

# HAM RAG



Visit our website for more club and area ham information  
In the Rockford area at <http://www.w9axd.org>

## RARA Mission Statement

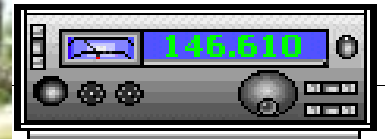
A member association with common interest of public service to the community through the use of amateur radio.

## July 2012

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## Field Day 2012



### NEXT MEETING

**FRIDAY**  
**July 13, 2012**

**Location:**  
**Foundation Room**

**Saint Anthony OSF**  
**5666 East State Street**  
**Rockford, Illinois**

**Program: TBD**

Latest news and events on our web page: <http://www.w9axd.org>

## ***"FIFI"* The World's only Flying B-29 SuperFortress**

The ROCKWELL COLLINS radio clubs in Cedar Rapids and Richardson, TX have been working hard to restore both the HF transmitter and receiver on *"FIFI"* to operating condition. Phase one is now complete with an operational ART-13 and BC-348. The ART-13, standard on every WWII B-29, is an AM, CW, and MCW Transmitter. Additionally, a new HF antenna has been installed on *"FIFI"*. We are now close to being ready to operate both in flight and ground on the amateur radio HF frequencies.

In addition to supporting *"FIFI"* and our CAF squadron, our mission is to preserve the memory of the B-29 Radio veterans and their stories by faithfully maintaining and operating the equipment named in their honor. We are planning to have a dedication ceremony for the *"FIFI"* radio operator position on the morning of Saturday, June 30, 2012 at the Addison, TX B-29/B-24 hangar. Speaking at this event will be Hank Erwin, son of B-29 Radio Op Medal of Honor recipient Henry "Red" Erwin, and Clyde Huseey, B-29 Radio Operator on *The Last Mission of WWII* (August 14-15, 1945). Our mission is to honor all B-29 radio operators, and dedicate the Smith-Erwin Memorial Radio Position.

Our desire is to have as many WARBIRD lovers, amateur radio operators, short wave listeners, historians along with interested parties and their families in attendance as possible for this June 30, 2012 event. To attend the event in person go to the Cavanaugh website at [Cavanaugh Flight Museum](http://www.cavanaughflightmuseum.com) 4572 Claire Chennault Addison, TX 75001 (972) 380-8800 or see the flyer information at <http://www.formstack.com/landing/caf-addison>

The additional purpose of this communications is to target radio operators that use Amplitude Modulation and maybe able to help spread the word and even communicate over-the-air with the Smith-Erwin Memorial Radio Position on *"FIFI"* the B-29 Super Fortress. We are planning some tests of the B-29 restored station this week (some radio tests may be while flying) before the Saturday event so be sure to have an ear on the 40 meter AM frequencies (7.160 MHz or 7.290 MHz) Possible Saturday on air activities may include 20 meters (14.286 MHz). Please realize that this is WWII vintage radio equipment and our small team is still in the preliminary stages of phase two operations complete with the yet uncovered Murphy's law challenges. Join in – and be part of the fun.

Please help spread the word by talking up the event in your local area both on and off the air through any means you feel will be Let's help keep these WARBIRDS flying and communicating.

CAF Addison, TX Flyer (June 30, 2012 Addison Event) (Listen for *FIFI* possible radio operations in Flight 10AM and 3 PM,



## From the Acting Secretary

### Secretary's Report – RARA Club Meeting June 8, 2012

The meeting was brought to order by President Tom Shouler, N9VJU at 7:12 PM. 16 people were in attendance. Following introductions, the first order of business was a reading of the Secretary's report from the May club meeting by acting secretary John Olson, W9JGO. A motion to accept the report as read was made by Kurt Eversole, KE9N and seconded by Jim Miller, W4JR. The report was accepted by a unanimous voice vote. A reading of the current treasurer's report by John Olson was followed by a motion to accept the report as read by Steve Twigg, W9SWT and seconded by Alvin Alexander, KC9GIO. The report was accepted by a unanimous voice vote.

#### Old Business:

Dennis Johanson, K9VMY reported that he had a breakfast meeting with the fellow wanting assistance with a 900 MHz. Antenna design project. The project *may* be on hold until Rock Valley College is back in session.

#### New Business:

Gordy Seaman, KC9NEX reported that he had received the 2012 On The Waterfront contract for our ticket sales booth fund raiser. He also stated that Pine Tree Pistol Club was ready assist us in the effort, as they did last year. John Olson made a plea to those present of the importance of the fund raising effort to our club's financial health.

The repeater committee met on Thursday June 7, 2012. They decided that the new replacement 147.000 repeater will be installed sometime after Field Day. The new antenna for the 146.610 repeater will be installed when there is a crew working on the tower. They have agreed to a \$150.00 fee, as reported by Chuck Ingle, AB9AY. Jerry Alberts, KU9S, reported that he was getting interference from our 146.610 repeater when he was listening to the 146.625 repeater in Tonica,IL. Members of the repeater committee and others volunteered to do some measurements to see if our transmitter is at fault. The status of the 220 MHz repeater will be brought up at the next board of directors meeting. The 147.000 repeater will be checked for proper deviation before installing it at the St. Anthony Hospital site.

The business meeting was ended at 7:38 PM, followed by a break and the evening's program, a discussion of Field Day and the CT Logging program that will be used for the event. This presentation was made by Field Day Chairman Kurt Eversole.

# AMATEUR RADIO EXAM NOTICE

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June 16th there were 2 upgrades.

Upgrades:

Steven J Arntzen KB9IZT, Technician

Robert S Giesecke N9KUX, Extra

Thanks to Shari Harlan N9SH, Alvin Alexander KC9GIO and Steve Twigg W9SWT for volunteering their time.

Amateur Radio exams are held the 3<sup>rd</sup> Saturday of every month in Rockford IL. The next session is 9AM July 21, 2012. Walk-ins welcome. Check-in is from 9AM-10:30AM. We require two signature ID's (one with a photo). If you are a licensed Amateur Radio operator bring your current license and a copy. If you are using a CSCE for an element credit, bring the original and a copy (We need to see the originals & keep a photocopy of each document used for element credit). No copier on site. The test fee is \$14.00. Bring a non-programmable calculator.

Location:

OSF St Anthony Medical Center

5666 E State St

Rockford IL

Exams will be held in the St Francis Room (Main Entrance then turn right).

Rusty Cordell WB9QYV

[wb9qyv@aol.com](mailto:wb9qyv@aol.com)

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## AREA Repeaters

146.610 -	ENC/DEC pl 114.8	W9AXD
147.000 +	ENC/DEC pl 114.8	W9AXD
223.880 -	ENC/DEC pl 118.8	W9AXD
<b>ATV</b> input 1250 Mhz/ 434 Mhz		W9ATN
	output 421.25 Mhz	

146.805 -	ENC/DEC pl 114.8	K9AMJ
224.440 -	ENC/DEC pl 118.8	K9AMJ
147.255 +	ENC/DEC pl 114.8	WX9MCS
444.725 +	ENC/DEC pl 107.2	WX9MCS
	Linked to FISHFAR	

## 2010 RARA Officers and Board

### **Officers:**

President - Tom Shouler, N9VJU, 815-877-9129

Vice President - Open

Secretary - Open

Treasurer - John Olson W9JGO 815-399-4368

### **Directors:**

Doug Abrahamson, KC9SDO 815-979-0329

Kurt Eversole, KE9N 815-389-2784

Dave Larsen, N9ZXL 815-399-8205

Gordon Seaman, KC9NEX 815-234-5034

Web Master - Robert Larson, KC9ICH, 815-226-1875

Ham Rag Editor - Jim Holich, AB9SX, 779-552-8796

Repeater Chairman - Chuck Ingle, AB9KA, 815-979-1049

## The K7RA Solar Report

SB PROP ARL ARLP027  
ARLP027 Propagation de K7RA

Solar activity jumped way up this week, with average daily sunspot numbers increasing by nearly 92 points to 118.1. Average daily solar flux went to 138.5 from 92.8 the week before. One new sunspot group appeared on June 29, another on July 1, and two more on July 4.

Geomagnetic activity this week was concentrated on June 30 through July 2, and the causes were the usual suspects, solar flares and solar wind spewing from coronal holes. One unusual aspect was that the mid-latitude A index, measured in Virginia, was actually higher on July 3-4 than the planetary A index, which is usually higher. The planetary A index is made up of an weighted aggregate of estimated K index data from multiple geomagnetic observatories.

The outlook for the near term has changed since the forecast that was presented on Thursday in the ARRL Letter. The solar flux is higher, and the higher geomagnetic activity is because of an M-Class solar flare on July 4.

The forecast shows increasing activity over the next couple of days, with solar flux at 165 on July 6-7, 160 and 155 on July 8-9, 145 on July 10, 140 on July 11-12, then 130, 125, 115 and 110 on July 13-16, and 105 and 100 on July 17-18. Solar flux is expected to dip below 100 on July 19-22. Solar flux is expected to rise to 140 on July 30 through August 1, dip again, and then peak at 145 on August 7.

Planetary A index is expected at 8, 12, 22, 18, 8 and 7 on July 6-11, and 5 on July 12-26, followed by another active period with planetary A index at 20 on July 27-28, 15 on July 29-30, and 8 on July 31 through August 1. A index should go quiet down to 5 over the next couple of weeks, except for a reading of 8 on August 4.

Petr Kolman, OK1MGW of the Czech Propagation Interest Group predicts the geomagnetic field will be quiet to unsettled July 6-7, quiet to active on July 8, unsettled to active July 9, mostly quiet on July 10-12, unsettled to active July 13-15, mostly quiet on July 16-18, and quiet to unsettled on July 19-21.

The Australian Space Forecast Centre issued a Geomagnetic Disturbance Warning at 2328 UTC on July 5. They predicted quiet to unsettled conditions July 6, quiet to unsettled conditions with active to minor storm periods late in the UTC day on July 7, and unsettled to active conditions with isolated minor storm periods on July 8.

This alert comes from a mail list offered by the Australian Government Bureau of Meteorology. You can see the email lists offered at <http://www.ips.gov.au/mailman/listinfo/> and example on subscribing at <http://www.ips.gov.au/mailman/listinfo/ips-geo-warning>. This is for the Geophysical Warning email list, but notice that on the listinfo page at the first URL that the text string to the left of the Geophysical Warning description is ips-geo-warning, which matches the end of the second URL above. Just substitute the appropriate string of characters in that URL for any other lists you want to subscribe to.

As June is now over, we can look at some monthly numbers and 3-month moving averages. For the 3-month periods centered on January through May 2012, the average daily sunspot numbers were 83.3, 73.7, 71.2, 87.3 and 91.5. Keep in mind that the 3-month average centered on May is an arithmetic average of all daily sunspot numbers from April 1 through June 30.

If we look at just the monthly sunspot number averages for September 2011 through June 2012, they are 106.4, 123.6, 133.1, 106.4, 91.4, 50.1, 78, 84.5, 99.4 and 90.1.

That period last fall when sunspot numbers were so high was unusual, or at least we hadn't seen activity such as that in a long time. It was eight years earlier, in November 2003 when the monthly average of daily sunspot numbers was over 100 previous to September 2011. In November 2003 the average daily sunspot number was 103, and in October 2003 it was 118.9. It hadn't passed the November 2011 average of 133.1 since 9 years ago when it was 132.8 in July, 2003. On July 20, 2003 the daily sunspot number was 224.

Go to <http://spaceweather.com/> and in the Archives drop-downs toward the upper-right, set it for July 21, 2003. Then click the Back and Forward links toward the upper right and see all the sunspot activity as it moves across the sun. If there seems to be a one-off problem with the sunspot numbers in the spaceweather.com archive, it displays the previous day's sunspot number because the date has changed to the next UTC day by the time the daily sunspot number is updated. You can check it against the daily sunspot numbers in our bulletin at <http://www.arrl.org/w1aw-bulletins-archive/ARLP030/2003> to see what I mean.

Space.com ran an article on a recent solar flare. Read it at <http://www.space.com/16400-solar-flare-sun-fireworks.html>.

Also, NASA commented yesterday: [http://www.nasa.gov/mission\\_pages/sunearth/news/News070512-M6.1flare.html](http://www.nasa.gov/mission_pages/sunearth/news/News070512-M6.1flare.html)

Following last week's reports, another Field Day report came in on July 3 from Billy Bagwell, KE5WLH of the Greyhound Amateur Radio Club at Eastern New Mexico University in Portales, New Mexico. Billy wrote, "K5R, the special event station celebrating 100 years of New Mexico statehood had three radios on 80, 40, 20, and 15 meters. We made plenty of contacts on all bands. 80 got better here after 9:00 PM local time and was great most of the night with times of noise and fading. We think this was due to sun event/magnetic activity. 20 and 40 were hot as we expected. 15 meters started slow at noon and moved with the Sun from East to West until sunset when it seemed to fade away. On Sunday at sunrise 15 meters came back hard and moved with the Sun as expected. We had our stations set up in the Roosevelt County Sheriff's Office EOC, and I involved had a great time!"

## The K7RA Solar Report

On June 30, Bob Leo, W7LR of Bozeman, Montana wrote about a "giant 6 meter opening yesterday morning, the best that I have ever heard in 75 years of hamming. The band was full of distant DX. I even worked Israel, Poland, Estonia and Svalbard with 100 watts, all new ones for me between 1300z to 1500z when the band folded. Today it is as dead as a fence post."

Bob was born in 1921 and was on the famous Hallicrafters expedition to Africa in 1948. Check out his bio at <http://www.qrz.com/db/w7lr>, which of course requires a free account and login.

Joe, CT1HZE of Portugal (IM57nh) reports "June 30 was definitely an historic day for 6 meter multi-hop Es. Already from 0430z observers in Finland received FM broadcast stations from Russia on 70 MHz indicating a MUF greater than 110 MHz at high latitudes of up to 70 degrees N."

"These Es clouds shifted westerly with the sun and at about 1300z a spectacular 6 meter opening started when the automatic keyer from NN7J (CN85, Beaver Creek, Oregon) was heard simultaneously by G0JHC, CT1HZE and stations in Germany. In the following 6 hours Pacific Northwest stations from W6, W7, VE7, VE6 and VE5 were able to work hundreds of QSOs with many countries in Western, Central, and Eastern Europe."

"Highlights were QSOs between JW7QIA and W7 (OR) and W5 (TX) stations and W7MEM and Israel (10700km). Even W7GJ who stated for years that he would never work EU on terrestrial modes was able to work 9 QSOs with EU into G, SP, F and DL. CT1HZE was able to work 25 stations from the Pacific Northwest, after waiting for more than a decade for such an opening. Best DX was VE7DAY CO70 and WB8VLC CN84 who used 35W and a 5 el. only. Several QSOs were even made on SSB."

"Due to the early local time on the West coast probably many stations missed the first hours of the opening and later on some had to go to work, of course. I would consider this as a multihop Es propagation event with high MUF (over 70 MHz) on huge parts of the paths and probably more hops than necessary for the distance, i.e. 5 or 6 hops for the 8000 to 9000 km paths considering observed elevated angles with which the signals were received."

Thanks, Joe, and Bob. What an opening!

Kevin Lahaie, K7ZS of Hillsboro, Oregon wrote on June 29, "Out of the blue Europe opens this morning on 6 meters in a big way! I just worked DL, F, GM, SM, SP, ON, IT9 and OZ on 6 meter CW. Yahoo!"

Apparently the opening may have favored the northwest and not the southwest. I hope he wasn't so discouraged that he missed the opening, but early on June 29, Lance Wilson, NR7N of Scottsdale, Arizona wrote: "I have been on 6 meters for fifty years and I must say that the E-season in the Southwest has been disappointing. We have had a few good openings this year to the East Coast but nothing like previous years. International DX is non-existent. I keep watching VHFdx.info reports on extensive East Coast to Europe openings (as well as extensive U.S. openings for them as well) while we on the other side of the country go empty handed."

"While working Europe from the west normally requires F2 it appears that something else may be at play here. Day after day of seeing the left-hand lower quarter of the U.S. virtually blank makes me wonder what could be going on. Openings, when they occur, are mainly to the northwest with some also to the middle of the country. Even our normal pipeline to Texas appears to be down."

Regarding conversion of Command sets to SSB, a topic mentioned in recent bulletins, Ray Soifer, W2RS of Green Valley, Arizona wrote: "The W2EWL conversion didn't exactly convert a Command set to SSB, it made it into a VFO to use with an SSB exciter. In the 1950s I had a Central Electronics 20A exciter and a converted BC-458 VFO. The 20A generated SSB (upper sideband) at 9 MHz. Mixing that with the 5 Hz output of the BC-458 produced USB on 20 meters or LSB on 80."

Sunspot numbers for June 28 through July 4 were 73, 97, 90, 137, 165, 136, and 129, with a mean of 118.1. 10.7 cm flux was 119.7, 117.4, 124, 133.4, 165.9, 145.8 and 163.2, with a mean of 138.5. Estimated planetary A indices were 6, 5, 22, 19, 19, 10, and 9, with a mean of 12.9. Estimated mid-latitude A indices were 7, 6, 21, 20, 18, 11, and 11, with a mean of 13.4.

### **FRIDAY MORNING BREAKFAST**

Meets every Friday morning from 8 am until about 9:30 am. An informal gathering of ham folks, no affiliations necessary, good food and good company.

*Everyone is welcome to attend.*

***"The Stockholm Inn"***  
***2420 Charles Street***  
***Rockford, IL 61108***



## Items For Sale

### **FOR SALE – TWO Ten-Tec Model 444 Hercules Solid State Linear Amplifiers**

Here is the deal. I have two, (2) Ten-Tec model 444 Hercules amplifiers and two, (2) power suppliers. The buyer needs to be aware that the final PA transistors for this amplifier are no longer available and Ten-Tec no longer supports this product. If the PA output transistors fail you are looking at a full PA board replacement. I have seen a couple papers where people installed the readily available and inexpensive Motorola 600 watt boards as replacements.

Unit #1 – On my table and in daily use. Does not have the WARC band tuned inputs but does work on WARC bands. The 10m modification is installed. Power supply is wired for 120VAC.

Unit #2 – Was working and in daily use until the stepper motor that drives the band switch failed. I have a junk box replacement stepper motor that looks like it is a direct replacement but I have not attempted to install. This unit does have the 17m and 12m WARC tuned inputs installed as well as the 10m input. The power supply for this unit is wired for 220VAC. I have not used this power supply so I cannot comment if it works or not. I will soon have a 220VAC plug in my shack and after that I can test it.

General comments. The Hercules 444 amplifiers are good instant on, no-tune 160-10m amplifiers. The only issue with them is the issue with the output PA availability. The amplifier is rated at 600 watts output with 50 watts drive. To lessen risk on the PA transistors I typically drive with 35 watts which delivers a solid 400 watts output. The SWR protection circuit is a bit persnickety. The manual says the SWR trip level is suppose to be 75 watts reflected power, but my amp seems to trip at 50-60 watts. There is an internal adjustment on this but I have never tried to adjust. In addition to SWR protection the amps have over current and un-balance protection circuits. I have used these amplifiers for the past 5 years.

E-Mail me and I can send you a copy of the Hercules 444 manual.

I am looking to get \$500 for the lot of two amps and two power supplies. Pick up in Janesville or will discuss delivery within reasonable distance from Janesville.

Doug, W9PN  
Janesville, WI  
[W9PN@ARRL.net](mailto:W9PN@ARRL.net)

Cell Phone (608) 201-2039

### **EQUIPMENT FOR SALE**

Alpha 91 Amplifier	\$2700.00
Vertical Antenna	Gratis, but must take down and remove, and restore ground
Good collection of keys	E- mail for specifics
Icom HF/50 MHz IC-756	Negotiable
Icom FM Xcvr IC-2100	Negotiable
Icom Speaker SP-20	Negotiable
Astron Power Supply RS-35M	Negotiable
CDE Transmit/Receive Antenna Directional Control	Negotiable

Phil Miner—N9PM  
[n9pm@comcast.net](mailto:n9pm@comcast.net)

# Hamfest Information

**Sunday July 15, 2012**  
**Fox River Radio League Hamfest and Electronics Market**  
 Aurora Central Catholic High School  
 1225 North Edgelawn Drive  
 Aurora, IL 60504  
 Dawn Williams, KC9LQS  
 1203 Brandywine Circle Batavia, IL 60510  
 630-531-1670  
 kc9lqs@yahoo.com



Presents  
**RADIO EXPO 2012**  
 Saturday September 15<sup>th</sup> **One Day Only**

BOONE CO FAIRGROUNDS - US Rt 20 & IL 76 BELVEDERE, IL

42° 16' 54" N / 88° 51' 7" W



Radios ~ Antennas ~ Computers ~ Electronics for everyone!  
 Grounds Open For Set Up Friday At Noon ~ Flea Market Opens - 6 AM  
 Exhibit Buildings Open - 8 AM To 4 PM

\* Newest Amateur Equipment From Major Manufacturers And Surplus Electronics \*

Advanced Tickets \$ 8 with 4 stubs - At The Gate Tickets \$ 10 with 2 stubs. (Kids Under 12 Free)

FREE PARKING - Outdoor Electrical Hookups Available - VEC Testing 9 - 12 Noon

On Grounds Breakfast And Lunch Available **RVs / Motor Homes - Water - Electric \$25.00 - No Waste Service**

Talk-in On The CFMC Repeater 146.76 (107.2 Hz PL) Linked To WX9MCS 147.255 (114.8PL) & 444.725 (107.2 Hz PL)  
 ( Grounds / Local Area Talk In 146.550 )

Got Expo Questions ??? Email Us Today [cfmc.radioexpo@yahoo.com](mailto:cfmc.radioexpo@yahoo.com) Or Call us 630-847-5317

Name \_\_\_\_\_ Call \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

Table Reservations for both buildings-\$20.00 per table (8ft long) \_\_\_\_\_ x \$20.00 = \_\_\_\_\_  
 4 or more tables - \$15.00 each \_\_\_\_\_ x \$15.00 = \_\_\_\_\_  
 Advanced sale tickets 4 Stubs - \$ 8.00 - REQUIRED with tables \_\_\_\_\_ x \$ 8.00 = \_\_\_\_\_  
 Inside \_\_\_\_\_ / Outside electric \_\_\_\_\_ - Flea market - \$ 10.00 = \_\_\_\_\_  
 Total ..... = \_\_\_\_\_

\*\* Building assignment at discretion of CFMC / Do not mail table or ticket requests after Aug 27, 2012 \*\*  
 Make check out to: CHICAGO FM CLUB 6348 N Milwaukee Ave #103 Chicago, IL 60646  
 Remember to send a #10 (4 in by 9.5 in) self-addressed stamped envelope with your request.



**ANNOUNCING**  
**The 60<sup>th</sup> Anniversary of the**  
**Midwest's Premier DX event!**



**60th Annual W9DXCC Convention & Banquet**  
**Saturday, September 15, 2012**  
**Holiday Inn - Elk Grove Village, Illinois**  
**Sponsored by the Northern Illinois DX Association**

**PRESENTATIONS**

**HKONA Malpelo Island – Glenn Johnson W0GJ**  
**T32C Island of Kiritimati (Christmas Island) – Chris Duckling G3SVL**  
**FCC Activities/ARRL Lobbying (PRB-1 Update) – Chris Imlay W3KD**  
**Propagation Update – Cycle 24 Predictions – Carl Luetzelschwab K9LA**  
**Rare Telegraph Keys from the collection of Dave Newman NE9H**  
**Tales from the Latest IOTA Expedition – Mike McGirr K9AJ**  
**Northern California DX Foundation Update**  
**And much, more – See website for details**

**ARRL FORUM**

**Central Division Director Dick Isely W9GIG, Central Division Vice Director Kermit Carlson W9XA, and DXAC Advisory Committee Jim O’Connell W9WU**

**GRAND BANQUET AND PRIZES**

**Noted DX’er and Contester Fred Laun K3ZO—Banquet Speaker**  
**Master of Ceremonies: Jim O’Connell W9WU**

**Special 60<sup>th</sup> Anniversary Activities**

**Major Prizes from Leading Vendors**  
**ARRL and CQ awards card checking**

**COME EARLY:** Register for the course “DXing from the Black Hole” from 1-5 pm Friday  
Friday Welcome Reception

**FOLLOWED BY:** Late Friday Hospitality Suite Hosted by Northern Illinois DX Association

**STAY LATE:** Saturday Night Hospitality Suite Hosted by Greater Milwaukee DX Association

For further convention information, contact Paula Uscian, K9IR [pmuscian@sbcglobal.net](mailto:pmuscian@sbcglobal.net)

For information about taking the course “DX’ing From the Black Hole,” contact Jack Hudson, W9MU [jhud-](http://jhud-)



P.O. Box 8465, Rockford, IL 61126

Website: [www.w9axd.org](http://www.w9axd.org)

E-mail: [jholich@comcast.net](mailto:jholich@comcast.net)

<u>Nets</u>		
Monday 8 PM	RARA Info.	146.610 - 114.8
Monday 9 PM	10M SSB Net	28.375 +/- USB
Thursday 7 PM	ARES	147.255 + 114.8

place address label here

# July 2012

## ROCKFORD AMATEUR RADIO ASSOCIATION MEMBERSHIP APPLICATION

Single Adult: \$25.00 Adult w/Family: \$30.00  
Single Senior: \$15.00 Senior w/Family: \$20  
Student: \$15.00

Above rate includes the RARA monthly newsletter, Ham Rag, via email.

Name \_\_\_\_\_ Call Sign \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Home Phone \_\_\_\_\_

Work Phone \_\_\_\_\_

Email \_\_\_\_\_

Renewal \_\_\_\_\_ New \_\_\_\_\_ Retired \_\_\_\_\_

Radio Interests \_\_\_\_\_

Other Interests \_\_\_\_\_

Suggestions: \_\_\_\_\_

RETURN COMPLETED FORM TO:  
ROCKFORD AMATEUR RADIO ASSOCIATION  
P.O. BOX 8465  
ROCKFORD, ILLINOIS 61126