





The Official Newsletter of the Fox River Radio League
Since 1924

Our 94th Year in Amateur Radio!

July 2018



Proud to be an ARRL Special Service Club

#### **Membership Meeting:**

Tue - July 10, 2018 @ 7:30 PM Bethany Lutheran Church in Batavia, IL

#### **Board of Director's Meeting:**

Tue - Aug 7, 2018 @ 7:00 PM Colonial Café, in Aurora, IL

#### **NEXT** — **VE** Test Session:

Tue - July 17, 2018 @ 7:00 PM Messenger Library, in North Aurora, IL

Sat - Aug 11, 2018 @ 9:00 AM Golden Corral, in Aurora, IL

# ARRL FIELD DAY 2018 Grid Chasel

## ARRL FIELD DAY 2018 was a Great SUCCESS!

Sat & Sun, June 23 & 24

#### Thanks – to all who Joined Us

#### at LeRoy Oakes Forest Preserve for our Field Day event!

There was lots of great conversations, lots of learning, and lots of amazing food. Meeting new friends and seeing old ones again. Oh, and of course lots of Great QSO FUN making all those contacts!!

#### A BIG THANK YOU goes to Field Day Chairman: Dan Harman, WA9YKK

as well as all the Band Captains:

75/15 Voice: Mike Urso, K9FE — 40 Voice: Dave Booher, W9BOO — 20 Voice: Denny Barfuss, W9HI — 80/15 CW: Mike Bronoski, WB0LKA — 20 CW: Jason Burzynski, NX9Y — 40 CW: Bill Capper, WB9LPW — Data/QRP: Mike Bingham, WX9SPL — & GOTA Coaches: the Miller's Priscilla, AE9PM — Ken, KE9NM — John, W9JDM

...and EVERYONE who helped make Field Day a Success!

#### What's Inside

## FRRL Needs your Help... Farmer's Market Outreach Program

FRRL will participate in meet and greet Ham Radio demonstrations at some local Farmer Market's again this summer. We need your Help to make this Community Outreach Program a Success!

#### **Location & Dates:**

✓ Location: Batavia Dates: July 7th

Location: Aurora Dates: Aug 4th, 18th & Sep 15th

Location: Oswego Dates: Aug 12th & Sep 9th

If you can help - Contact: Allen, KB9VO at: Education@frrl.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
KD9LHG	Scott Herold	Technician
AD9A	Brent Weibel	Extra

#### In Memorandum / Silent Keys

CALL	NAME	LOCATION
W0HED	Donald Hed	Elburn, IL

#### 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: <a href="newsletter@frrl.org">newsletter@frrl.org</a> - 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.

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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: <u>info@frrl.org</u>

Web Site: <a href="http://www.frrl.org">http://www.frrl.org</a>

**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

Webmaster:

Chris Kennell, KC9BKS 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.

Regular **Dues** are \$25.00 - Family-\$35.00 Senior Citizen \$15.00 - Sr. Family \$20.00 Student (full time under 22) \$15.00 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:**

#### 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**

T3C01

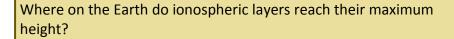
Why are direct (not via a repeater) UHF signals rarely heard from stations outside your local coverage area?

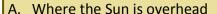
- A. They are too weak to go very far
- B. FCC regulations prohibit them from going more than 50 miles
- C. UHF signals are usually not reflected by the ionosphere
- D. UHF signals are absorbed by the ionospheric D layer



#### **General Class**

G3C02





- B. Where the Sun is on the opposite side of the Earth
- C. Where the Sun is rising
- D. Where the Sun has just set



#### **Extra Class**

E7C04

#### 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

How does an impedance-matching circuit transform a complex impedance to a resistive impedance?

- A. It introduces negative resistance to cancel the resistive part of impedance
- B. It introduces transconductance to cancel the reactive part of impedance
- C. It cancels the reactive part of the impedance and changes the resistive part to a desired value
- D. Network resistances are substituted for load resistances and reactances are matched to the resistances





#### President's QST

Dan Taddei, W9STS

JULY - 2018

Well another Field Day is in the books. By all reports a good time was had by all. This year the FRRL Field Day team added a digital station that took us to a 7A category. Thanks to Dan Harmon, WA9YKK and Denny Barfusss, W9HI who lead the effort and created an environment that ensured FRRL success!

For those that did not attend we will have a report at our meeting on Tuesday.

What is next?

The IL QSO Party will take place on October 21st this year. We are planning a FRRL club station for this event. This station will be operating on generator power and already looks to be great fun.

This month, I was reminded that sadly many of our members do not come to our FRRL monthly meetings or participate in our operating events. According to the numbers we have 140 members, however, we typically see only about 50 members at our monthly meeting. I understand that hams always have a wide assortment of interests and specializations, but putting that aside, I am interested in what it would take to bring those of you that do not attend our monthly meetings to come out and attend meetings. We have asked this question previously at our membership meetings but I think we've failed to reach those of you who are not able to attend the meetings. So if you do not regularly attend our FRRL membership meeting I personally would like to know what I/we can do to make our monthly meetings more inviting, and compelling to you, for you to come join us.

Please drop me a line at <a href="mailto:president@frrl.org">president@frrl.org</a> and let me know how to help.

In the summer heat, stay cool, be safe, and 73.

Dan Taddei, W9STS

President, Fox River Radio League

Email: <u>President@frrl.org</u>



#### Fox River Radio League

"Established 1924"
An ARRL Special Service Club
W9CEQ PO Box 673 Batavia, IL 60510



Minutes of the Regular Meeting of the <u>General Membership</u> of the Fox River Radio League (FRRL) an Illinois not-for-profit Corporation

Held at Bethany Lutheran Church, Batavia, IL

#### Meeting Minutes June 12, 2018

The meeting was called to order at 19:30 CDT by President Dan Taddei W9STS. Audience introductions: Name, Call, QTH and: "Do you let people know you are a Ham or do you keep it secret"?

Approval of May 2018 Member Meeting minutes: Motion was moved, seconded and accepted.

There were 48 members present at this meeting.

#### Treasurer's Report, Dan WA9YKK

Dan reported the financial balances as of 5/23/2018:

#### Program, Jason NX9Y

Tonight's program is reserved for Field Day. July: Larry K9ARZ – Introduction and Strategies for Learning Code and Increasing Speed. August: Pete K9PW – Learn About Foxhunting (with demonstration). September: John KC9OJV - uBITX. If you have any ideas for future programs, please see Jason.

#### **Education, Allen KB9VO**

The Tech program has completed and was a huge success. Cyndi K9NAX presented the details of the Tech Class. Cyndi also gave a call out for new instructors for the General Class. If you are interested in teaching a section of the class, please notify Allen KB9VO, Cyndi K9NAX or Lance W9QB.

#### **Net. Dave N9XU**

2m Net is every Tuesday at 7:30pm on the Club Repeater. Participation is down because of the summer months. More control operators are always needed, contact Dave N9XU for details.

#### VE (Volunteer Examiner) Testing, Paul AC9BS

The next VE session will be July 17<sup>th</sup> at the Messenger Library, North Aurora from 7PM to 9PM. The testing fee is \$15.00. Bring a copy of your current license if upgrading.

#### Membership, Chris KC9BKS

Chris KC9BKS reported a total of 139 active members.

#### ARES, Debby WX9VOR

Debby updated the group on recent ARES events. The Tour de Cure went well. Debby mentioned other upcoming summer events. Debby asks people to join in to help on Swedish Days (if you aren't involved with Field Day). The DeKalb Club (Kishwaukee) is losing their tower. Debby asks if you know anyone who has a tower to contact her. Bob W9DSR brought the Club up-to-date on the 40 Winlink stations on ARES; the 145.610 network is building up. Visit the website at <a href="http://kanecountyares.org">http://kanecountyares.org</a> or see Debby for further details on any event happening with ARES.

#### **Old Business:**

#### **Tech and General Classes**

Allen KB9VO covered the material previously (under Education). The General Classes start on Sept 8<sup>th</sup> and go through the testing date of November 10<sup>th</sup>.

#### Farmers' Market Outreach Schedule

The Farmers' Markets are being scheduled for Saturday and Sundays this year. Batavia: July 7<sup>th</sup>;

Oswego: Aug 12<sup>th</sup>, Sept 9<sup>th</sup>; Aurora" Aug 4<sup>th</sup>, August 18<sup>th</sup> and September 15<sup>th</sup>. We need support from the Club Members to participate in these events. Please sign up with Allen KB9VO.

#### **Special Interest Classes**

Harry K9DXA asked if people were interested in getting help setting up their first station. He also mentioned other items for future SIGs.

#### **New Business:**

#### **Nomination Committee**

Denny W9HI is soliciting ideas for the committee

#### Winter Banquet

Denny W9HI wants feedback.

#### **Announcements**

Dan W9STS updated the Club on the repeater situation. Kermit W9XA needs a Debian Linux Admin.

Marty N9NTM brought the Club up to date on upcoming Hamfests.

Roger W9YU is doing the outgoing Bureau QSL.

#### **Upcoming Events**

June 5<sup>th</sup> FRRL Board Meeting
June 12<sup>th</sup> FRRL Membership Meeting
June 23<sup>rd</sup>-24<sup>th</sup> Field Day
July 3<sup>rd</sup> Board Meeting
July 10<sup>th</sup> Membership Meeting

July 17<sup>th</sup> VE Testing

#### **Adjournment**

A motion was received, seconded and carried to adjourn the meeting. The member meeting was adjourned at 20:31 CDT.

Respectfully submitted, David Booher W9BOO

FRRL Secretary

**Technician Class** 

T3C01

Answer - C

## **2018—Upcoming Events Calendar:**

### — July —

- √ Tue Jul 3 Board of Director's Meeting —7:00 pm @ Colonial Café in Aurora, IL
- ✓ Sat Jul 7 South Milwaukee ARC Hamfest @ American legion Post 434 in Oak Creek, WI \*
- ✓ Sat Jul 7 Farmers Market Outreach 7:00 am @ in Batavia, IL (contact Allen, KB9VO)
- Tue Jul 10 General Membership Meeting 7:30 pm @ Bethany Luther Church in Batavia, IL
- Sun Jul 15 KARSFEST 2018 Hamfest @ Will County Fairgrounds in Peotone, IL \*
- Tue Jul 17 VE Test Session 7:00 pm @ Messenger Library in North Aurora, IL

#### — Aug —

- Sat Aug 4 Farmers Market Outreach 7:00 am @ in Aurora, IL (contact Allen, KB9VO)
- Sun Aug 5 Hamfesters Hamfest 2018 @ Will County Fairgrounds in Peotone, IL \*
- Tue Aug 7 Board of Director's Meeting —7:00 pm @ Colonial Café in Aurora, IL
- Sat Aug 11 Sat VE Test Session 9:00 am @ Golden Corral, 4270 E New York St, in Aurora, IL
- Sat Aug 11 Racine Megacycle Freefest @ Greater Racine kennel Club in Racine, WI \*
- **Sun Aug 12 Farmers Market Outreach 7:00 am @ in Oswego, IL** (contact Allen, KB9VO)
- Tue Aug 14 General Membership Meeting 7:30 pm @ Bethany Luther Church in Batavia, IL
- Sat Aug 18 Farmers Market Outreach 7:00 am @ in Aurora, IL (contact Allen, KB9VO)
- **Sun Aug 26** thru— Mon Dec 3 2018 Illinois Bicentennial QSO Party (details to follow)

#### **Mark Your Calendar — Future Events:**

Sat Sep 8 — thru— Sat Nov 10 — 2018 - General Class License Course (FRRL & BARS) 9:00 am-12 pm @ Golden Corral in Aurora, IL

**Sun Sep 9** — **Farmers Market Outreach** — **7:00** am @ in Oswego, IL (contact Allen, KB9VO)

Sat Sep 15 — Farmers Market Outreach — 7:00 am @ in Aurora, IL (contact Allen, KB9VO)

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

For more info on any of the **Class schedules** visit our web site: <a href="http://www.frrl.org/education.php">http://www.frrl.org/education.php</a>
For more info or to help on the **Farmer's Market Outreach** — Contact: **Allen Nelson, KB9VO** at <a href="mailto:education@frrl.org">education@frrl.org</a>
\* Hamfests: As listed on the ARRL website under Hamfests & Conventions listings.

## FRRL - Upcoming **Meeting Presentations**

July Meeting - Tue July 10, 2018

Morse Code — Introduction & Strategies tor learning Morse Code and for increasing one's code speed.

Presented by: Larry Stark - K9ARZ

**General Class** G3C02 Answer - A

August Meeting - Tue August 14, 2018

**Fox Hunting** — Learn all about Fox Hunting with a demonstration.

Presented by: Pete Walter - K9PW

September Meeting - Tue September 11, 2018

**uBITX** — Learn all about the new exciting uBITX Transceivers

Presented by: John Greusel - KC9OJV

Interested in presenting, or have ideas for a presentation - contact: Jason, NX9Y - program@frrl.org

Extra Class

E7C04

Answer - C

Serena M. Auñón-Chancellor



**NASA Astronaut** 



CQ — NA1SS

Did you listen to it?

#### What a great QSO contact — The International Space Station!!



#### The Pearl Technology STEM Academy, Peoria Heights, IL

An International Space Station school contact using amateur radio was planned and successfully executed on July 2nd. The QSO event began at approximately 15:35 UTC (10:35 am CDT) and ran for about 10 minutes. It was a direct (simplex)

radio contact between ISS NASA Astronaut Serena Aunon-Chancellor, NA1SS and W9DWJ, David Johnson of Morton, IL at the Pearl Technology STEM Academy. The radio communication downlink was on 145.800 MHz and audible over the state of IL and adjacent areas. Together Richwoods Township and the University of IL, Pearl Technology founded the first STEM Academy in 2016 to educate middle school students in Science, Technology, Engineering, and Math. Questions NASA Astronaut Serena answered included: What's the most exciting things you've seen in space? - Do you see other planets? - What do you enjoy most about being in space? - What do you do for fun? - What's the longest you've been in space? It was a fun QSO to listen too!

## 2018 FIELD DAY — Data Results

Call Used: W9NE GOTA Station Call: W9CEQ ARRL/RAC Section: IL Class: 7A

Participants: 50 Club/Group Name: Fox River Radio League

Power Source(s): Generator, Solar Power Multiplier: 2X

#### **Bonus Points:**

Description	<b>Points</b>
100% Emergency power	700
Media Publicity	100
Public Location	100
Public Information Table	100
NTS message to ARRL SM/SEC	100
W1AW Field Day Message	100
Formal NTS messages handled - No.=11	100
Natural power QSOs completed	100
Site Visit by invited elected official	100
Site Visit by invited served agency official	100
Youth participation	
Youth operators = 3	
Youth participants = 4	60
GOTA Bonus	40
Submitted via the Web	50
Educational activity	100
Social media	100
Safety officer	100





#### **Total Bonus Points**

2,050

#### Score Summary:

CW Digital Phone Total

Total QSOs 816 127 2000

Total Points 1632 254 2000 3886 Claimed Score = 7,772



#### 2018 FIELD DAY — Data Results (continued)

Band/Mode QSO Breakdown:

	CW	Digital	Phone			
	QSOs	Pwr(W)	QSOs	Pwr(W)	QSOs	Pwr(W)
160m						
80m	99	100	3	30	278	100
40m	180	100	67	30	540	100
20m	360	100	38	30	930	100
15m	177	100			141	100
10m			12	30		
6m			7	50	43	100
2m						
1.25					1	50
Other						
Satellite						
GOTA					67	100
Total	816		127		2000	

GOTA Bonus: GOTA Coach - Double Bonus Points

Name/Call	QSOs	Bonus Points
Brent J. Weibel, AD9A	1	0
Clayton R. Arnold, KD9KNV	1	0
James E. Murray, KD9LHO	1	0
Shlok K. Khandate, KD9LHR	1	0
Dominick V. Liberatore, (NONE)	4	0
Doris Dyer, KD9KXD	1	0
John D. Miller, W9JDM	30	40
Matt M. Lesko, (NONE)	15	0
Priscilla A. Miller, AE9PM	8	0
Jack G. Mikolay, KD9LHT	2	0
Mark D. Uher, (NONE)	1	0
Boris A. Trifonov, (NONE)	2	0



Submitted by: Dennis R. Barfuss, W9HI

#### A BIG THANK YOU to Field Day Chairman: Dan Harman, WA9YKK

and all the Band Captains:

75/15 Voice: Mike Urso, K9FE — 40 Voice: Dave Booher, W9BOO — 20 Voice: Denny Barfuss, W9HI 80/15 CW: Mike Bronoski, WB0LKA — 20 CW: Jason Burzynski, NX9Y — 40 CW: Bill Capper, WB9LPW Data/QRP: Mike Bingham, WX9SPL — GOTA Coaches: the Miller Family: Priscilla, AE9PM Ken, KE9NM & John, W9JDM

and to EVERYONE who helped make Field Day a Success!

#### **ARRL NEWS**

## RER L

#### CASSIOPE Spacecraft Listens In on 2018 ARRL Field Day

The Canadian <u>CASSIOPE</u> (CAScade, Smallsat, and Ionospheric Polar Explorer) spacecraft once again eavesdropped on ARRL Field Day activity. CASSIOPE's Radio Receiver Instrument (RRI) was tuned to 7.005 MHz during six passes over the North American continent during Field Day 2018, although there was no advance publicity this year. The RRI is a component of the spacecraft's Enhanced Polar Outflow Probe (e-POP), a suite of eight science instruments that study space weather.

"We're really happy with our results this year," remarked Gareth Perry, a physics and astronomy postdoctoral research associate at the University of Calgary in Canada, CASSIOPE's home institution. "RRI recorded plenty of chatter between Field Day participants, especially during our passes over the eastern and central United States on the evening of [June 23]."



CASSIOPE also had turned a close ear to activity during Field Day 2015 and 2017, and its activities last year were heavily promoted. Perry described the 2017 response from the Amateur Radio community as "overwhelming," and the RRI "inundated" with CW signals.

Perry is the lead author of the first publication to use data from the ARRL Field Day experiments, *Citizen radio science: an analysis of Amateur Radio transmissions with e-POP RRI.* The paper, which reports on CASSIOPE's involvement in ARRL Field Day 2015, is set for publication in *Radio Science*.

"It's been tough to sort out the 2017 data, so we decided to use a different tactic this year," Perry said. He and members of the Ham Radio Science Citizen Investigation (<a href="Ham SCI">Ham SCI</a>) group coordinated with the Nashoba Valley Amateur Radio Club (N1NC) and with the Indianapolis Radio Club (W9JP) — which operated Field Day as N9NS with the Hoosier DX and Contest Club (N9NS) and a coalition of other Central Indiana radio clubs — to "direct traffic," asking their members to stick to pre-selected frequencies during the passes, and to record their transmitting logs.

"We figured that it would be easier to assign frequencies ahead of time, so that we [would] know where to look in post-processing, which seems to have paid-off," Perry added. He told ARRL that data from this year's Field Day experiment presently is in HDF5 format, and preparations are under way to convert the RRI data into a more accessible format for the Amateur Radio community.

Perry and the HamSCI group have been using ARRL Field Day as an opportunity to study space weather and HF radio wave propagation. "Not only have the Field Day experiments been valuable scientifically, but they have also helped promote the relevancy of ham radio to the greater scientific community," Perry said. Thanks to the efforts of Phil Erickson, W1PJE, CASSIOPE this year also had the support of the Millstone Hill Incoherent Scatter Radar, a large ionospheric radar with wide coverage over the US east coast. "[W]e were able to get some ionospheric diagnostics from Millstone Hill ionospheric measurements during the CASSIOPE east coast passes, which will add another layer of critical information to our observations," Perry explained. He's hoping that CASSIOPE will continue to participate in Field Day. "We're looking forward to next year already!" he said.

The European Space Agency (ESA) funds CASSIOPE/e-POP operations under the Third Party Mission Program. A US National Science Foundation grant to the Massachusetts Institute of Technology supports radar observations and analysis at Millstone Hill.

-end-

#### It's Time to Get Involved!

#### FRRL & BARS - 2018 General Class

Ready to Upgrade? Ready to give back to local Hams?

The FRRL and BARS the (Bolingbrook Amateur Radio Society) plan to continue their successful education collaboration and co-present another license training course.

The next ARRL training class will be a **General License Class** course which is scheduled for Fall. The General Class is a **FREE** - **10 week** course, to be held **Saturday** mornings from **9 AM** until **12 Noon**, at the **Golden Corral** in Aurora. Come and upgrade. (*or join us as an Instructor*)

Dates: Sept 8, 2018 -thru- Nov 10, 2018

When: Saturdays — 9:00 AM until 12:00 Noon

Where: Golden Corral — 4270 East New York Street, Aurora, IL

Already a General or Extra... Great! The FRRL / BARS Education Committees are looking for Hams interested in sharing their knowledge and skills with other hams. To help out and be an Instructor for the General Classes. We need people comfortable teaching the class topics, to work together encouraging class interactions, and ease in learning. There are 9 weeks of the General course material (Class Topics) and 1 week scheduled for the VE Testing.

GENERAL CLASS - INSTRUCTOR'S SCHEDULE				
CLASS # - DATE	CLASS TOPIC	LICENSE	CALL SIGN	INSTRUCTOR'S NAME
I. Sat. Sep 8	Introduction			TBD (your name here?)
2. Sat. Sep 15	Procedures & Practices			TBD (your name here?)
3. Sat. Sep 22	Rules & Regulations			TBD (your name here?)
4. Sat. Sep 29	Components & Circuits			TBD (your name here?)
5. Sat. Oct 6	Radio Signals & Equipment			TBD (your name here?)
6. Sat. Oct 13	Digital Modes			TBD (your name here?)
7. Sat. Oct 20	Antennas			TBD (your name here?)
8. Sat. Oct 27	Propagation			TBD (your name here?)
9. Sat. Nov 3	Electrical & RF Safety			TBD (your name here?)
10. Sat. Nov 10	VE Testing			FRRL & BARS VE Teams

If you want to help with the General Class as an Instructor or in any other way?

Please contact: Allen, KB9VO - <u>Education@frrl.org</u> -or- Cyndi, K9NAX - <u>PR@frrl.org</u>

For more info on any Class schedule visit our web site: <a href="http://www.frrl.org/education.php">http://www.frrl.org/education.php</a>



## THE ILLINIOIS BICENTENNIAL CHALLENGE AWARD

When: Sun Aug 26, — Mon Dec. 03, 2018

Time: 12:01 AM — 11:59 PM

In celebration of the Illinois Bicentennial, the Western Illinois Amateur Radio Club will sponsor an On-Air operating event to encourage amateur (ham) radio operators all over the world to contact hams in Illinois. The goal for each operator will be to make contact on the air with at lease one participating station in each of the 102 Illinois counties. Operators who provide evidence of making contact with at least one station in each county will be awarded a certificate acknowledging the accomplishment. The WIARC will coordinate the activities of amateur stations in each Illinois county. Publishing online the operating schedule for each station.

For more information visit the IL website at:

https://illinois200.com/events/the-illinois-bicentennial-challange-award/

**How observant are you? - Did you even notice??** After Dave, N9XU reported a low-frequency audio noise on the W9CEQ/R 147.210 repeater — Repeater Trustee Kermit, W9XA investigated and found the Motorola TPN1110 station Ferro-resonant power supply had failed. Since then, Kermit has fixed the W9CEQ/R 147.210 repeater. It now sounds better than ever. **Thank You Kermit, W9XA!** 



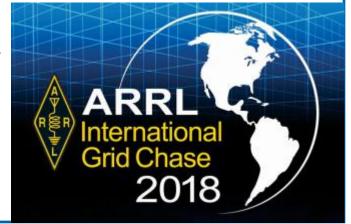
The ARRL International Grid Chase is underway! Join in on the newest year-long operating event!

#### 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

www.arrl.org www.qrz.com

www.colpage.org www.twit.tv/hn

<u>www.dailydx.com</u> <u>www.dxspots.com</u>

#### Follow FRRL on Facebook:

FRRL Facebook Page: <a href="https://www.facebook.com/foxriverradio/">https://www.facebook.com/foxriverradio/</a>

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 information)

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:

#### KC90EM - Owned by Kane County OEM:

KC90EM - 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

#### <u>K9BAR - BARS - Bolingbrook Amateur Radio Society Repeaters:</u> (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:

FRRL Ten Meter Net: Monday at 8:00 pm, 28.150 MHz CW

Monday at 8:30 pm, 28.720 MHz SSB

FRRL 2 Meter Net: Tuesday at 7:30 pm, on W9CEQ (except Tues meeting nights)

ARES & Skywarn Net: Wednesday at 6:30 pm, on KC90EM 2 meter repeater Illinois DStar Net: Wednesday at 8:00 pm, on the DStar 2 meter repeater