



# ARC OVER



The Official Newsletter of the Fox River Radio League  
Since 1924

Our 94th Year in Amateur Radio!

November 2018



Proud to be an ARRL  
Special Service Club

**NEXT — Membership Meeting:**

Tue - Nov 13, 2018 @ 7:30 PM  
Bethany Lutheran Church in  
Batavia, IL

**NEXT — VE Test Session:**

Sat - Nov 10, 2018 @ 9:00 AM  
Golden Corral, in Aurora  
4270 E New York St, Aurora, IL

Tue - Nov 20, 2018 @ 7:00 PM  
Messenger Library, in  
North Aurora, IL

**NEXT — Board Meeting:**

Tue - Dec 4, 2018 @ 7:00 PM  
Colonial Café, in Aurora, IL

**2018  
General Class**



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



BARS Bolingbrook  
Amateur Radio Society

**Saturday Nov 3, 2018** was the last teaching Class Session.  
The **VE Testing Session** will be held on: **Saturday Nov 10, 2018**

When: **Saturday— November 10 — 9:00 AM**  
Where: **Golden Corral — in Aurora - 4270 E New York St.**

Contact: Allen, KB9VO - [Education@frrl.org](mailto:Education@frrl.org) -or- Cyndi, K9NAX - [PR@frrl.org](mailto:PR@frrl.org)

**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.*

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**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.frrl.org/banquet.php>

## 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
K0WHW	William Watkins III	General
N9HSJ	Tom Westerfield	Amateur Extra

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

T5B07

If a frequency display calibrated in megahertz shows a reading of 3.525 MHz, what would it show if it were calibrated in kilohertz?

- A. 0.003525 kHz
- B. 35.25 kHz
- C. 3525 kHz
- D. 3,525,000 kHz



## General Class

G4E03

Which of the following direct, fused power connections would be the best for a 100 watt HF mobile installation?

- A. To the battery using heavy gauge wire
- B. To the alternator or generator using heavy gauge wire
- C. To the battery using resistor wire
- D. To the alternator or generator using resistor wire

## Extra Class

E1F03

Under what circumstances may a dealer sell an external RF power amplifier capable of operating below 144 MHz if it has not been granted FCC certification?

- A. It was purchased in used condition from an amateur operator and is sold to another amateur operator for use at that operator's station
- B. The equipment dealer assembled it in a kit
- C. It was imported from a manufacturer in a country that does not require certification of RF power amplifiers
- D. It was imported from a manufacturer in another country and was certificated by that country's government

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

November - 2018

It is November. Wow the year is almost over. Thanksgiving is just around the corner and then it is Christmas. The holiday season is here.

At the November FRRL membership meeting we will have the treat of an interesting presentation from Scott Childers, W9CHI, formally of WLS radio and currently with STAR, 96.7 FM radio. Scott will be doing a presentation: "A history of WLS and Chicago Radio." This is a nostalgic 30 minutes presentation, which is a wonderful stroll down memory lane for anyone who has lived in the Chicagoland area now or anytime in the past.

The FRRL Christmas party will be at our December membership meeting. So remember to bring something non-perishable for the local food pantry and some holiday treat to share with the members at the meeting.

For those who participated in the IL QSO party — *Congratulations!* What a great job, good for you! I would like to thank Denny, W9HI and Dan, KA9YKK for putting together the FRRL IL QSO party in the park on October 21st. While it was a little windy and cold that day, at least it was dry. There were several first time operators who were able to get on the air and learn the art of logging QSO contacts. I am sure there will be a report from Denny and Dan as to the final count of contacts made. It was a great deal of fun!

On a personal note I finally got my new vertical antenna up. I am hoping it is stealthy enough to avoid the wrath of the HOA. It really works great compared to my indoor fan dipole antenna and the outdoor random wire antenna I used previously.

The General class is nearly finished, and one student has already tested and passed their General exam early. A Great Job goes to Cyndi, K9NAX and Allen, KB9VO for making the General class happen and to Lance, W9QB for providing the logistics for the classes.

Looking forward to seeing you at the meeting. 73

73,

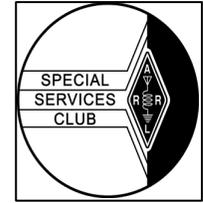
Dan Taddei, W9STS

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 October 9, 2018**

The meeting was called to order at 19:32 CDT by Vice-President Roger Bara W9YU. Audience introductions: Name, Call, QTH and: "Will you be active on the IL QSO Party"?

Approval of September 2018 Member Meeting minutes: Motion was moved, seconded and accepted. There were 40 members present at this meeting.

### **Treasurer's Report, Dan WA9YKK**

Dan reported the financial balances as of 10/2/2018

Membership. If planning to pay dues with checks and cash, please wait until the next Member Meeting.

### **Program, Jason NX9Y**

Tonight's Program: Val NV9L – Puerto Rico EmCom Activities. November: Scott Childers W9CHI – History of WLS Radio. If you have any ideas for future programs, please contact Jason.

### **Education, Allen KB9VO / Cyndi K9NAX**

Allen reports that the General Class is moving along well. There are a few more classes for the General Class. The Extra Class Program is tentatively set for January 2019. Cyndi provided more detail on how the General Class is proceeding. Help is needed for the next Extra Class Session. If you are interested in teaching a section of the class, please notify Allen KB9VO, Cyndi K9NAX or Lance W9QB

### **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 has a new computer and soundcard for the Net. 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 149 active members.

### **ARES, Debby WX9VOR**

Debby brought the group up-to-date on all recent ARES events. 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. Next plan is to reinstate Allstar Link on the 220 machine.

## **Old Business:**

### **General Classes**

Allen KB9VO and Cyndi K9NAX covered the material previously (under Education).

### **Winter Banquet**

Denny W9HI reported the date has been set for January 8<sup>th</sup>. Dinner begins at 7:00 (be there at 6:30). The website will be updated to accept payment and print tickets for the event. The fee is \$20 per person (kids 12 and under are free). Cutoff date is the week before the event.

### **Nomination Committee**

Dave N9XU and Priscilla AE9PM have come up with a slate of candidates. Priscilla opened up the floor for nominations. There are currently no additional nominations. Voting will take place at the December Member Meeting

### **IL QSO Party**

The Illinois QSO Party will be held October 21<sup>st</sup>, 2018. The event will be held this year at Springbrook Prairie in Naperville. The contest starts at noon, but people will be there early to set up

### **December Christmas Party**

This will take place at the December Member Meeting. Everyone is encouraged to bring something for the gift exchange and their favorite treats to share. The Club will also be collecting items for the Northern Illinois Food Bank.

## **New Business:**

### **Tower Relocation**

Dan W9STS reported that someone has a tower that needs to be disassembled and removed. If you help do this, it is free.

### **Announcements**

Marty N9NTM updated the Club on future Hamfests.

Roberto WA9E reported on the Boy Scouts JOTA events.

Lance W9QB invited members to come have breakfast at the Golden Corral before the Education classes

### **Upcoming Events**

October 13<sup>th</sup>, 20<sup>th</sup> and 27<sup>th</sup> General Class at Golden Corral Aurora

October 9<sup>th</sup> Membership Meeting

October 21<sup>st</sup> IL QSO Party in the Park

November 3<sup>rd</sup> General Class at Golden Corral Aurora

November 6<sup>th</sup> Board Meeting

November 10<sup>th</sup> General Class (VE Testing)

November 13<sup>th</sup> Member Meeting (Slate Finalized)

### **Adjournment**

A motion was received, seconded and carried to adjourn the meeting. The member meeting was adjourned at 20:14 CDT.

Respectfully submitted,

David Booher W9BOO

FRRL Secretary

**Technician Class**

T5B07

Answer - C **3525 kHz**

# FRRL - Upcoming Meeting Presentations



## General Class

G4E03

Answer - A **To the battery using heavy gauge wire**

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

## November Meeting: Tuesday, November 13, 2018

### The History of WLS Radio —

An interesting presentation about WLS Radio local celebrities and some little known facts you probably don't know about this long lasting Chicago Radio Station

Presented by: **Scott Childers — W9CHI** *(yes really)*

## 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)*

# 2018-2019 — Upcoming Events Calendar:

## — November —

✓ **Sat Nov 3** — **General Class License Course** — 9:00 am-12 pm @ Golden Corral in Aurora, IL

✓ **Tue Nov 6** — **Board of Director's Meeting** — 7:00 pm @ Colonial Café in Aurora, IL

\* Fri Nov 9 — Hedy Lamarr Day - Special Event N9H — ECHOLINK NODE #479886/IRLP 9251

**Sat Nov 10** — **General Class** — **VE TESTING** — 9:00 am-12 pm @ Golden Corral in Aurora, IL  
NI-ARTT—VE Team – **VE TESTING is open to the public for license testing.**

**Tue Nov 13** — **General Membership Meeting** — 7:30 pm @ Bethany Luther Church in Batavia, IL  
**Nominations of new Officers and Directors for 2019 — Announced**

\* Sat Nov 17 — Central Division Convention — Fort Wayne Hamfest & Computer Expo - Fort Wayne, IN  
@ Allen Co. War Memorial Coliseum website: <http://www.fortwaynehamfest.com>

**Tue Nov 20** — **VE Test Session** — 7:00 pm @ Messenger Library in North Aurora, IL

**Thu Nov 22** — **Thanksgiving Day** — *Be Thankful, enjoy the Holiday with your family & friends.*

## — 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 October—

(Monthly Deadlines: Get data to Dawn: before 20th & Get data to ArcOver Editor before 25th - of each month)

## HEDY LAMARR "frequency-hopping" Inventor

(9 November, 1914 – 19 January, 2000 )



Few know Hedwig Kiesler – aka Hedy Lamarr- was one of the great pioneers of wireless communications.

By the 1940's, both the Nazis and the Allied forces were using single-frequency radio-controlled technology. The draw back was if you tried to control your torpedo with a signal, eventually the enemy will find the frequency you are using. Once this is known they were able to jam and control the signal by putting out a strong noise signal on the given frequency.

In 1942 at the height of her fame as a Hollywood movie actress, Hedy Lamarr developed a new kind of communications system that couldn't be "jammed"; a system that would allow torpedoes and guided bombs to reach their targets. It was a way of encoding a message across a broad area of the wireless spectrum. If one part of the spectrum was jammed, the message would still get through on one of the other frequencies being used. The transmitter on a ship and receiver in the torpedo would synchronously hop from one frequency to another; "frequency-hopping." through 88 random frequencies. The jammer could try to jam all frequencies, but this would require too much equipment and power.

Lamarr's brilliant idea is used today in wireless communication and is how other people can be on cell phone networks without interrupting each other. Lamarr eventually got the recognition she deserved as an inventor - in addition to being known as a beautiful and a famous movie actress.

She and her co-inventor Antheil won the 1997 Electronic Frontier Foundation Pioneer Award as well as the BULBIE Gness Spirit of Achievement Bronze Award. (The BULBIE is considered the Oscar of the inventing world; the award is shaped like a lightbulb to evoke the spirit of Thomas Edison.)

Hedy Lamarr is the first woman to have won it. She died three years later at 86 years old, at her home near Orlando, FL.

( Hedy Lamarr was featured in #19 YL News March 2014, and in YL#29 News Dec 2015 when Google doodle (9 Nov 2015) celebrated the 101 birthday of Hedy Lamarr – Inventor & Movie Star.)

# HEDY LAMARR DAY: 9th November



## Amateur Radio Special Event



Hedy Lamarr Day — November 9, 2018

Special Event Call Sign: **N9H**

4 hour Net - Hosted by the WORLD RADIO NETWORK

Start Time: 12 noon est / 9 am pst / 1700 UTC



World Conference Server

IRPL 9251 / Allstar 47620



For more information contact: John [W2JLD2@gmail.com](mailto:W2JLD2@gmail.com)

## Amateur Radio Event



WORLD RADIO NETWORK was founded in 2014 by KT7JOE and WH6DWF. On November 9, 2016 they held the 1st Hedy Lamarr Day. The following year on November 9, 2017 they held the 2nd Hedy Lamarr Day, with 104 checkins, 40 QSL cards and 3 international stations 2018 will be their 3rd year of celebrating Hedy Lamarr Day.

W2JLD John, special event coordinator for the world conference server, feels its important to recognize Hedy Lamarr's accomplishments - We felt that a lot of young ladies (yl's) contributed to the success of amateur radio and Hedy Lamarr is no exception to the rule. She contributed to the ham radio world with her invention of the spread spectrum technology which we use each and every day. She was also a wonderful screen actress with many films to her name.

So we celebrate Hedy Lamarr's accomplishments on her birthday every year, with a special event ,and this year we secured a special event callsign **N9H** - November - niner - hedy lamarr; again we will offer a special event QSL card for this event.

We will run a 4 hour net with at least 2 yl's to be net controller and we will have several conferences

The Net will be held on the \*WORLD\* Conference server, ECHOLINK NODE #479886/IRLP 9251. Hosted by THE WORLD RADIO NETWORK We use the DODROPIN, STARLINK, WORLD, UK HUB, FRIENDS conferences and more. [W2JLD2@GMAIL.COM](mailto:W2JLD2@GMAIL.COM)

**DON'T FORGET TO VOTE !!**



**ARRL Members —**  
**Candidate Statement**  
**Kermit Carlson - W9XA**

It has been my privilege to serve as your Central Division Director since July 2016, and for the six years before as Vice Director. I have traveled to hamfests, conventions, and club meetings, and responded to your concerns. I have attended ARRL Board and Committee meetings working diligently to represent you.

The ARRL needs strong, committed, and experienced leadership to meet the challenges, we face.

I pledge to continue my efforts to;

- Steadfastly represent the consensus of the Central Division Members
- Work to protect the Amateur Radio Spectrum
- Support ARRL legislative action
- Improve ARRL member's services
- Protect Antenna Right
- Fight unfavorable land use conditions that restrict effective antennas
- Strengthen ARES

Please see [www.W9XA.com](http://www.W9XA.com) for additional information.

I would appreciate your continued support with your vote!

**FRRL Members —**

Getting ready to Vote for...

**FRRL 2019 Officers & Board of Directors**



The Nomination Committee will announce the 2019 FRRL Election Ballot at the **November 13th** Membership Meeting. They will also be accepting nominations from the floor for any of the FRRL positions.

**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>



# ARRL NEWS



## Education & Technology Program

### Inspiring Students in Radio Science and Wireless Technology

*"Today, the ARRL Education & Technology Program has become a flourishing and highly respected program that has brought Amateur Radio and*

*Wireless Technology to thousands of young people in hundreds of schools across the country. How? By giving teachers the knowledge, skills, and materials they need to give hands-on STEM experiences to their students... This extraordinary program is made possible entirely through members' contributions." - Former ARRL President, Kay Craigie, N3KN*

Kay and her husband, Carter N3AO, are leading donors to the ETP. Read Kay's [letter to members](#) with her appeal for your support.

Read mathematics teacher, Paul Braiman, W2PIR's [note of thanks](#) for the training and resources offered by ARRL's Teachers Institute on Wireless Technology.

**Your contribution to supports efforts to promote Amateur Radio through stations in schools and to provide professional development for teachers in wireless technology is needed now.**

**Clubs or individuals may want to consider [funding a seat](#) at the Teachers Institute as a way of making a specific, concrete contribution to educational outreach.**

### The Teachers Institute Includes Theory and Practice

The program continues to provide school station equipment grants and smaller resource grants to schools that demonstrate a plan for educational engagement. **Thus far, the ETP has provided resources and/or training to more than 500 schools and 650 teachers.**

The future of this exciting educational program will only be as promising as your generous financial contributions will support. The accomplishments of the Education & Technology Program are a direct result of the generosity of thousands of radio amateurs.



Questions about the Education & Technology Fund? [Contact](#)

*ARRL is an IRS-designated 501(c)(3) organization holding Federal tax ID #06-6000004. Contributions to ARRL are tax deductible to the extent allowed by law.*



## Armistice Day

### Special Call Signs Commemorate Centenary of World War I Armistice

Several countries around the world have authorized the use of special call signs or prefixes to mark the centenary of the armistice that marked the end of hostilities on the Western Front of World War I. The initial armistice took effect on November 11, 1918, at 11 AM (the Treaty of Versailles that officially ended World War I was not signed until the following year). Formerly known as Armistice Day in the US and in other countries, November 11 later became recognized as Veterans Day in the US, and as Remembrance Day in others, as a day to honor veterans of the armed services from all wars and conflicts.

While not a special prefix, WW1USA — the call sign of the National World War I Museum Amateur Radio Club — was on the air from the National World War I Museum and Memorial in Kansas City, Missouri, over the November 3 – 4 weekend. Other allied countries that took part in World War I will host special event Amateur Radio stations or call signs to commemorate the centenary of the Armistice.

In the UK, special event station GB100ARM will be on the air until November 28, operated by the HMS *Belfast* Radio Group. Operation will take place from the bridge wireless office aboard HMS *Belfast*.

The Wireless Institute of Australia (WIA) has secured special event call signs for use across all Australian states and territories to commemorate the signing of the Armistice. These will take the form VI#PEACE and VI#LWF, depending upon Australian call district — 1 through 0. Listen, too, for VI100PEACE and VI9PEACE from Christmas Island. These call signs will be available for use between November 3 and November 11.

In Belgium, radio amateurs may use the OP prefix instead of ON during November as part of the 100th anniversary. The “P” stands for “poppies.” The association between poppies and Armistice Day (and, later, Veterans Day and Remembrance Day) was inspired by the World War I poem “In Flanders Fields” by John McCrae, which refers to poppies as the first flowers to grow in the earth above soldiers’ graves in the Flanders region of Belgium. Veterans groups in some countries hand out paper poppies in conjunction with Veterans Day/Remembrance Day observances.

Additional stations include France’s TM5PAX, which is active on all bands and modes through November 11, and South Africa’s ZS100WWI, which is on the air for the entire month of November.



## South African Radio Amateurs Poised to Support Communications as Wildfires Rage

An intense heat wave and gale-force winds in the Western Cape region of South Africa have resulted in devastating runaway fires, threatening the towns of George and Karatara in the Southern Cape area since October 24. An Amateur Radio Joint Operational Center (JOC) was established on October 29, and radio amateurs were put on standby when parts of George experienced telephone and power outages in the Knysna area. Several new fires were also reported due to lightning.

At one point, those living in the affected areas were ordered to prepare for evacuation, although that order was later rescinded.

Radio amateurs in the Southern Cape have been asked to make their stations available to support emergency communication, should commercial systems fail. Johan Terblanche, ZS1I, in Mossel Bay, who administers the Amateur Radio Emergency Data Network ([AREDN](https://www.arednmesh.org/)), reports that the Amateur Radio JOC is currently active on the AREDN Mossel Bay Mesh Network, Echolink, AllStar, Twitter, and Zello. The Amateur Radio JOC will remain active until all fires are brought under control. The death toll as a result of fires in the Southern Cape area now stands at 7, and more than 800 have been evacuated. Disaster relief operations continue. — *Thanks to John Terblanche, ZS1I*

AREDN—Amateur Radio Emergency Data Network — <https://www.arednmesh.org/>

**Conventions**

**Go Now**

**Nov. 17-18, 2018** ■ Central Division (Fort Wayne Hamfest) ■ **Indiana**



## THE ILLINOIS 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 least 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-challenge-award/>

### Extra Class

E1F03

Answer - A *It was purchased in used condition from an amateur operator and is sold to another amateur operator for use at that operator's station*

## 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