Booher W9BOO  
FRRL Secretary

**Technician Class**

T2B06

Answer - C **DTMF**

# FRRL - Upcoming Meeting Presentations



## December Meeting:

**Tuesday, December 11, 2018**

### **ELECTIONS & HOLIDAY PARTY —**

Several activities, a busy night: Election of the 2019 Officers and Board of Directors  
Holiday Festivities include:

1. Annual Food Drive. Please bring a non-perishable Food Pantry Item.
2. Bring a favorite Snack or Desert to pass around for everyone to enjoy.
3. Don't forget we have the Holiday Grab Bag Exchange. If you want to participate in the grab bag gift exchange, all you need to do is bring something for a grab bag gift. Someone will be at the door to put your gift into a bag. (If you bring a bag —you can take home a bag)  
*Please make it something from your shack, you no longer need or is just collecting dust.*

## January Meeting: **Tuesday, January 8, 2019**

### **ANNUAL BANQUET PARTY & NEW OFFICERS INSTALLATION**

Please arrive at 6:30 PM - Dinner begins promptly at 7:00 PM.

There is a website set up to register to attend and to accept payments and print out tickets.

*The Winter Banquet Prices for FRRL Members and Family's:*

The cost is \$20. per person — Children under 12 are FREE

Advance Ticket sales will close on December 31, 2018

Tickets at the door are \$25. — Non-Member Tickets are \$35.

To purchase tickets, visit the FRRL website: <http://www.frri.org/banquet.php>

*Interested in presenting, or have ideas for a presentation - contact: Jason, NX9Y - [program@frri.org](mailto:program@frri.org)*

#### General Class

G3C05

Answer - C *The D layer absorbs signals at these frequencies during daylight hours*

*(Have an idea? - Let us know!)*

# 2018-2019 — Upcoming Events Calendar:

## — December —

✓ **Tue Dec 4 — Board of Director's Meeting — 7:00 pm @ Colonial Café in Aurora, IL**

**Tue Dec 11 — General Membership Meeting — 7:30 pm @ Bethany Luther Church in Batavia, IL**

*Election of new Officers and Directors for 2019 — come and vote!*

*Holiday Christmas Party — Food Drive — Gift Bag Exchange*

*& Bring and Share our favorite Holiday Treats with everyone.*

## — 2019 - January —

**Tue Jan 8 — Board of Director's Meeting — 7:00 pm @ Colonial Café in Aurora, IL**

**Tue Jan 15 — General Membership Meeting — 7:30 pm @ Bethany Luther Church in Batavia, IL**

*Annual Banquet Party — Installation of New Officers*

*Dinner starts at 7:00 PM - please arrive at 6:30 PM*

\* Sun Jan 20 — WCRA 2019 Mid-Winter Hamfest — 8 AM-1 PM @ Kane Co. Fairgrounds Expo Center, at 525 S. Randall Rd. in St Charles, IL - website: <http://www.w9ccu.org/Hamfest.html>

## ARRL — Extended Dates Events:

✓ **ONGOING — Sun Aug 26 -thru- Mon Dec 3 — 2018 - Illinois Bicentennial QSO Party**

**ONGOING — ALL YEAR: Jan -thru- Dec — 2018 - ARRL International Grid Chase**

### **For More Information:**

For more info on any of the **Class schedules** visit our web site: <http://www.frrl.org/education.php>

For more info on the **FRRL Annual Banquet Party** — visit our website: <http://www.frrl.org/banquet.php>

\* As listed on the ARRL website under Hamfests & Conventions.



# FRRL Featured News

## HF Challenge



— No HF Challenge data was received for the month of November —

(Deadlines: Get data to Dawn: **before 20th** & for her to get data to ArcOver Editor **before 25th** - of each month)

Extra Class

E6D03

Answer - D *Mechanical deformation of material by the application of a voltage*

## DON'T FORGET TO VOTE !!



### FRRL Members —

Be ready to Vote for...

### FRRL 2019 Officers & Board of Directors

**Don't forget to attend the December Membership Meeting**

**Let your Vote be heard!**

## FRRL — Elections & Holiday Party

**Annual Elections for the 2019 Officers & Board of Directors**

**Tuesday — Dec. 11, 2018 - Membership Meeting**

**Reminder:** The FRRL Winter Banquet will soon be here — Get your ticket now!

	<b>FOX RIVER RADIO LEAGUE</b>	
	<b>WINTER BANQUET</b>	
	<b>TUESDAY JAN. 8, 2019</b>	
	<b>6:30 PM – 9:30 PM CST</b>	
	<b>LOCATION:</b> Bethany Lutheran Church 8 S. Lincoln Ave Batavia, IL	
Come join the January Banquet Membership Meeting & New Officer Installation— enjoy some Great Food, Company, and Family Fun!!		
<b>MENU:</b>	<b>ENTREES:</b> <ul style="list-style-type: none"><li>• Chicken Lemon</li><li>• Pork Tenderloin</li></ul>	<b>SIDE:</b> <ul style="list-style-type: none"><li>• Oven Roasted Potatoes</li><li>• Corn Nibbles</li></ul>
	<b>SALAD:</b> <ul style="list-style-type: none"><li>• House Salad</li></ul>	<b>ROLLS/BUTTER:</b> <ul style="list-style-type: none"><li>• Petite Dinner Rolls</li></ul>
	<b>DESSERT:</b> <ul style="list-style-type: none"><li>• Ice cream Sundae Bar or Sugar Free Pudding</li></ul>	
<i>Winter Banquet Ticket Prices for FRRL Members and their family's:</i>		
Advance Tickets sales \$20 — (advance sales close on Dec. 31)		
Limited Tickets at the door are \$25 — Children under 12 are FREE		
Tickets available at the Nov & Dec Meetings or Purchase & Print Tickets Online at: <a href="https://www.eventbrite.com/e/frrl-winter-banquet-tickets-49972906308?aff=flyer">https://www.eventbrite.com/e/frrl-winter-banquet-tickets-49972906308?aff=flyer</a>		
FRRL Non-Member Tickets are \$35 — Refunds up to 7 days before event		
<i>Dinner starts at 7 PM</i>		

Visit the FRRL Website for more information at: <http://www.frrl.org/banquet.php>

12/6/2018



## ARRL NEWS

### Fox-1Cliff Launched Successfully, Now Designated AO-95



AMSAT Fox-1Cliff



Satellite enthusiasts soon will have another "bird" to use. AMSAT's Fox-1Cliff CubeSat was [successfully](#)

[launched](#) and placed into orbit this week. A SpaceX Falcon 9 vehicle carried Fox-1Cliff and several other satellites -- including other Amateur Radio payloads -- into space on December 3 at approximately 1334 UTC from Vandenberg Air Force Base in California, following a 1-day launch delay. AMSAT said early on December 4 (UTC), several stations in Brazil reported hearing the voice beacon "Fox-1Cliff Safe Mode," confirming that the satellite was alive. Fox-1Cliff has been officially designated as AO-95.

"Just before 0040 UTC, AMSAT Fox-1 Team Member Burns Fisher, WB1FJ, was the first to submit and upload telemetry to the AMSAT servers," AMSAT [reported](#) on its website. "Initial telemetry values show the satellite to be in good health. Thanks to the 29 stations that contributed telemetry during Fox-1Cliff's initial orbits."

The Fox-1Cliff downlink for FM voice and data-under-voice (DUV) is 145.920 MHz. Uplinks are 435.300 and 1267.300 MHz.

In addition to Fox-1Cliff, the SpaceX SSO-A: SmallSat Express mission carried FUNCube on ESEO, JY1-SAT, K2SAT, and ExseedSat. The reusable Falcon 9 vehicle launched 64 payloads in all.

Fox-1Cliff carries the Fox-1 U/v FM repeater, AMSAT's L-Band Downshifter, the flight spare of the AO-85 Vanderbilt University Low Energy Proton (LEP) radiation experiment, and the standard Fox-1 Penn State University-Erie MEMS gyroscope experiment. Virginia Tech provided a video graphics array camera that's similar to the one on AO-92, but which will provide images at a higher 640 × 480 resolution.

Fox-1Cliff is named in honor of longtime AMSAT member, contributor, and benefactor Cliff Buttschardt, K7RR (SK), who died in 2006. His contributions to AMSAT and other Amateur Satellite programs -- including his service as an adviser during the initial development of the CubeSat specification at California Polytechnic State University -- earned him the Lifetime Achievement Award from Project OSCAR in 2006.

AMSAT is asking Amateur Radio satellite enthusiasts to listen for Fox-1Cliff's telemetry for the initial 72 - 96 hours as on-orbit checkout gets under way.

"If you are capturing telemetry with *FoxTelem*, please be sure that 'Upload to Server' is checked in your settings and your Ground Station Params are filled in as well," AMSAT said in advance of the launch. The on-orbit checkout procedure will be similar to Fox-1D and could be completed in as few as 7 days.

"It is very important, not to mention just plain good amateur operating practice, to refrain from using the transponder uplink, so we can do the on orbit tests, including when we turn on transponder mode for testing," AMSAT said. -- *Thanks to SpaceX and AMSAT Vice President-Engineering Jerry Buxton, N0JY*

12/07/2018

# ARRL NEWS *Continued*



## The K7RA Solar Update

After nine days with no sunspots, sunspot group 2729 emerged on December 5. The sunspot number on that date was 16. Average daily solar flux for the week was 68.9, unchanged from last week. On Thursday, December 6 the appearance of 2729 continued, with a sunspot number of 17 and the sunspot area increasing from 30 to 50 millionths of a solar hemisphere.

Average daily planetary A index rose from 3.3 to 7, while average mid-latitude A index went from 2.1 to 4.9.

Predicted solar flux for the next 45 days is 70 on December 7-8, 69 on December 9, and 68 on December 10 through January 20.

Predicted planetary A index is 10 on December 7, 8 on December 8-9, 5 on December 10-16, 8 on December 17-18, 5 on December 19-27, 8 on December 28, 12 on December 29-30, 10 on December 31, 12 on January 1, 8 on January 2-5, 5 on January 6-12, 8 on January 13-14, and 5 on January 15-20.

Geomagnetic activity forecast for the period December 7, 2018 to January 2, 2019  
from F.K. Janda, OK1HH.

### **Geomagnetic field will be:**

**Quiet on December 10, 12-15, 19-21, 23**

**Quiet to unsettled on December 18, 22, 25-27, January 1**

**Quiet to active on December 9, 11, 16, 24, January 2**

**Unsettled to active on December 7-8, 17, 30-31**

**Active to disturbed on December (28-29)**

**Solar wind will intensify on November 30 and on December 7-9, (10-12, 15-18, 24-27) 28-31, January 1, (2). Parenthesis means lower probability of activity enhancement."**

## *International Grid Chase—2018*

### *Get in the Chase!*

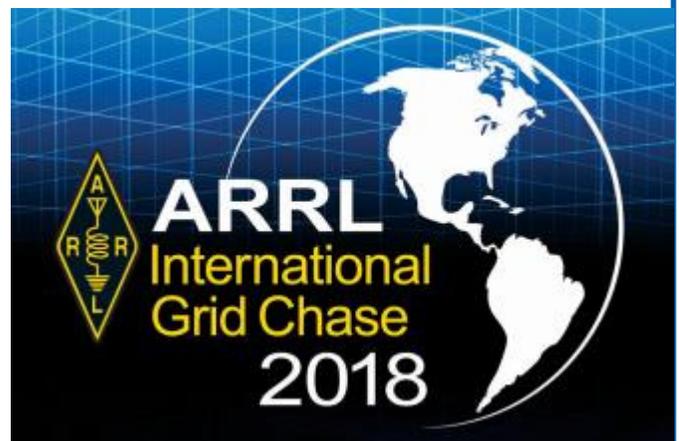
**The ARRL International Grid Chase is underway! Join in on the newest year-long operating event!**

Get in on the Chase!

The objective of the ARRL International Grid Chase is to work stations on any band (except 60 meters) in as many different Maidenhead grid squares as possible, and then upload your log data to the ARRL's Logbook of the World (LoTW).

For more information visit ARRL website:

<http://www.arrl.org/international-grid-chase-2018>



## IMPORTANT AMATUER RADIO WEB PAGE LINKS

Visit our website – FRRL Website: [www.frrl.org](http://www.frrl.org)

[www.arrl.org](http://www.arrl.org)

[www.qrz.com](http://www.qrz.com)

[www.colpage.org](http://www.colpage.org)

[www.twit.tv/hn](http://www.twit.tv/hn)

[www.dailydx.com](http://www.dailydx.com)

[www.dxspots.com](http://www.dxspots.com)

### Follow FRRL on Facebook:

FRRL Facebook Page: <https://www.facebook.com/foxriverradio/>

FRRL Facebook Group: <https://www.facebook.com/groups/foxriverradio/>



### FRRL Repeaters:

W9CEQ – 147.210 MHz +600 KHz Offset, 103.5 PL

W9CEQ – 444.300 MHz +5 MHz Offset, 114.8 PL

### FRRL Digital Voice/Data Repeaters: (Contact Kermit, W9XA for info)

W9CEQ – B D-Star – 442.10625 MHz, +5.0 MHz offset

W9CEQ – C D-Star – 147.225 MHz, +0.6 MHz offset

### Other Local Area Repeaters:

#### KC9OEM – Owned by Kane County OEM:

KC9OEM – 145.470 MHz -600 KHz, 103.5 PL

(2 meter is primary Kane Co. SKYWARN/ARES Frequency)

#### W9DWP – Kane Co. Amateur Public Svc. Repeaters:

(Both repeaters are dual mode APCO-25 NAC-293)

W9DWP – 145.270 -600 KHz, 107.2 PL

W9DWP – 443.025 +5 MHz, 114.8 PL

#### W9XA – 6 meter:

W9XA – Input: 52.210 Output: 53.910 Carrier Access FM (W9XA 6-meter repeater)

#### W9ZGP – NIARC:

W9ZGP – 147.060 +600 KHz, 103.5 PL

#### K9BAR – BARS – Bolingbrook Amateur Radio Society Repeaters: (education partner)

K9BAR – 147.330 +600 KHz, 107.2 PL - (EchoLink: K9BAR-R Node # 261875)

K9BAR – 443.525 +5.0 MHz, 114.8 PL & NAC-293 - P25/Mixed-Mode Analog

K9BAR – 443.700 +, Color Code 1 TS1 & 2 - DMR Repeater

### Weekly Nets:

MONDAY: **10-10 INTERNATIONAL NET:** web site URL: <https://www.ten-ten.org/>

**CW NET:** at 8:00 pm, 28.150 MHz & **SSB NET:** at 8:30 pm, 28.720 MHz

TUESDAY: **FRRL 2m NET:** at 7:30 pm, on W9CEQ (except on Tues meeting nights)

WEDNESDAY: **ARES & SKYWARN NET:** at 6:30 pm, on KC9OEM 2 meter repeater

**ILLINOIS DSTAR Net:** at 8:00 pm, on the DStar 2 meter repeater

THURSDAY: **BARS INFO & TRAFFIC NET:** at 8:00 pm, on K9BAR linked 2m/440 repeaters

**BARS SKYWARN NET:** at 8:30 pm, on K9BAR linked 2m/440 repeaters