



Arc Over

Fox River Radio
League
PO Box 673
Batavia, IL
60150-0673

December, 2009

President's Traffic

By Mike Urso, K9FE

First I wish to applaud those who attended and completed the General upgrade class run by Eric AB9OS. His dedication to the class is admirable. At the following VE session many achieved their upgrade to the General Class license. Congratulations to the NEW Generals. One student passed Tech and General at the session! Keep watching for announcement of the class geared towards an Extra Class License upgrade.

December is a very special meeting historically for the FRRL. As a tradition we collect food donations for Hessed House, which assists the homeless and needy in the Fox Valley area with meals and support. They have been in existence for decades. The FRRL has collected food items for the charity at the December meeting for many years. This year we hope to bless them with as many food items as possible. It used to be said that the price to get in the December meeting was a bag of canned goods or non-perishables. Help out the cause and bring a collection to help those less fortunate than you.

I will make a point of keeping the meeting focused on the election and the Raffle/Christmas party. In the election we will choose the members that will be guiding the FRRL through 2010. Each member on the accepted slate will get a chance to tell you a little about themselves and their involvement in the hobby. There is quite a bit of experience on the slate. There were no nominations from the floor in the November meeting, but if you would still like to run for office a write-in campaign must be organized. It is always a possibility that a write-in campaign could work. The new officers will be installed at the January 2010 banquet. We will also vote for Ham of the Year at the December meeting. I will announce the honored member at the banquet. This is a tradition and is given to a member that has shown outstanding attitude, action, and contribution to the Ham radio hobby. Put on the thinking caps in advance and think about this. You must have been an FRRL member for at least 2 months to be able to vote in any of our December elections.

After the election and counting of the ballots we will have time to socialize and "test" some treats. You are encouraged to bring cookies etc. for the consumption of the members. After the break the election results will be announced to the wild cheers and applause of the members present. Then comes the highlight of the meeting, the Raffle and Christmas Party with its gift table. Every general meeting raffle ticket sold in 2009 will be in the bin for a second chance. However the second chance is for some great prizes. One of them is a Yaesu VX-6 handheld! In many previous years you were not able to buy tickets for this raffle at the December meeting. However, due to popular demand, I think that it will be allowed this year. So go into the seat cushions of the couch and bring in your spare change...it could turn into a dual-band HT if you are lucky!

RENEW RENEW RENEW. I can't say it often enough. This year it is very important to do it early. The roster will be produced on time and you must be paid up by January 31st to be included in the printed roster. This year we will be mailing out our rosters so we need them completed as soon as we can. If you renew late you will be listed in the electronic version of the roster, however. This PDF (Portable Document File) version will be updated monthly and is available only on the FRRL Yahoo group. You must be a member to access the group and approval to join the Yahoo group will be verified by Bill NF9D, so your information is

(Continued on page 3)

**Minutes of the Regular Meeting of the General Membership of the
Fox River Radio League (FRRL) an Illinois not-for-profit Corporation
Held at Rasmussen College, Aurora, IL**

Meeting Minutes November 10, 2009.

Meeting called to order at 7:30 PM by Mike Urso K9FE – President with 60 members present.

Question: How many years have you been an FRRL member?

Secretary Report: Bill W9WRS– meeting minutes available on Web and Arc Over! Motion to accept Justin KC9NYY, 2nd KC9EOQ. Minutes accepted.

Treasurers Report: Dean KC9EOQ - Total Assets: \$24,744.98 (Savings = \$5,264.75 Certificates of Deposit = \$16,773.55. Repeater fund is \$4,102.20, Petty cash is \$69.74. Checking Acct. - \$2,636.94) Report accepted.

Committee Reports

Hamfest: Dean KC9EOQ – Jere KA0KPO will assist Dean with this activity. Next Hamfest July 11, 2010.

Membership: Justin KC9NYY – Currently 190 members. Taking renewals starting tonight. Can send check. Can print renewal form from web and mail.

Newsletter: Tobi K9TCD – No report.

Repeater Committee: Dick AH6EZ – Completed 440 repeater swap. No internet yet. 2M – no change.

Yahoo Group: Bill NF9D – Everything is going smoothly with all club Yahoo groups. All members are welcome to join if they have not done so already.

Linux SIG: Next meeting is December 5, 2009 @ 9:00 – 12:00 – Rasmussen. 6 people attended on 11/7/2009. Mike K9FE will take over leadership in Jan, 2010.

Software Defined Radio SIG: Harry K9DXA Next meeting is Nov. 14, 2009 @ 9:00 – 12:00 at Rasmussen College.

Net Control: Adam KC9ITG – The deadline for net announcements is the Sunday before the net.

Public Relations: Jere KA1KPO – Need a volunteer to run the Scarecrow Festival in 2010. Speak to Jere or a board member if interested in volunteering.

Website: Please volunteer to help Tom WB9CHY handle the webmaster duties.

Field Day: Eric AB9OS – Will be on the 4th weekend in June, 2010. There will be more information at the December meeting.

eQSL: Bill NF9D – This year's Field Day logs are posted. Continuing to work on older data. DX QSL – Jack K9JE – Bring any DX qsl's for the bureau with a copy of your member information from the front of a QST magazine.

Raffle: Chris KC9IEQ – Last chance to purchase tickets to be eligible for the December raffle.

Education: Eric AB9OS – General class upgrade classes continue as scheduled Sat. Nov. 14 9am-12:30pm. Class ends just before the Nov. 17 VE test @ Rasmussen. 9 people have been attending.

Program: 100 things to do with Ham Radio by Dick AH6EZ.

Member Announcements

Need someone to volunteer to take over coffee & donuts for the meetings. This activity will stop in January if no volunteer is found to take it over.

Tickets now available for the Winter Banquet, Jan 30, Peyton's Roundhouse.

New Business

Nominating Committee: Craig AB9IV, Justin KC9NYY, Larry W9OKI – The 2010 slate for the board of Directors was presented as follows:

John AG9D - President

Harry K9DXA – Vice-President

Bill W9WRS – Secretary

Dean KC9EOQ – Treasurer

For Director – 2 positions to be filled – Larry K9ARZ , Chris KC9IEQ, Adam KC9ITG, Neil KB9RFX

A call for nominations from the floor was made. With no nominations forthcoming, a motion to close the nominations from the floor was made by Bart KC9EOQ, 2nd by Steve N9USZ. Approved. With that motion, the slate for the ballot was closed and no further nominations for the 2010 slate can be made. There will be a write-in candidate space provided on the ballot.

Eric KC9FQV had comments about ATT U-verse causing interference on HF bands and had suggestions on how to approach solving them.

The December 1, 2009 Board meeting will be at Rasmussen College in Aurora, IL.

The December 8, 2009 General meeting will be at Rasmussen College in Aurora, IL.

The January 5, 2010 Board meeting will be at Rasmussen College in Aurora, IL.

The January 12, 2010 General meeting will be at Rasmussen College in Aurora, IL.

Motion to adjourn by Larry W9OKI , 2nd by Craig AB9IV

General meeting adjourned at 8:30 PM.

Respectfully Submitted:

Bill Stamps W9WRS
FRRL Secretary

December Program Notes

The December meeting will include the annual balloting for 2010 Board positions, and the club holiday party and raffle. Be sure to attend to join in all the fun.

(President's Traffic Continued from page 1)

pretty safe. If you need help with the Yahoo group, contact Bill for assistance.

When you renew in December purchase your banquet tickets at the same time (this year we will accept both payments on the same check if you want). Our esteemed Past-President Greg, N9CHA, has a great banquet planned. It is at Payton's Roundhouse on January 30th (the week after the Winterfest), and we will have a great time. Thanks to Greg and Mike KC9JBX, our own "Brewmaster", the night will be one to remember. The Roundhouse is known for excellent food and a great mini-brewery producing some world class beers and root-beers. This year Mike has planned a talk (and tasting) of beer and ale styles from around the world. Also the hint of more entertainment has been heard.

See you at the meeting, Mike K9FE

New Members

Welcome to the Following New Member:

CALL	NAME
KC9OPV	Michael Cicchetti

FRRL Winter Banquet Theme: "Beer From Around The World"

The FRRL 2010 Banquet is going to feature our very own Mike KC9JBX, the brewmaster at the Walter Payton Roundhouse. This year he is going to take us on a tour of the world... the beer world that is! We are also planning on having a magician entertain us at our tables, and the possibility of a comedian to keep things fun. The ticket prices have remained the same as they were last year. The Beef entree is \$37, Chicken is \$31 and the Vegetable option is \$28. Our Banquet will be held on Saturday, January 30, 2010 at 6pm. A cash bar is available; door prizes too! Awards and our new Officers will be installed. Please see Dean KC9EOQ for tickets at the next meeting.

Or, email Greg@N9CHA.com for ticket reservations. Please see our web site, www.frrl.org for complete information.

HSM....What??

By John Spasojevich, AG9D

HSM = High Speed Multi Media. Simply put this is utilizing and adapting 802.11 devices for ham use. What are 802.11 devices? The main components are Wi-Fi cards either USB or PCMCIA and routers with wireless capability. Routers and Wi-Fi cards, sounds like yet another case of "that's not radio"! You couldn't be more mistaken. In its most basic form two Wi-Fi equipped laptops connect to each other directly (ad hoc); no internet is required. In more complex systems, gain antennas – beams and dishes up to 24 db gain – are added to the routers (access points or nodes for you old packet guys), which now act as repeaters, relaying

Bill Erickson HF Challenge Update – Mid-November 2009

By Eric Needles, AB9OS

Another good month for HF contacts! As you'll notice in the chart below, there have been a lot of updates. Although this is the final HF Challenge article for the year, there are still a few weeks left to get active. Any club member can get involved in the Challenge, just make contacts on HF and submit, and you'll receive a beautiful certificate at the FRRL Banquet.

As you will notice on the front of your HF Challenge sheets, all worksheets/applications are due to Joe NA9A prior to January 15th. You can give him your log in person, or mail to The Challenge Administrator, NA9A, PO Box 1383, St. Charles, IL 60174.

Congratulations to Charles, KC9DAO who says "last weekend I finally put up an old hy-gain 3 element 20 meter mono-bander at 36 feet, now DX is like shooting fish in a barrel. Should help my score."

Larry, K9ARZ commented "last new one worked on PSK was Armenia (EK5), conditions dropping off as we head into winter, although the VKs are still coming through on the long path."

Another good list of DX for Dick AH6EZ who reported contacting 9J2 TX5 ZK2 ZY0T HC8 ZF2 ST2 5H5 AH0 FR5 C56 P29 XR0Y TN5 FP 9G5 T30 TX3 since last month. He also worked 5 countries in a row on 12m including ZL1. Many of you might have heard a recording of Dick on the QRZ.com website as he worked his first QSO on the South African SO-67 satellite. Way to go Dick!

Another DX chaser, Jeff, K9BQL worked K4M(Midway Is.), XR0Y(Easter Is.), TX5SPA(Austral Is.), TX5SPM(Marquesas Is.), E51NOU(South Cook Is.), TY1MS(Benin), SU1KM(Egypt), SX5P(Dodecanese), WH2X(Guam), HC8A(Galapagos Is.), ST2KSS(Sudan) and P29VCX(Papua New Guinea). FB on all Jeff.

Final scores and category winners will be revealed at the FRRL Banquet on January 30th at Walter Payton's Roundhouse in Aurora. And now for the numbers...

Limited Class	States	Provinces	DX Countries	Total
K9MMS-CW	50	11	142	203
K9ARZ-PSK31	50	19	122	181
AB9OS-CW	45	6	9	60
KC9FQV-Digital	32	4	13	49

Operator Class	States	Provinces	DX Countries	Total
K9BQL	49	13	180	242
W9DTR	50	11	107	168
KC9DAO	45	9	79	133
K9TCD	47	7	70	124
K9IH	43	6	45	94
WB9CHY	43	5	35	83
KC9EOQ	33		48	81

QRO Class	States	Provinces	DX Countries	Total
AH6EZ	50	13	197	260
NA9A	43	9	193	245
N4LZ	48	11	133	192
W9GIG	32	4	124	160

Ragchewer Class	States/Prov.	DX Countries	Total
W9DTR	13	15	54
AH6EZ	32		42
KC9FQV	17/2	4	23
K9IH			21
NA9A	10	6	16
AB9OS	2		2
WB9CHY	1		1

(HSM....What? continued from page 3)

the signals of the laptops. Wi-Fi channels 1 through 6 fall within the 2.4 GHz ham band. Channel 1 is avoided due to AMSAT operations and Channel 6 is avoided because it's the most common default channel for routers. So we are using ham frequencies, connecting ham stations and sending traffic of interest to hams so yep, its ham radio.

Speaking of traffic, what can we do with this? What is the Multi Media? Many HSMM operators use MS Net Meeting (if you run WinXP it's already in your computer so you have yet another piece of the puzzle already). With this we can send Digital TV (live action), send text in a chat window, exchange files (Word, Excel, etc), create a diagram on the other person's desktop, share that desktop with all users and converse in full duplex FM quality audio **SIMULTANEOUSLY!**

So what! Big deal. You're right, it is a big deal. Imagine being at an emergency scene and being able to send live video images of what is happening back to everybody on the HSMM radio network, back to the EOC, and without using expensive ATV equipment. All that is often needed is just your laptop computer, a special PCMCIA or USB card, your digital camera, and a small antenna. If internet is available it can be added to the access point, perhaps on a tower at the EOC, and now you have Winlink2K capability. In non disaster roles HSMM can provide internet service to a repeater site or a camera at a location along a race course. Except for the inexpensive special card and the antenna, you may already have all this gear!

Several FRRL members have been experimenting with HSMM. Since we are using off the shelf 802.11 equipment designed for the Part 15 world range is limited due to the low power. A recent test at Elburn Woods connected two laptops via USB Wi-Fi adapters modified by the addition of a suitable reflector. Full connectivity reached about ¼ mile. Not much but a start. There are many systems which routinely operate in 5 to 15 mile ranges. The greatest distance recorded so far is 72 miles. With 2.4 GHz height above ground is key. If you can't get up in the air, you need flat terrain without trees, so in our area there are physical limitations. However setting up an access point with an IP Camera along a race course can be a nice thing, especially if you are short of volunteers. We have continued our testing and have had some success and some failure as well. But we are having fun experimenting.

(Continued on page 6)

Experimentation is one of the hallmarks of Amateur Radio. Some hams spend thousands on new rigs. In HSMM you can get started for the cost of a USB or PCMCIA card (\$10-\$60) and some screen for a reflector. Add a router (\$50 if you don't have an old one on the shelf). If you want to add a gain antenna to the router you can find them on e-bay for \$50. So here you are, experimenting in the rarified air of 2.4GHz for about \$150 at the most, probably less and maybe even having fun.

If you take a look at www.ntms.org and click on 802.11/HSMM there are other sources on the web too, but be careful if you Google HSMM you'll find other things which are not ham HSMM. The ARRL had a HSMM working group which was disbanded in 2007 so there isn't too much available from them other than a section in their Digital Communications manual. If you are interested in checking out HSMM, keep an eye on the club Yahoo group, we'll post messages there when we are heading out.

Contest Corner

ILQP 2009

From Dick AH6EZ: My best effort ever (56.3K vs 43.3K points). After several years of operating mobile from Alabama while returning from a motorcycle race, I was motivated. I made 128 CW QSOs and 302 PH contacts. The contest started off with a surprise. I pointed the beam toward EU and thought I would just work a few 20m DX stations. Someone spotted me as AH6EZ/9 (Wake Island). What a pile up! I struggled to make 22 contacts in 21 minutes. I gradually rotated my beam away from EU to keep them from calling, perhaps simulating a band fade. I called CQ on CW which is rare. I was working them just about as fast as I could log them. I saw rates of 3 per minute! After awhile, I realized that I was working too hard and not having as much fun as on SSB. I had programmed a keyboard for CW macros but barely used it. I sent almost everything by hand. We had 146.55 in the background. There was way too much activity early on in the contest so I turned the volume down during the CW pileups. I did make some QSOs there at the very end. Already looking forward to next year.

From Kermit, W9XA: I had good time with the QSO Party; I spent most all of the time on 80/40 CW with a little 40, 20, 6, and 2m phone. The results before scrutiny indicate 29 Phone QSOs, 102 CW QSOs, 58 Mults, 13,514 Total. From the sounds of it AH6EZ and AB9OS should be able to really top these numbers.

From Eric AB9OS: I was able to put together a score of 30,552 which includes 191 CW contacts, 20 Phone contacts, 76 Multipliers, 37 Counties, 34 States/Provinces, 5 DX Countries. Mostly 20, 40 & 80 meters, switching between a ground mounted vertical and a G5RV Dipole I put up in the backyard about 16' off the ground and broadside to the North/South. I tried using some stuff I learned at Contest University at Dayton and that was fun. Mostly called CQ. Also, learned a lot about the N3FJP software which I was using for the first time. Contest time was intermittent with diaper changing breaks/SpongeBob DVD changes etc.

The "Occasional Contester" and the November Sweepstakes

by Eric Lorenz, KC9FQV

I am not big-time contester. In fact, I think you could put me into the 'recreational contester' category. But still, since I started Radiosport, I have discovered 1) it's fun, 2) it has made me a better operator, and 3) did I forget to say it's FUN? So far, my involvement other than Field Day (which isn't supposed to be a contest anyway) has been with the IL QSO Party and a few other smaller-type contests. I think there are a lot of Hams like me, who while contesting is not a major part of ham radio for them, it's something they'd like to try but maybe aren't sure how to go about it. I thought perhaps relating some of my experiences might help.

As I have been on the road a lot with my new job, I have occasionally taken my HF gear and operated from wherever I happened to be. It was with this in mind that I was looking forward to my recent trip out West, that was going to include a new state for me: South Dakota. Since I was going to be out there for a whole week-

(Continued on page 7)

end, I figured it would be fun to hand out some QSO's from this (moderately) rare state. I got an email from Dick Isley W9GIG, who told me about this little contest happening the weekend I'd be out there, the ARRL November Sweepstakes. Hmm, this could be fun I thought. So, I packed up my gear: my TS-450SAT, power supply, laptop and my trusty hamsticks for 20 and 80 meters. With the help of Steve Churchill N9USZ, (Hamsticks for 15,17 and 40m) I was all set.

I arrived in Oacoma, SD Friday evening the 20th, and luckily enough I was able to get a hotel room with an exterior entrance! This was a big deal. Instead of having to operate somewhere from my work van all weekend, I could operate as I pleased from the comfort of my hotel room. Not only that, my room faced East and South, so I figured with good propagation I should be able to work pretty much whatever I could hear. My setup works pretty well for this: I use monoband hamstick antennas mounted on a 5" 3/8-24" magmount base on top of my work van. I decided early on to use what I had instead of investing \$ into a whole new setup. I set up the rig, the 40m hamstick, and fired the TS-450 up. I was greeted by an intermittent noise that leveled out anywhere between S7-S9. Wow, what was this? I stepped out of the room, looked up and saw them...power lines, the main power lines for the building. Ahhh...well I guess there are some tradeoffs for getting the last exterior room. Would I be able to overcome that noise? I heard someone calling CQ, and promptly worked Tony KC5PXW in NC. That was followed up with VA and AZ, so I now knew that all should be good for the big contest.

Saturday morning...I listen around to see what I can hear, and then take some time to hook up my Signalink USB and have a nice QSO on PSK31 with Bill, W5ZV in SC. Then, time to get ready. Get the snacks and drinks nearby, fresh pencil, fire up N3FJP Nov SS Logger, and go! The only way I can describe the sound is to imagine all the RF in the world filling the air and trying to come down into your radio at the same time. I never thought I would hear so much activity all at once. In fact, there was so much that in combination with the fact that I couldn't hear as well as I could've if I hadn't the noisy power lines nearby, I ended up doing a lot more searching and pouncing than running. Most times I just couldn't find a place where I wasn't sure that I was not stepping on someone else. In spite of that, I got into a pretty good rhythm of moving up and down the band(s), finding new stations each time.

My initial plans were to go as long as I could go into the early hours of the morning, but as I quickly discovered, one cannot burn the candle at both ends. Around 3am, I finally had to call it quits for the night (morning)! I got a late start (around 10am) and I worked fairly steadily throughout the day. I did get a couple of runs going for about 20 minutes at a time, but then adjacent noise would crowd me out (having only a single not-so-adjustable notch filter is one of the negatives for using the TS-450SAT for Radiosport). As things wound down Sunday night, one of my last contacts before the 9pm bell came was a contact with the Kansas University club station, KOKU...go Jayhawks! I had tried to work them on 80m, but they just could not hear me well enough. I thought I had lost the chance, but then a bit later, after going back to 40, I found them there, success!

And then, as soon as all the RF came piling in at 3pm the previous day, it all got sucked out of the atmosphere at 9, replaced with the sound...of silence, as everyone I am sure was looking over their logs and wrapping things up. For me, a pretty successful effort: 182 contacts, 62 sections worked and a claimed score of just over 22,000 points. 20 and 40 meters were the predominant bands, with a bit on 15. I need to play with the 80m hamstick a bit more. It has some funny characteristics (like a razor-thin bandwidth), and proved not very useful for this contest. Working the Sweepstakes taught me a few things: first, the Radiogram-style exchange requires you to be clear in your speech, and to have as good a signal as you can (beyond that, it's just how many fills you need!). Secondly, pay attention to where you are in the band. I had to throw out one contact as after I made it and the other station had moved on, I realized that I had accidentally moved below my band edge. Third, make sure you are well rested and ready for the contest, especially if you plan on going the distance (or as much as you can).

All in all, it was a fun experience, and has gotten me excited about the next contest I will try. See you around the band for the ARRL 10 Meter Contest!

About the FRRL

The Fox River Radio League, Inc., is a general interest amateur radio club serving the central Fox River Valley area. Records indicate the club has been in existence since at least 1924, and 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 IRS Statutes.

We sponsor training classes

for new hams, license examination sessions, an annual hamfest, and participate in various public service events. If you have a specialized amateur radio interest, chances are you can share it with one or more of our club members.

The Fox River Radio League meets on the 2nd Tuesday of every month at Rasmussen College in Aurora, Illinois. Information tables are open at 7:00 PM, and the meeting begins at 7:30 PM. After conducting business, coffee and snacks are

served while we socialize. Following the break, a program of interest will be presented.

All persons interested in amateur radio are invited to attend. Families are welcome.

We hope to see you there!

License Exams

The Fox River Radio League, Inc., in conjunction with the ARRL VEC, conducts amateur examinations on the 3rd Tuesday of January, March, May, September and November at Rasmussen College, 2363 Sequoia Drive, Aurora, IL, at 7:30 PM. No advance registration is required, but please be sure to bring your license (if you have one) and a photocopy of

it, some form of photo identification and the fee of \$15.00. (The FRRL receives no portion of this fee.)

The next exam session is scheduled for January 19, 2010 Rasmussen College.

FRRL Dues

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 \$20.00 a year, Senior Citizen dues are \$12.00. Family dues are \$30.00. Members can help support the FRRL Repeaters by making an annual \$10.00 donation.

Check with the Treasurer for details and additional dues rates.

Fox River Radio League

Founded 1924

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Nets

Net Name	Freq.	Day	Time
FRRL	147.210	Tuesday	7:30 PM Local
10-10 CW	28.150	Monday	8:00 PM Local
10-10 SSB	28.720	Monday	8:30 PM Local

FRRL CLUB MEETINGS ARE HELD AT RASMUSSEN COLLEGE, 2363 SEQUOIA DRIVE IN AURORA.
PLEASE CHECK THE FRRL WEB SITE FOR A MAP TO THE MEETING LOCATION.
<http://www.frrl.org>



Send Address Corrections to:
Fox River Radio League, Inc.
3023 Scenicwood Lane.
Woodridge, IL 60517

FRRL Event Calendar

December, 2009

FRRL Board Meeting 1
Linux SIG..... 5
FRRL Meeting 8

January, 2010

FRRL Board Meeting 5
FRRL Meeting 12
FRRL Banquet..... 30

ArcOver FRRL Newsletter

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The ArcOver is published monthly by the Fox River Radio League, Inc. Articles and letters are always welcome. The normal deadline for material is the 20th day of each month for the next month's newsletter. Articles can be sent by email to arc-over@frri.org or via U.S. Mail. Contact the Editor for details and submission guidelines.

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Local Area Repeaters/Nets

W9CEQ—147.210 Mhz.
+600 KHz, 103.5 access tone
Owned by FRRL

W9CEQ—444.300 Mhz. IRLP Node # 4850
+5 Mhz, 114.8 access tone
Owned by FRRL

W9CEQ__B D-Star—442.10625 Mhz (+ 5.0 Mhz offset)
W9CEQ__C D-Star—145.270 Mhz (-0.600 Mhz offset)
FRRL Digital Voice/Data Repeaters
Contact W9XA for information

KC9OEM—145.470 Mhz. -600 KHz, 103.5 access tone
KC9OEM—444.525 Mhz + 5 Mhz, 114.8 access tone
(2 meter is primary Kane Co. SKYWARN /ARES freq)
Owned by Kane County OEM

W9DWP—Kane Co. Amateur Public Svc. Rptrs.
145.270 -600 KHz, 107.2 access tone
443.025 +5 Mhz 114.8 access tone

W9ZGP—NIARC
147.060 +600 KHz, 103.5 access tone

- Weekly ARES/Skywarn Net—Wed. Eve. at 6:30 pm local time on the KC9OEM 2 meter repeater
- Weekly FRRL Net—Tues. Eve. at 7:30 pm local time on the FRRL 2 Meter repeater.
- Illinois DStar Net - Wed. Eve. at 8:00 pm local time on the DStar 440 repeater.