



# ARCOVER

## FEBRUARY 2025



The Official Newsletter of the Fox River Radio League  
101 Years of continuous service to our communities

1924  2025

### Who We Are

**President:**

Kermit Carlson W9XA

**Vice President:**

Dan Nolan WA9FRY

**Secretary:**

Art Shuter NN9I

**Treasurer:**

Dan Harmon WA9YKK

**Director :1**

Will Sperling W9WSS

**Director: 2**

Pat Brod K9ANL

**Director 3**

Paul Mitchell KC9SEB

**Director 4**

John Greusel KC9OJV

**Past President:**

Terry Todd W9AUV

**Programs:**

Paul Mitchell KC9SEB

**Education / VE:**

Dan Nolan WA9FRY

**License Trustee (W9CEQ):**

[Kermit Carlson](#), W9XA

**License Trustee (W9NE):**

[Denny Barfuss](#) W9HI

**Newsletter Editor:**

Jerry Chapman N9JLC

**Webmaster:**

Mark Van Daele K9MEV

**Membership Database:**

Curt Sauer, W9YNP

**Net Coordinator:**

Curt Sauer, W9YNP

### 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.



#### Fox River Radio League

Mailing Address:

P. O Box 673

Batavia, IL 60510-0673

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

Website: <http://www.frrl.org>





From  
*the desk*  
of....

FRRL President



*Kermit Carlson*

While I write this note we are just recovering from sub-zero windchills for the past few days...certainly antenna weather cannot be that far off ! Although the weather is far from the 70's and 80's of June, it is not to early to begin making plans for Field Day. If you have an interest in helping, please contact Patrick Brod, K9ANL, (kb9anl@yahoo.com) early while he begins his organization of the FRRL Field Day.

As a reminder we are nearing the end of membership renewals for 2025. Please consider supporting the FRRL Repeaters with a donation when you renew. Our major project of a new antenna and feedline for the 223.860 MHz at the Plano repeater really needs membership SUPPORT. The move to this new location is very costly but will provide the Fox Valley and the Western Chicago Suburbs with a Wide-Area Coverage 222 MHz repeater - which is a repeater facility that has never existed on the 222 MHz band before.

When you renew please help make this a reality, donate to the FRRL Repeater. Your support is essential.

Thank You

73, Kermit W9XA

To Donate  
Click [Here](#)



**W9CEQ**



# ARC OVER

FOX RIVER RADIO LEAGUE  
MEMBERSHIP MEETING MINUTES  
JANUARY 14, 2025

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



*Fox River Radio League*  
January 2025  
Member Meeting

*Pal  
Joey's*



















This is the meeting minutes in picture form... We did actually do some club business - the 2025 officers were recognized,,,  
 Thanks **FRRL** for hosting this meeting !!

**2025**

**FEBRUARY**

**FOX RIVER RADIO LEAGUE**

**Sunday Monday Tuesday Wednesday Thursday Friday Saturday**

						1
 2 <b>INFORMAL ALL OPR NET 1900</b>	3 <b>CW NET 28.150 2000</b>  <b>SSB NET 28.720 2030</b>	4 <b>1900 FRRL BOD Meeting</b> 1930 FRRL 2m Net	5 <b>1930 FRRL 220 Net 223.86 - 110.9</b>	6	7	8
9 <b>INFORMAL ALL OPR NET 1900</b>	10 <b>CW NET 28.150 2000</b>  <b>SSB NET 28.720 2030</b>	11 <b>1930 FRRL Membership Meeting No Net</b>	12 <b>No 220 Net</b>	13 	14 	15
16 <b>INFORMAL ALL OPR NET 1900</b>	17 	18 1930 FRRL 2m Net	19 <b>1930 FRRL 220 Net 223.86 - 110.9</b>	20 <b>NEWSLETTER DEADLINE</b>	21	22
23 <b>INFORMAL ALL OPR NET 1900</b>	24 <b>CW NET 28.150 2000</b>  <b>SSB NET 28.720 2030</b>	25 1930 FRRL 2m Net	26 <b>1930 FRRL 220 Net 223.86 - 110.9</b>	27	28	
<div style="background-color: #c8e6c9; padding: 5px;"> <b>February meeting program:</b>            "A short guide to the alphabet soup of names in amateur radio Emergency Communications"            by Kermit W9XA         </div>				<b>MEMBER MEETING            BETHANY LUTHERAN CHURCH            8 SOUTH LINCOLN ST. BATAVIA IL</b>		
 <b>WCRA</b> 2m Net 8pm 145.31 -6 107.2	 <b>VARA</b> 2m Net 8pm 146.79 -6 107.2	 <b>FRRL</b> 2m Net 7:30pm 147.21 +6 103.5	 Kane County ARES 2m Net 6:30pm 145.47 -6 103.5	 Northern Illinois ARRL 70cm Net 7:30pm 444.875 +5MHz, 114.8		

# ARCOVER

## NEWS AND INFORMATION CENTER

*Local - National - International*

As the firestorms across Southern California continue to threaten millions of residents, trained amateur radio operators are serving critical volunteer roles to help officials spot fires before they get out of control. Dry conditions and wind gusts of 100 miles per hour have fueled days of devastating wildfires. Entire neighborhoods have been leveled by infernos.

While the main fires have been burning north and northwest of the central section of Los Angeles, just to the south, hams are standing watch. Orange County Fire Watch (OCFW) is a program locally organized by the Orange County Parks Department and the Irvine Conservancy.

During severe fire weather, volunteers go to preassigned locations within parks and open spaces to report conditions. Many of them are hams, using the amateur radio bands to fill in mobile network weak zones.

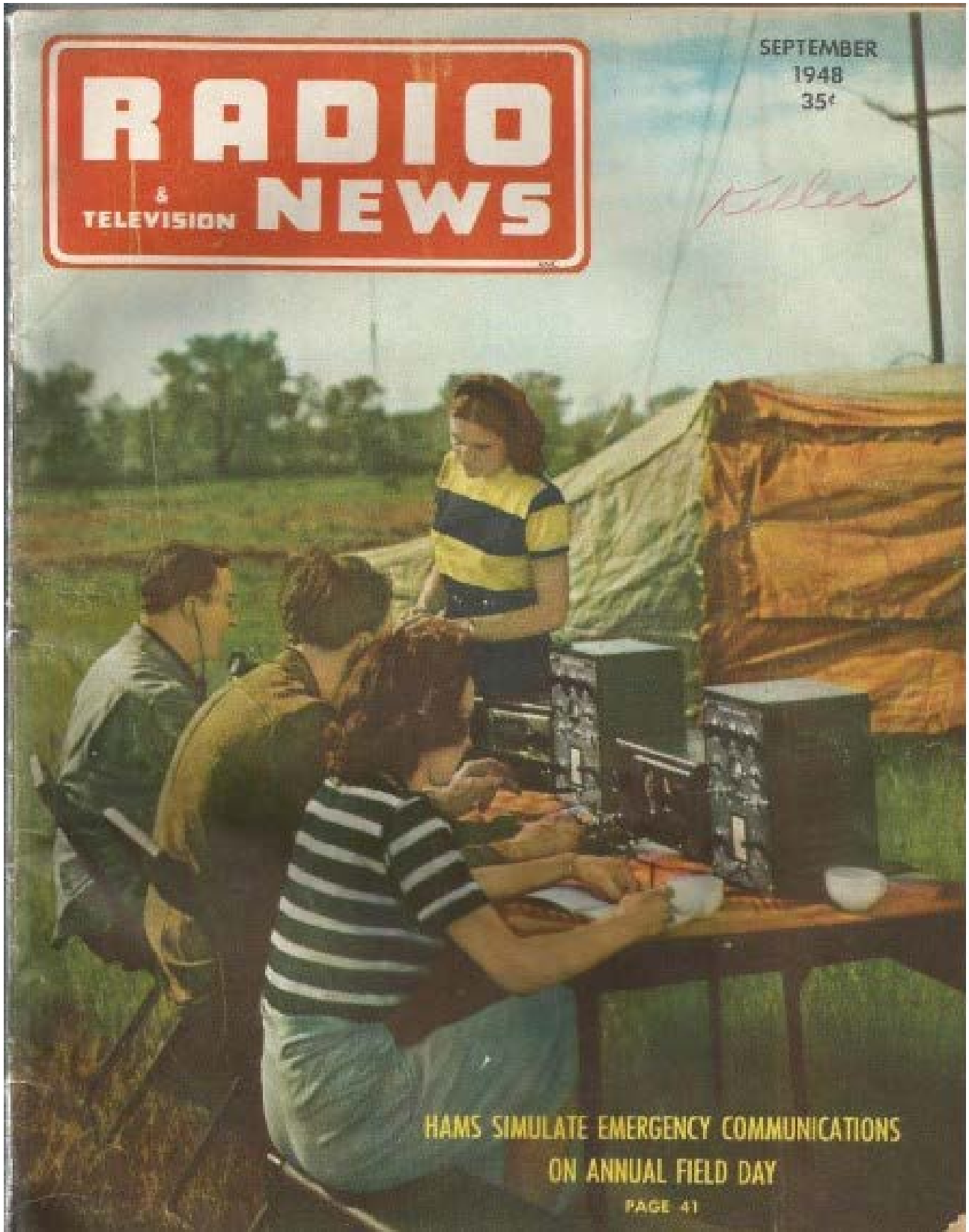
Ray Hutchinson, AE6H, is a retired Firefighter who serves as the chief radio officer for Fire Watch. He says local clubs are key to providing the needed RF infrastructure. "Our local club, the South Orange Amateur Radio Association (SOARA), an ARRL Special Service Club, provides linked 2-meter and 70-centimeter repeaters: one high level and one coastal, for use by OCFW hams during deployments. There is a formal OCFW Net Control Station (NCS) for the entirety of these events," he said.

Radio amateurs are also ready and able to serve at evacuation centers, providing support as needed.

Johnston urges hams in the affected regions to be ready to take care of themselves and their families before needing to deploy. He points to resources shared by ARRL's Amateur Radio Emergency Service® (ARES®) during National Preparedness Month. "These are stressful events for everyone, and being a ham volunteer is really second to keeping yourself and your family safe," said Johnston.

Taken in part from ARRL





Just something I came  
across - a cover page from  
1948







World Radio Day, observed every year on February 13th each year, is a UNESCO designated international observance to celebrate and cherish radios.

This day reminds us the role radios played in shaping societies, to inform, entertain, educate the masses and understanding across different communities.



**FRRL commemorative glasses are still available for \$5..**



**A very nice glass to have on hand for Valentines Day !!**



Please use this link to enjoy the pictures from the 100th Anniversary Banquet.

100th Anniversary Celebration Banquet Photos - Sept 10, 2024



[Click Here](#)







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Before the internet we had CB Radio and before that we had Amateur Radio enthusiasts in many towns worldwide. The history of amateur radio, dates to the dawn of radio communications, with published instructions for building simple wireless sets appearing at the beginning of the twentieth century. Throughout its history, amateur radio enthusiasts have made significant contributions to science, engineering, industry, and social services. Research by amateur radio operators has founded new industries, built economies, empowered nations and saved lives in times of emergency.

Taken in part from Facebook



**NEVER  
UNDERESTIMATE**  
  
**THE OLD MAN WITH A  
HAM RADIO**



## SILENT AUCTION

- The FRRL will be holding silent auctions for various pieces of radio equipment.
- The auctions will take place at the regular club meetings from November through April.
- Equipment will be available at the meeting for visual inspection.
- The FRRL has no idea as to the condition of the equipment. All equipment is auctioned "AS IS where IS"
- Payment is by cash or check due upon acceptance of your winning bid.
- The equipment to be auctioned and the auction dates are listed below

**Attached is an update of what's going to be auctioned starting with the February club meeting. There are a few new items including a Yaesu FL 2100 B linear amplifier. One was recently listed for sale on QRZ for \$675.**

**As a note, we auctioned off a Drake R4C receiver for \$75. One just listed on QRZ for \$300 "as is"**

**Attached is what should be the final equipment listing with auction dates.**

**73's Dan WA9FRY**

FRRL Silent Auction				
Qty	Manufacturer	Model	Type	Date
1	ICOM	IC 91 A	H/T	3/11/2025
1	Hammurland	HQ-110	Receiver	
1	Realistic	DX-150A	Receiver	
1	Hammurland	HQ-129X	Receiver	
1	Hammurland	HQ-140X	Receiver	
1	Collins	75-S-1	Receiver	4/8/2025
1	Collins	?	Receiver	
1	Yaesu	FT 1000MP Mark V	Transceiver	
1	Yaesu	FL 2100B	Linear	
1	Kenwood	TS 830 S	Transceiver	5/13/2025
1	Kenwood	TS 530 SP	Transceiver	
2	Yaesu	FT-101-EE	Transceiver	
1	Yaesu	FT-101	Transceiver	
2	Swan	CGYNET 260	Transceiver	
1	WRL	Globe Chief 90A	Transmitter	2/11/2025
2	WRL	Globe QZ-ZC-1 VFO	VFO	
1	Hallicrafters	HT-40	Transmitter	
1	Knight	T-150A	Transmitter	
1	Heathkit	DX-40	Transmitter	
1	Yaesu	FL-101	Transmitter	
1	Yaesu	FL-101	Transmitter	
2	Knight	T-60	Transmitter	

**Jeff Sipos  
1953-2025**

*Silent Key*



He was an amateur radio operator and belonged to the Fox River Radio League of which he was president for a few years. Jeff was a life-long, diehard Cubs fan. One of his favorite pastimes included listening to the sounds of nature speak to him. Not only did he love listening to nature websites but also found pleasure in hearing sounds such as geese flying over his house.

Taken in part from the obituary, Services and burial taken place in January



**Duane Plant KD9KO  
1948-2024**

The 55th Wing is the host unit at Offutt Air Force Base. Its mission is to provide dominant Information Warfare forces through

Electromagnetic Spectrum Operations, Information Operations, Intelligence, Surveillance, Reconnaissance, and Nuclear Command, Control and Communications

to the Joint Forces and national leadership, any time, any place. As a warfighting unit, the Fightin' Fifty-Fifth executes all five of the Air Force's core missions.

*Silent Key*



Services were private



Membership rates are as follows:

**REG:** Regular dues are \$30.00 per year,  
**FAM:** Family dues are \$40.00 per year (family members at the same address)

**SRC:** Senior Citizen dues (65 and older) are \$25.00 per year,

**STU:** Student (Full time, under 22) dues are \$25.00 per year.

**MIL:** Active Military dues are \$25.00 per year.

You can also help support the FRRL Repeaters by making a \$10.00 (or more!) annual contribution.

[Click Here](#)



# MEMBERSHIP RENEWAL

## Annual Dues

Question 1:

Why should a 5-ampere fuse never be replaced with a 20-ampere fuse?

- A. The larger fuse would be likely to blow because it is rated for higher current
- B. The power supply ripple would greatly increase
- C. Excessive current could cause a fire
- D. All these choices are correct



Question 2:

What is a good way to guard against electrical shock at your station?

- A. Use three-wire cords and plugs for all AC powered equipment
- B. Connect all AC powered station equipment to a common safety ground
- C. Install mechanical interlocks in high-voltage circuits
- D. All these choices are correct

**SAFETY**  
**STARTS WITH YOU!**

Answers On  
Last Page



**BUILDING AN EMERGENCY SUPPLY KIT FOR YOUR CAR**

**WHY?**  
Because you never know when you will encounter winter weather or an emergency road closure

AMERICA'S *PrepareAthon!*

- Cell Phone Charger
- First Aid Kit
- Jumper Cables
- Spare Tire
- Flares
- Water, Snacks
- Mittens, Hat, Boots, Warm Clothes
- Flashlight
- Snow Shovel and Brush
- Blankets
- Tow Rope
- Sand or Kitty Litter
- Full Tank of Gas

Be Safe This Holiday Season

**DRESSING FOR COLD WEATHER**

adding layers will help keep you warm as the temperature drops

**CHILLY**

- 1-2 layers
- long layer
- outer layer to keep out wind, rain
- warm shoes water proof

**COLD**

- 2-3 layers
- gloves
- warm hat
- outer layer to keep out wind, wet snow
- boots water proof
- 1-2 layers

**EXTREME COLD**

- 3+ layers
- 1 insulating
- gloves
- warm hat
- face mask
- outer layer to keep out wind
- boots water proof
- 2+ layers

weather.gov/safety

# How To Order Club Badges

Club name tag are done by: **Image Awards**  
1031E State Street  
Geneva IL

You can email your order to: [ImageAwards@SBCglobal.net](mailto:ImageAwards@SBCglobal.net)

**\*\* If using a credit card there is a 5% surcharge\*\***



Ask for the FRRLname badge  
and  
Don't forget to give them your name & call sign

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**PAY OR RENEW  
MEMBERSHIP DUES  
OR  
REPEATER DONATION  
[ON LINE HERE](#)**





# **FRRL Groups.io Group Message Board**

*By Curt Sauer W9YNP*

The FRRL has an active mailing list group on Groups.io. Members in good standing are eligible to join the mailing group. You should receive an invite upon joining the group to the email listed in your application. Your active club membership is required to be a member of our Groups.io group.

The group provides the following features:

Messages/Mailing List

View the calendar

Access to files including the club Bylaws and Membership Roster

Access to photos submitted by members. Great for sharing projects you're working on!

How do I join?

When your FRRL club membership is confirmed you will receive an email invite from Groups.io. The club membership form requests an email to be used by the club or members to contact you for club or ham radio related subject. If you already have a Groups.io account under a different email and wish to combine them there is a second field for that email. If it is filled in, you will get the invite in that email.

When you join, you can choose a profile you'd like to display to the group, select the email address at which you'd like to receive group messages, choose how you receive group messages, and more. You can receive messages via email or by reading the message boards within the group.

If you have questions or changes please contact the Group Administrator: [GroupAdmin \[at\] frrl.org](mailto:GroupAdmin[at]frrl.org).

## **GOUPS.IO - It's more than just messages.**

When you first login to your groups.io account, at <https://groups.io>, you will be presented with a list of the groups that you belong to.

Click on FRRL|Members

You will now see the groups messages in the right window pane and the navigation pane on the left.

Messages are the bulk of what we share and there are a lot of them. The web page has a very useful search function to find exactly what you want.

The following are a few sections that some members may not be aware of.

### Photos:

Members may share photos of Ham related activities here.

Show us a picture of your shack or your latest restoration/repair.

As long as it's Ham Radio related you can put a pic here.

Just click on the "New Album" button to add your photos.

### Calendar:

This doesn't have much in it at the moment, just meeting and Net reminders, but more is planned.

### Files:

This is where the important things are stored.

Example, the club roster is located in a directory called "Roster\_and\_ByLaws"

If you can't sleep and want to read the club's ByLaws, they are here as well.

Many of the presentations given after the meetings are also here.

Between GROUPS.IO and the club web page at <https://frrl.org> you are sure to find the FRRL information that you are looking for.





**If You Have Anything**  
**For Sale**  
**To Trade**  
**Looking For / Or**  
**To Loan**  
**Advertise Here**




**To advertise email: [NEWSLETTER@FRRL.ORG](mailto:NEWSLETTER@FRRL.ORG)**



Golden Rules  
of Borrowing

- Return it Quickly
- Return it in Great  
Condition
- Break it - Replace  
it
- Return the Favor



Hi All,

Just a friendly reminder that the FRRL conducts regular nets on 10 meters on Monday nights local time.

7:30pm (00:30 UTC) - 28420 kHz. A net for new Hams (especially Technicians) to encourage anyone with a license to get on the air using a shortwave frequency. Many new Amateur Radio Operators find it easy to build a 10 meter antenna when they buy their first HF transceiver. Anyone with a valid FCC Amateur Radio license can join in the conversation where we can talk about anything from pets, cars, activities, antennas, radios, etc. Here is an example of a 28420 net QSO (see MP3 audio Attachment).

8:00pm (01:00 UTC) - 28150 kHz, CW 10-10 net.

8:30pm (01:30 UTC) - 28720 kHz Phone (SSB) 10-10 net. 10-10 nets are sponsored by members of the Ten-Ten International Net organization. Its purpose is "to promote activity and good operating practice on the ten meter amateur band." You do not have to be a Ten-Ten member to participate. [www.ten-ten.org/what-is-ten-ten](http://www.ten-ten.org/what-is-ten-ten)

**Tom Lebryk**

**KD9NPR**





# *W9CEQ Radio Nets*



## Sunday

**All Operators Net**  
1900 hrs (7pm) local time  
147.21 103.5PL +600

## Monday

1930 hrs (7:30pm) local time 28.420 USB Phone  
2000 hrs (8pm) local time 28.150 CW  
2030 hrs (8:30 pm) local time 28.720 USB Phone



## Tuesday

1930 (7:30 pm) local time  
147.21 103.5PL +600  
Except for the 2nd Tuesday of the month

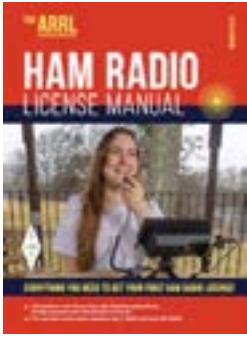


## Wednesday

1900 hrs (7:00pm) local time  
223.860 110.9kHz PL -1.6Mhz  
Except for the 2nd Wednesday of the month.

We will have an informal net with checkins and a question of the day. The goal of the net is to encourage 220 usage along with getting to know your fellow 220 Mhz users so that we can exchange usage and coverage data to ensure that we have one of the best 220 repeaters in the area.





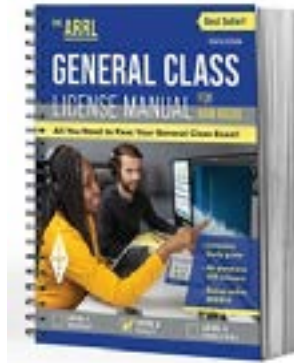
**Technician Class**

**Wednesday Evenings  
6:30 P.M. to 9:30 P.M.**

**Start: TBD  
End:**



**Tech & General** classes are done on **Zoom**. The Meeting Link to be distributed prior to the class.



**General Class**

**Wednesday Evenings  
6:30 P.M. to 9:30 P.M.**

**Start: 1/22/2025  
End: 4/9/2025**

**EXTRA** classes are held in person at:

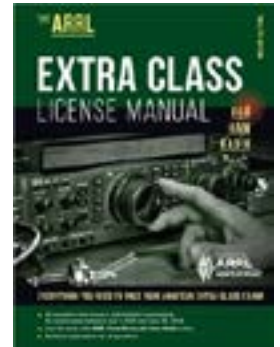


113 Oak St, North Aurora, IL 60542

**Extra Class**

**Saturday Mornings  
9:00.AM. to 12:30 P.M.**

**Start: TBD  
End:**



The Fox River Radio League (FRRL) presents regular training classes focused toward new Amateurs interested in gaining their Technician class license or upgrading to the General and Extra class licenses.

These are free courses where you will learn everything you need to receive or upgrade to the appropriate FCC radio license.

The textbook for the class will be the official ARRL License Manual. Books are available for purchase through the ARRL website.

Classes are instructor-led, and you can expect engaging conversations to ensue around the topics of discussion.

In addition to our regularly scheduled bi-monthly testing we will be scheduling a dedicated VE session after discussing best availability with the class participants. For more information on VE sessions, please see [VE Test Sessions](#).



Please Note that Tech & General classes are 9 weeks long..  
Extra classes are 12 weeks long.  
You can contact Dan Nolan at: [Education@frrl.org](mailto:Education@frrl.org)  
if you have any questions

Students should read the material in advance of the class. Also bring an inexpensive calculator like a TI-30 x and a notebook and pencil or pen.



# VE Testing

The FRRL, in conjunction with the ARRL VEC, sponsors regular amateur examinations the third Thursday of every odd month. Ad-hoc sessions are planned during major events and will be added to the schedule here as well.

Upcoming Testing Schedule for **2025**

- January 16
- March 20
- May 15
- July 17
- September 18
- November 20



Testing Location:  
Geneva Lutheran Church  
301 S 3rd St,  
Geneva, IL 60134

Please also be sure to bring:

- Photo identification
- Your FCC generated FCC Registration Number (FRN).
- The fee of \$15.00. (The FRRL receives no portion of this fee.)
- If upgrading bring your original FCC HAM Radio License (or the documentation you received) and a photocopy of your license.

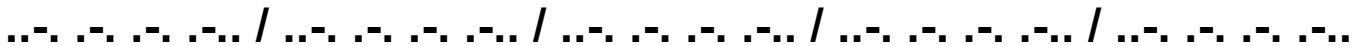
If you have questions about the testing program, please email the Chairman at: [ve@frrl.org](mailto:ve@frrl.org)

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## **Illinois Traffic Net**



You can also participate in one (or all) of the Illinois Traffic Nets. Everyone is welcome with or without traffic. The nets are the North Central Phone Net, Daily (M-F) at 7 a.m. local time, on 3912 kHz LSB; the Illinois Phone Net, Monday – Friday at 4:45 p.m. local time, on 3857 kHz LSB and on Sunday at 8 a.m. on 3940 kHz; and the Illinois Sideband Net, Daily at 6 p.m. local time, on 3905 kHz LSB.





**Ham Fests**

Feb 01, 2025, 8:00 AM – 10:00 AM CST

Carol Stream, 570 S Gary Ave, Carol Stream, IL 60188, USA

Click [HERE](#) for more info



So there isn't much to do in Illinois you may decide to,,,,,

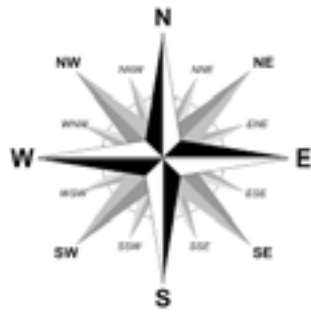
02/16/2025 | The White House Communications Agency Amateur Radio Club Presidents Day 2025 Commemoration

Feb 16-Feb 18, 0000Z-0000Z, W0H, Jackson, OH. White House Communications Agency Amateur Radio Club. 3.875 MHz 7.275 MHz 14.250 MHz 28.550. Certificate. Lowell Yates, 6809 Four Mile Rd, Jackson, OH 45640. The White House Communications Agency Amateur Radio Club is excited to honor all of our Presidents this Presidents Day. We would like to especially recognize the Presidents for whom the White House Communications Agency "(WHCA) has provided communications support since its founding in 1942. A WHCA-ARC Special Event certificate will be awarded to commemorate this special occasion.

For more information, please visit our events page. <https://whitehousecomms-arc.org/events/whca-arc-presidents-day-special-event/> <https://whitehousecomms-arc.org>







02/07/2025 - 02/09/2025

Orlando HamCation, Southeastern Division Convention

Location: Orlando, FL

Click [HERE](#) for more info



02/08/2025 - Hendricks County Hamfest, ARRL Indiana Section Convention

Location: Danville, IN

Click [HERE](#) for more info



02/14/2025 - 02/15/2025

Yuma Hamfest, ARRL Southwestern Division Convention

Location: Yuma, AZ

Click [HERE](#) for more info



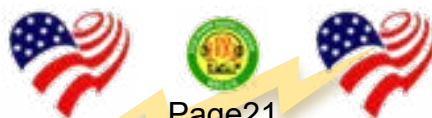
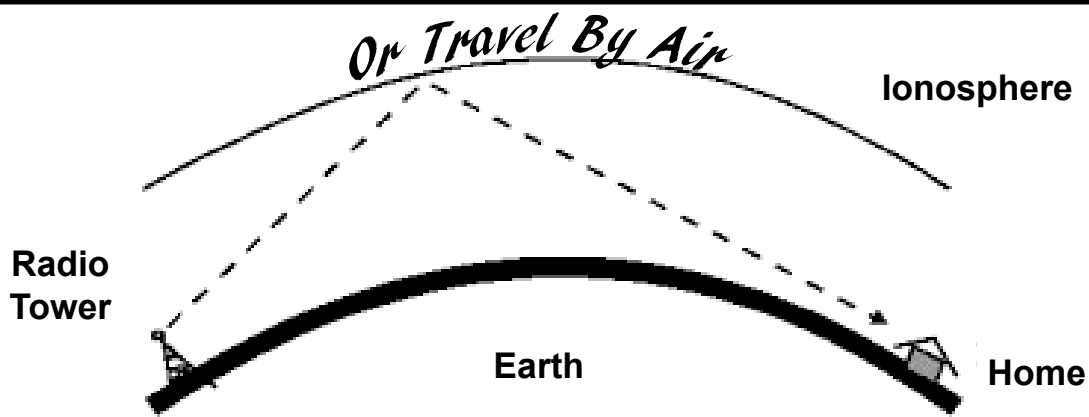
02/16/2025 - The Swapfest

Location: Brighton, CO

Type: ARRL Hamfest

Sponsor: Rocky Mountain Ham Radio, Inc

Click [HERE](#) for more info



# The Radio Amateur's Code

The Radio Amateur is...

**CONSIDERATE...** He never knowingly operates in such a way as to lessen the pleasure of others.

**LOYAL...** He offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his country through which Amateur Radio in his country is represented nationally and internationally.

**PROGRESSIVE...** He keeps his station up to date. It is well build and efficient. His operating practice is above reproach.

**FRIENDLY...** He operates slowly and patiently when requested; offers friendly advice and counsel to the beginner; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

**BALANCED...** Radio is a hobby, never interfering with duties owed to family, job, school or community.

**PATRIOTIC...** His station and skills are always ready for service to country and community

...adapted from the original Amateur's Code, Written by Paul M Segal, W9EEA, in 1928

© John Devoldere 0N4UN and Mark Demeuleneere 0N4WW

Taken from: [Ethics and Operating Procedures for the Radio Amateur.](#)

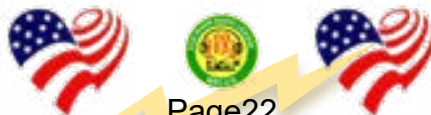
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## BRING BACK "RADIO IN THE PARK"

Harry Jones K9DXA" started "Radio in the Park" years ago. His idea was take your radio out to a local park and set it up and operate. Since we can't have any thing big, just take your rig, wear your mask, set up an antenna, radio and have fun.



The idea of this is bring ham radio to the public. Make a small sign with your name, call sign, and please add FRRL also. Would like some photo of your operation. May get someone to take a picture of you operating. Will try to get your picture into the news letter. Please send a short report to me at my FRRL address. [Director3@frrl.org](mailto:Director3@frrl.org)



There are plenty of volunteer organizations that could use your radio skills.



Consider volunteering  
you can make  
the difference !!



**American Red Cross**



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The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

## **ARES**

Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES.

### **ARES Resources**

- [Download the ARES Manual \[PDF\]](#)
- [ARES Field Resources Manual \[PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Fillable PDF\]](#)
- [Emergency Communications Training](#)



**ARES**

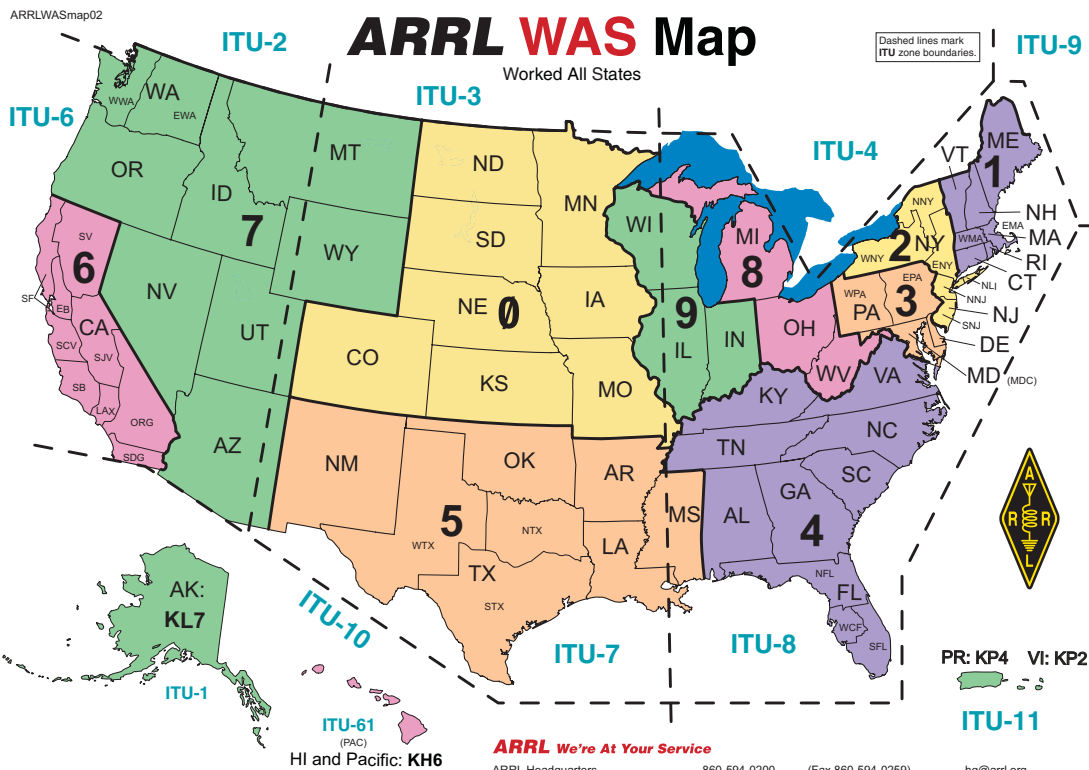
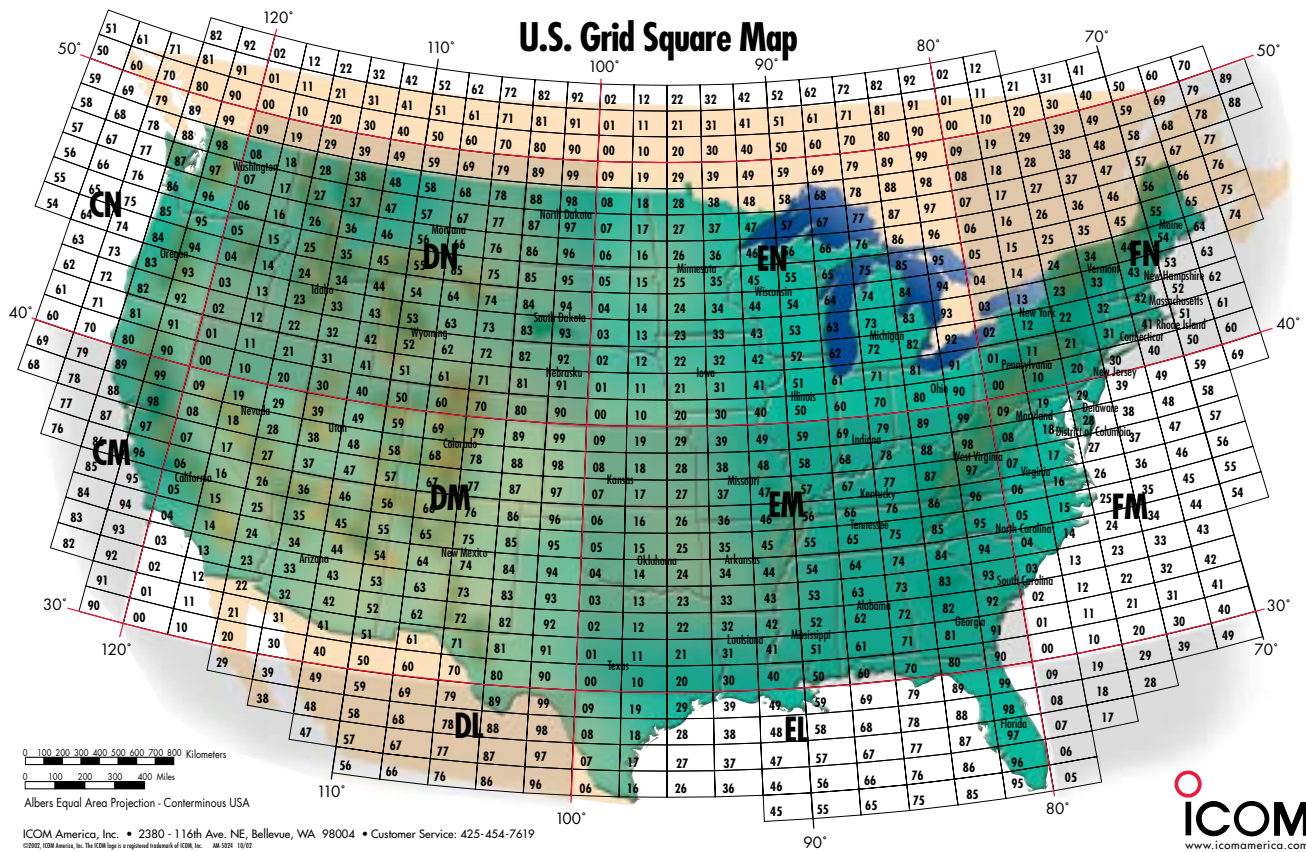
**Kane County ARES**

Information

[Click Here](#)







**ARRL** The national association for  
**AMATEUR RADIO**

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Membership/Circulation Desk  
Getting Started in Amateur Radio  
Exams  
ARRL on the World Wide Web







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newham@arrl.org  
vec@arrl.org



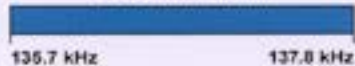
# US Amateur Radio Bands

Operator license classes: **E** = Amateur Extra **A** = Advanced **G** = General **T** = Technician **N** = Novice  
CW operation is permitted throughout all amateur bands. Except as noted, all frequencies are in megahertz (MHz).

 = RTTY, data, phone, image     = USB phone, RTTY, data and CW     = RTTY and data     = phone and image  
 = SSB phone     = CW only

## LF – Low Frequency band

**2200 Meters (135 kHz) E,A,G**  
1 W EIRP maximum



## MF – Medium Frequency bands

**630 Meters (472 kHz) E,A,G**  
5 W EIRP max, except in Alaska within 496 miles of Russia where the limit is 1 W EIRP



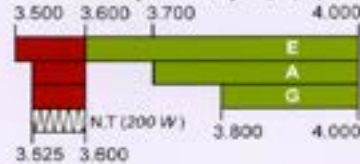
**160 Meters (1.8 MHz) E,A,G**



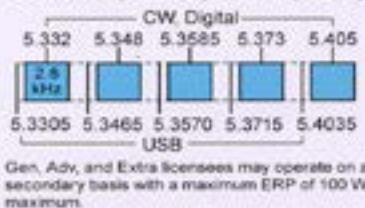
Amateurs wishing to operate on 2200 or 630 meters must first register with the Utilities Technology Council online at <https://utc.org/utc-database-amateur-notification-process/>. You need only register once for each band.

## HF – High Frequency bands

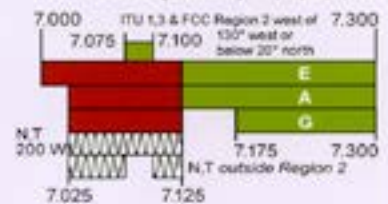
**80 Meters (3.5 MHz) E,A,G,T,N**



**60 Meters (5.3 MHz) E, A, G (100 W)**



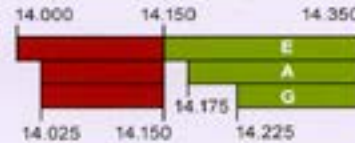
**40 Meters (7 MHz) E,A,G,T,N**



**30 Meters (10.1 MHz) E,A,G**



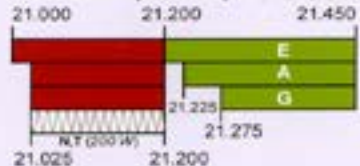
**20 Meters (14 MHz) E,A,G**



**17 Meters (18 MHz) E,A,G**



**15 Meters (21 MHz) E,A,G,T,N**



**12 Meters (24 MHz) E,A,G**



**10 Meters (28 MHz) E,A,G,T,N**



## VHF – Very High Frequency bands

**6 Meters (50 MHz) E,A,G,T**



**2 Meters (144 MHz) E,A,G,T**

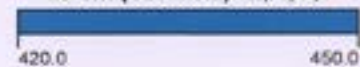


**1.25 Meters (222 MHz) E,A,G,T,N**



## UHF – Ultra High Frequency bands

**70 cm (420 MHz) E,A,G,T**



**33 cm (902 MHz) E,A,G,T**



**23 cm (1240 MHz) E,A,G,T,N**

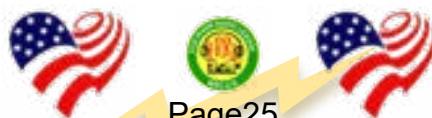


## SHF&EHF – Super and Extremely High Frequency bands

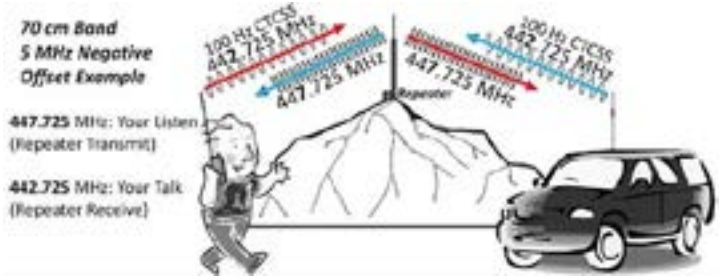
All licensees except Novices are authorized all modes on the following frequencies:  
 2300-2310 MHz    3300-3500 MHz    10.0-10.5 GHz    47.0-47.2 GHz    122.25-123.0 GHz    241-250 GHz  
 2390-2450 MHz    5650-5925 MHz    24.0-24.25 GHz    76.0-81.0 GHz    134-141 GHz    All above 275 GHz

See [www.ant.org/band-plan](http://www.ant.org/band-plan) for detailed band plans.

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OTA bands rev. 1-22-20



**FRRL**



**AND OTHER LOCAL REPEATERS**

**FRRL Repeaters- W9CEQ**

**147.225 MHz** - Plano  
Mode: **Auto C4FM / Fusion, FM, Wires X**  
+600 KHz Offset, 100.0 Access Tone

**147.21 MHz** - Elburn  
Mode: FM (Echolink Available)W  
+600 KHz Offset, 103.5 Access Tone

**444.300 MHz** - Elburn  
Mode: FM  
+5 MHz Offset, 114.8 Access Tone

**223.86 Mhz** - Aurora  
Mode FM  
-1.6 Mhz Offset, 110.9 access Tone

**442.10625 MHz (B)** - Elburn  
Mode: D-Star  
+5 MHz Offset



**Other Area Repeaters W9XA**

**53.910** - Batavia  
-1.0 MHz offset PL 114.8 Hz

**224.4 MHz** - Batavia  
-1.6 MHz offset PL 103.5 Hz

**443.64375 MHz** - Elburn  
+5 MHz offset DMR 311759

**443.65625 MHz** - Plano  
+5 MHz offset DMR 311760

**1292.00 MHz** - Batavia  
-20 MHz 114.8 Access Tone

**927.625** - Batavia  
+25 MHz offset PL 114.8 Hz

**W9DWP**

**145.270 MHz** - Elburn  
-600 KHz offset PL 107.2  
ARES APCO P25 NAC 293

**NIARC W9ZGP**

**147.06 MHz** - Batavia  
Mode FM +600 kHz offset PL 103.5.

**Auto C4FM / Fusion, FM, Wires X Repeaters**

**K9IIK/R**

**442.275 MHz** - Schaumburg  
Mode: **Auto C4FM / Fusion, FM, Wires X**  
+5 MHz, 114.8 Access Tone

**W9CHI**

**444.600 MHz** - Channahon  
Mode: **Auto C4FM / Fusion, FM, Wires X 30024**  
+5 MHz, 136.5 Access Tone

**KD9FA**

**443.600 MHz** - Oswego  
Mode: **Auto C4FM / Fusion, FM, Wires X**  
+5 MHz, 107.2 Access Tone

**KC9OEM**

**Primary Kane County SKYWARN / ARES**

**145.470 MHz** -St Charles  
Mode: FM  
-600 Offset, 103.5 KHz Access Tone



**444.525 MHz** -St Charles  
Mode: **Auto C4FM / Fusion, FM, Wires X**  
+5 MHz Offset, Access WWTone114.8

ANSWERS PG 13  
Q1 "C"  
Q2 "D"